



# MINING CONTROLS INC.

P.O. Box 1141 Beckley, WV 304-252-6243

THE FIRST OF ITS KIND - AN LED LAMP ASSEMBLY THAT IS BETTER THAN A 50 WATT EXN HALOGEN LAMP.

**TRIPLE LED, 12 WATT, 9 to 26 VOLTS AC/DC REPLACEMENT FOR 50 or 65 WATT HALOGEN**



3 ARRAY WHITE ONLY



3 ARRAY WHITE / RED

PART NUMBER	DESCRIPTION
<b>MSHA APPROVED REPLACEMENT FOR A 50 WATT HALOGEN LAMP</b>	
2021-36140-4	12 WATT HIGH OUTPUT LED LAMP ASSEMBLY WITH 45 DEG. FLOOD LENS 9 - 26 V AC/DC ( MODEL MCI 50 XP ONLY ) ( MSHA APPROVED REPLACEMENT FOR A 50 WATT HALOGEN LAMP )
2021-36140-6	12 WATT HIGH OUTPUT WHITE/RED LED HEAD/TAIL LAMP ASSEMBLY WITH 45 DEG. FLOOD LENS 9 - 26 V AC/DC ( MODEL MCI 50 XP ONLY ) ( MSHA APPROVED REPLACEMENT FOR A 50 WATT HALOGEN LAMP )
<b>NOT APPROVED FOR USE IN A STE LIGHTING SYSTEMS</b>	
2021-36140-3	12 WATT HIGH OUTPUT LED LAMP ASSEMBLY WITH 18 DEG. SPOT LENS 9 - 26 V AC/DC ( MODEL MCI 50 XP ONLY ) NOT MSHA APPROVED FOR STE LIGHTING SYSTEMS
2021-36140-5	12 WATT HIGH OUTPUT WHITE/RED LED HEAD/TAIL LAMP ASSEMBLY WITH 18 DEG. SPOT LENS 9 - 26 V AC/DC ( MODEL MCI 50 XP ONLY ) NOT MSHA APPROVED FOR STE LIGHTING SYSTEMS

**Specifications**

Lumens Output: 1290 lm 6500 k  
 Operating Voltage: 9 to 26 VAC/DC  
 Power Consumption: 13.51 Watts  
 Nominal Current at 12.03V: 1.123 A  
 Nominal Current at 25.5V: 0.53 A  
 Rated Lamp Life: @70 deg. F / 21 deg. C 40,000 hrs.

DESIGNED TO FIT  
 MODELS MCI 50 XP

**PATENT PENDING**

Available Connectors: MSHA / ATECX Packing Glands  
 Mining Controls will custom fit your light fixture to work in all types of applications.



MODEL MCI 50 XP  
 MSHA / ATEX  
 CERTIFIED



PART NUMBER	DESCRIPTION
<b>MSHA APPROVED REPLACEMENT FOR A 50 WATT HALOGEN LAMP</b>	
7015-31678-14	MCI-50-XP LED HEADLIGHT ( ALUM. ) WITH 3 ARRAY HIGH OUTPUT 12 WATT LED'S, 45 DEG. FLOOD LENS 9 - 32 V AC/DC
7015-31678-15	MCI-50-XP LED HEAD/TAIL LIGHT ( ALUM. ) WITH 3 ARRAY WHITE HIGH OUTPUT 12 WATT LED'S, 45 DEG. FLOOD LENS AND 3 RED LED'S FOR TAIL LIGHT 9 - 26 V AC/DC
7015-31678-16	MCI-50-XP LED HEADLIGHT ( BRASS ) WITH 3 ARRAY HIGH OUTPUT 12 WATT LED'S, 45 DEG. FLOOD LENS 9 - 26 V AC/DC
7015-31678-18	MCI-50-XP LED HEAD/TAIL LIGHT ( BRASS ) WITH 3 ARRAY WHITE HIGH OUTPUT 12 WATT LED'S, 45 DEG. FLOOD LENS AND 3 RED LED'S FOR TAIL LIGHT 9 - 26 V AC/DC
<b>NOT APPROVED FOR USE IN STE LIGHTING SYSTEMS</b>	
7015-31678-10	MCI-50-XP LED HEAD/TAIL LIGHT ( ALUM. ) WITH 3 WHITE HIGH OUTPUT 12 WATT LED'S, 18 DEG. SPOT LENS AND 3 RED LED'S FOR TAIL LIGHT 9 - 32 V AC/DC
7015-31678-13	MCI-50-XP LED HEADLIGHT ( BRASS ) WITH 3 HIGH OUTPUT 12 WATTLED'S 18 DEG. SPOT LENS 9 - 32 V AC/DC
7015-31678-17	MCI-50-XP LED HEAD/TAIL LIGHT ( BRASS ) WITH 3 WHITE HIGH OUTPUT 12 WATT LED'S, 18 DEG. SPOT LENS AND 3 RED LED'S FOR TAIL LIGHT 9 - 32 V AC/DC

[www.minelinesystems.com](http://www.minelinesystems.com)

Larry Rowley @ Mining Controls Inc. Beckley, WV  
 304-252-6243 ext. 1510 or 304-228-3363 cell

# LED LAMPS

PART NUMBER	DESCRIPTION	LIST PRICE
	<b>MSHA APPROVED REPLACEMENT FOR A 50 WATT HALOGEN LAMP</b>	
2021-36140-4	12 WATT HIGH OUTPUT LED LAMP ASSEMBLY WITH 45 DEG. FLOOD LENS 9 - 26 V AC/DC ( MODEL MCI 50 XP ONLY ) ( MSHA APPROVED REPLACEMENT FOR A 50 WATT HALOGEN LAMP )	<b>\$190.00</b>
2021-36140-6	12 WATT HIGH OUTPUT WHITE/RED LED HEAD/TAIL LAMP ASSEMBLY WITH 45 DEG. FLOOD LENS 9 - 26 V AC/DC ( MODEL MCI 50 XP ONLY ) ( MSHA APPROVED REPLACEMENT FOR A 50 WATT HALOGEN LAMP )	<b>\$225.00</b>
	<b>NOT APPROVED FOR USE IN STE LIGHTING SYSTEMS</b>	
2021-36140-3	12 WATT HIGH OUTPUT LED LAMP ASSEMBLY WITH 18 DEG. SPOT LENS 9 - 26 V AC/DC ( MODEL MCI 50 XP ONLY ) NOT MSHA APPROVED FOR STE LIGHTING SYSTEMS	<b>\$190.00</b>
2021-36140-5	12 WATT HIGH OUTPUT WHITE/RED LED HEAD/TAIL LAMP ASSEMBLY WITH 18 DEG. SPOT LENS 9 - 26 V AC/DC ( MODEL MCI 50 XP ONLY ) NOT MSHA APPROVED FOR STE LIGHTING SYSTEMS	<b>\$225.00</b>

# LED LIGHT FIXTURES

PART NUMBER	DESCRIPTION	LIST PRICE
	<b>MSHA APPROVED REPLACEMENT FOR A 50 WATT HALOGEN LAMP</b>	
7015-31678-14	MCI-50-XP LED HEADLIGHT ( ALUM. ) WITH 3 ARRAY HIGH OUTPUT 12 WATT LED'S, 45 DEG. FLOOD LENS 9 - 32 V AC/DC	<b>\$ 500.00</b>
7015-31678-15	MCI-50-XP LED HEAD/TAIL LIGHT ( ALUM. ) WITH 3 ARRAY WHITE HIGH OUTPUT 12 WATT LED'S, 45 DEG. FLOOD LENS AND 3 RED LED'S FOR TAIL LIGHT 9 - 26 V AC/DC	<b>\$ 550.00</b>
7015-31678-16	MCI-50-XP LED HEADLIGHT ( BRASS ) WITH 3 ARRAY HIGH OUTPUT 12 WATT LED'S, 45 DEG. FLOOD LENS 9 - 26 V AC/DC	<b>\$ 607.00</b>
7015-31678-18	MCI-50-XP LED HEAD/TAIL LIGHT ( BRASS ) WITH 3 ARRAY WHITE HIGH OUTPUT 12 WATT LED'S, 45 DEG. FLOOD LENS AND 3 RED LED'S FOR TAIL LIGHT 9 - 26 V AC/DC	<b>\$ 657.00</b>
	<b>NOT APPROVED FOR USE IN STE LIGHTING SYSTEMS</b>	
7015-31678-10	MCI-50-XP LED HEAD/TAIL LIGHT ( ALUM. ) WITH 3 WHITE HIGH OUTPUT 12 WATT LED'S, 18 DEG. SPOT LENS AND 3 RED LED'S FOR TAIL LIGHT 9 - 32 V AC/DC	<b>\$ 550.00</b>
7015-31678-13	MCI-50-XP LED HEADLIGHT ( BRASS ) WITH 3 HIGH OUTPUT 12 WATTLED'S 18 DEG. SPOT LENS 9 - 32 V AC/DC	<b>\$ 607.00</b>
7015-31678-17	MCI-50-XP LED HEAD/TAIL LIGHT ( BRASS ) WITH 3 WHITE HIGH OUTPUT 12 WATT LED'S, 18 DEG. SPOT LENS AND 3 RED LED'S FOR TAIL LIGHT 9 - 32 V AC/DC	<b>\$ 657.00</b>

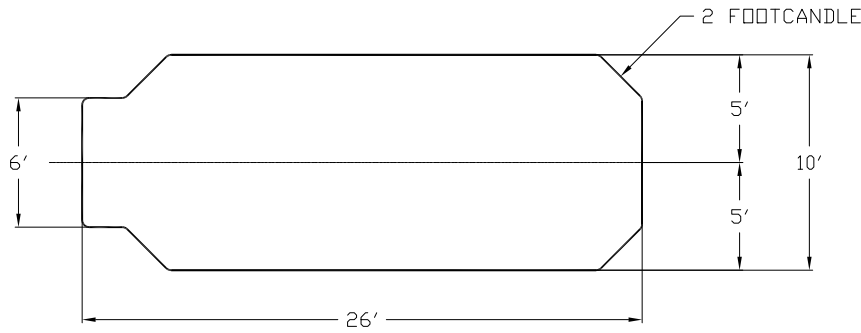
[www.minelinesystems.com](http://www.minelinesystems.com)

Larry Rowley @ Mining Controls Inc. Beckley, WV  
304-252-6243 ext. 1510 or 304-228-3363 cell

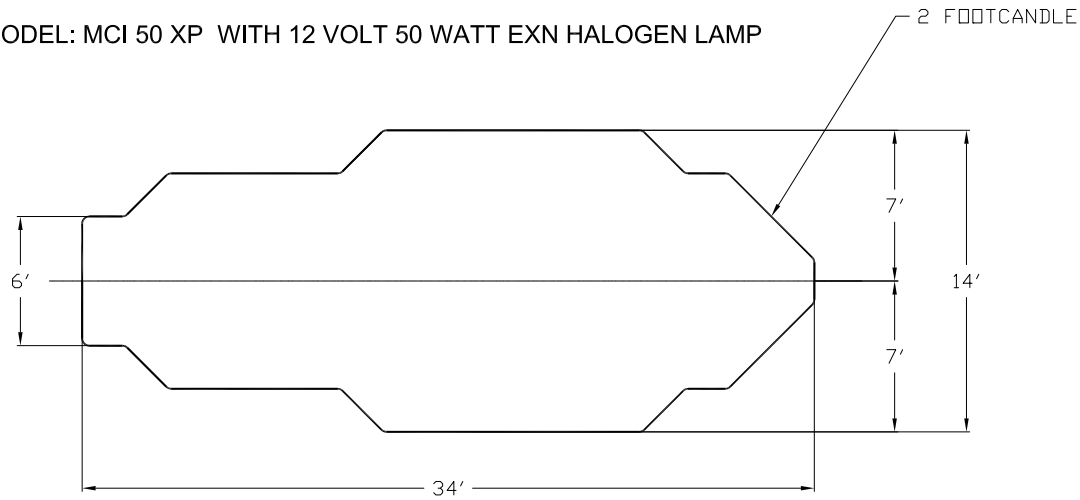
# LIGHT OUTPUT COMPARISON

## 50 WATT HALOGEN TO MCI'S NEW 12 WATT LED

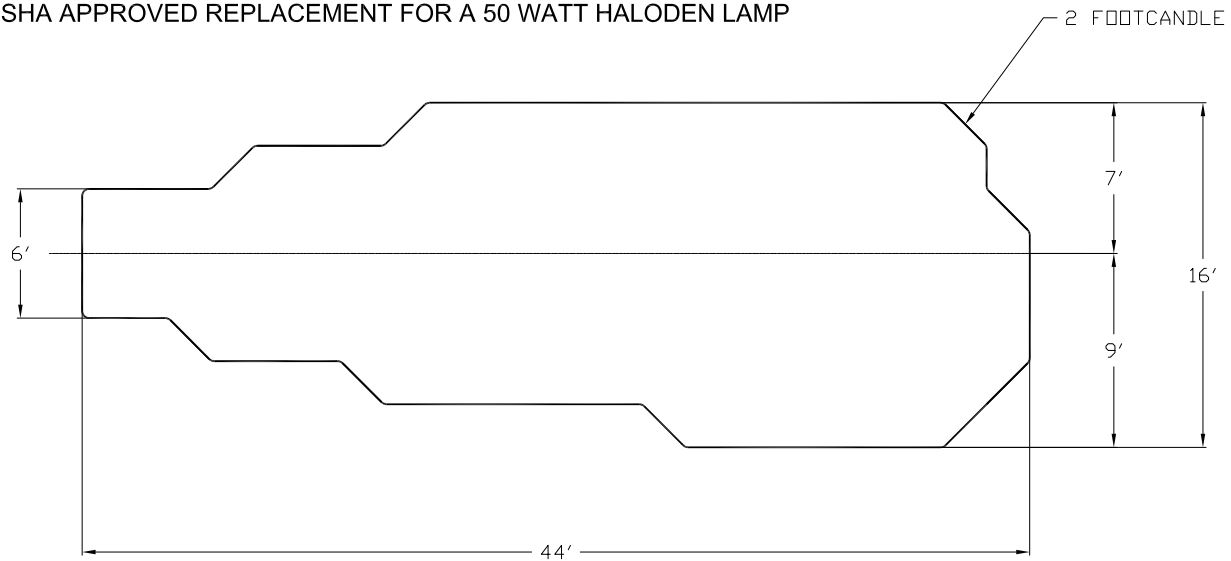
### BASED ON MSHA 2 FOOT CANDLE REQUIREMENT




MODEL: MCI 50 XP WITH 12 VOLT 50 WATT EXN HALOGEN LAMP



MODEL: MCI 50 XP WITH 9 TO 26 VOLT 12 WATT LED LAMP WITH 45° LENS  
MSHA APPROVED REPLACEMENT FOR A 50 WATT HALODEN LAMP



MODEL: MCI 50 XP WITH 9 TO 26 VOLT 12 WATT LED LAMP WITH 18° LENS

FIRST USED				 <b>MINING CONTROLS</b> <i>INCORPORATED</i>
MATERIAL & FINISH				
SCALE 1=1	DATE DRAWN 10-25-12	DRAWN BY LWR	CHECKED BY	TITLE <b>LIGHT OUTPUT COMPARISON</b>
ALL DIMENSIONS IN INCHES. TOLERANCES UNLESS OTHERWISE SPECIFIED:				DWG. NO. LOC-2021-36140
				REV. <b>A</b>
				DWG. SIZE <b>A</b>

38 DEG. EXN

0.00	0.00	0.00	0.01	0.02	0.04	0.08	0.12	0.13	0.14	0.13	0.15	0.19	0.24	0.29	0.32	0.34	0.35	0.36	0.36
0.00	0.00	0.01	0.03	0.05	0.10	0.15	0.18	0.18	0.19	0.25	0.32	0.39	0.44	0.46	0.48	0.48	0.48	0.48	0.47
0.00	0.00	0.02	0.07	0.14	0.22	0.25	0.27	0.34	0.45	0.55	0.63	0.66	0.68	0.68	0.67	0.66	0.64	0.62	0.59
0.00	0.02	0.08	0.21	0.34	0.38	0.50	0.70	0.86	0.98	1.04	1.05	1.03	1.00	0.96	0.91	0.86	0.81	0.76	0.72
0.01	0.08	0.34	0.60	0.90	1.26	1.54	1.77	1.83	1.78	1.70	1.60	1.48	1.37	1.26	1.14	1.04	0.96	0.88	0.81
0.12	0.76	2.03	3.15	3.83	4.10	3.89	3.54	3.17	2.77	2.41	2.11	1.86	1.65	1.47	1.30	1.17	1.05	0.95	0.86
9.13	21.75	21.33	14.79	10.71	8.24	6.48	5.19	4.23	3.47	2.89	2.44	2.09	1.81	1.58	1.40	1.24	1.11	1.00	0.91
18.74	43.66	40.38	24.68	15.34	10.48	7.63	5.81	4.57	3.70	3.05	2.57	2.19	1.89	1.65	1.45	1.28	1.15	1.03	0.93
9.87	23.38	22.69	15.65	11.36	8.66	6.76	5.40	4.38	3.58	2.97	2.50	2.14	1.85	1.62	1.42	1.27	1.13	1.02	0.92
0.15	0.86	2.24	3.52	4.26	4.50	4.27	3.86	3.41	2.95	2.56	2.23	1.96	1.73	1.53	1.36	1.21	1.09	0.98	0.89
0.01	0.10	0.41	0.65	0.95	1.38	1.73	1.99	2.05	1.98	1.87	1.74	1.60	1.47	1.34	1.22	1.11	1.01	0.93	0.85
0.00	0.03	0.10	0.24	0.37	0.38	0.51	0.76	0.96	1.12	1.18	1.18	1.15	1.11	1.05	0.99	0.93	0.87	0.82	0.77
0.00	0.01	0.03	0.08	0.17	0.24	0.26	0.26	0.34	0.49	0.62	0.72	0.76	0.78	0.78	0.76	0.74	0.71	0.68	0.64
0.00	0.00	0.01	0.04	0.07	0.12	0.17	0.19	0.18	0.19	0.25	0.34	0.43	0.50	0.53	0.55	0.56	0.55	0.54	0.53
0.00	0.00	0.00	0.02	0.03	0.05	0.09	0.13	0.14	0.14	0.13	0.14	0.19	0.25	0.32	0.37	0.39	0.41	0.42	0.42

LL

0

FLOOR

45 DEG. LED

0.00	0.01	0.01	0.02	0.04	0.07	0.10	0.14	0.16	0.18	0.19	0.21	0.25	0.30	0.35	0.38	0.39	0.40	0.41	0.42
0.00	0.01	0.02	0.04	0.09	0.14	0.19	0.23	0.25	0.28	0.34	0.41	0.47	0.51	0.53	0.55	0.57	0.57	0.58	0.59
0.01	0.02	0.05	0.11	0.19	0.28	0.33	0.38	0.47	0.58	0.68	0.74	0.77	0.81	0.82	0.83	0.84	0.84	0.82	0.80
0.01	0.05	0.13	0.28	0.44	0.53	0.69	0.90	1.05	1.17	1.25	1.29	1.29	1.29	1.27	1.23	1.18	1.13	1.07	1.02
0.03	0.17	0.48	0.80	1.22	1.63	1.91	2.18	2.31	2.28	2.23	2.15	2.04	1.91	1.77	1.64	1.51	1.40	1.29	1.20
0.22	1.13	2.72	4.04	4.92	5.37	5.14	4.75	4.35	3.89	3.44	3.06	2.73	2.44	2.19	1.97	1.77	1.61	1.46	1.34
12.76	29.74	29.00	20.49	15.09	11.86	9.47	7.69	6.33	5.26	4.43	3.78	3.26	2.85	2.50	2.22	1.99	1.79	1.62	1.47
24.09	56.00	52.70	33.89	22.09	15.54	11.54	8.92	7.11	5.80	4.83	4.09	3.50	3.04	2.66	2.35	2.09	1.88	1.69	1.53
11.73	28.23	28.32	20.25	15.03	11.86	9.49	7.71	6.35	5.28	4.45	3.80	3.28	2.86	2.52	2.24	2.00	1.80	1.62	1.48
0.22	1.11	2.68	4.02	4.93	5.41	5.19	4.81	4.40	3.93	3.48	3.10	2.76	2.47	2.22	1.99	1.79	1.63	1.48	1.35
0.04	0.17	0.48	0.83	1.24	1.67	1.97	2.26	2.38	2.35	2.29	2.20	2.08	1.95	1.81	1.67	1.54	1.42	1.32	1.22
0.01	0.05	0.13	0.29	0.46	0.56	0.73	0.95	1.11	1.24	1.32	1.35	1.35	1.34	1.32	1.27	1.22	1.16	1.10	1.05
0.00	0.02	0.06	0.11	0.20	0.30	0.36	0.41	0.50	0.63	0.73	0.79	0.83	0.86	0.88	0.88	0.88	0.88	0.86	0.83
0.00	0.01	0.03	0.05	0.09	0.15	0.21	0.25	0.27	0.31	0.37	0.45	0.51	0.56	0.58	0.59	0.61	0.62	0.62	0.63
0.00	0.00	0.02	0.03	0.05	0.07	0.11	0.15	0.18	0.20	0.22	0.24	0.29	0.34	0.39	0.41	0.43	0.44	0.45	0.46

FLOOR

LL

○

18 DEG. LED

0.00	0.00	0.01	0.01	0.02	0.03	0.03	0.04	0.06	0.09	0.12	0.14	0.17	0.20	0.23	0.25	0.26	0.28	0.32	0.38	0.43	0.49	0.55	0.59	0.61	0.63	0.63	0.64	0.64
0.00	0.01	0.01	0.03	0.03	0.04	0.06	0.09	0.14	0.18	0.22	0.26	0.30	0.33	0.34	0.40	0.50	0.57	0.65	0.74	0.79	0.83	0.84	0.85	0.85	0.84	0.83	0.81	0.80
0.00	0.01	0.03	0.04	0.06	0.09	0.16	0.22	0.29	0.36	0.41	0.44	0.53	0.68	0.81	0.93	1.06	1.14	1.18	1.20	1.20	1.18	1.16	1.13	1.10	1.06	1.01	0.97	0.94
0.01	0.03	0.06	0.09	0.16	0.28	0.41	0.53	0.60	0.74	1.02	1.27	1.47	1.66	1.78	1.83	1.83	1.80	1.75	1.69	1.61	1.52	1.43	1.35	1.28	1.21	1.14	1.07	1.02
0.02	0.08	0.15	0.34	0.66	0.89	1.11	1.72	2.38	2.70	2.98	3.16	3.17	3.09	2.93	2.73	2.53	2.35	2.18	2.03	1.87	1.73	1.60	1.48	1.38	1.28	1.20	1.12	1.06
0.11	0.50	1.26	1.96	3.99	6.25	6.67	6.83	6.81	6.29	5.66	5.08	4.57	4.11	3.69	3.29	2.95	2.66	2.41	2.19	2.00	1.84	1.70	1.57	1.46	1.35	1.26	1.18	1.13
6.79	32.14	44.82	31.49	22.02	18.31	15.19	12.62	10.49	8.68	7.24	6.14	5.27	4.58	4.02	3.56	3.17	2.85	2.57	2.33	2.13	1.95	1.79	1.65	1.53	1.42	1.32	1.24	1.18
13.37	65.10	90.61	61.93	38.36	26.24	19.15	14.63	11.56	9.38	7.77	6.55	5.60	4.85	4.24	3.74	3.33	2.98	2.68	2.43	2.21	2.02	1.86	1.71	1.58	1.47	1.37	1.28	1.22
6.79	34.00	48.41	34.21	23.84	19.84	16.50	13.75	11.44	9.43	7.82	6.60	5.65	4.89	4.27	3.77	3.35	3.00	2.71	2.45	2.23	2.04	1.87	1.73	1.60	1.48	1.38	1.28	1.23
0.14	0.68	1.68	2.53	4.75	7.22	7.70	7.87	7.85	7.22	6.47	5.79	5.20	4.68	4.19	3.71	3.31	2.96	2.67	2.42	2.21	2.02	1.86	1.71	1.58	1.47	1.37	1.28	1.22
0.03	0.12	0.29	0.58	0.96	1.21	1.44	2.12	2.85	3.21	3.52	3.73	3.74	3.65	3.46	3.21	2.97	2.75	2.55	2.37	2.18	2.00	1.84	1.69	1.57	1.46	1.36	1.27	1.21
0.01	0.04	0.10	0.19	0.32	0.47	0.61	0.73	0.81	0.96	1.27	1.55	1.77	1.99	2.14	2.19	2.19	2.16	2.10	2.03	1.93	1.82	1.71	1.61	1.52	1.43	1.34	1.25	1.20
0.00	0.02	0.04	0.08	0.13	0.20	0.28	0.35	0.43	0.50	0.55	0.59	0.69	0.86	1.00	1.14	1.29	1.38	1.43	1.45	1.45	1.43	1.41	1.37	1.33	1.29	1.23	1.17	1.13
0.00	0.01	0.02	0.04	0.06	0.09	0.13	0.17	0.22	0.27	0.32	0.36	0.41	0.44	0.45	0.52	0.63	0.72	0.81	0.91	0.97	1.01	1.03	1.04	1.04	1.03	1.01	0.99	0.98
0.00	0.00	0.01	0.02	0.04	0.05	0.07	0.09	0.11	0.15	0.18	0.21	0.25	0.28	0.31	0.34	0.35	0.37	0.42	0.49	0.55	0.62	0.68	0.72	0.75	0.77	0.78	0.78	0.76

FLOOR