

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: P197880

Luminaire Tested: **TT-C3-LED-E1-WQ-SG-LWR-LW-7060**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P197880
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33418)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: TT-C3-LED-E1-WQ-SG-LWR-LW-7060
Description: TOPTIER LED PARKING GARAGE LUMINAIRE
WIDE DISTRIBUTION WITH SOFTENING GLASS LENS AND LumaWatt WIRELESS SENSOR
Light Source: (168) 5700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4690.2 lumens
Efficiency: N/A
Efficacy: 104.2 lumens/watt
Luminous Opening: Circular (Dia: 1.12' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B2 - U0 - G1

Input Watts (W): 45
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: 25 FT

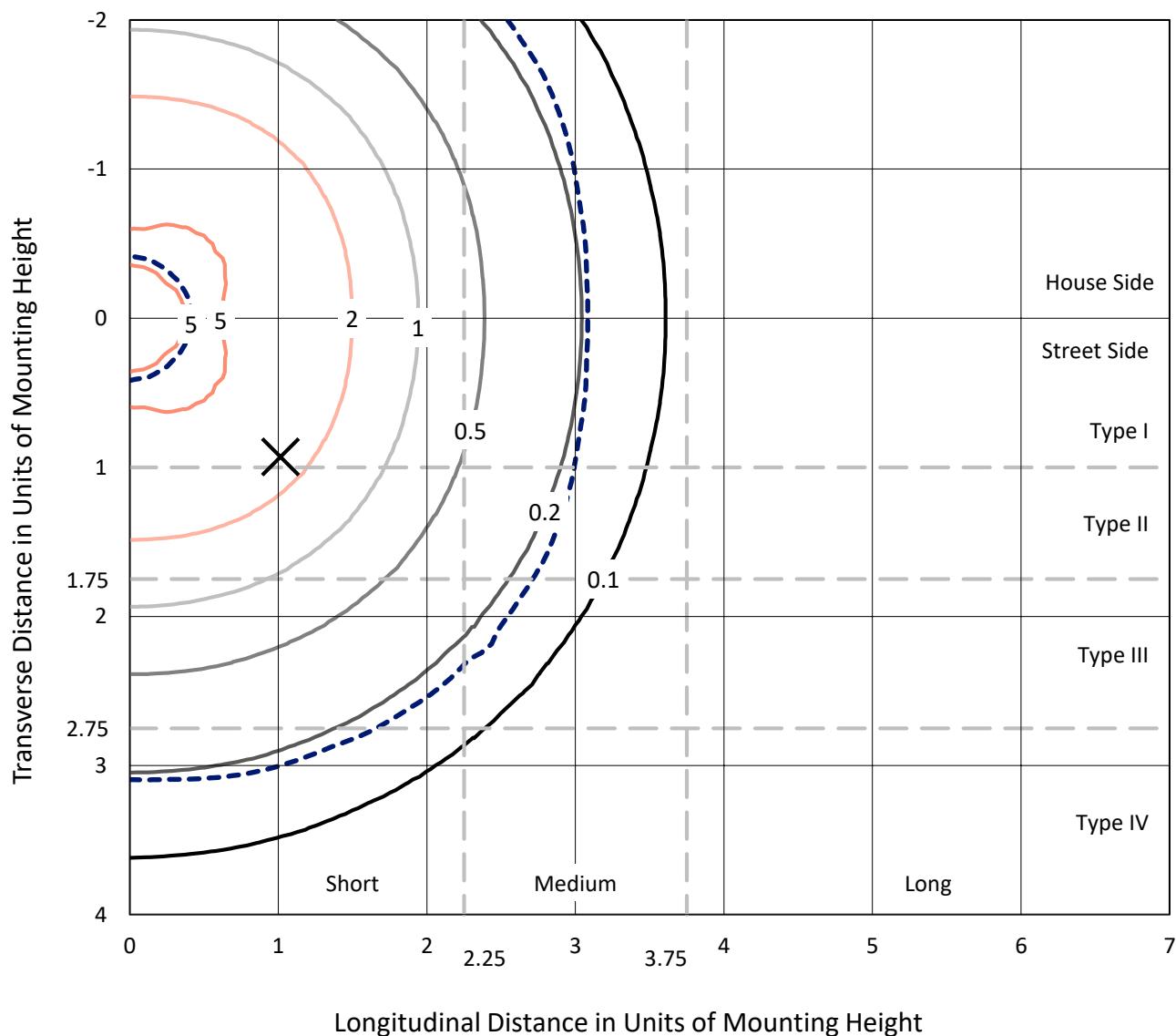


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

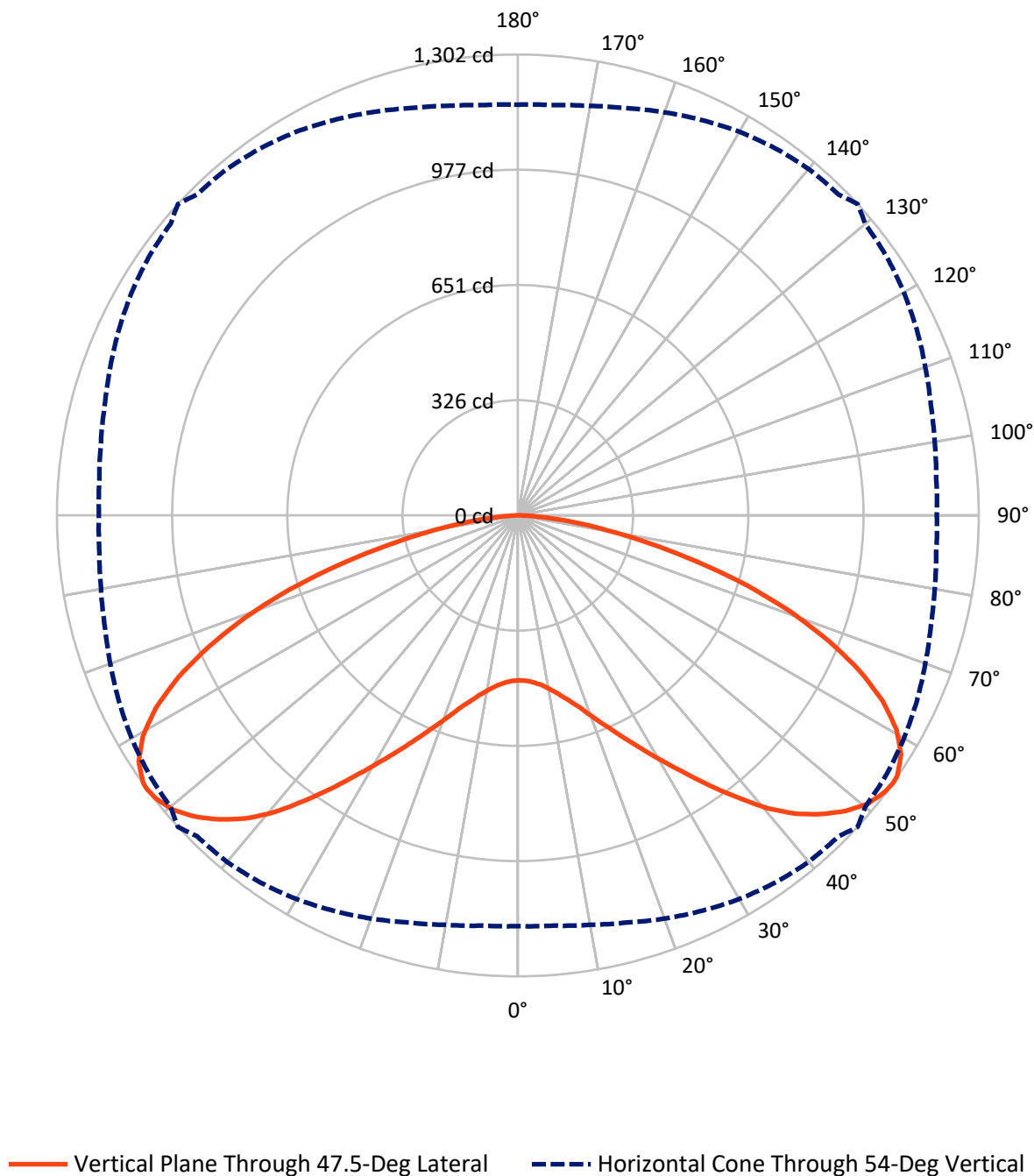


Based on 10 foot mounting height. Maximum calculated value = 5.2 fc
Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



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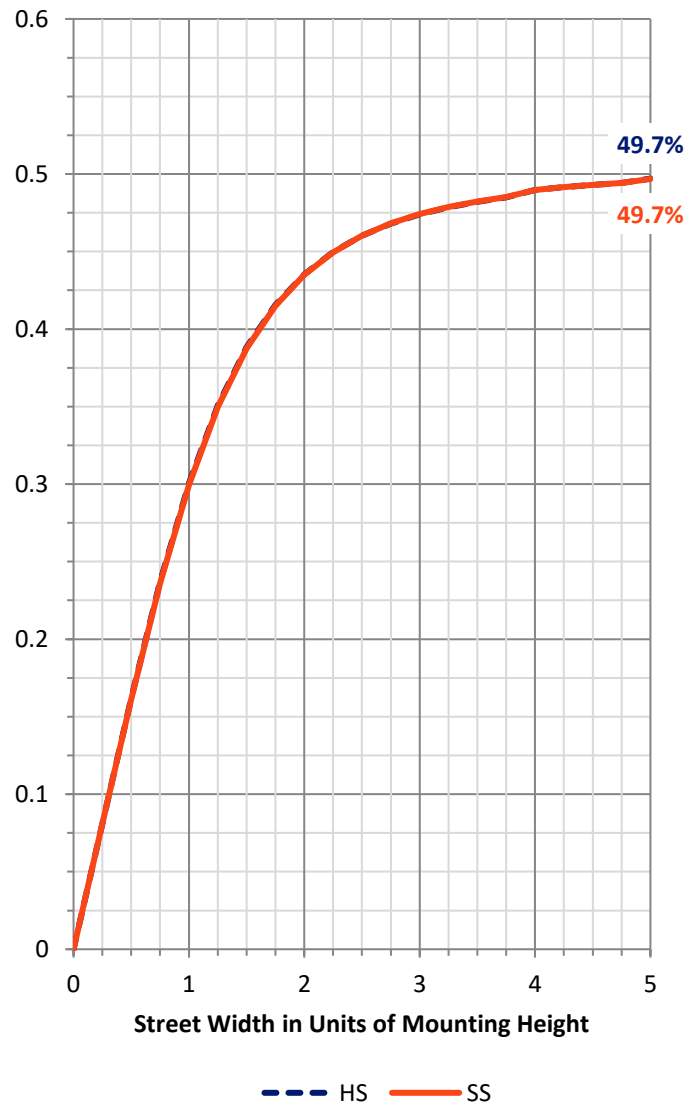
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2345.1	0.0	2345.1
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2345.1	0.0	2345.1
	% Fixture	50.0	0.0	50.0
Total	Lumens	4690.2	0.0	4690.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	46.0	1.0
10°-20°	155.9	3.3
20°-30°	320.9	6.8
30°-40°	573.9	12.2
40°-50°	880.5	18.8
50°-60°	1085.6	23.1
60°-70°	982.1	20.9
70°-80°	540.8	11.5
80°-90°	104.6	2.2
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	4690.2	100.0
0°-180°	4690.2	100.0

Coefficient of Utilization



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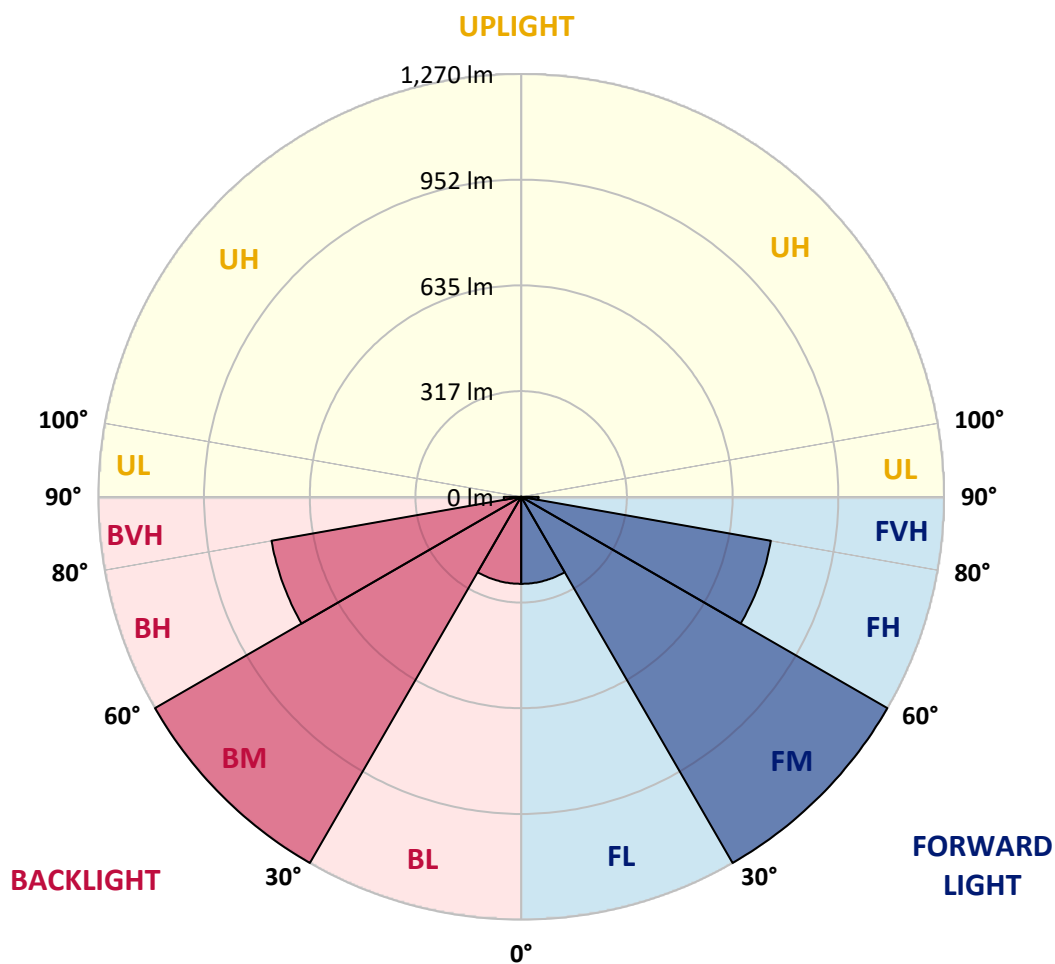
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	261.4	5.6			
FM	(30°-60°)	1270.0	27.1			
FH	(60°-80°)	761.4	16.2			G1/1800
FVH	(80°-90°)	52.3	1.1			G1/100
BL	(0°-30°)	261.4	5.6	B1/500		
BM	(30°-60°)	1270.0	27.1	B2/2500		
BH	(60°-80°)	761.4	16.2	B2/1000		G1/1800
BVH	(80°-90°)	52.3	1.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	47.5°
0°	465.7	465.7	465.7	465.7	465.7	465.7	465.7	465.7	465.7	465.7	465.7
2.5°	467.7	467.7	467.7	467.7	467.7	467.7	467.7	467.7	467.7	467.7	467.7
5°	473.8	473.8	473.8	474.8	473.8	473.8	473.8	473.8	473.8	473.8	473.8
7.5°	483.9	483.9	483.9	483.9	483.9	483.9	482.9	482.9	483.9	482.9	483.9
10°	498.1	497.1	497.1	498.1	498.1	497.1	498.1	498.1	498.1	498.1	499.1
12.5°	516.3	516.3	517.3	517.3	517.3	518.4	518.4	517.3	518.4	518.4	518.4
15°	540.6	540.6	540.6	540.6	541.6	542.7	541.6	541.6	540.6	540.6	542.7
17.5°	569.0	569.0	569.0	569.0	571.0	571.0	570.0	571.0	572.0	572.0	571.0
20°	603.4	602.4	601.4	602.4	604.4	604.4	605.4	606.4	606.4	606.4	608.5
22.5°	639.8	638.8	640.9	641.9	642.9	643.9	643.9	644.9	646.9	645.9	649.0
25°	680.3	679.3	680.3	682.4	686.4	686.4	687.4	689.5	689.5	688.4	695.5
27.5°	725.9	725.9	726.9	731.0	732.0	733.0	736.0	738.0	741.1	741.1	747.2
30°	775.5	774.5	776.5	780.6	783.6	786.6	790.7	795.8	796.8	797.8	803.9
32.5°	826.1	826.1	828.2	835.2	840.3	845.4	851.4	856.5	858.5	858.5	867.6
35°	879.8	880.8	885.9	890.9	901.0	907.1	913.2	920.3	924.3	926.4	938.5
37.5°	936.5	939.5	943.6	950.7	960.8	970.9	980.0	991.2	997.2	999.3	1012.4
40°	990.1	994.2	1000.3	1010.4	1020.5	1034.7	1045.8	1057.0	1064.0	1068.1	1088.3
42.5°	1042.8	1044.8	1051.9	1063.0	1076.2	1089.4	1104.5	1116.7	1123.8	1129.9	1152.1
45°	1084.3	1086.3	1095.4	1108.6	1123.8	1140.0	1155.2	1169.3	1176.4	1181.5	1203.8
47.5°	1118.7	1122.8	1132.9	1146.1	1161.2	1180.5	1197.7	1211.9	1221.0	1224.0	1247.3
50°	1144.0	1150.1	1159.2	1174.4	1192.6	1211.9	1230.1	1245.3	1255.4	1259.4	1280.7
52.5°	1158.2	1163.3	1173.4	1188.6	1209.8	1229.1	1248.3	1263.5	1274.6	1278.7	1297.9
54°	1160.2	1163.3	1174.4	1190.6	1211.9	1232.1	1251.3	1266.5	1277.7	1281.7	1302.0
55°	1158.2	1160.2	1172.4	1187.6	1209.8	1230.1	1249.3	1264.5	1276.7	1280.7	1299.9
57.5°	1138.0	1141.0	1151.1	1167.3	1187.6	1210.8	1229.1	1244.3	1256.4	1258.4	1276.7
60°	1096.4	1100.5	1109.6	1126.8	1147.1	1167.3	1185.5	1198.7	1209.8	1215.9	1229.1
62.5°	1036.7	1038.7	1047.8	1063.0	1081.3	1102.5	1116.7	1129.9	1140.0	1146.1	1157.2
65°	951.7	960.8	967.9	980.0	994.2	1011.4	1029.6	1039.7	1044.8	1054.9	1063.0
67.5°	856.5	862.6	869.7	880.8	889.9	901.0	918.3	927.4	933.4	940.5	947.6
70°	750.2	748.2	756.3	762.3	772.5	779.6	790.7	795.8	802.8	806.9	819.0
72.5°	623.6	626.7	633.8	640.9	643.9	645.9	655.0	658.1	664.1	662.1	677.3
75°	509.2	504.2	506.2	507.2	509.2	507.2	513.3	516.3	519.4	516.3	524.4
77.5°	384.7	378.6	380.7	379.7	379.7	377.6	376.6	376.6	377.6	375.6	380.7
80°	265.3	262.2	263.2	265.3	260.2	261.2	255.1	255.1	255.1	255.1	257.2
82.5°	164.0	160.0	158.9	160.0	160.0	156.9	157.9	153.9	152.9	151.9	161.0
85°	80.0	78.0	80.0	78.0	76.9	76.9	74.9	75.9	73.9	72.9	79.0
87.5°	21.3	20.2	20.2	20.2	19.2	20.2	20.2	20.2	20.2	21.3	24.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	70°	75°	80°	85°	90°
0°	465.7	465.7	465.7	465.7	465.7	465.7	465.7	465.7	465.7
2.5°	467.7	467.7	467.7	467.7	467.7	467.7	467.7	467.7	466.7
5°	473.8	473.8	473.8	473.8	473.8	473.8	473.8	473.8	473.8
7.5°	483.9	483.9	482.9	482.9	482.9	482.9	482.9	482.9	482.9
10°	498.1	499.1	497.1	497.1	498.1	497.1	497.1	496.1	496.1
12.5°	518.4	517.3	518.4	518.4	517.3	516.3	515.3	514.3	515.3
15°	541.6	540.6	540.6	540.6	539.6	539.6	538.6	539.6	538.6
17.5°	570.0	570.0	571.0	568.0	569.0	567.0	567.0	567.0	565.9
20°	606.4	605.4	604.4	601.4	602.4	600.4	599.3	598.3	597.3
22.5°	645.9	643.9	642.9	639.8	640.9	638.8	635.8	633.8	633.8
25°	689.5	687.4	685.4	684.4	683.4	679.3	677.3	674.3	676.3
27.5°	741.1	737.0	734.0	730.0	731.0	725.9	723.9	721.9	721.9
30°	796.8	793.7	788.7	785.6	784.6	779.6	775.5	773.5	772.5
32.5°	857.5	855.5	852.5	847.4	845.4	837.3	834.2	831.2	830.2
35°	929.4	924.3	921.3	914.2	907.1	902.1	895.0	892.9	890.9
37.5°	996.2	996.2	991.2	983.1	972.9	965.8	959.8	955.7	952.7
40°	1067.1	1065.1	1057.0	1049.9	1039.7	1029.6	1018.5	1014.4	1012.4
42.5°	1129.9	1125.8	1117.7	1108.6	1098.5	1086.3	1074.2	1068.1	1067.1
45°	1182.5	1177.4	1169.3	1157.2	1144.0	1131.9	1120.7	1114.7	1111.6
47.5°	1225.0	1218.9	1208.8	1197.7	1182.5	1168.3	1157.2	1151.1	1147.1
50°	1256.4	1251.3	1240.2	1226.0	1210.8	1194.6	1183.5	1176.4	1173.4
52.5°	1276.7	1269.6	1257.4	1242.2	1225.0	1208.8	1195.7	1187.6	1184.5
54°	1280.7	1272.6	1259.4	1243.2	1225.0	1207.8	1195.7	1186.5	1183.5
55°	1278.7	1270.6	1256.4	1241.2	1222.0	1204.8	1191.6	1182.5	1179.5
57.5°	1257.4	1248.3	1235.1	1218.9	1198.7	1181.5	1169.3	1159.2	1156.2
60°	1211.9	1203.8	1188.6	1174.4	1154.2	1136.9	1123.8	1113.7	1110.6
62.5°	1142.0	1134.9	1121.8	1107.6	1086.3	1071.1	1058.0	1051.9	1043.8
65°	1048.9	1043.8	1030.6	1013.4	998.2	983.1	969.9	965.8	960.8
67.5°	937.5	930.4	925.3	908.1	896.0	881.8	868.7	860.6	858.5
70°	805.9	802.8	797.8	781.6	774.5	762.3	753.2	746.1	744.1
72.5°	664.1	661.1	660.1	652.0	642.9	631.7	627.7	621.6	620.6
75°	516.3	514.3	516.3	510.3	507.2	504.2	502.2	502.2	499.1
77.5°	373.6	376.6	377.6	377.6	379.7	379.7	381.7	378.6	375.6
80°	254.1	257.2	256.1	258.2	257.2	264.2	259.2	263.2	259.2
82.5°	152.9	156.9	156.9	156.9	161.0	160.0	160.0	162.0	161.0
85°	74.9	75.9	74.9	73.9	79.0	78.0	78.0	76.9	78.0
87.5°	22.3	20.2	21.3	19.2	21.3	18.2	20.2	20.2	21.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)