

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: P436763

Luminaire Tested: **TT-D2-735-U-5CQ-PM-HSS**

Issue Date: 12/2/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P436763  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2010-017-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 12/2/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: TT-D2-735-U-5CQ-PM-HSS  
Description: TOPTIER LED SITE LUMINAIRE  
3500K, 70 CRI LEDS AND CONCENTRATED DISTRIBUTION WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

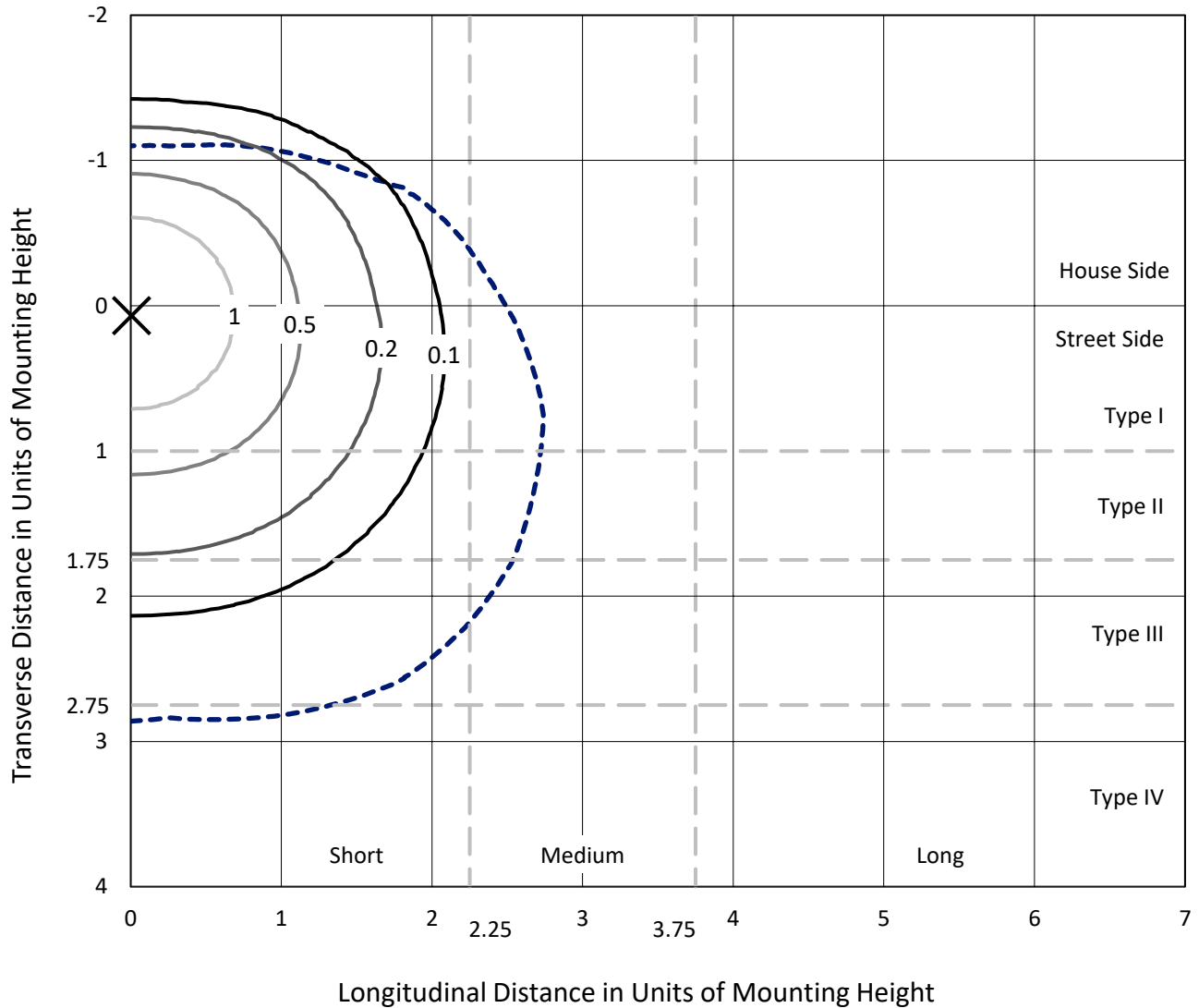
Lumens per Lamp: N/A  
Luminaire Lumens: 4168.1 lumens  
Efficiency: N/A  
Efficacy: 106.3 lumens/watt  
Luminous Opening: Circular (Dia: 1.12' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U1 - G1  
  
Input Watts (W): 39.2  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage 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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 CATALOG NUMBER: TT-D2-735-U-5CQ-PM-HSS

### Iso-Footcandle Lines of Horizontal Illumination

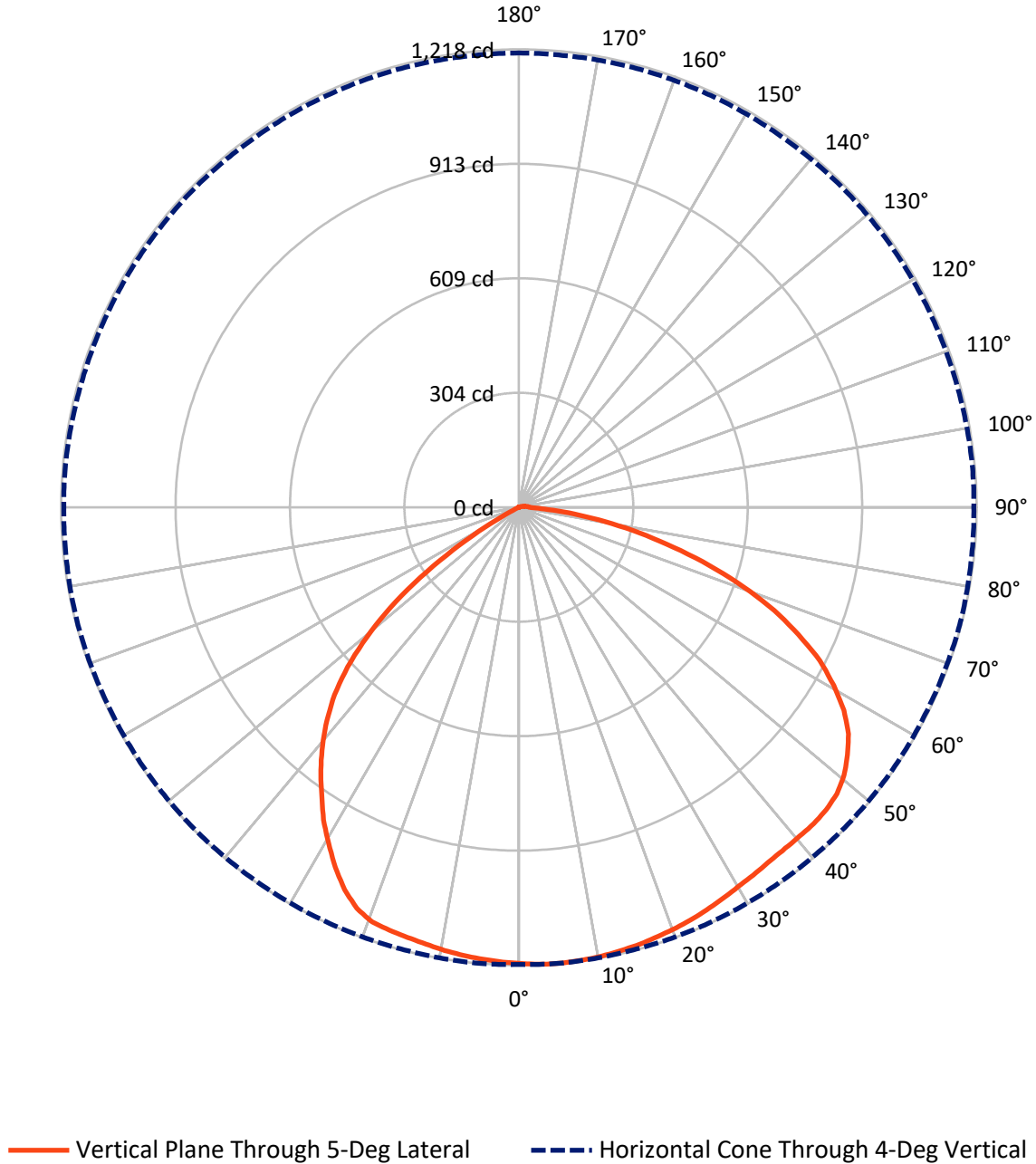
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.9 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



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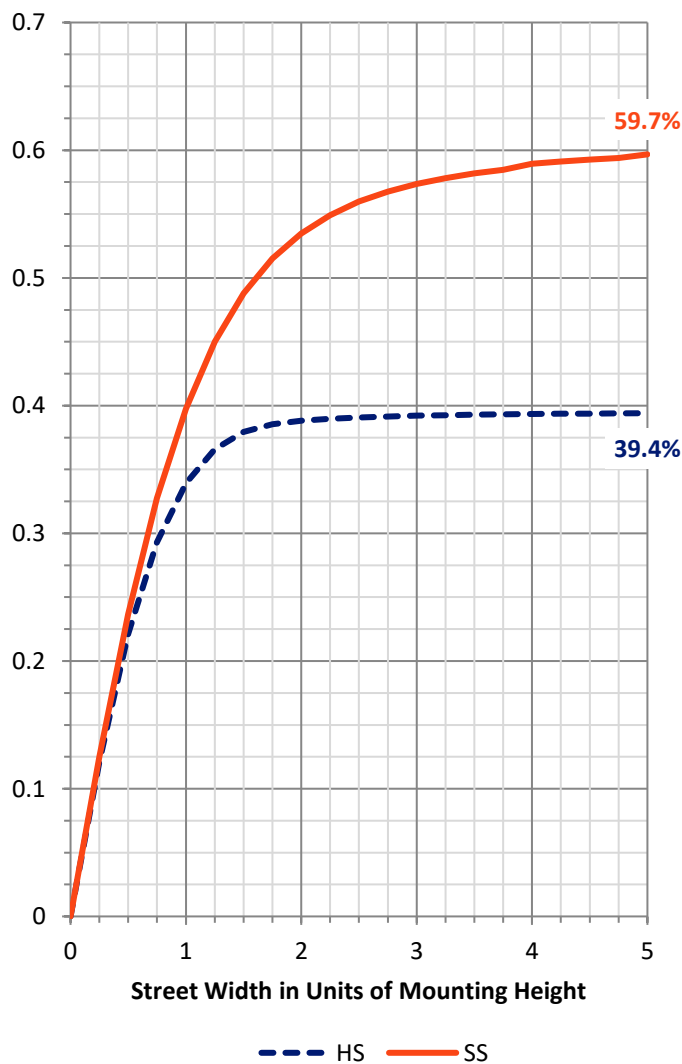
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1651.7	2.2	1653.9
	% Fixture	39.6	0.1	39.7
<b>Street Side</b>	Lumens	2502.5	11.7	2514.2
	% Fixture	60.0	0.3	60.3
<b>Total</b>	Lumens	4154.3	13.8	4168.1
	% Fixture	99.7	0.3	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	115.4	2.8
10°-20°	337.9	8.1
20°-30°	532.3	12.8
30°-40°	677.5	16.3
40°-50°	782.5	18.8
50°-60°	766.2	18.4
60°-70°	570.7	13.7
70°-80°	309.1	7.4
80°-90°	62.7	1.5
90°-100°	7.9	0.2
100°-110°	3.1	0.1
110°-120°	0.9	0.0
120°-130°	0.6	0.0
130°-140°	0.5	0.0
140°-150°	0.3	0.0
150°-160°	0.2	0.0
160°-170°	0.1	0.0
170°-180°	0.0	0.0
0°-90°	4154.3	99.7
0°-180°	4168.1	100.0

**Coefficient of Utilization**



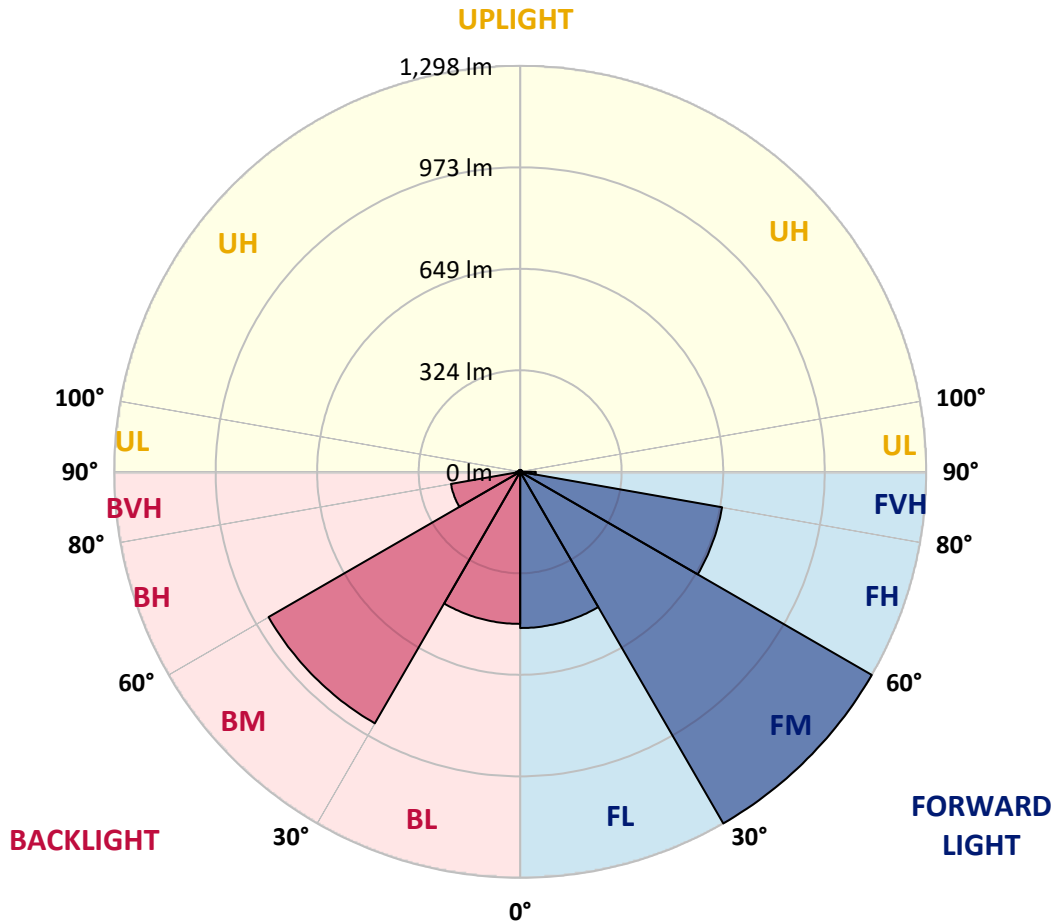
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 CATALOG NUMBER: TT-D2-735-U-5CQ-PM-HSS

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	499.4	12.0			
FM (30°-60°)	1297.7	31.1			
FH (60°-80°)	655.3	15.7			G0/660
FVH (80°-90°)	50.0	1.2			G1/100
BL (0°-30°)	486.1	11.7	B1/500		
BM (30°-60°)	928.5	22.3	B1/1000		
BH (60°-80°)	224.5	5.4	B1/500		G1/500
BVH (80°-90°)	12.6	0.3			G1/100
UL (90°-100°)	7.9	0.2		U1/10	
UH (100°-180°)	5.9	0.1		U1/10	

**BUG Rating: B1-U1-G1**

Type IV Short





REPORT NUMBER: P436763

CATALOG NUMBER: TT-D2-735-U-5CQ-PM-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1214.0	1214.0	1214.0	1214.0	1214.0	1214.0	1214.0	1214.0	1214.0	1214.0	1214.0
2.5°	1215.5	1217.1	1216.3	1216.3	1214.7	1215.5	1214.7	1214.7	1214.0	1213.2	1213.2
4°	1216.3	1217.9	1216.3	1216.3	1215.5	1215.5	1214.7	1213.2	1214.0	1211.6	1210.8
5°	1217.1	1217.9	1217.1	1217.1	1215.5	1214.7	1213.2	1213.2	1212.4	1210.8	1210.8
7.5°	1215.5	1216.3	1216.3	1215.5	1214.0	1212.4	1211.6	1210.8	1210.0	1207.7	1207.7
10°	1212.4	1214.0	1212.4	1212.4	1211.6	1210.0	1207.7	1206.9	1204.6	1203.0	1202.2
12.5°	1209.3	1210.0	1209.3	1209.3	1207.7	1205.3	1204.6	1203.0	1199.9	1197.5	1197.5
15°	1204.6	1206.1	1205.3	1204.6	1203.8	1201.4	1199.1	1196.7	1194.4	1192.0	1192.0
17.5°	1199.1	1199.9	1200.6	1199.9	1198.3	1196.7	1194.4	1191.2	1188.9	1186.5	1185.7
20°	1192.8	1194.4	1194.4	1194.4	1192.8	1191.2	1188.1	1185.0	1183.4	1180.3	1179.5
22.5°	1186.5	1188.1	1187.3	1188.1	1187.3	1185.0	1181.8	1178.7	1175.6	1173.2	1171.6
25°	1180.3	1180.3	1180.3	1180.3	1180.3	1177.1	1174.0	1170.1	1166.9	1163.0	1163.0
27.5°	1172.4	1172.4	1173.2	1173.2	1172.4	1170.1	1166.2	1161.5	1156.7	1152.8	1151.3
30°	1165.4	1164.6	1166.2	1167.7	1166.9	1164.6	1159.9	1154.4	1147.3	1141.9	1137.2
32.5°	1156.7	1159.1	1160.7	1163.8	1164.6	1161.5	1156.0	1148.9	1141.9	1131.7	1123.0
35°	1153.6	1153.6	1157.5	1162.2	1163.8	1162.2	1154.4	1146.6	1136.4	1121.5	1111.3
37.5°	1150.5	1151.3	1157.5	1164.6	1166.9	1166.9	1158.3	1148.1	1134.0	1112.9	1100.3
40°	1148.9	1150.5	1158.3	1168.5	1174.8	1174.0	1163.8	1151.3	1134.0	1106.6	1090.9
42.5°	1147.3	1150.5	1159.1	1173.2	1182.6	1181.8	1170.9	1154.4	1132.5	1098.8	1080.7
45°	1145.0	1147.3	1159.1	1177.1	1189.7	1192.0	1179.5	1158.3	1132.5	1091.7	1068.2
47.5°	1137.9	1138.7	1154.4	1175.6	1194.4	1197.5	1185.0	1159.9	1129.3	1079.9	1052.5
50°	1119.1	1121.5	1139.5	1167.7	1189.7	1194.4	1183.4	1156.0	1121.5	1060.4	1027.4
52.5°	1094.8	1094.8	1116.8	1148.1	1174.8	1182.6	1172.4	1141.9	1101.9	1031.4	993.7
55°	1058.8	1064.3	1087.0	1119.9	1148.9	1159.9	1145.8	1116.0	1069.8	994.5	953.0
57.5°	1018.0	1019.6	1043.1	1082.3	1112.1	1119.1	1107.4	1072.1	1027.4	950.6	901.3
60°	959.3	962.4	992.2	1026.7	1058.8	1068.2	1053.3	1018.0	971.0	894.2	844.1
62.5°	894.2	898.9	925.6	960.8	991.4	1006.3	988.3	951.4	905.2	826.8	782.9
65°	815.8	817.4	846.4	886.4	916.9	922.4	906.7	870.7	824.5	749.2	710.0
67.5°	725.7	733.5	761.8	791.5	818.2	824.5	813.5	771.9	735.1	668.5	630.1
70°	638.7	634.8	658.3	688.1	712.4	717.9	705.3	666.9	632.5	569.8	540.0
72.5°	533.7	530.6	555.6	578.4	601.9	598.8	586.2	555.6	525.9	472.6	445.1
75°	427.9	424.8	444.4	464.0	475.7	477.3	468.7	445.9	413.8	372.3	351.1
77.5°	324.5	327.6	336.2	352.7	363.6	368.3	353.5	330.7	310.3	278.2	262.5
80°	231.2	232.0	235.1	246.9	254.7	254.7	247.7	229.6	206.9	184.2	176.3
82.5°	145.8	148.9	148.9	160.7	160.7	154.4	151.3	139.5	127.7	109.7	98.7
85°	79.9	78.4	83.1	83.9	83.1	78.4	73.7	66.6	58.8	46.2	41.5
87.5°	35.3	34.5	34.5	34.5	33.7	30.6	25.9	20.4	14.1	8.6	6.3
90°	27.4	27.4	26.6	25.1	22.7	20.4	16.5	12.5	7.8	3.1	1.6
92.5°	25.1	25.1	24.3	23.5	21.2	18.8	14.9	11.0	7.1	3.1	1.6
95°	21.9	21.2	21.2	19.6	18.0	15.7	13.3	9.4	6.3	2.4	1.6
97.5°	18.0	17.2	17.2	16.5	14.9	12.5	11.0	7.8	5.5	2.4	1.6
100°	13.3	14.1	13.3	12.5	11.8	10.2	8.6	6.3	3.9	1.6	1.6
102.5°	10.2	10.2	9.4	9.4	8.6	7.8	6.3	4.7	3.1	1.6	0.8
105°	7.1	7.1	7.1	6.3	6.3	5.5	4.7	3.1	2.4	1.6	0.8
107.5°	3.9	3.9	3.9	3.9	3.9	3.9	3.1	2.4	1.6	0.8	0.8



REPORT NUMBER: P436763  
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**CANDELA DISTRIBUTION (continued):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
110°	2.4	2.4	2.4	2.4	2.4	2.4	1.6	1.6	0.8	0.8	0.8
112.5°	0.8	0.8	1.6	1.6	1.6	1.6	1.6	0.8	0.8	0.8	0.8
115°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
117.5°	0.0	0.0	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	0.0	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	0.0	0.0	0.0	0.8	0.8	0.8	0.8	0.8	0.8	0.8
142.5°	0.0	0.0	0.0	0.0	0.0	0.8	0.8	0.8	0.8	0.8	0.8
145°	0.8	0.8	0.0	0.0	0.0	0.8	0.8	0.8	0.8	0.8	0.8
147.5°	0.8	0.8	0.0	0.0	0.0	0.8	0.8	0.8	0.8	0.8	0.8
150°	0.8	0.0	0.0	0.0	0.0	0.8	0.8	0.8	0.8	0.8	0.8
152.5°	0.0	0.0	0.0	0.0	0.0	0.8	0.8	0.8	0.8	0.8	0.8
155°	0.0	0.0	0.0	0.0	0.0	0.8	0.8	0.8	0.8	0.8	0.8
157.5°	0.0	0.0	0.0	0.0	0.0	0.8	0.8	0.8	0.8	0.8	0.8
160°	0.0	0.0	0.0	0.0	0.0	0.8	0.8	0.8	0.8	0.8	0.8
162.5°	0.0	0.0	0.0	0.0	0.0	0.8	0.8	0.8	0.8	0.8	0.8
165°	0.0	0.0	0.0	0.0	0.0	0.8	0.8	0.8	0.8	0.8	0.8
167.5°	0.0	0.0	0.0	0.0	0.0	0.8	0.8	0.8	0.8	0.8	0.8
170°	0.0	0.0	0.0	0.0	0.0	0.8	0.8	0.8	0.8	0.8	0.8
172.5°	0.0	0.0	0.0	0.0	0.8	0.8	0.8	0.8	0.8	0.8	0.8
175°	0.0	0.0	0.0	0.0	0.8	0.8	0.8	0.8	0.8	0.8	0.8
177.5°	0.0	0.0	0.0	0.0	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





REPORT NUMBER: P436763

CATALOG NUMBER: TT-D2-735-U-5CQ-PM-HSS

**CANDELA DISTRIBUTION (continued):**

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1214.0	1214.0	1214.0	1214.0	1214.0	1214.0	1214.0	1214.0	1214.0	1214.0
2.5°	1212.4	1210.0	1211.6	1210.8	1211.6	1210.0	1210.0	1210.0	1210.8	1209.3
4°	1211.6	1210.0	1210.0	1210.0	1210.0	1208.5	1208.5	1208.5	1207.7	1208.5
5°	1210.0	1209.3	1208.5	1207.7	1208.5	1206.9	1206.1	1206.1	1206.1	1206.9
7.5°	1206.9	1204.6	1204.6	1202.2	1203.0	1202.2	1201.4	1202.2	1201.4	1201.4
10°	1201.4	1199.9	1199.1	1197.5	1197.5	1195.9	1195.2	1195.2	1195.2	1194.4
12.5°	1195.9	1194.4	1193.6	1192.0	1191.2	1189.7	1188.9	1189.7	1188.1	1188.1
15°	1189.7	1188.1	1187.3	1187.3	1185.7	1184.2	1183.4	1181.8	1181.8	1181.8
17.5°	1184.2	1182.6	1183.4	1181.8	1181.0	1179.5	1179.5	1176.3	1176.3	1175.6
20°	1178.7	1177.1	1177.1	1176.3	1176.3	1174.8	1172.4	1170.9	1170.1	1170.1
22.5°	1171.6	1169.3	1165.4	1159.9	1156.7	1154.4	1153.6	1151.3	1150.5	1148.9
25°	1160.7	1154.4	1145.8	1136.4	1127.0	1122.3	1120.7	1117.6	1117.6	1117.6
27.5°	1147.3	1135.6	1123.8	1109.7	1095.6	1086.2	1079.9	1076.8	1075.2	1075.2
30°	1130.1	1115.2	1098.8	1080.7	1065.1	1047.8	1036.8	1030.6	1027.4	1028.2
32.5°	1114.4	1095.6	1076.8	1054.1	1032.9	1012.5	993.7	984.3	980.4	978.8
35°	1098.8	1077.6	1054.9	1030.6	1003.1	973.4	948.3	934.2	926.3	927.1
37.5°	1087.0	1061.9	1036.8	1007.1	975.7	939.7	907.5	884.8	875.4	877.0
40°	1074.5	1046.2	1018.8	984.3	947.5	904.4	862.9	832.3	821.3	819.0
42.5°	1062.7	1029.8	998.4	961.6	915.4	866.8	815.8	779.8	763.3	761.0
45°	1047.8	1011.0	977.3	935.0	884.0	823.7	764.1	717.1	699.8	692.8
47.5°	1028.2	987.5	949.9	901.3	845.6	777.4	703.0	645.0	623.0	617.6
50°	999.2	952.2	913.8	858.9	791.5	716.3	633.2	561.9	532.9	529.0
52.5°	960.8	913.0	869.9	807.2	724.9	636.4	542.3	468.7	435.0	432.6
55°	914.6	862.9	815.8	745.3	648.9	546.2	448.3	355.0	322.1	318.2
57.5°	860.5	807.2	756.3	669.3	558.0	443.6	329.9	240.6	209.2	201.4
60°	800.9	746.1	688.9	583.1	435.7	314.3	199.8	127.7	104.2	96.4
62.5°	743.0	683.4	623.0	480.4	298.6	179.5	90.9	36.8	23.5	22.7
65°	674.8	618.3	556.4	387.2	188.9	80.7	26.6	0.8	0.0	0.0
67.5°	595.6	547.8	493.0	346.4	166.9	70.5	22.7	0.8	0.0	0.0
70°	511.0	473.4	424.8	297.8	143.4	59.6	19.6	0.0	0.0	0.0
72.5°	421.6	389.5	353.5	247.7	119.1	49.4	15.7	0.0	0.0	0.0
75°	330.7	310.3	278.2	195.9	92.5	37.6	11.8	0.0	0.0	0.0
77.5°	245.3	228.8	205.3	144.2	69.7	27.4	8.6	0.0	0.0	0.0
80°	165.4	152.8	139.5	98.0	47.0	18.0	5.5	0.0	0.0	0.0
82.5°	96.4	87.0	78.4	55.6	25.9	10.2	2.4	0.0	0.0	0.0
85°	39.2	36.1	34.5	23.5	10.2	3.1	0.8	0.0	0.0	0.0
87.5°	4.7	3.9	3.9	2.4	0.8	0.0	0.0	0.0	0.0	0.0
90°	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	0.8	0.0	0.0	0.0	0.0	0.0
95°	0.8	0.8	0.8	0.8	0.8	0.8	0.0	0.0	0.0	0.0
97.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.0
100°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
102.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
105°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
107.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8



REPORT NUMBER: P436763  
 CATALOG NUMBER: TT-D2-735-U-5CQ-PM-HSS

**CANDELA DISTRIBUTION (continued):**

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
112.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
115°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
117.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
120°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
122.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
125°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
127.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
130°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
132.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
135°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
137.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.0	0.0
140°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.0	0.0
142.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	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
147.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.0	0.0	0.0	0.8
150°	0.8	0.8	0.8	0.8	0.8	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
155°	0.8	0.8	0.8	0.8	0.8	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
160°	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	0.0	0.0	0.0	0.0	0.0
165°	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	0.0	0.0	0.0	0.0	0.0
170°	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	0.0	0.0	0.0	0.0	0.0
175°	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	0.0	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

(END OF REPORT)