

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: P197616

Luminaire Tested: **TT-C3-LED-E1-MQ-MS/DIM-7060**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P197616
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P115333)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: TT-C3-LED-E1-MQ-MS/DIM-7060
Description: TOPTIER LED PARKING GARAGE LUMINAIRE
MEDIUM DISTRIBUTION WITH DIMMING OCCUPANCY SENSOR
Light Source: (168) 5700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5665.3 lumens
Efficiency: N/A
Efficacy: 125.9 lumens/watt
Luminous Opening: Circular (Dia: 1.12' x H: 0')
IES Classification: Type V - Short - Semi-Cutoff
BUG Rating: B2 - U0 - G2

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

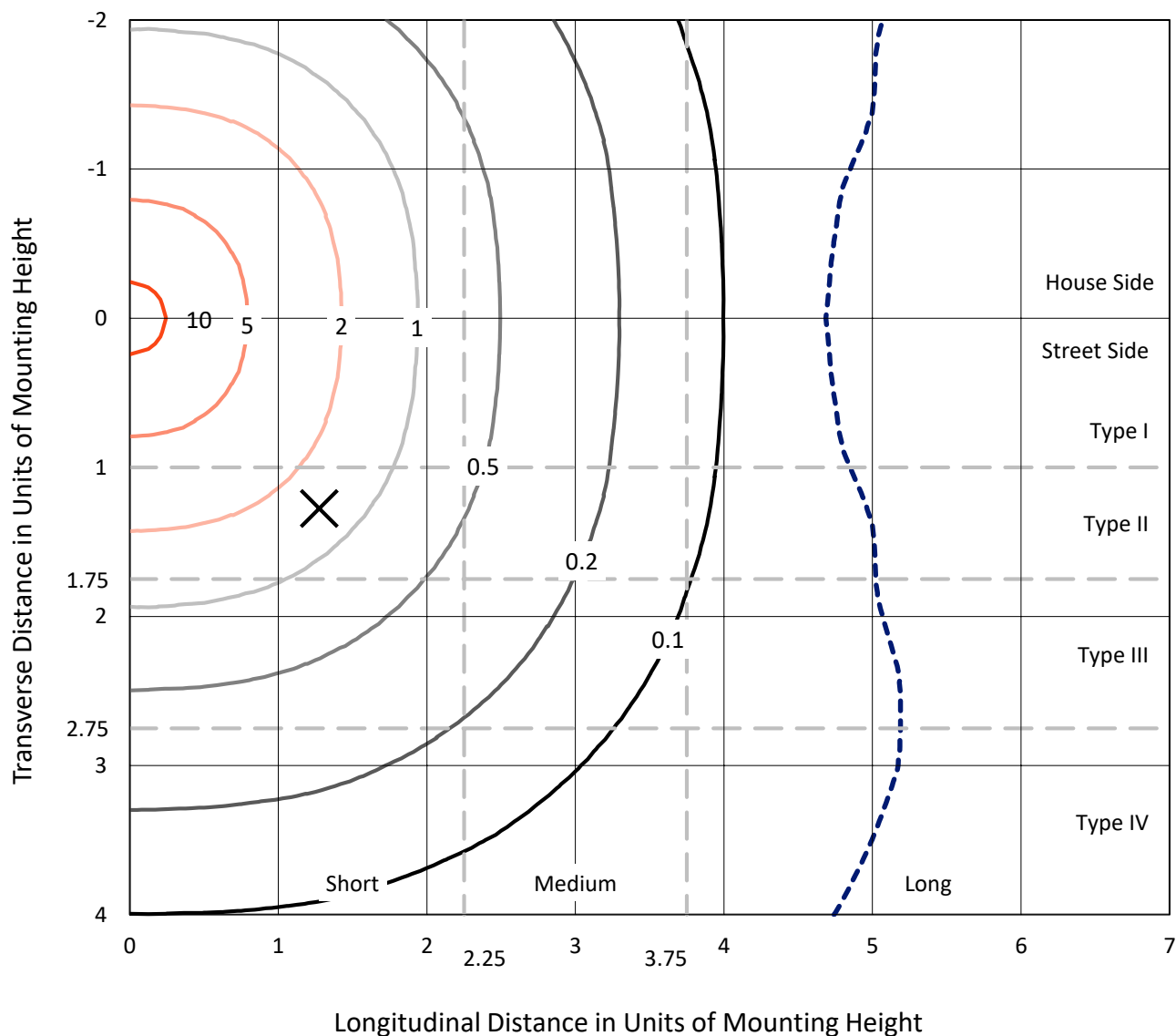


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

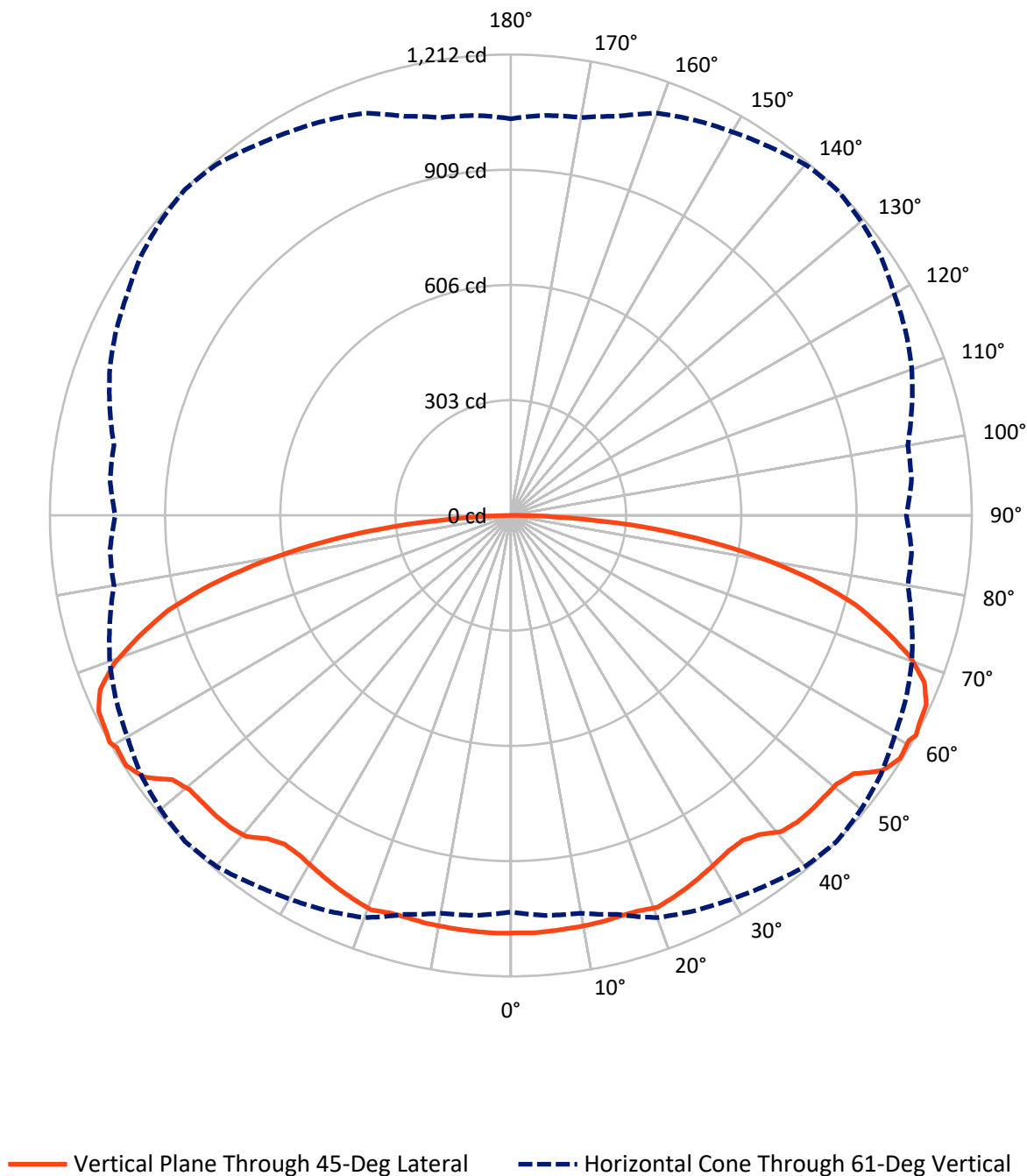


Based on 10 foot mounting height. Maximum calculated value = 11 fc
Type V - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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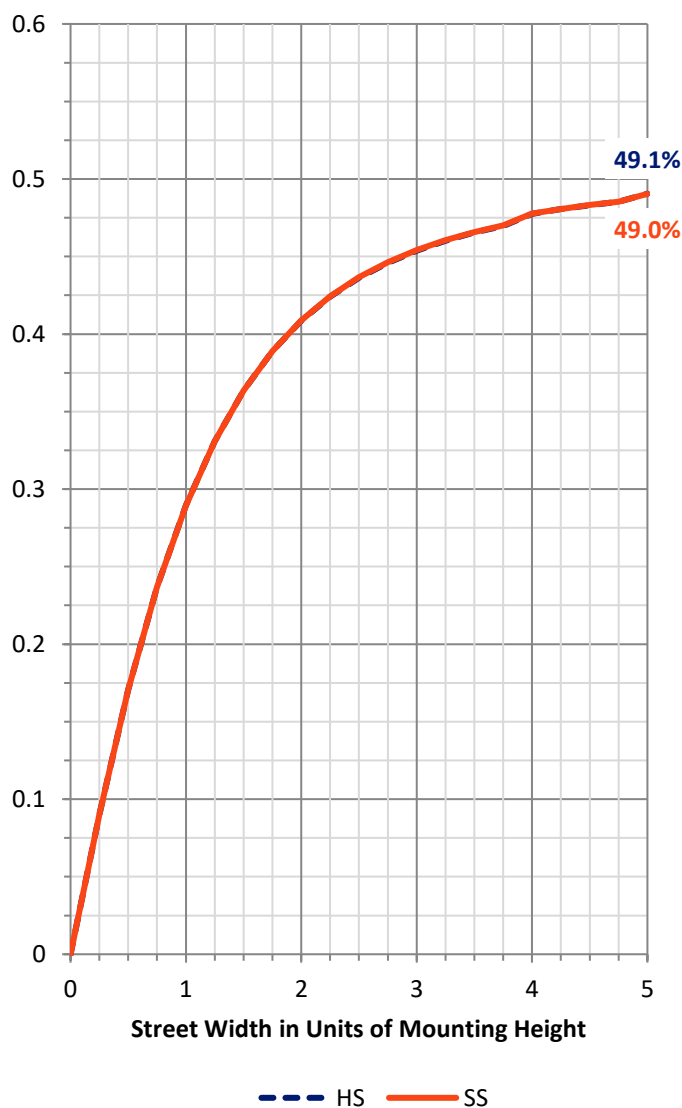
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2832.7	0.0	2832.7
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2832.7	0.0	2832.7
	% Fixture	50.0	0.0	50.0
Total	Lumens	5665.3	0.0	5665.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	104.7	1.8
10°-20°	309.6	5.5
20°-30°	498.1	8.8
30°-40°	659.9	11.6
40°-50°	833.3	14.7
50°-60°	998.4	17.6
60°-70°	1091.7	19.3
70°-80°	873.9	15.4
80°-90°	295.7	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°	5665.3	100.0
0°-180°	5665.3	100.0

Coefficient of Utilization



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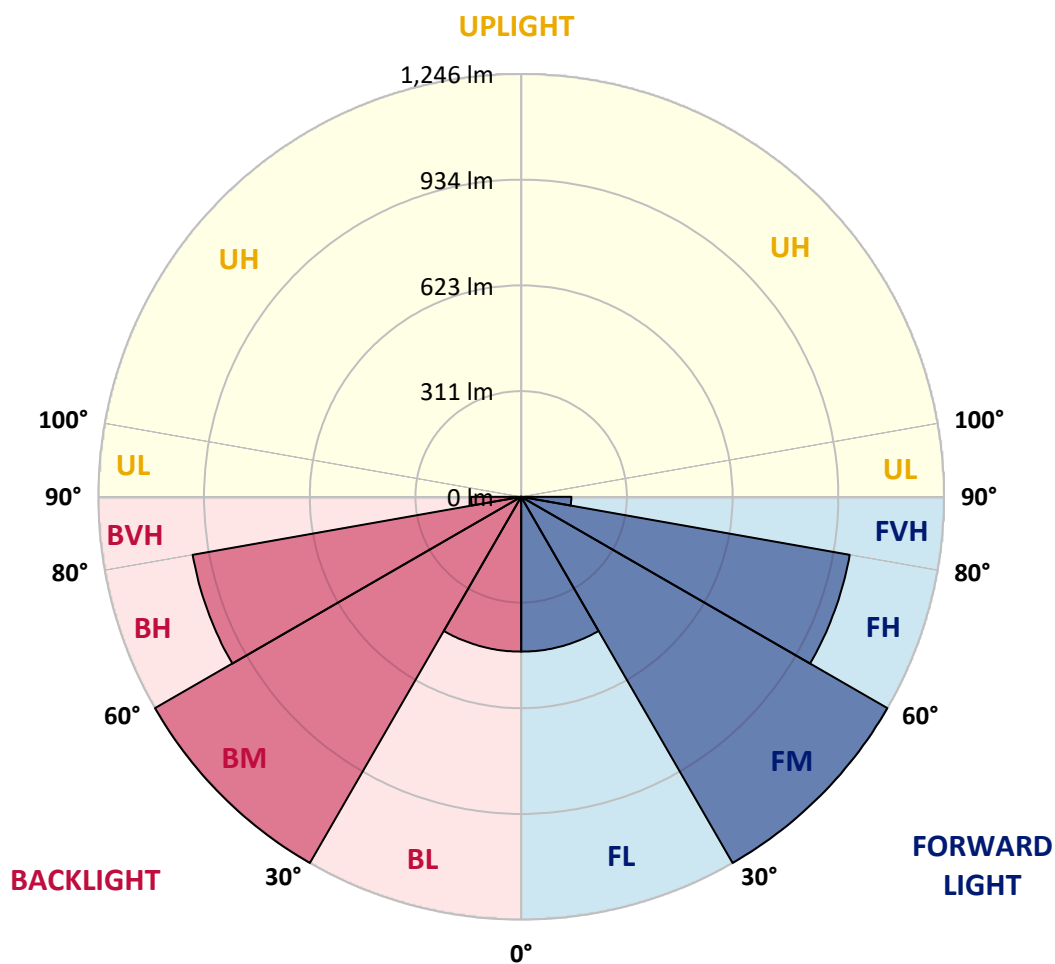
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	456.2	8.1			
FM	(30°-60°)	1245.8	22.0			
FH	(60°-80°)	982.8	17.3			G1/1800
FVH	(80°-90°)	147.8	2.6			G2/225
BL	(0°-30°)	456.2	8.1	B1/500		
BM	(30°-60°)	1245.8	22.0	B2/2500		
BH	(60°-80°)	982.8	17.3	B2/1000		G1/1800
BVH	(80°-90°)	147.8	2.6			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1097.6	1097.6	1097.6	1097.6	1097.6	1097.6	1097.6	1097.6	1097.6	1097.6	1097.6
2.5°	1098.7	1097.6	1098.7	1098.7	1098.7	1098.7	1098.7	1098.7	1098.7	1098.7	1098.7
5°	1097.6	1097.6	1097.6	1097.6	1097.6	1097.6	1097.6	1097.6	1097.6	1097.6	1097.6
7.5°	1096.6	1096.6	1096.6	1096.6	1096.6	1096.6	1096.6	1096.6	1097.6	1096.6	1097.6
10°	1094.5	1094.5	1094.5	1094.5	1095.5	1095.5	1095.5	1095.5	1095.5	1095.5	1095.5
12.5°	1092.4	1092.4	1092.4	1092.4	1093.4	1093.4	1093.4	1093.4	1094.5	1094.5	1093.4
15°	1090.2	1089.2	1089.2	1090.2	1090.2	1091.3	1091.3	1091.3	1092.4	1091.3	1091.3
17.5°	1088.1	1087.1	1088.1	1089.2	1089.2	1090.2	1091.3	1091.3	1092.4	1092.4	1092.4
20°	1091.3	1090.2	1091.3	1092.4	1093.4	1095.5	1096.6	1097.6	1098.7	1099.7	1099.7
22.5°	1085.0	1083.9	1085.0	1085.0	1086.0	1087.1	1089.2	1090.2	1091.3	1091.3	1091.3
25°	1075.5	1075.5	1076.5	1076.5	1077.6	1078.6	1079.7	1080.7	1080.7	1081.8	1080.7
27.5°	1064.9	1064.9	1066.0	1066.0	1068.1	1068.1	1069.1	1070.2	1071.2	1071.2	1071.2
30°	1052.2	1052.2	1053.3	1054.4	1056.5	1057.5	1058.6	1059.6	1060.7	1060.7	1060.7
32.5°	1040.6	1039.6	1040.6	1042.7	1045.9	1048.0	1050.1	1051.2	1051.2	1051.2	1052.2
35°	1031.1	1032.2	1034.3	1036.4	1040.6	1042.7	1044.9	1048.0	1049.1	1049.1	1049.1
37.5°	1033.2	1034.3	1037.5	1041.7	1047.0	1053.3	1057.5	1061.7	1064.9	1063.9	1062.8
40°	1047.0	1049.1	1054.4	1060.7	1069.1	1077.6	1083.9	1089.2	1092.4	1093.4	1092.4
42.5°	1049.1	1051.2	1055.4	1064.9	1074.4	1083.9	1092.4	1097.6	1101.9	1102.9	1101.9
45°	1048.0	1048.0	1054.4	1064.9	1074.4	1083.9	1094.5	1101.9	1106.1	1106.1	1106.1
47.5°	1040.6	1043.8	1048.0	1058.6	1071.2	1080.7	1091.3	1098.7	1103.9	1107.1	1103.9
50°	1040.6	1040.6	1048.0	1055.4	1067.0	1083.9	1098.7	1106.1	1111.4	1110.3	1111.4
52.5°	1038.5	1044.9	1049.1	1059.6	1080.7	1097.6	1109.2	1119.8	1127.2	1128.2	1126.1
55°	1057.5	1058.6	1068.1	1088.1	1108.2	1127.2	1148.3	1164.1	1176.8	1184.2	1173.6
57.5°	1072.3	1067.0	1086.0	1102.9	1126.1	1154.6	1186.3	1198.9	1208.4	1206.3	1209.5
60°	1052.2	1059.6	1073.4	1091.3	1128.2	1156.7	1173.6	1187.3	1198.9	1202.1	1197.9
61°	1042.7	1055.4	1061.7	1086.0	1125.1	1146.2	1164.1	1183.1	1204.2	1211.6	1202.1
62.5°	1026.9	1047.0	1044.9	1083.9	1108.2	1132.4	1166.2	1188.4	1203.2	1205.3	1203.2
65°	1028.0	1024.8	1049.1	1077.6	1101.9	1145.1	1173.6	1187.3	1195.8	1200.0	1197.9
67.5°	994.2	983.6	1013.2	1033.2	1074.4	1108.2	1135.6	1155.7	1168.4	1172.6	1167.3
70°	916.1	923.5	944.6	975.2	1009.0	1050.1	1075.5	1101.9	1112.4	1113.4	1113.4
72.5°	841.2	845.4	866.5	895.0	934.0	969.9	995.2	1016.4	1025.9	1026.9	1029.0
75°	741.9	746.2	770.4	796.8	835.9	866.5	884.4	909.8	923.5	935.1	925.6
77.5°	626.9	634.3	653.3	681.8	717.7	734.6	766.2	795.8	805.3	808.4	805.3
80°	497.1	506.6	523.5	561.5	577.3	604.7	635.4	648.0	656.4	658.6	659.6
82.5°	357.7	365.2	383.1	409.5	427.5	449.6	470.7	486.5	496.0	494.0	492.9
85°	211.0	213.2	232.2	250.1	263.8	277.5	294.5	306.0	308.2	312.4	311.3
87.5°	63.4	64.3	72.9	82.4	88.6	95.0	105.6	119.3	122.4	114.0	115.1
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°	1097.6	1097.6	1097.6	1097.6	1097.6	1097.6	1097.6	1097.6
2.5°	1098.7	1098.7	1098.7	1098.7	1098.7	1098.7	1097.6	1098.7
5°	1097.6	1097.6	1097.6	1097.6	1097.6	1097.6	1097.6	1097.6
7.5°	1097.6	1096.6	1096.6	1096.6	1096.6	1096.6	1096.6	1096.6
10°	1095.5	1095.5	1095.5	1095.5	1094.5	1094.5	1094.5	1094.5
12.5°	1093.4	1093.4	1093.4	1093.4	1092.4	1092.4	1092.4	1092.4
15°	1091.3	1091.3	1091.3	1091.3	1090.2	1090.2	1090.2	1090.2
17.5°	1092.4	1091.3	1090.2	1090.2	1089.2	1088.1	1088.1	1088.1
20°	1098.7	1097.6	1095.5	1093.4	1092.4	1091.3	1091.3	1091.3
22.5°	1090.2	1089.2	1087.1	1086.0	1086.0	1085.0	1083.9	1083.9
25°	1080.7	1078.6	1078.6	1077.6	1077.6	1075.5	1075.5	1074.4
27.5°	1070.2	1069.1	1068.1	1067.0	1067.0	1066.0	1064.9	1063.9
30°	1060.7	1058.6	1056.5	1055.4	1054.4	1053.3	1053.3	1053.3
32.5°	1051.2	1049.1	1048.0	1044.9	1042.7	1041.7	1040.6	1040.6
35°	1048.0	1044.9	1042.7	1039.6	1036.4	1034.3	1033.2	1031.1
37.5°	1060.7	1056.5	1053.3	1048.0	1040.6	1037.5	1034.3	1033.2
40°	1088.1	1083.9	1077.6	1069.1	1060.7	1054.4	1049.1	1047.0
42.5°	1097.6	1092.4	1083.9	1075.5	1064.9	1055.4	1051.2	1049.1
45°	1100.8	1095.5	1083.9	1073.4	1063.9	1055.4	1049.1	1047.0
47.5°	1097.6	1090.2	1079.7	1071.2	1057.5	1047.0	1042.7	1039.6
50°	1105.0	1098.7	1085.0	1066.0	1054.4	1048.0	1040.6	1039.6
52.5°	1119.8	1108.2	1095.5	1081.8	1059.6	1047.0	1042.7	1037.5
55°	1164.1	1148.3	1126.1	1103.9	1090.2	1070.2	1057.5	1057.5
57.5°	1197.9	1185.2	1156.7	1127.2	1101.9	1087.1	1068.1	1069.1
60°	1188.4	1171.5	1157.8	1128.2	1092.4	1072.3	1064.9	1051.2
61°	1187.3	1164.1	1145.1	1121.9	1091.3	1059.6	1057.5	1039.6
62.5°	1189.4	1168.4	1132.4	1108.2	1085.0	1043.8	1042.7	1025.9
65°	1187.3	1167.3	1149.4	1103.9	1072.3	1055.4	1019.5	1033.2
67.5°	1154.6	1136.7	1103.9	1078.6	1030.1	1009.0	988.9	988.9
70°	1102.9	1076.5	1044.9	1013.2	980.5	944.6	926.6	916.1
72.5°	1016.4	994.2	968.9	935.1	895.0	862.3	845.4	838.0
75°	907.6	883.4	861.2	835.9	793.7	766.2	748.3	743.0
77.5°	793.7	772.6	733.5	709.2	680.7	649.1	633.2	626.9
80°	648.0	636.4	608.9	569.9	556.2	517.2	506.6	497.1
82.5°	486.5	473.9	448.5	421.1	404.3	382.0	363.0	361.0
85°	306.0	297.6	281.8	261.8	240.6	228.0	211.0	215.3
87.5°	114.0	108.7	99.2	86.6	77.1	68.5	60.1	63.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)