

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: P197539

Luminaire Tested: **TT-C2-LED-E1-CQ-MS/DIM-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P197539
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P115423)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: TT-C2-LED-E1-CQ-MS/DIM-7050
Description: TOPTIER LED PARKING GARAGE LUMINAIRE
CONCENTRATED DISTRIBUTION WITH DIMMING OCCUPANCY SENSOR
Light Source: (168) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4474.2 lumens
Efficiency: N/A
Efficacy: 131.6 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): 34
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

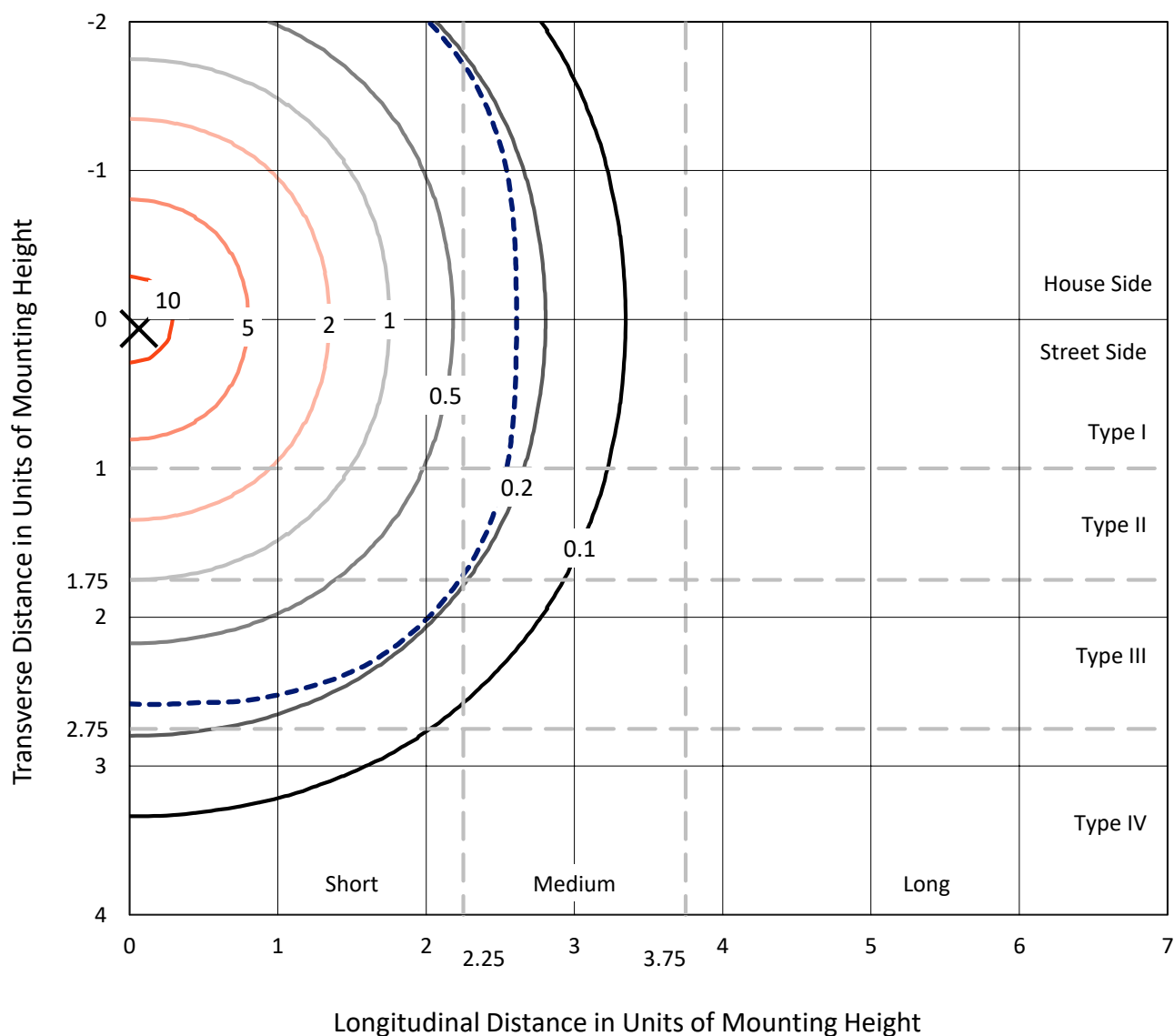


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

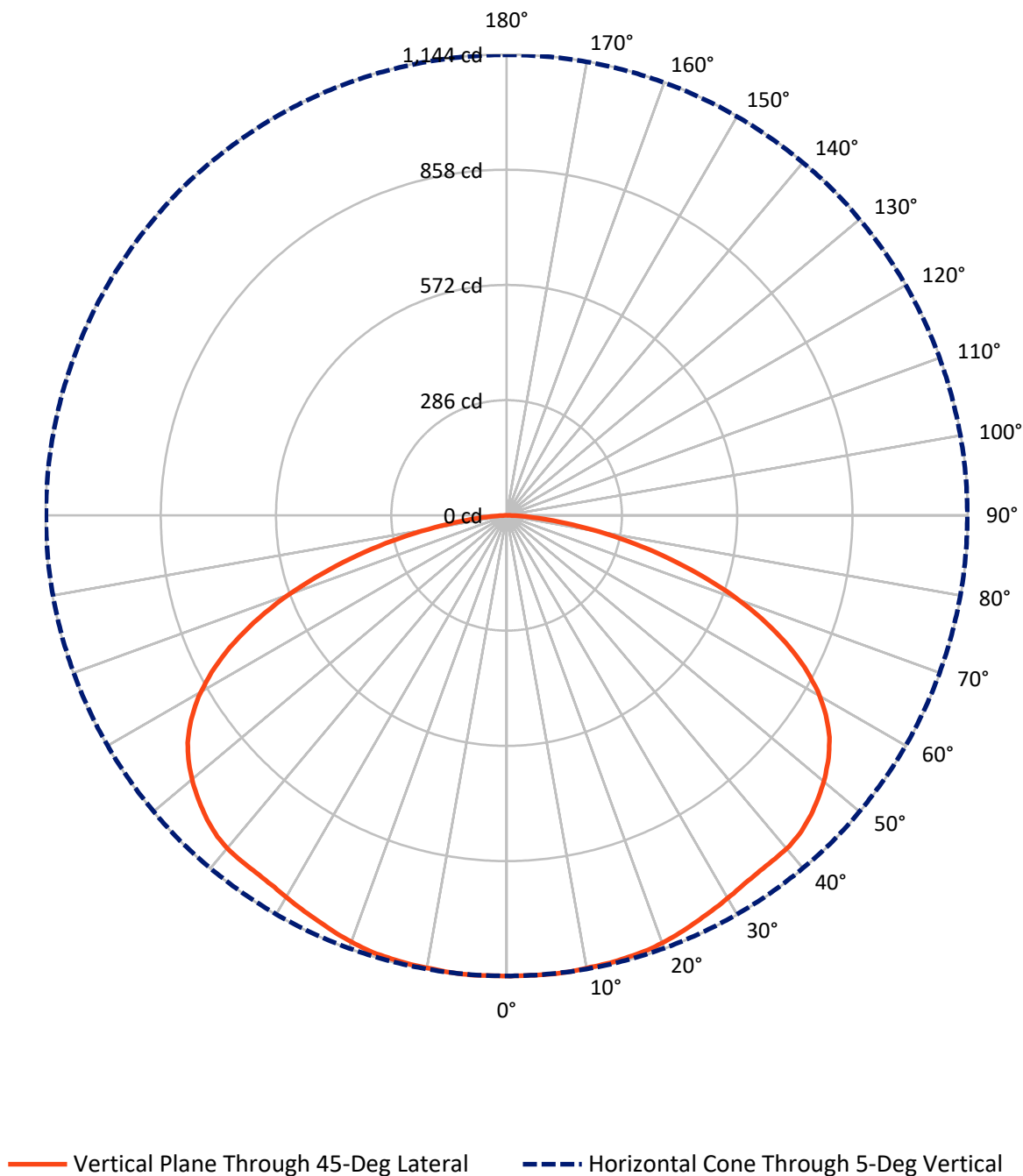


Based on 10 foot mounting height. Maximum calculated value = 11.4 fc
 Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



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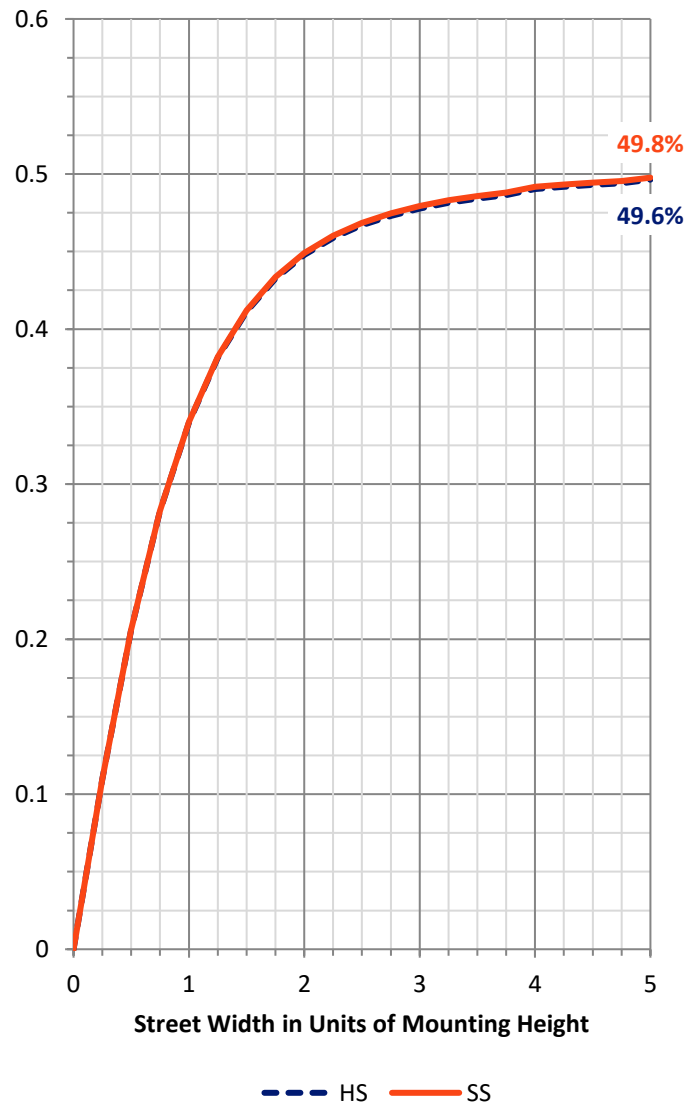
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2237.1	0.0	2237.1
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2237.1	0.0	2237.1
	% Fixture	50.0	0.0	50.0
Total	Lumens	4474.2	0.0	4474.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	109.0	2.4
10°-20°	321.6	7.2
20°-30°	513.2	11.5
30°-40°	676.0	15.1
40°-50°	804.1	18.0
50°-60°	841.5	18.8
60°-70°	715.6	16.0
70°-80°	406.7	9.1
80°-90°	86.5	1.9
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°	4474.2	100.0
0°-180°	4474.2	100.0

Coefficient of Utilization



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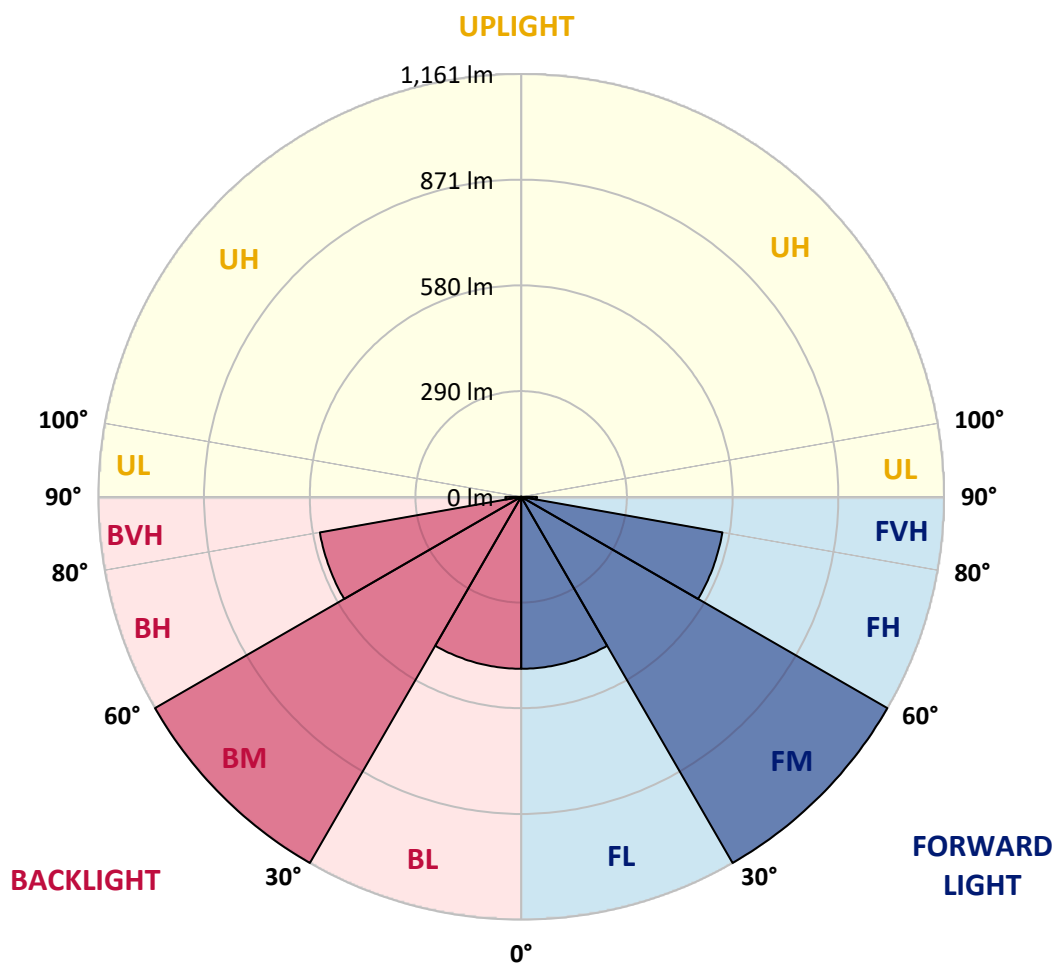
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	471.9	10.5			
FM	(30°-60°)	1160.8	25.9			
FH	(60°-80°)	561.2	12.5			G0/660
FVH	(80°-90°)	43.2	1.0			G1/100
BL	(0°-30°)	471.9	10.5	B1/500		
BM	(30°-60°)	1160.8	25.9	B2/2500		
BH	(60°-80°)	561.2	12.5	B2/1000		G0/660
BVH	(80°-90°)	43.2	1.0			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°	50°
0°	1143.1	1143.1	1143.1	1143.1	1143.1	1143.1	1143.1	1143.1	1143.1	1143.1	1143.1
2.5°	1143.1	1143.1	1143.1	1143.1	1143.1	1143.1	1143.1	1143.1	1143.1	1143.1	1143.1
5°	1143.1	1143.1	1143.1	1143.1	1143.1	1143.1	1143.1	1143.1	1143.1	1144.0	1143.1
7.5°	1142.2	1142.2	1142.2	1142.2	1143.1	1142.2	1142.2	1143.1	1143.1	1143.1	1143.1
10°	1140.5	1139.6	1139.6	1140.5	1140.5	1140.5	1140.5	1140.5	1141.4	1140.5	1140.5
12.5°	1137.8	1137.0	1137.8	1137.8	1137.8	1138.7	1138.7	1138.7	1139.6	1139.6	1138.7
15°	1135.2	1135.2	1135.2	1135.2	1135.2	1136.1	1136.1	1137.0	1137.0	1137.0	1137.0
17.5°	1131.7	1131.7	1131.7	1132.5	1132.5	1133.4	1133.4	1133.4	1134.3	1134.3	1134.3
20°	1125.5	1124.6	1125.5	1125.5	1126.4	1127.3	1127.3	1128.1	1128.1	1128.1	1128.1
22.5°	1116.7	1116.7	1117.6	1117.6	1118.4	1119.3	1119.3	1120.2	1120.2	1120.2	1120.2
25°	1107.8	1108.7	1108.7	1109.6	1109.6	1110.5	1111.4	1111.4	1111.4	1111.4	1111.4
27.5°	1099.0	1099.9	1099.9	1099.9	1100.8	1101.7	1102.6	1103.4	1104.3	1103.4	1103.4
30°	1089.3	1089.3	1090.2	1091.1	1092.0	1092.9	1094.6	1095.5	1096.4	1095.5	1095.5
32.5°	1078.7	1079.6	1080.5	1081.4	1083.2	1084.9	1086.7	1087.6	1088.4	1087.6	1087.6
35°	1070.8	1070.8	1072.6	1074.3	1076.1	1078.7	1080.5	1082.3	1084.0	1083.2	1082.3
37.5°	1062.9	1062.9	1064.6	1067.3	1070.8	1074.3	1077.9	1080.5	1081.4	1081.4	1080.5
40°	1053.2	1054.0	1055.8	1060.2	1065.5	1069.9	1074.3	1077.9	1079.6	1079.6	1077.9
42.5°	1042.6	1043.5	1046.1	1050.5	1056.7	1062.0	1067.3	1069.9	1072.6	1072.6	1070.8
45°	1027.6	1028.5	1032.0	1036.4	1042.6	1047.9	1054.0	1056.7	1060.2	1059.3	1058.5
47.5°	1008.2	1009.1	1012.6	1017.0	1023.2	1029.3	1035.5	1039.9	1042.6	1042.6	1041.7
50°	984.4	985.2	988.8	993.2	1001.1	1008.2	1014.4	1018.8	1023.2	1023.2	1022.3
52.5°	954.4	956.1	958.8	965.0	973.8	981.7	989.7	996.7	999.4	1000.2	999.4
55°	917.3	919.1	922.6	929.7	939.4	949.1	957.9	965.8	969.4	972.0	970.3
57.5°	874.1	875.9	880.3	888.2	898.8	908.5	920.0	928.8	931.4	934.1	933.2
60°	822.9	825.6	830.0	838.8	849.4	860.0	870.6	881.2	883.8	887.3	885.6
62.5°	763.0	765.6	770.0	779.7	791.2	800.9	813.2	822.9	825.6	829.1	828.2
65°	694.2	696.8	701.2	711.8	722.4	733.0	744.4	755.0	757.7	761.2	760.3
67.5°	615.7	618.3	622.7	635.1	645.7	656.2	665.9	676.5	678.3	681.8	680.9
70°	532.8	536.3	539.8	551.3	561.0	569.8	580.4	589.2	592.7	594.5	592.7
72.5°	449.8	452.5	456.0	464.0	471.0	479.0	489.5	495.7	498.4	499.2	499.2
75°	364.3	366.9	366.9	375.8	381.0	385.5	394.3	398.7	400.4	402.2	402.2
77.5°	283.1	281.4	283.1	286.7	290.2	293.7	299.0	301.7	303.4	307.0	305.2
80°	198.5	199.3	200.2	202.9	204.6	205.5	209.0	209.9	210.8	214.3	212.6
82.5°	127.9	126.1	127.9	127.0	128.8	126.1	127.9	130.5	128.8	130.5	131.4
85°	67.0	64.4	64.4	65.3	66.2	64.4	65.3	64.4	64.4	66.2	65.3
87.5°	21.2	20.3	21.2	20.3	21.2	20.3	21.2	22.1	21.2	21.2	22.1
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°	1143.1	1143.1	1143.1	1143.1	1143.1	1143.1	1143.1	1143.1
2.5°	1143.1	1143.1	1143.1	1143.1	1143.1	1143.1	1143.1	1143.1
5°	1143.1	1143.1	1143.1	1143.1	1143.1	1143.1	1143.1	1143.1
7.5°	1142.2	1142.2	1142.2	1142.2	1142.2	1142.2	1141.4	1142.2
10°	1140.5	1140.5	1140.5	1140.5	1139.6	1139.6	1139.6	1139.6
12.5°	1138.7	1138.7	1137.8	1137.8	1137.8	1137.8	1137.0	1137.0
15°	1137.0	1136.1	1136.1	1135.2	1135.2	1135.2	1134.3	1135.2
17.5°	1134.3	1133.4	1133.4	1132.5	1132.5	1131.7	1131.7	1131.7
20°	1128.1	1127.3	1127.3	1126.4	1126.4	1125.5	1124.6	1124.6
22.5°	1119.3	1119.3	1119.3	1118.4	1117.6	1117.6	1116.7	1116.7
25°	1111.4	1110.5	1110.5	1109.6	1108.7	1108.7	1107.8	1107.8
27.5°	1103.4	1102.6	1101.7	1099.9	1099.9	1099.0	1098.1	1097.3
30°	1094.6	1092.9	1091.1	1090.2	1089.3	1087.6	1086.7	1085.8
32.5°	1085.8	1084.0	1082.3	1080.5	1077.9	1077.0	1075.2	1075.2
35°	1080.5	1077.9	1075.2	1071.7	1069.0	1066.4	1064.6	1063.7
37.5°	1077.9	1074.3	1069.9	1065.5	1061.1	1057.6	1054.9	1054.9
40°	1074.3	1069.9	1064.6	1058.5	1053.2	1048.8	1046.1	1045.2
42.5°	1067.3	1062.9	1055.8	1050.5	1043.5	1039.0	1035.5	1034.6
45°	1054.9	1050.5	1044.3	1037.3	1030.2	1024.9	1021.4	1020.5
47.5°	1039.0	1033.8	1026.7	1019.6	1012.6	1006.4	1002.9	1002.0
50°	1018.8	1013.5	1006.4	999.4	991.4	985.2	980.8	980.8
52.5°	995.8	989.7	981.7	973.8	965.0	958.8	954.4	953.5
55°	965.8	958.8	950.8	942.0	932.3	925.3	920.0	919.1
57.5°	928.8	920.9	912.0	902.3	892.6	884.7	878.5	877.6
60°	882.0	873.2	864.4	854.7	844.1	835.3	829.1	827.4
62.5°	824.7	815.0	805.3	796.5	785.0	776.2	770.0	768.3
65°	756.8	748.9	739.2	728.6	716.2	707.4	701.2	700.3
67.5°	677.4	669.5	659.8	650.1	637.7	629.8	623.6	621.8
70°	590.1	583.0	575.1	565.4	554.8	546.9	540.7	539.8
72.5°	497.5	491.3	484.2	477.2	466.6	460.4	455.1	454.3
75°	402.2	396.0	390.7	385.5	377.5	373.1	367.8	367.8
77.5°	305.2	303.4	299.9	293.7	289.3	285.8	283.1	281.4
80°	213.5	211.7	209.9	206.4	203.8	202.9	201.1	199.3
82.5°	130.5	129.7	130.5	128.8	127.9	127.9	127.0	125.3
85°	66.2	67.0	66.2	65.3	65.3	65.3	65.3	64.4
87.5°	21.2	22.1	21.2	20.3	20.3	20.3	20.3	19.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)