

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: P197591

Luminaire Tested: **TT-C3-LED-E1-MQ-LWR-LW-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P197591
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P115393)
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-LWR-LW-7050
Description: TOPTIER LED PARKING GARAGE LUMINAIRE
MEDIUM DISTRIBUTION WITH LumaWatt WIRELESS SENSOR
Light Source: (168) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5274.5 lumens
Efficiency: N/A
Efficacy: 117.2 lumens/watt
Luminous Opening: Circular (Dia: 1.12' x H: 0')
IES Classification: Type V - Short - Full 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

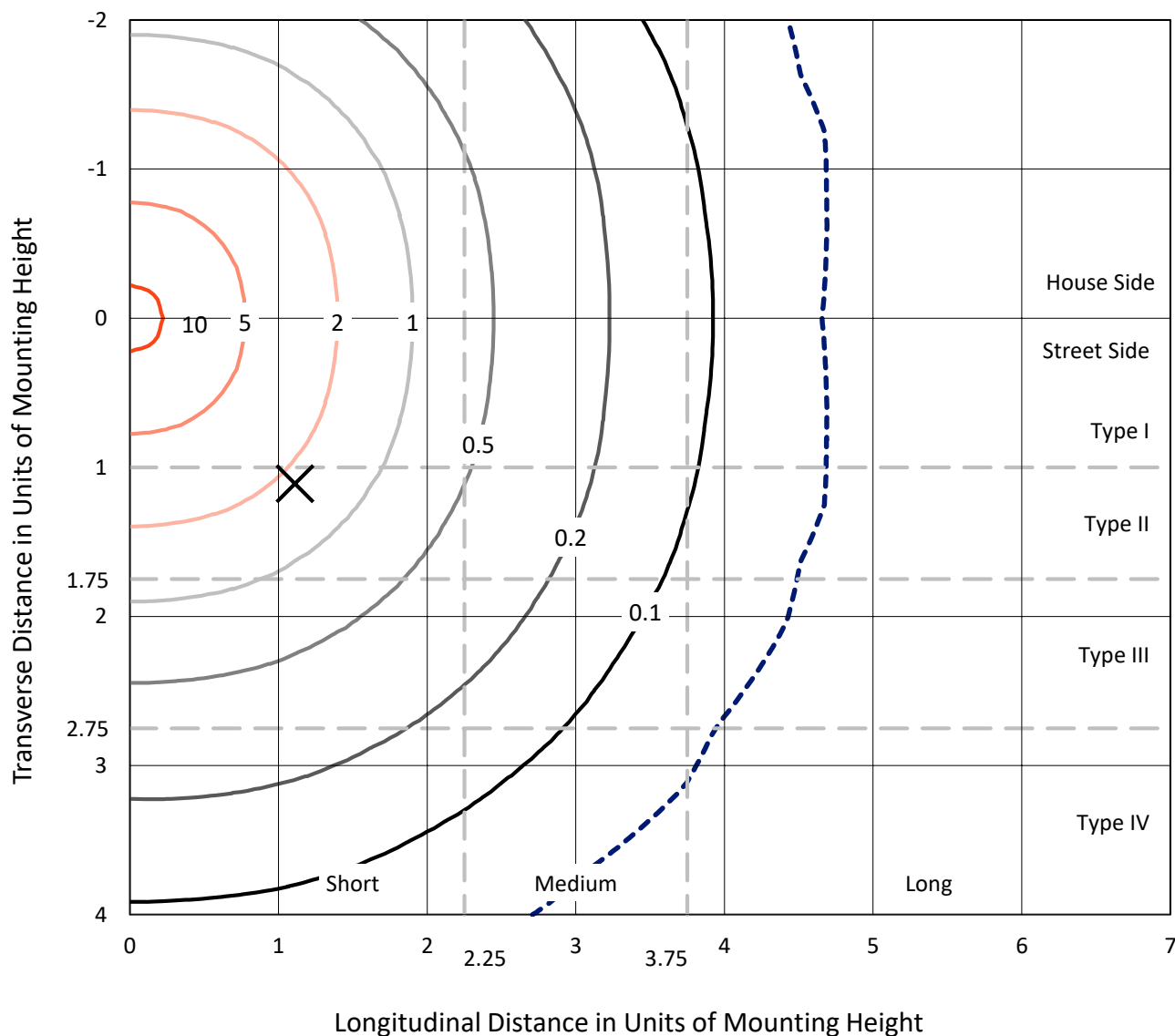


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

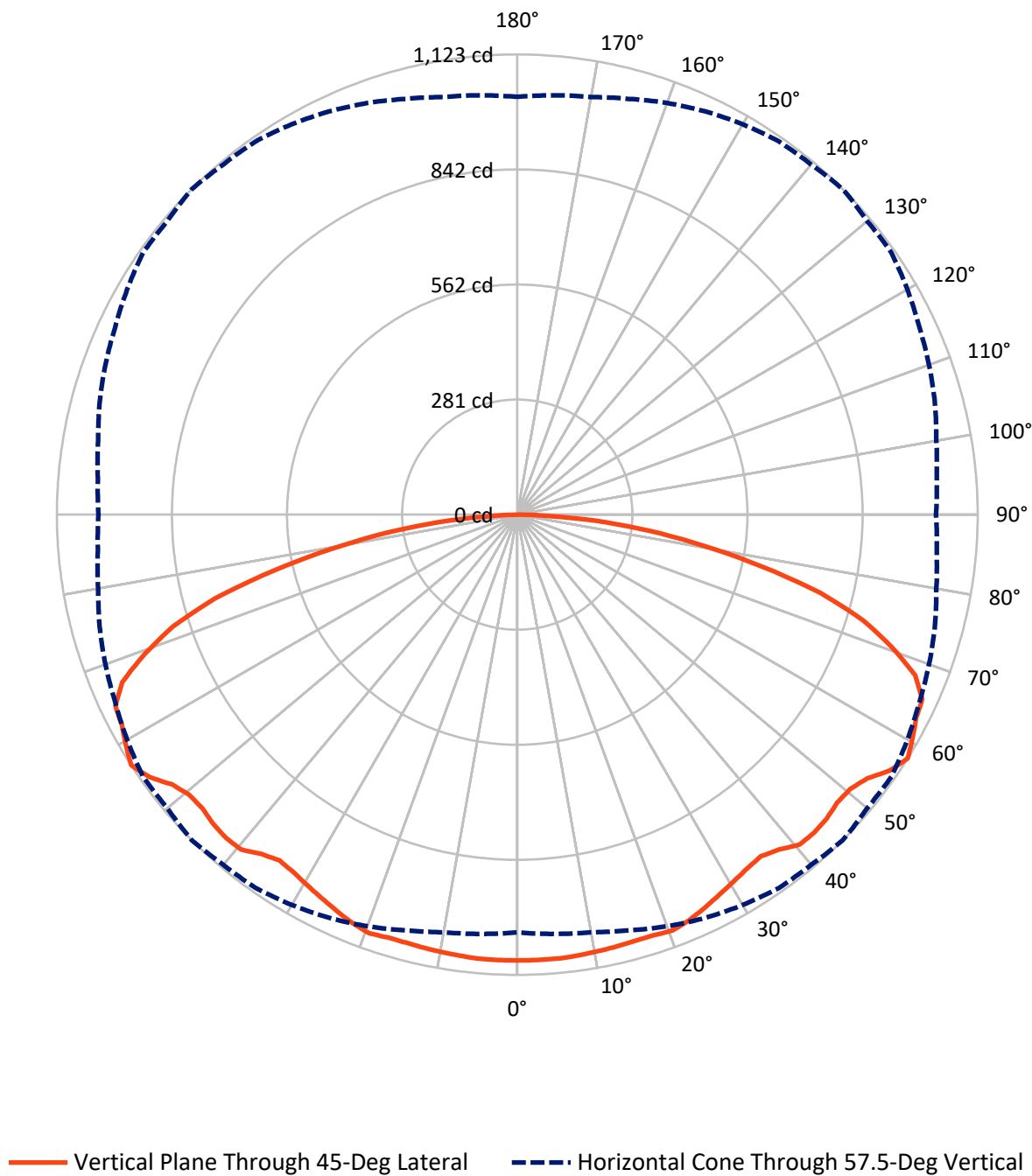


Based on 10 foot mounting height. Maximum calculated value = 10.9 fc
 Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



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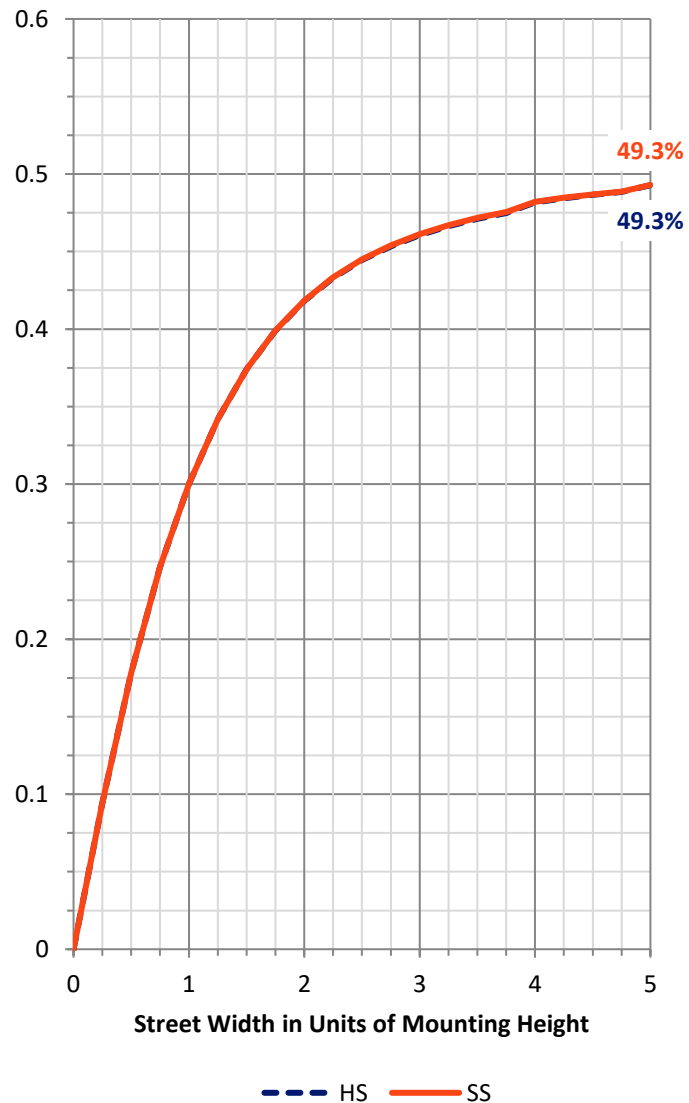
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2637.2	0.0	2637.2
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2637.2	0.0	2637.2
	% Fixture	50.0	0.0	50.0
Total	Lumens	5274.5	0.0	5274.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	103.6	2.0
10°-20°	305.8	5.8
20°-30°	489.8	9.3
30°-40°	644.8	12.2
40°-50°	803.1	15.2
50°-60°	946.0	17.9
60°-70°	1005.7	19.1
70°-80°	754.2	14.3
80°-90°	221.5	4.2
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°	5274.5	100.0
0°-180°	5274.5	100.0

Coefficient of Utilization



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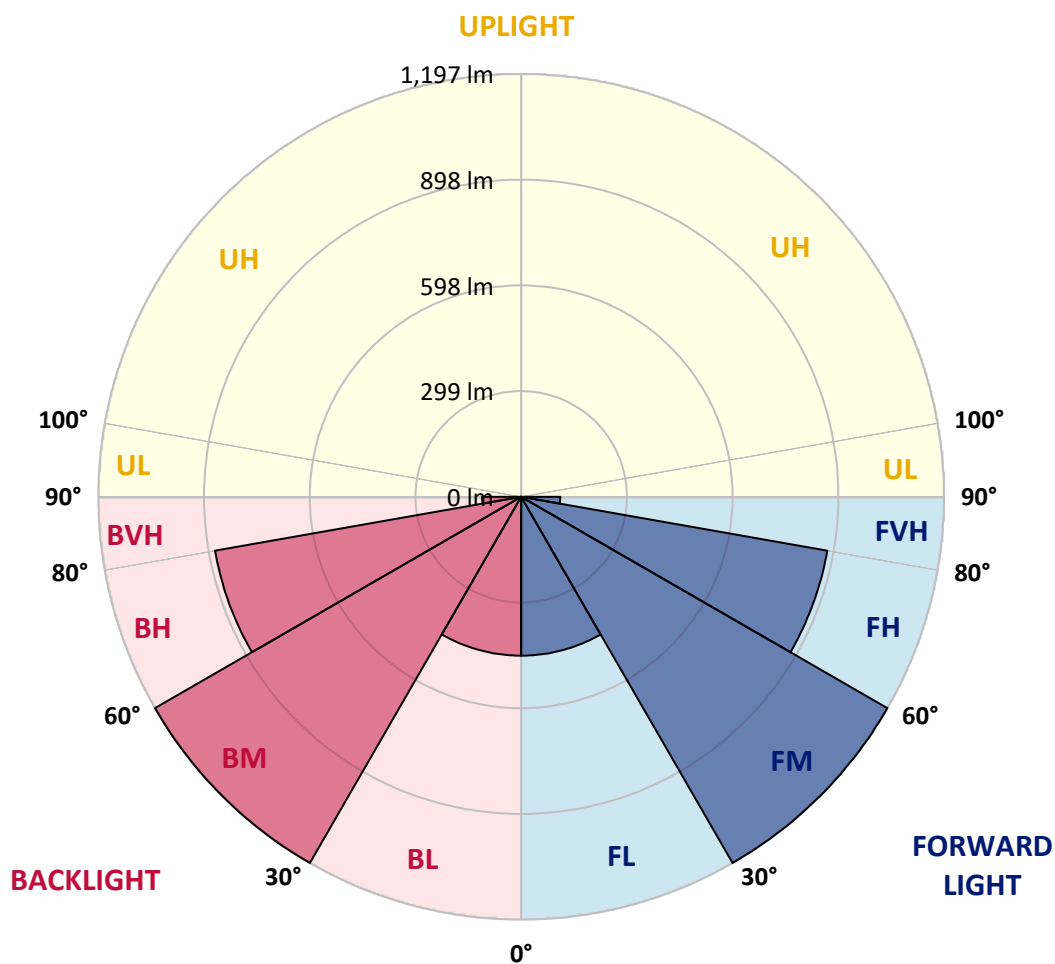
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	449.6	8.5			
FM	(30°-60°)	1196.9	22.7			
FH	(60°-80°)	880.0	16.7			G1/1800
FVH	(80°-90°)	110.7	2.1			G2/225
BL	(0°-30°)	449.6	8.5	B1/500		
BM	(30°-60°)	1196.9	22.7	B2/2500		
BH	(60°-80°)	880.0	16.7	B2/1000		G1/1800
BVH	(80°-90°)	110.7	2.1			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°	1088.0	1088.0	1088.0	1088.0	1088.0	1088.0	1088.0	1088.0	1088.0	1088.0	1088.0
2.5°	1086.9	1086.9	1086.9	1088.0	1088.0	1088.0	1088.0	1088.0	1088.0	1088.0	1088.0
5°	1086.9	1086.9	1086.9	1086.9	1086.9	1086.9	1088.0	1088.0	1088.0	1088.0	1088.0
7.5°	1084.7	1084.7	1084.7	1084.7	1084.7	1085.8	1085.8	1085.8	1085.8	1085.8	1085.8
10°	1082.5	1082.5	1082.5	1082.5	1083.6	1083.6	1083.6	1083.6	1083.6	1083.6	1083.6
12.5°	1080.3	1080.3	1079.2	1080.3	1080.3	1080.3	1081.4	1081.4	1081.4	1081.4	1081.4
15°	1075.8	1075.8	1076.9	1076.9	1078.1	1078.1	1078.1	1078.1	1079.2	1079.2	1079.2
17.5°	1073.6	1073.6	1074.7	1075.8	1075.8	1076.9	1078.1	1078.1	1079.2	1079.2	1079.2
20°	1076.9	1076.9	1076.9	1078.1	1079.2	1080.3	1081.4	1082.5	1082.5	1083.6	1082.5
22.5°	1070.3	1070.3	1070.3	1071.4	1071.4	1071.4	1072.5	1073.6	1073.6	1074.7	1073.6
25°	1058.2	1058.2	1059.3	1059.3	1060.4	1060.4	1061.5	1061.5	1061.5	1062.6	1062.6
27.5°	1046.0	1044.9	1047.1	1047.1	1048.2	1048.2	1049.3	1050.4	1050.4	1050.4	1051.5
30°	1032.8	1032.8	1033.9	1033.9	1035.0	1036.1	1037.2	1038.3	1038.3	1039.4	1039.4
32.5°	1018.4	1019.5	1020.6	1021.7	1022.8	1025.0	1026.1	1027.2	1028.3	1029.5	1028.3
35°	1008.5	1009.6	1010.7	1012.9	1016.2	1018.4	1020.6	1022.8	1023.9	1023.9	1023.9
37.5°	1010.7	1011.8	1014.0	1018.4	1023.9	1027.2	1031.7	1035.0	1036.1	1037.2	1037.2
40°	1022.8	1025.0	1028.3	1033.9	1040.5	1046.0	1052.6	1056.0	1058.2	1059.3	1058.2
42.5°	1021.7	1025.0	1028.3	1035.0	1042.7	1048.2	1054.9	1058.2	1060.4	1061.5	1060.4
45°	1018.4	1020.6	1023.9	1030.6	1036.1	1043.8	1050.4	1053.8	1057.1	1058.2	1057.1
47.5°	1010.7	1010.7	1011.8	1018.4	1026.1	1036.1	1041.6	1047.1	1050.4	1050.4	1050.4
50°	1000.7	1005.2	1007.4	1016.2	1023.9	1032.8	1042.7	1050.4	1051.5	1052.6	1051.5
52.5°	1000.7	1001.8	1009.6	1015.1	1030.6	1043.8	1053.8	1061.5	1068.1	1069.2	1069.2
55°	1018.4	1020.6	1025.0	1038.3	1050.4	1070.3	1086.9	1093.5	1097.9	1102.4	1097.9
57.5°	1019.5	1027.2	1035.0	1050.4	1069.2	1085.8	1100.1	1112.3	1115.6	1123.3	1114.5
60°	1006.3	1008.5	1016.2	1035.0	1059.3	1076.9	1090.2	1101.2	1112.3	1107.9	1112.3
62.5°	985.3	990.8	1001.8	1016.2	1036.1	1057.1	1076.9	1080.3	1096.8	1092.4	1099.0
65°	968.7	973.1	984.2	1005.2	1029.5	1042.7	1064.8	1078.1	1076.9	1085.8	1075.8
67.5°	927.8	931.1	941.1	962.1	985.3	1005.2	1011.8	1032.8	1035.0	1047.1	1036.1
70°	860.5	868.2	882.5	902.4	921.2	937.8	949.9	961.0	967.6	969.8	967.6
72.5°	776.5	788.7	799.7	818.5	837.3	848.3	856.0	871.5	875.9	882.5	880.3
75°	690.4	690.4	701.4	715.8	730.1	736.7	741.2	751.1	756.6	764.4	757.7
77.5°	572.2	578.8	588.7	600.9	598.7	602.0	602.0	607.5	605.3	610.8	615.2
80°	448.5	455.1	463.9	472.8	471.6	463.9	469.4	462.8	460.6	461.7	465.0
82.5°	320.3	324.7	332.5	338.0	338.0	332.5	334.7	328.1	330.3	324.7	329.2
85°	183.4	188.9	194.4	199.9	199.9	196.6	199.9	191.1	192.2	192.2	192.2
87.5°	45.3	49.7	51.9	55.2	53.0	58.5	61.9	56.3	57.4	55.2	58.5
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°	1088.0	1088.0	1088.0	1088.0	1088.0	1088.0	1088.0	1088.0
2.5°	1088.0	1086.9	1088.0	1088.0	1088.0	1088.0	1086.9	1086.9
5°	1088.0	1088.0	1088.0	1086.9	1086.9	1086.9	1086.9	1086.9
7.5°	1085.8	1085.8	1085.8	1084.7	1084.7	1084.7	1084.7	1084.7
10°	1083.6	1083.6	1082.5	1082.5	1082.5	1082.5	1082.5	1082.5
12.5°	1081.4	1081.4	1080.3	1080.3	1080.3	1080.3	1080.3	1079.2
15°	1079.2	1079.2	1078.1	1078.1	1076.9	1076.9	1075.8	1075.8
17.5°	1079.2	1078.1	1076.9	1075.8	1075.8	1074.7	1073.6	1073.6
20°	1082.5	1081.4	1080.3	1079.2	1078.1	1076.9	1076.9	1075.8
22.5°	1073.6	1072.5	1071.4	1071.4	1070.3	1070.3	1070.3	1069.2
25°	1062.6	1061.5	1061.5	1059.3	1059.3	1058.2	1058.2	1057.1
27.5°	1050.4	1049.3	1049.3	1048.2	1047.1	1046.0	1044.9	1044.9
30°	1038.3	1037.2	1037.2	1036.1	1033.9	1033.9	1032.8	1031.7
32.5°	1027.2	1027.2	1026.1	1023.9	1021.7	1020.6	1018.4	1018.4
35°	1023.9	1021.7	1019.5	1016.2	1012.9	1010.7	1009.6	1008.5
37.5°	1036.1	1032.8	1027.2	1023.9	1019.5	1015.1	1012.9	1010.7
40°	1057.1	1051.5	1046.0	1040.5	1033.9	1028.3	1023.9	1022.8
42.5°	1058.2	1054.9	1049.3	1042.7	1035.0	1028.3	1023.9	1022.8
45°	1054.9	1050.4	1043.8	1036.1	1030.6	1022.8	1019.5	1018.4
47.5°	1047.1	1042.7	1036.1	1025.0	1017.3	1011.8	1010.7	1010.7
50°	1051.5	1042.7	1031.7	1025.0	1017.3	1008.5	1005.2	1002.9
52.5°	1061.5	1052.6	1046.0	1031.7	1015.1	1007.4	1002.9	999.6
55°	1093.5	1089.1	1069.2	1049.3	1037.2	1027.2	1022.8	1020.6
57.5°	1114.5	1099.0	1082.5	1069.2	1054.9	1038.3	1027.2	1021.7
60°	1103.5	1086.9	1079.2	1061.5	1031.7	1014.0	1007.4	1004.0
62.5°	1079.2	1079.2	1058.2	1030.6	1019.5	1004.0	991.9	987.5
65°	1078.1	1063.7	1042.7	1032.8	1006.3	983.1	970.9	968.7
67.5°	1031.7	1011.8	1006.3	984.2	962.1	941.1	932.3	927.8
70°	961.0	954.3	937.8	923.4	903.5	881.4	869.3	864.9
72.5°	871.5	860.5	852.7	840.6	821.8	794.2	784.2	778.7
75°	750.0	744.5	744.5	731.2	713.5	697.0	695.9	693.7
77.5°	603.1	605.3	610.8	596.5	602.0	593.1	585.4	579.9
80°	458.4	468.3	469.4	472.8	476.1	463.9	458.4	451.8
82.5°	325.8	331.4	338.0	339.1	341.3	332.5	328.1	321.4
85°	192.2	195.5	201.0	201.0	201.0	193.3	191.1	185.6
87.5°	56.3	56.3	59.6	56.3	56.3	56.3	50.8	54.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)