

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: P197668

Luminaire Tested: **TT-C4-LED-E1-MQ-CG-LWR-LW-7060**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P197668
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P115378)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: TT-C4-LED-E1-MQ-CG-LWR-LW-7060
Description: TOPTIER LED PARKING GARAGE LUMINAIRE
MEDIUM DISTRIBUTION WITH CLEAR GLASS LENS AND LumaWatt WIRELESS SENSOR
Light Source: (160) 5700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5776.2 lumens
Efficiency: N/A
Efficacy: 99.6 lumens/watt
Luminous Opening: Circular (Dia: 1.12' x H: 0')
IES Classification: Type V - Short - Semi-Cutoff
BUG Rating: B3 - U0 - G2

Input Watts (W): 58
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



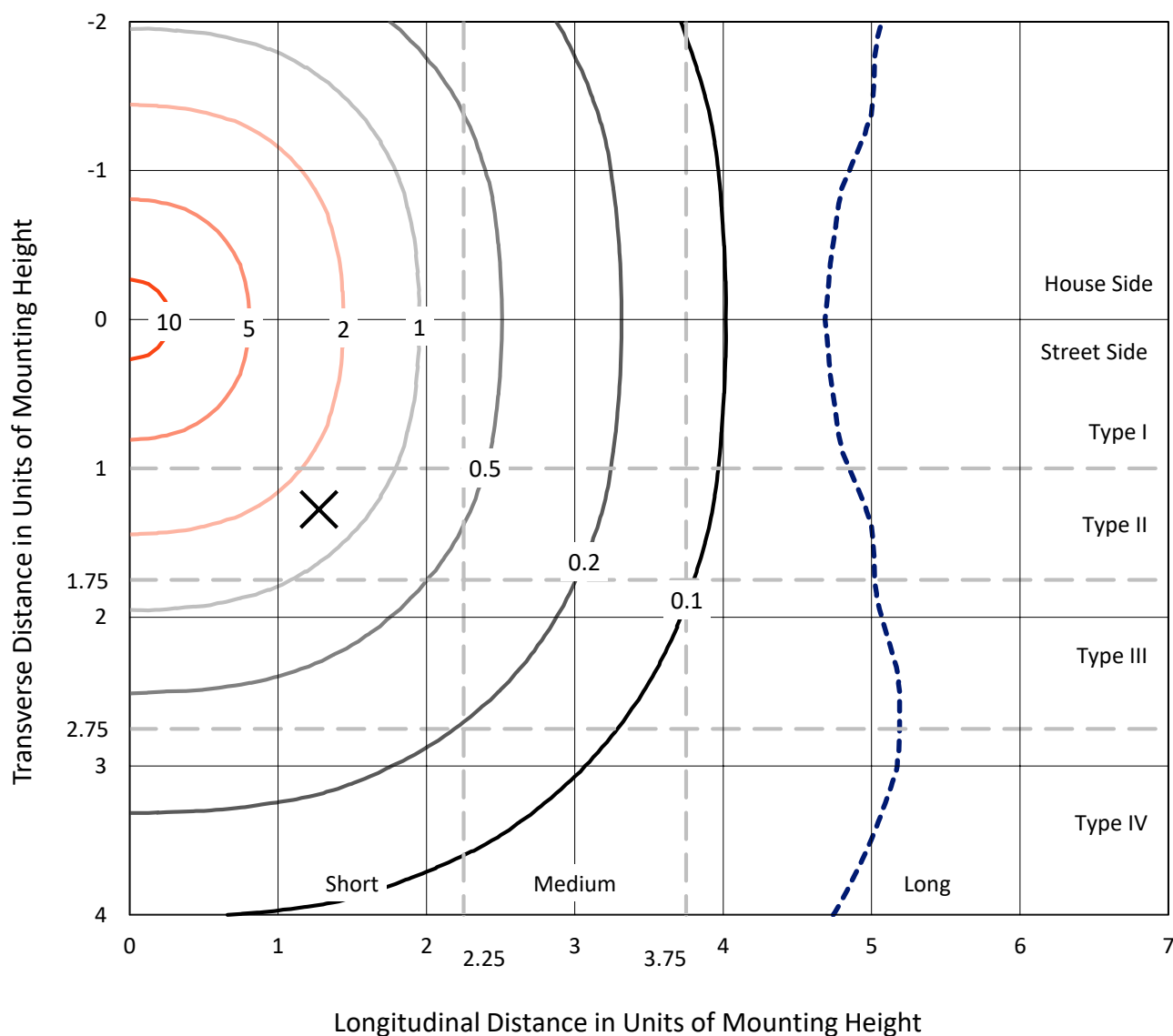
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

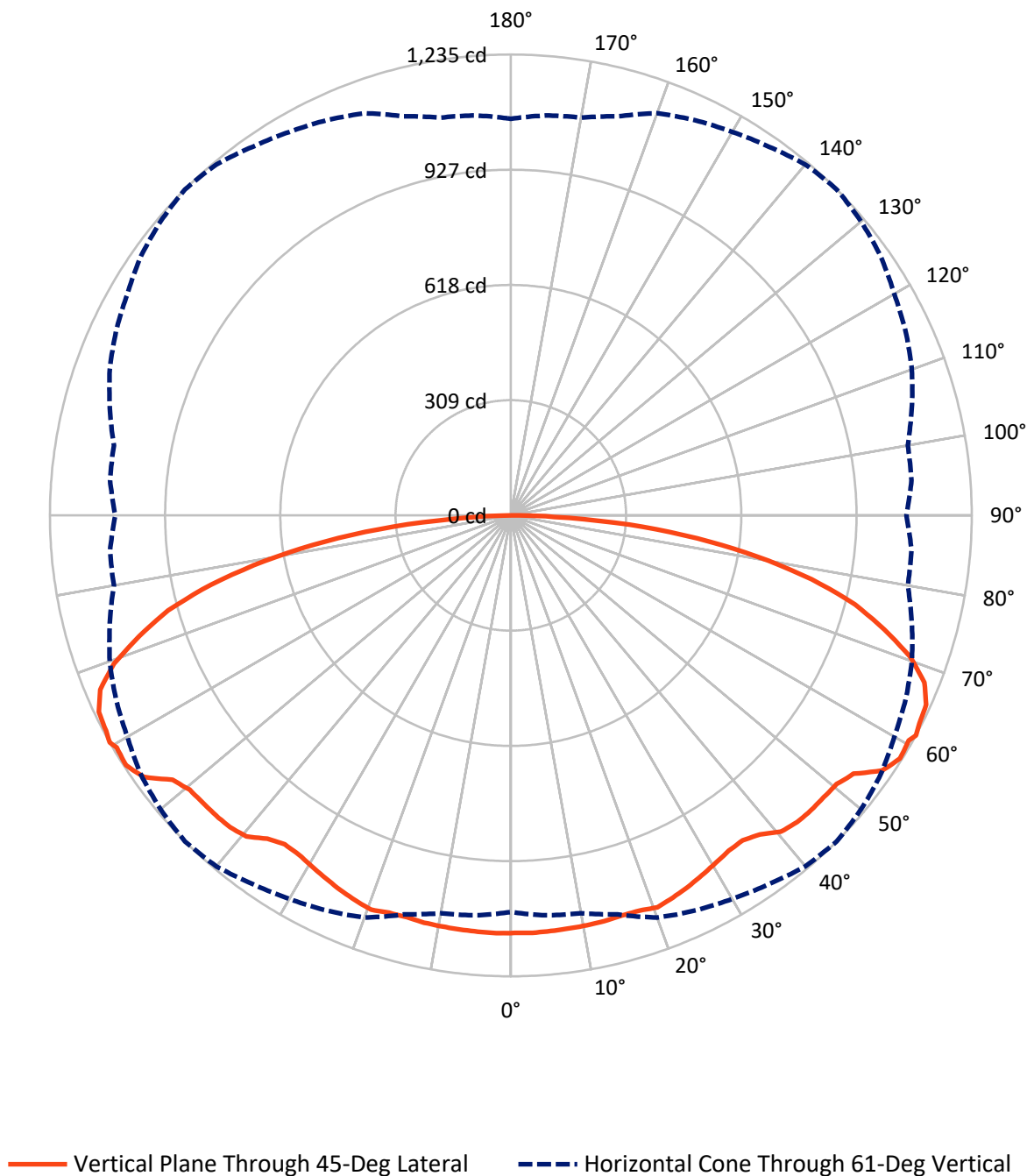


Based on 10 foot mounting height. Maximum calculated value = 11.2 fc
 Type V - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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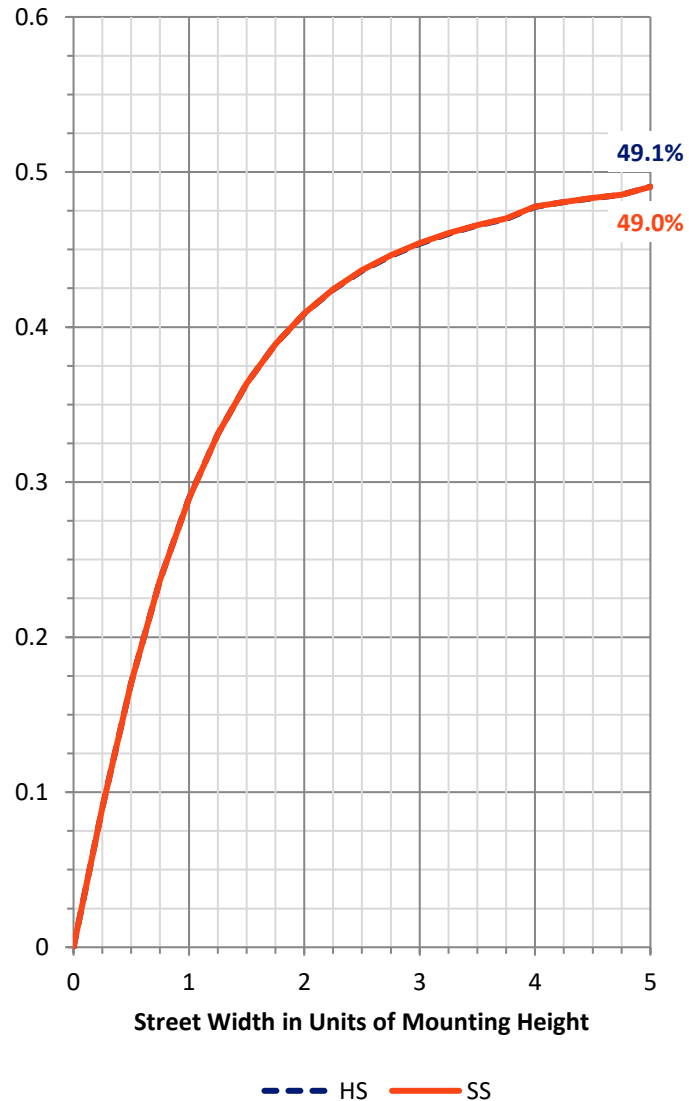
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2888.1	0.0	2888.1
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2888.1	0.0	2888.1
	% Fixture	50.0	0.0	50.0
Total	Lumens	5776.2	0.0	5776.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	106.8	1.8
10°-20°	315.6	5.5
20°-30°	507.9	8.8
30°-40°	672.8	11.6
40°-50°	849.6	14.7
50°-60°	1018.0	17.6
60°-70°	1113.1	19.3
70°-80°	891.0	15.4
80°-90°	301.5	5.2
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°	5776.2	100.0
0°-180°	5776.2	100.0

Coefficient of Utilization



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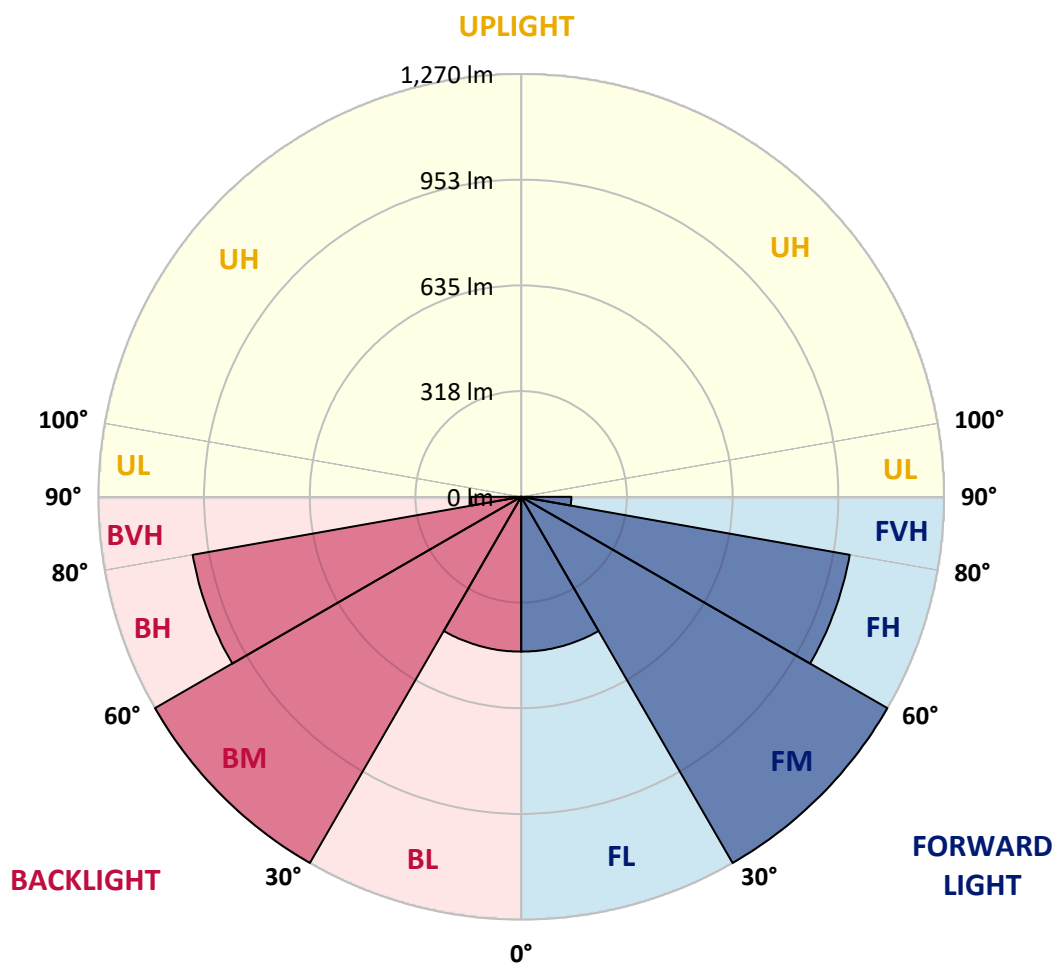
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	465.1	8.1			
FM	(30°-60°)	1270.2	22.0			
FH	(60°-80°)	1002.1	17.3			G1/1800
FVH	(80°-90°)	150.7	2.6			G2/225
BL	(0°-30°)	465.1	8.1	B1/500		
BM	(30°-60°)	1270.2	22.0	B2/2500		
BH	(60°-80°)	1002.1	17.3	B3/2500		G1/1800
BVH	(80°-90°)	150.7	2.6			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1119.2	1119.2	1119.2	1119.2	1119.2	1119.2	1119.2	1119.2	1119.2	1119.2	1119.2
2.5°	1120.1	1119.2	1120.1	1120.1	1120.1	1120.1	1120.1	1120.1	1120.1	1120.1	1120.1
5°	1119.2	1119.2	1119.2	1119.2	1119.2	1119.2	1119.2	1119.2	1119.2	1119.2	1119.2
7.5°	1118.1	1118.1	1118.1	1118.1	1118.1	1118.1	1118.1	1118.1	1119.2	1118.1	1119.2
10°	1115.9	1115.9	1115.9	1115.9	1117.0	1117.0	1117.0	1117.0	1117.0	1117.0	1117.0
12.5°	1113.7	1113.7	1113.7	1113.7	1114.8	1114.8	1114.8	1114.8	1115.9	1115.9	1114.8
15°	1111.6	1110.5	1110.5	1111.6	1111.6	1112.6	1112.6	1112.6	1113.7	1112.6	1112.6
17.5°	1109.4	1108.3	1109.4	1110.5	1110.5	1111.6	1112.6	1112.6	1113.7	1113.7	1113.7
20°	1112.6	1111.6	1112.6	1113.7	1114.8	1117.0	1118.1	1119.2	1120.1	1121.2	1121.2
22.5°	1106.1	1105.0	1106.1	1106.1	1107.2	1108.3	1110.5	1111.6	1112.6	1112.6	1112.6
25°	1096.5	1096.5	1097.6	1097.6	1098.7	1099.8	1100.8	1101.9	1101.9	1103.0	1101.9
27.5°	1085.8	1085.8	1086.9	1086.9	1089.0	1089.0	1090.1	1091.1	1092.1	1092.1	1092.1
30°	1072.9	1072.9	1074.0	1075.0	1077.1	1078.2	1079.3	1080.3	1081.4	1081.4	1081.4
32.5°	1061.1	1060.0	1061.1	1063.1	1066.4	1068.5	1070.7	1071.8	1071.8	1071.8	1072.9
35°	1051.3	1052.4	1054.5	1056.7	1061.1	1063.1	1065.3	1068.5	1069.6	1069.6	1069.6
37.5°	1053.5	1054.5	1057.8	1062.0	1067.4	1074.0	1078.2	1082.5	1085.8	1084.7	1083.6
40°	1067.4	1069.6	1075.0	1081.4	1090.1	1098.7	1105.0	1110.5	1113.7	1114.8	1113.7
42.5°	1069.6	1071.8	1076.0	1085.8	1095.4	1105.0	1113.7	1119.2	1123.4	1124.5	1123.4
45°	1068.5	1068.5	1075.0	1085.8	1095.4	1105.0	1115.9	1123.4	1127.7	1127.7	1127.7
47.5°	1061.1	1064.2	1068.5	1079.3	1092.1	1101.9	1112.6	1120.1	1125.5	1128.8	1125.5
50°	1061.1	1061.1	1068.5	1076.0	1087.9	1105.0	1120.1	1127.7	1133.1	1132.1	1133.1
52.5°	1058.9	1065.3	1069.6	1080.3	1101.9	1119.2	1131.0	1141.7	1149.2	1150.3	1148.2
55°	1078.2	1079.3	1089.0	1109.4	1129.9	1149.2	1170.8	1186.9	1199.8	1207.4	1196.5
57.5°	1093.2	1087.9	1107.2	1124.5	1148.2	1177.3	1209.4	1222.3	1232.1	1229.9	1233.2
60°	1072.9	1080.3	1094.3	1112.6	1150.3	1179.3	1196.5	1210.5	1222.3	1225.6	1221.4
61°	1063.1	1076.0	1082.5	1107.2	1147.1	1168.6	1186.9	1206.3	1227.8	1235.4	1225.6
62.5°	1046.9	1067.4	1065.3	1105.0	1129.9	1154.6	1189.1	1211.6	1226.7	1228.9	1226.7
65°	1048.0	1044.9	1069.6	1098.7	1123.4	1167.5	1196.5	1210.5	1219.2	1223.4	1221.4
67.5°	1013.7	1002.8	1033.0	1053.5	1095.4	1129.9	1157.9	1178.2	1191.3	1195.5	1190.2
70°	934.0	941.6	963.0	994.3	1028.8	1070.7	1096.5	1123.4	1134.2	1135.2	1135.2
72.5°	857.6	861.9	883.5	912.5	952.3	988.8	1014.8	1036.2	1046.0	1046.9	1049.1
75°	756.4	760.8	785.5	812.4	852.3	883.5	901.7	927.6	941.6	953.4	943.8
77.5°	639.1	646.7	666.0	695.2	731.7	749.0	781.3	811.4	821.0	824.3	821.0
80°	506.8	516.5	533.8	572.5	588.6	616.6	647.8	660.7	669.3	671.4	672.5
82.5°	364.8	372.4	390.6	417.4	435.8	458.4	479.9	496.0	505.7	503.7	502.6
85°	215.2	217.3	236.8	255.1	269.1	283.0	300.2	312.1	314.3	318.5	317.4
87.5°	64.6	65.7	74.3	83.9	90.4	96.8	107.7	121.6	124.8	116.2	117.3
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):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	1119.2	1119.2	1119.2	1119.2	1119.2	1119.2	1119.2	1119.2
2.5°	1120.1	1120.1	1120.1	1120.1	1120.1	1120.1	1119.2	1120.1
5°	1119.2	1119.2	1119.2	1119.2	1119.2	1119.2	1119.2	1119.2
7.5°	1119.2	1118.1	1118.1	1118.1	1118.1	1118.1	1118.1	1118.1
10°	1117.0	1117.0	1117.0	1117.0	1115.9	1115.9	1115.9	1115.9
12.5°	1114.8	1114.8	1114.8	1114.8	1113.7	1113.7	1113.7	1113.7
15°	1112.6	1112.6	1112.6	1112.6	1111.6	1111.6	1111.6	1111.6
17.5°	1113.7	1112.6	1111.6	1111.6	1110.5	1109.4	1109.4	1109.4
20°	1120.1	1119.2	1117.0	1114.8	1113.7	1112.6	1112.6	1112.6
22.5°	1111.6	1110.5	1108.3	1107.2	1107.2	1106.1	1105.0	1105.0
25°	1101.9	1099.8	1099.8	1098.7	1098.7	1096.5	1096.5	1095.4
27.5°	1091.1	1090.1	1089.0	1087.9	1087.9	1086.9	1085.8	1084.7
30°	1081.4	1079.3	1077.1	1076.0	1075.0	1074.0	1074.0	1074.0
32.5°	1071.8	1069.6	1068.5	1065.3	1063.1	1062.0	1061.1	1061.1
35°	1068.5	1065.3	1063.1	1060.0	1056.7	1054.5	1053.5	1051.3
37.5°	1081.4	1077.1	1074.0	1068.5	1061.1	1057.8	1054.5	1053.5
40°	1109.4	1105.0	1098.7	1090.1	1081.4	1075.0	1069.6	1067.4
42.5°	1119.2	1113.7	1105.0	1096.5	1085.8	1076.0	1071.8	1069.6
45°	1122.3	1117.0	1105.0	1094.3	1084.7	1076.0	1069.6	1067.4
47.5°	1119.2	1111.6	1100.8	1092.1	1078.2	1067.4	1063.1	1060.0
50°	1126.6	1120.1	1106.1	1086.9	1075.0	1068.5	1061.1	1060.0
52.5°	1141.7	1129.9	1117.0	1103.0	1080.3	1067.4	1063.1	1057.8
55°	1186.9	1170.8	1148.2	1125.5	1111.6	1091.1	1078.2	1078.2
57.5°	1221.4	1208.4	1179.3	1149.2	1123.4	1108.3	1089.0	1090.1
60°	1211.6	1194.4	1180.4	1150.3	1113.7	1093.2	1085.8	1071.8
61°	1210.5	1186.9	1167.5	1143.9	1112.6	1080.3	1078.2	1060.0
62.5°	1212.7	1191.3	1154.6	1129.9	1106.1	1064.2	1063.1	1046.0
65°	1210.5	1190.2	1171.8	1125.5	1093.2	1076.0	1039.5	1053.5
67.5°	1177.3	1158.9	1125.5	1099.8	1050.2	1028.8	1008.3	1008.3
70°	1124.5	1097.6	1065.3	1033.0	999.7	963.0	944.7	934.0
72.5°	1036.2	1013.7	987.9	953.4	912.5	879.1	861.9	854.4
75°	925.4	900.6	878.1	852.3	809.2	781.3	762.9	757.5
77.5°	809.2	787.7	747.9	723.2	694.1	661.8	645.7	639.1
80°	660.7	648.9	620.9	581.0	567.0	527.3	516.5	506.8
82.5°	496.0	483.2	457.4	429.4	412.2	389.5	370.2	368.0
85°	312.1	303.4	287.3	266.9	245.3	232.4	215.2	219.5
87.5°	116.2	110.8	101.1	88.2	78.6	69.9	61.4	64.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)