

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions  
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P436770

Luminaire Tested: **TT-D2-740-U-5MQ-PM-HSS**

Issue Date: 12/2/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P436770  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2010-017-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 12/2/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: TT-D2-740-U-5MQ-PM-HSS  
Description: TOPTIER LED SITE LUMINAIRE  
4000K, 70 CRI LEDS AND MEDIUM DISTRIBUTION WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4692.9 lumens  
Efficiency: N/A  
Efficacy: 119.7 lumens/watt  
Luminous Opening: Circular (Dia: 1.12' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U2 - G2

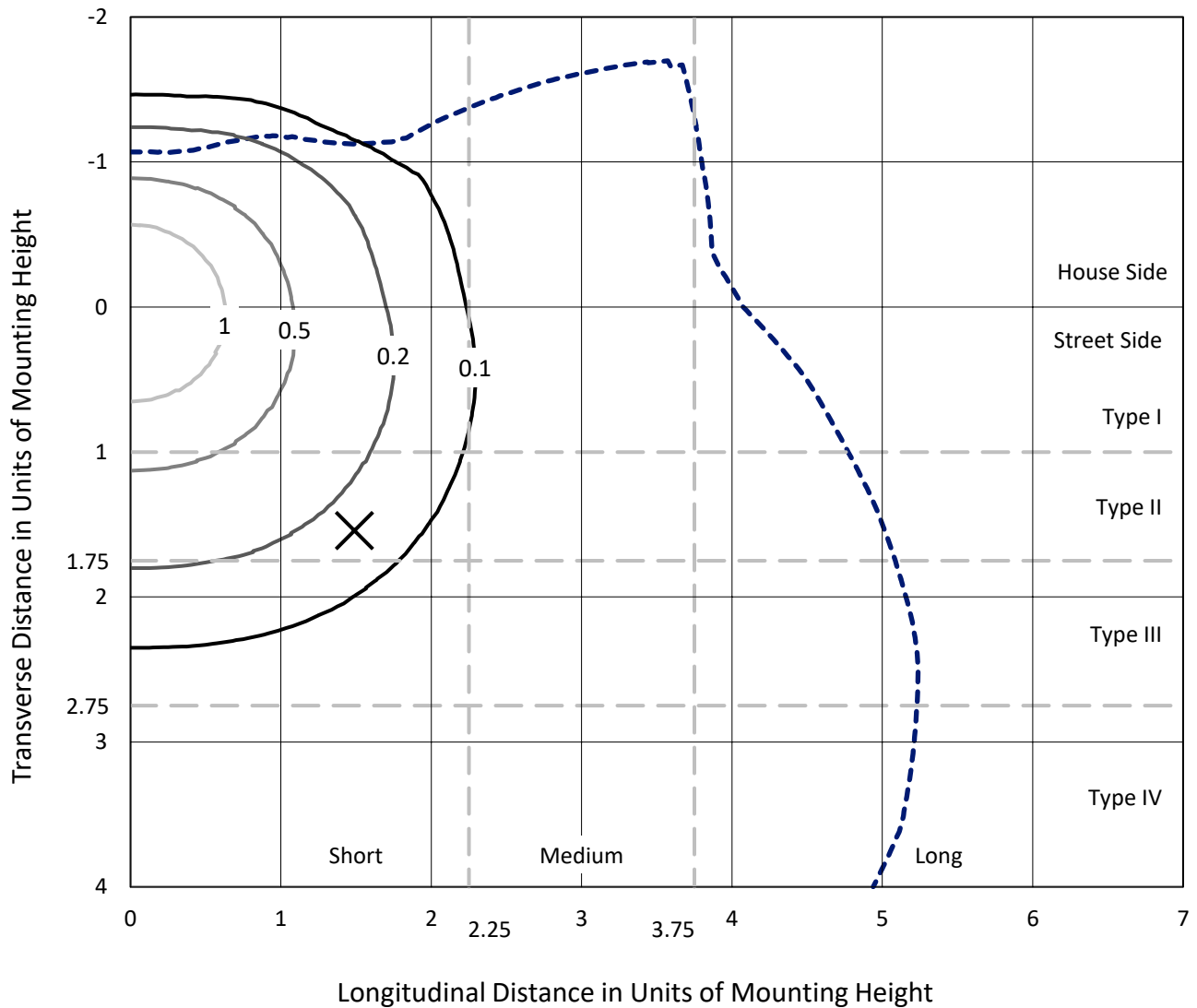
Input Watts (W): 39.2  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

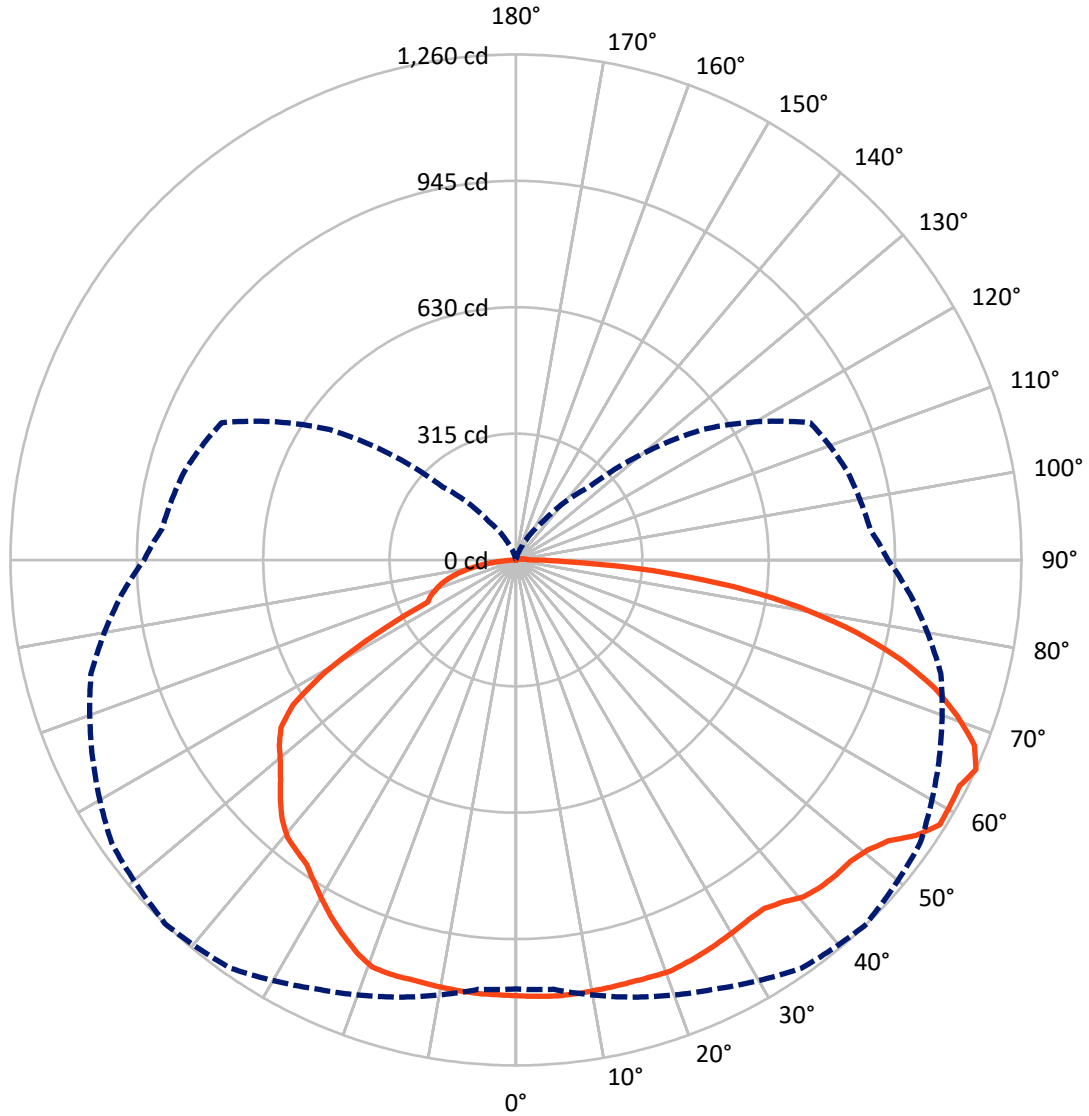
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.7 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 44-Deg Lateral    - - - Horizontal Cone Through 65-Deg Vertical

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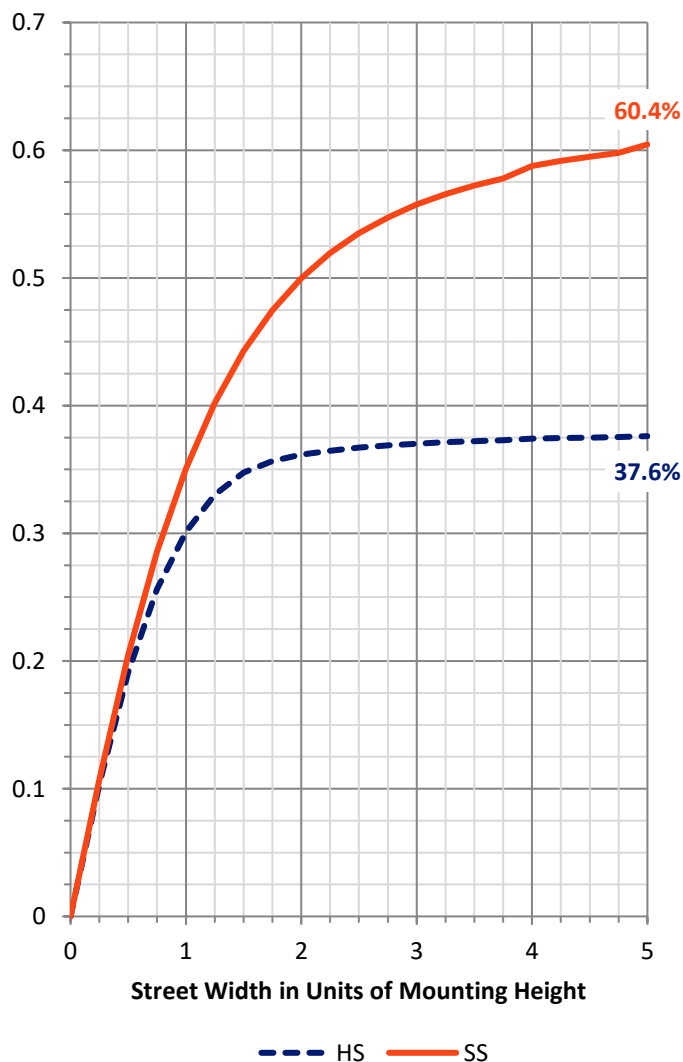
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1777.0	1.2	1778.2
	% Fixture	37.9	0.0	37.9
<b>Street Side</b>	Lumens	2898.9	15.9	2914.7
	% Fixture	61.8	0.3	62.1
<b>Total</b>	Lumens	4675.8	17.1	4692.9
	% Fixture	99.6	0.4	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	103.7	2.2
10°-20°	307.1	6.5
20°-30°	488.7	10.4
30°-40°	626.2	13.3
40°-50°	741.8	15.8
50°-60°	812.4	17.3
60°-70°	772.2	16.5
70°-80°	614.8	13.1
80°-90°	208.9	4.5
90°-100°	11.0	0.2
100°-110°	3.6	0.1
110°-120°	0.8	0.0
120°-130°	0.5	0.0
130°-140°	0.4	0.0
140°-150°	0.3	0.0
150°-160°	0.3	0.0
160°-170°	0.2	0.0
170°-180°	0.1	0.0
0°-90°	4675.8	99.6
0°-180°	4692.9	100.0

**Coefficient of Utilization**



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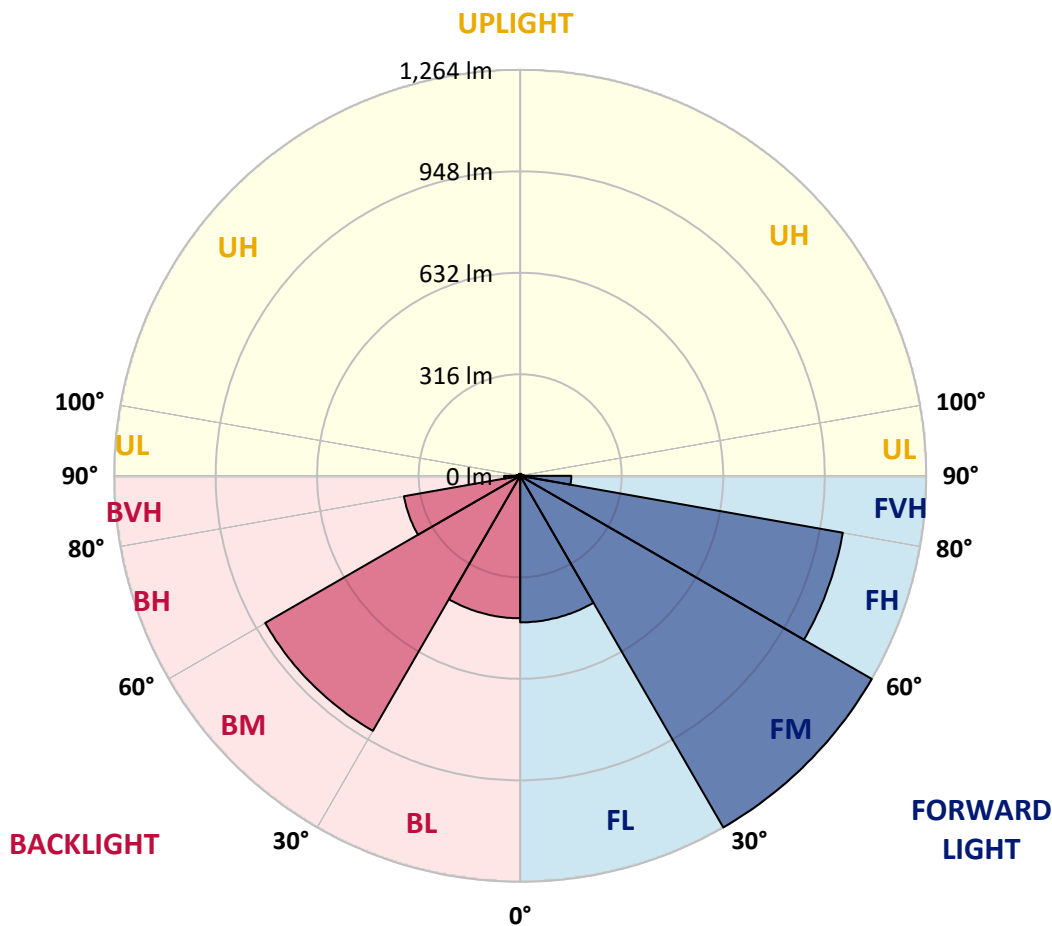
CATALOG NUMBER: TT-D2-740-U-5MQ-PM-HSS

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	456.1	9.7			
FM (30°-60°)	1263.8	26.9			
FH (60°-80°)	1019.8	21.7			G1/1800
FVH (80°-90°)	159.1	3.4			G2/225
BL (0°-30°)	443.4	9.4	B1/500		
BM (30°-60°)	916.6	19.5	B1/1000		
BH (60°-80°)	367.2	7.8	B1/500		G1/500
BVH (80°-90°)	49.8	1.1			G1/100
UL (90°-100°)	11.0	0.2		U2/50	
UH (100°-180°)	6.1	0.1		U1/10	

**BUG Rating: B1-U2-G2**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	1086.4	1086.4	1086.4	1086.4	1086.4	1086.4	1086.4	1086.4	1086.4	1086.4	1086.4
2.5°	1090.5	1089.7	1089.7	1089.7	1089.7	1088.9	1089.7	1088.1	1088.9	1086.4	1086.4
5°	1093.0	1091.4	1092.2	1092.2	1092.2	1091.4	1092.2	1089.7	1090.5	1087.2	1086.4
7.5°	1093.9	1093.0	1093.0	1093.0	1093.0	1091.4	1092.2	1090.5	1089.7	1087.2	1085.6
10°	1093.9	1093.0	1093.0	1093.0	1092.2	1090.5	1091.4	1088.9	1088.9	1085.6	1083.9
12.5°	1093.9	1093.0	1093.9	1092.2	1092.2	1090.5	1090.5	1088.1	1088.1	1083.9	1082.3
15°	1093.0	1092.2	1092.2	1093.0	1092.2	1090.5	1090.5	1088.1	1087.2	1082.3	1080.6
17.5°	1092.2	1091.4	1092.2	1093.0	1093.9	1092.2	1093.0	1088.9	1087.2	1082.3	1079.8
20°	1093.0	1092.2	1093.0	1094.7	1094.7	1094.7	1094.7	1090.5	1087.2	1082.3	1078.1
22.5°	1090.5	1090.5	1090.5	1090.5	1092.2	1089.7	1089.7	1087.2	1083.1	1078.9	1074.8
25°	1084.7	1084.7	1085.6	1086.4	1086.4	1084.7	1083.9	1081.4	1078.1	1073.1	1068.2
27.5°	1078.1	1078.1	1078.9	1078.9	1080.6	1078.9	1078.1	1074.8	1071.5	1065.7	1059.9
30°	1070.6	1070.6	1070.6	1072.3	1073.1	1073.1	1072.3	1068.2	1064.0	1057.4	1049.9
32.5°	1062.3	1062.3	1064.8	1066.5	1067.3	1067.3	1067.3	1062.3	1057.4	1049.1	1038.3
35°	1055.7	1055.7	1059.0	1064.8	1068.2	1066.5	1065.7	1062.3	1054.9	1045.8	1028.3
37.5°	1059.9	1059.9	1067.3	1075.6	1083.1	1081.4	1081.4	1075.6	1065.7	1050.7	1029.2
40°	1069.8	1070.6	1082.3	1093.0	1102.2	1103.8	1103.8	1097.2	1082.3	1063.2	1033.3
42.5°	1072.3	1074.0	1085.6	1101.3	1109.6	1113.8	1113.8	1104.6	1088.9	1066.5	1031.7
45°	1072.3	1073.1	1086.4	1103.0	1116.3	1119.6	1119.6	1109.6	1089.7	1068.2	1025.9
47.5°	1072.3	1071.5	1083.1	1106.3	1119.6	1122.1	1122.1	1111.3	1092.2	1064.8	1017.6
50°	1069.8	1074.0	1091.4	1109.6	1132.8	1136.2	1135.3	1123.7	1097.2	1069.0	1010.9
52.5°	1075.6	1074.8	1098.0	1134.5	1155.2	1162.7	1163.5	1148.6	1121.2	1080.6	1006.8
55°	1099.7	1100.5	1122.9	1165.2	1196.7	1210.8	1209.1	1190.1	1151.1	1103.8	1018.4
57.5°	1108.0	1116.3	1148.6	1185.1	1233.2	1245.6	1245.6	1222.4	1175.1	1122.1	1026.7
60°	1091.4	1094.7	1134.5	1196.7	1240.6	1243.1	1244.0	1227.4	1177.6	1112.1	1010.1
62.5°	1087.2	1093.9	1124.5	1194.2	1222.4	1240.6	1239.8	1217.4	1175.1	1104.6	1004.3
65°	1069.0	1074.0	1127.9	1179.3	1241.5	1259.7	1255.6	1229.9	1164.4	1096.3	986.1
67.5°	1031.7	1036.6	1086.4	1158.5	1214.9	1232.4	1236.5	1206.6	1138.6	1057.4	947.1
70°	969.5	976.9	1027.5	1098.0	1157.7	1167.7	1166.0	1147.8	1079.8	992.7	889.9
72.5°	882.4	894.0	957.9	1025.0	1076.4	1091.4	1084.7	1064.0	1008.4	914.7	811.9
75°	790.3	801.1	851.7	927.2	981.1	991.0	986.1	961.2	904.8	812.7	719.8
77.5°	690.0	699.1	742.2	819.4	859.2	867.5	869.9	836.8	783.7	700.8	617.8
80°	554.8	559.0	617.0	667.6	702.4	719.0	717.4	692.5	639.4	570.6	487.6
82.5°	409.7	413.0	457.8	500.9	532.4	547.3	539.1	514.2	471.9	413.0	350.0
85°	251.3	245.5	282.0	314.3	333.4	343.3	335.0	320.9	283.6	237.2	193.2
87.5°	90.4	85.4	102.0	107.0	128.5	125.2	132.7	107.0	86.2	61.4	43.1
90°	39.8	39.8	39.0	37.3	34.0	30.7	29.9	24.9	18.2	11.6	4.1
92.5°	36.5	36.5	35.7	34.0	30.7	27.4	27.4	22.4	16.6	10.8	4.1
95°	30.7	30.7	29.9	28.2	25.7	23.2	23.2	18.2	14.1	9.1	3.3
97.5°	24.1	24.1	23.2	22.4	19.9	18.2	18.2	14.9	10.8	6.6	2.5
100°	18.2	18.2	17.4	16.6	15.8	14.1	13.3	10.8	8.3	5.0	1.7
102.5°	13.3	13.3	13.3	12.4	10.8	10.0	10.0	8.3	5.8	4.1	1.7
105°	9.1	9.1	9.1	8.3	7.5	6.6	6.6	5.8	4.1	2.5	0.8
107.5°	5.8	5.8	5.8	5.8	5.0	4.1	4.1	3.3	2.5	1.7	0.8
110°	3.3	2.5	3.3	3.3	3.3	2.5	2.5	1.7	1.7	0.8	0.8



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
112.5°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	0.8	0.8	0.8	0.8
115°	0.8	0.8	0.8	1.7	1.7	0.8	0.8	0.8	0.8	0.8	0.8
117.5°	0.0	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
120°	0.0	0.0	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
122.5°	0.0	0.0	0.0	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
125°	0.0	0.0	0.0	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
127.5°	0.0	0.0	0.0	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
130°	0.0	0.0	0.0	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
132.5°	0.0	0.0	0.0	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
135°	0.0	0.0	0.0	0.0	0.8	0.8	0.8	0.8	0.8	0.8	0.8
137.5°	0.0	0.0	0.0	0.0	0.8	0.8	0.8	0.8	0.8	0.8	0.8
140°	0.0	0.8	0.8	0.0	0.0	0.8	0.8	0.8	0.8	0.8	0.8
142.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
145°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
147.5°	0.8	0.8	0.0	0.0	0.8	0.8	0.8	0.8	0.8	0.8	0.8
150°	0.8	0.8	0.8	0.0	0.0	0.8	0.8	0.8	0.8	0.8	0.8
152.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
155°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
157.5°	0.8	0.8	0.8	0.0	0.8	0.8	0.8	0.8	0.8	0.8	0.8
160°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
162.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
165°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
167.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
170°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
172.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
175°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
177.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
180°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8





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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1086.4	1086.4	1086.4	1086.4	1086.4	1086.4	1086.4	1086.4	1086.4	1086.4	1086.4
2.5°	1086.4	1085.6	1084.7	1085.6	1084.7	1084.7	1083.9	1083.9	1083.1	1083.1	1082.3
5°	1086.4	1085.6	1084.7	1085.6	1083.9	1084.7	1084.7	1083.9	1083.1	1082.3	1081.4
7.5°	1085.6	1085.6	1083.9	1084.7	1083.1	1083.1	1082.3	1082.3	1081.4	1081.4	1080.6
10°	1083.9	1083.1	1083.1	1083.1	1081.4	1081.4	1080.6	1079.8	1079.8	1078.9	1078.1
12.5°	1082.3	1081.4	1080.6	1080.6	1079.8	1078.9	1078.1	1078.1	1077.3	1076.4	1075.6
15°	1079.8	1078.9	1078.9	1078.9	1078.1	1078.1	1077.3	1076.4	1074.8	1074.0	1073.1
17.5°	1078.9	1078.1	1078.9	1078.9	1078.1	1078.9	1077.3	1075.6	1074.0	1073.1	1072.3
20°	1078.1	1078.1	1078.1	1077.3	1076.4	1075.6	1074.8	1074.0	1073.1	1072.3	1071.5
22.5°	1074.0	1073.1	1071.5	1066.5	1060.7	1056.5	1055.7	1057.4	1057.4	1057.4	1054.9
25°	1066.5	1064.0	1057.4	1048.2	1038.3	1031.7	1027.5	1027.5	1026.7	1025.0	1024.2
27.5°	1057.4	1052.4	1040.8	1029.2	1015.1	1006.8	996.8	991.0	988.5	987.7	986.1
30°	1044.9	1037.5	1022.5	1007.6	990.2	978.6	962.8	952.9	947.1	944.6	942.9
32.5°	1030.0	1022.5	1005.1	986.9	966.1	949.6	929.7	913.9	903.1	898.1	895.7
35°	1020.1	1009.3	989.4	967.8	947.1	923.0	899.0	877.4	860.8	855.0	851.7
37.5°	1015.9	1006.0	984.4	962.8	939.6	910.6	882.4	851.7	829.3	819.4	816.0
40°	1018.4	1006.0	981.9	958.7	931.3	899.0	861.7	823.5	794.5	780.4	777.1
42.5°	1012.6	998.5	970.3	945.4	911.4	874.9	829.3	785.4	746.4	734.8	729.8
45°	1002.6	985.2	954.5	923.0	887.4	842.6	795.3	738.9	692.5	678.4	674.2
47.5°	992.7	968.6	932.1	903.1	860.0	807.7	752.2	689.2	631.1	617.0	614.5
50°	977.8	955.4	916.4	882.4	838.4	777.9	714.9	636.1	570.6	546.5	539.9
52.5°	971.1	942.1	904.8	878.2	825.2	756.3	676.7	592.1	497.6	467.7	461.1
55°	977.8	941.3	901.5	875.8	814.4	729.0	631.1	523.3	413.8	382.3	373.2
57.5°	966.1	934.6	894.8	865.8	786.2	672.6	564.8	426.3	312.7	272.0	268.7
60°	951.2	906.4	869.1	842.6	727.3	566.4	439.5	303.5	188.3	153.4	146.8
62.5°	945.4	899.0	855.8	823.5	648.5	416.3	267.9	153.4	78.0	54.7	49.8
65°	927.2	885.7	855.0	809.4	566.4	257.1	115.3	45.6	3.3	2.5	2.5
67.5°	892.3	850.0	829.3	802.8	558.1	245.5	104.5	41.5	1.7	0.0	0.0
70°	832.6	799.5	785.4	771.3	534.1	227.2	95.4	37.3	0.8	0.0	0.0
72.5°	753.8	731.5	729.0	727.3	499.2	209.8	85.4	33.2	0.8	0.0	0.0
75°	675.1	647.7	651.8	661.8	456.1	185.8	73.8	29.0	0.8	0.0	0.0
77.5°	575.5	555.6	565.6	582.2	399.7	157.6	60.5	23.2	0.8	0.0	0.0
80°	452.8	439.5	461.9	476.9	326.7	125.2	45.6	16.6	0.0	0.0	0.0
82.5°	321.8	314.3	335.0	354.1	243.0	88.7	31.5	10.8	0.0	0.0	0.0
85°	173.3	169.2	189.1	209.8	146.0	50.6	15.8	5.0	0.0	0.0	0.0
87.5°	43.1	39.8	40.6	48.9	35.7	10.8	2.5	0.8	0.0	0.0	0.0
90°	0.8	0.8	0.8	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.8	0.8	0.8	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	0.8	0.8	0.8	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	0.8	0.8	0.8	0.8	0.8	0.0	0.0	0.0	0.0	0.0	0.0
100°	0.8	0.8	0.8	0.8	0.8	0.8	0.0	0.0	0.0	0.0	0.0
102.5°	0.8	0.8	0.8	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.8	0.8	0.8	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.0	0.0	0.0	0.0	0.0
110°	0.8	0.8	0.8	0.8	0.8	0.8	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P436770  
 CATALOG NUMBER: TT-D2-740-U-5MQ-PM-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.0	0.0	0.0	0.0	0.0
115°	0.8	0.8	0.8	0.8	0.8	0.8	0.0	0.0	0.0	0.0	0.0
117.5°	0.8	0.8	0.8	0.8	0.8	0.0	0.0	0.0	0.0	0.0	0.0
120°	0.8	0.8	0.8	0.8	0.8	0.8	0.0	0.0	0.0	0.0	0.0
122.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.0	0.0	0.0	0.0	0.0
125°	0.8	0.8	0.8	0.8	0.8	0.8	0.0	0.0	0.0	0.0	0.0
127.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.0	0.0	0.0	0.0	0.0
130°	0.8	0.8	0.8	0.8	0.8	0.0	0.0	0.0	0.0	0.0	0.0
132.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.0	0.0	0.0	0.0	0.0
135°	0.8	0.8	0.8	0.8	0.8	0.0	0.0	0.0	0.0	0.0	0.0
137.5°	0.8	0.8	0.8	0.8	0.8	0.0	0.0	0.0	0.0	0.0	0.0
140°	0.8	0.8	0.8	0.8	0.8	0.0	0.0	0.0	0.0	0.0	0.0
142.5°	0.8	0.8	0.8	0.8	0.8	0.0	0.0	0.0	0.0	0.0	0.0
145°	0.8	0.8	0.8	0.8	0.8	0.8	0.0	0.0	0.0	0.0	0.0
147.5°	0.8	0.8	0.8	0.8	0.8	0.0	0.0	0.0	0.0	0.0	0.0
150°	0.8	0.8	0.8	0.8	0.8	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	0.8	0.8	0.8	0.8	0.8	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.8	0.8	0.8	0.8	0.8	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.8	0.8	0.8	0.8	0.8	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.8	0.8	0.8	0.8	0.8	0.8	0.0	0.0	0.0	0.0	0.0
162.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.0	0.0	0.0	0.0	0.0
165°	0.8	0.8	0.8	0.8	0.8	0.8	0.0	0.0	0.0	0.0	0.0
167.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.0	0.0	0.0	0.0	0.0
170°	0.8	0.8	0.8	0.8	0.8	0.8	0.0	0.0	0.0	0.0	0.0
172.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.0	0.0	0.0	0.0	0.0
175°	0.8	0.8	0.8	0.8	0.8	0.8	0.0	0.0	0.0	0.0	0.0
177.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.0	0.0	0.0	0.0	0.0
180°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8

(END OF REPORT)