

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: P197592

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P197592
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-7060
Description: TOPTIER LED PARKING GARAGE LUMINAIRE
MEDIUM DISTRIBUTION WITH LumaWatt WIRELESS SENSOR
Light Source: (168) 5700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5154.9 lumens
Efficiency: N/A
Efficacy: 114.6 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



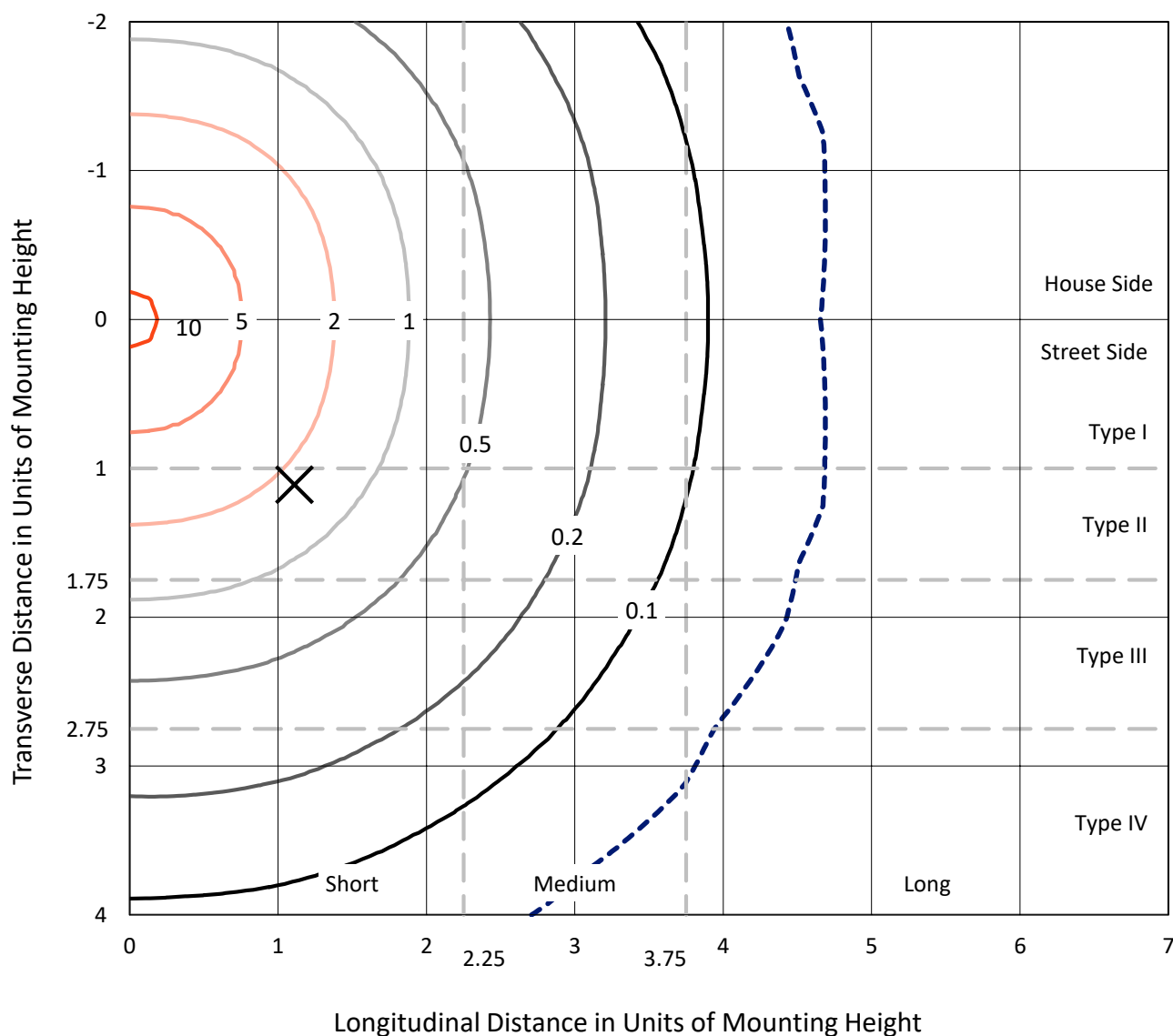
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

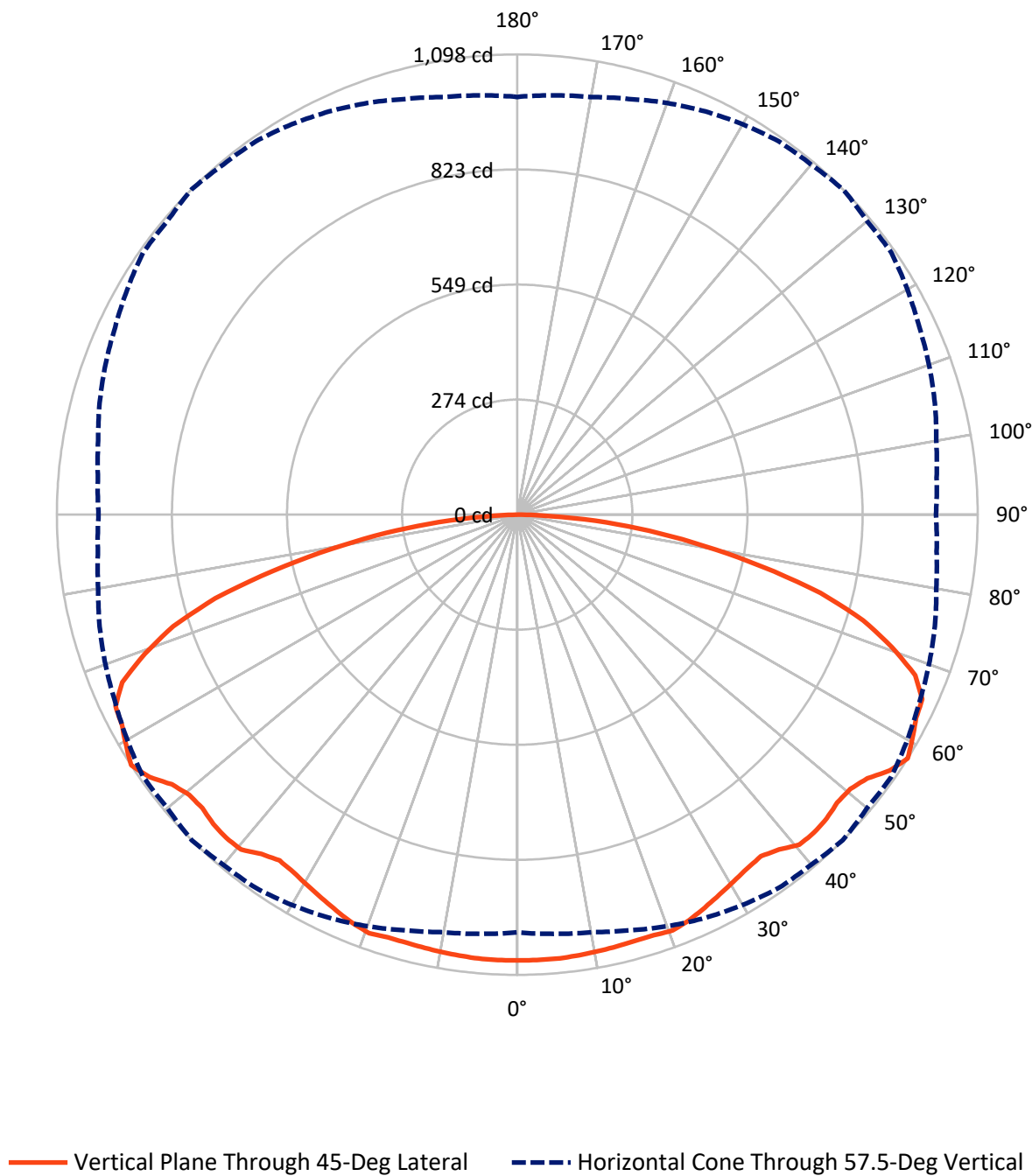


Based on 10 foot mounting height. Maximum calculated value = 10.6 fc
 Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



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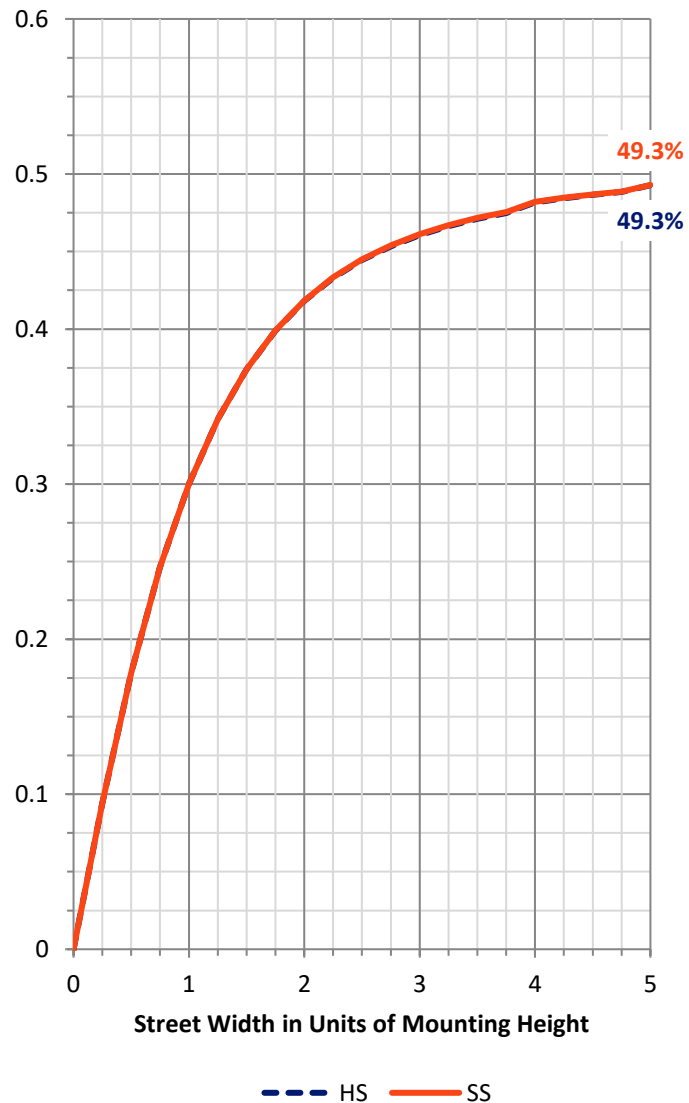
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2577.4	0.0	2577.4
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2577.4	0.0	2577.4
	% Fixture	50.0	0.0	50.0
Total	Lumens	5154.9	0.0	5154.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	101.3	2.0
10°-20°	298.9	5.8
20°-30°	478.7	9.3
30°-40°	630.1	12.2
40°-50°	784.9	15.2
50°-60°	924.5	17.9
60°-70°	982.9	19.1
70°-80°	737.1	14.3
80°-90°	216.5	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°	5154.9	100.0
0°-180°	5154.9	100.0

Coefficient of Utilization



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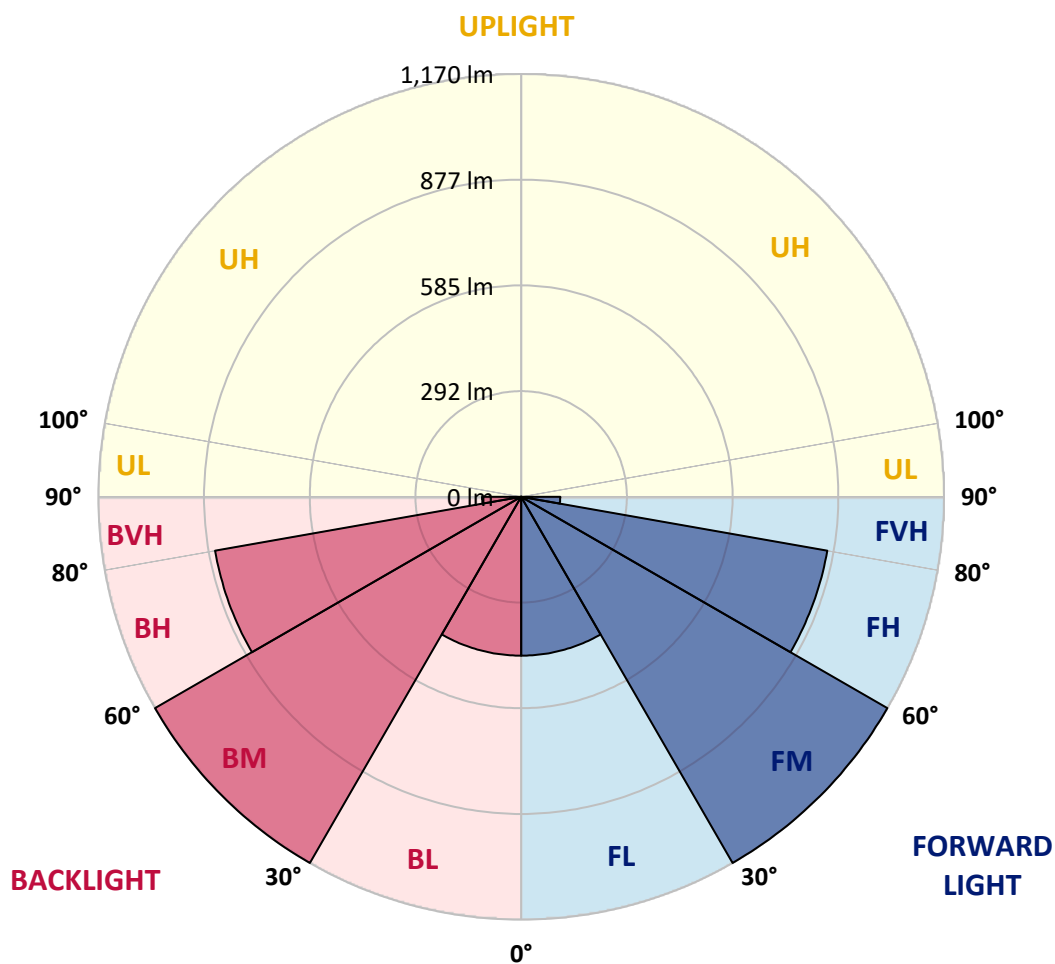
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	439.4	8.5			
FM	(30°-60°)	1169.8	22.7			
FH	(60°-80°)	860.0	16.7			G1/1800
FVH	(80°-90°)	108.2	2.1			G2/225
BL	(0°-30°)	439.4	8.5	B1/500		
BM	(30°-60°)	1169.8	22.7	B2/2500		
BH	(60°-80°)	860.0	16.7	B2/1000		G1/1800
BVH	(80°-90°)	108.2	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°	1063.3	1063.3	1063.3	1063.3	1063.3	1063.3	1063.3	1063.3	1063.3	1063.3	1063.3
2.5°	1062.2	1062.2	1062.2	1063.3	1063.3	1063.3	1063.3	1063.3	1063.3	1063.3	1063.3
5°	1062.2	1062.2	1062.2	1062.2	1062.2	1062.2	1063.3	1063.3	1063.3	1063.3	1063.3
7.5°	1060.1	1060.1	1060.1	1060.1	1060.1	1061.2	1061.2	1061.2	1061.2	1061.2	1061.2
10°	1057.9	1057.9	1057.9	1057.9	1059.0	1059.0	1059.0	1059.0	1059.0	1059.0	1059.0
12.5°	1055.8	1055.8	1054.7	1055.8	1055.8	1055.8	1056.8	1056.8	1056.8	1056.8	1056.8
15°	1051.4	1051.4	1052.5	1052.5	1053.6	1053.6	1053.6	1053.6	1054.7	1054.7	1054.7
17.5°	1049.3	1049.3	1050.4	1051.4	1051.4	1052.5	1053.6	1053.6	1054.7	1054.7	1054.7
20°	1052.5	1052.5	1052.5	1053.6	1054.7	1055.8	1056.8	1057.9	1057.9	1059.0	1057.9
22.5°	1046.0	1046.0	1046.0	1047.1	1047.1	1047.1	1048.2	1049.3	1049.3	1050.4	1049.3
25°	1034.2	1034.2	1035.3	1035.3	1036.3	1036.3	1037.4	1037.4	1037.4	1038.5	1038.5
27.5°	1022.3	1021.2	1023.4	1023.4	1024.5	1024.5	1025.5	1026.6	1026.6	1026.6	1027.7
30°	1009.3	1009.3	1010.4	1010.4	1011.5	1012.6	1013.7	1014.7	1014.7	1015.8	1015.8
32.5°	995.3	996.4	997.5	998.5	999.6	1001.8	1002.9	1003.9	1005.0	1006.1	1005.0
35°	985.6	986.7	987.8	989.9	993.1	995.3	997.5	999.6	1000.7	1000.7	1000.7
37.5°	987.8	988.8	991.0	995.3	1000.7	1003.9	1008.3	1011.5	1012.6	1013.7	1013.7
40°	999.6	1001.8	1005.0	1010.4	1016.9	1022.3	1028.8	1032.0	1034.2	1035.3	1034.2
42.5°	998.5	1001.8	1005.0	1011.5	1019.1	1024.5	1030.9	1034.2	1036.3	1037.4	1036.3
45°	995.3	997.5	1000.7	1007.2	1012.6	1020.1	1026.6	1029.9	1033.1	1034.2	1033.1
47.5°	987.8	987.8	988.8	995.3	1002.9	1012.6	1018.0	1023.4	1026.6	1026.6	1026.6
50°	978.0	982.4	984.5	993.1	1000.7	1009.3	1019.1	1026.6	1027.7	1028.8	1027.7
52.5°	978.0	979.1	986.7	992.1	1007.2	1020.1	1029.9	1037.4	1043.9	1045.0	1045.0
55°	995.3	997.5	1001.8	1014.7	1026.6	1046.0	1062.2	1068.7	1073.0	1077.4	1073.0
57.5°	996.4	1003.9	1011.5	1026.6	1045.0	1061.2	1075.2	1087.1	1090.3	1097.9	1089.2
60°	983.4	985.6	993.1	1011.5	1035.3	1052.5	1065.5	1076.3	1087.1	1082.7	1087.1
62.5°	962.9	968.3	979.1	993.1	1012.6	1033.1	1052.5	1055.8	1072.0	1067.6	1074.1
65°	946.7	951.0	961.8	982.4	1006.1	1019.1	1040.6	1053.6	1052.5	1061.2	1051.4
67.5°	906.8	910.0	919.7	940.3	962.9	982.4	988.8	1009.3	1011.5	1023.4	1012.6
70°	840.9	848.5	862.5	882.0	900.3	916.5	928.4	939.2	945.7	947.8	945.7
72.5°	758.9	770.8	781.6	799.9	818.3	829.1	836.6	851.7	856.1	862.5	860.4
75°	674.7	674.7	685.5	699.5	713.6	720.0	724.4	734.1	739.5	747.0	740.5
77.5°	559.2	565.7	575.4	587.3	585.1	588.3	588.3	593.7	591.6	597.0	601.3
80°	438.3	444.8	453.4	462.0	461.0	453.4	458.8	452.3	450.2	451.2	454.5
82.5°	313.1	317.4	324.9	330.3	330.3	324.9	327.1	320.6	322.8	317.4	321.7
85°	179.2	184.6	190.0	195.4	195.4	192.2	195.4	186.8	187.8	187.8	187.8
87.5°	44.3	48.6	50.7	54.0	51.8	57.2	60.5	55.1	56.1	54.0	57.2
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°	1063.3	1063.3	1063.3	1063.3	1063.3	1063.3	1063.3	1063.3
2.5°	1063.3	1062.2	1063.3	1063.3	1063.3	1063.3	1062.2	1062.2
5°	1063.3	1063.3	1063.3	1062.2	1062.2	1062.2	1062.2	1062.2
7.5°	1061.2	1061.2	1061.2	1060.1	1060.1	1060.1	1060.1	1060.1
10°	1059.0	1059.0	1057.9	1057.9	1057.9	1057.9	1057.9	1057.9
12.5°	1056.8	1056.8	1055.8	1055.8	1055.8	1055.8	1055.8	1054.7
15°	1054.7	1054.7	1053.6	1053.6	1052.5	1052.5	1051.4	1051.4
17.5°	1054.7	1053.6	1052.5	1051.4	1051.4	1050.4	1049.3	1049.3
20°	1057.9	1056.8	1055.8	1054.7	1053.6	1052.5	1052.5	1051.4
22.5°	1049.3	1048.2	1047.1	1047.1	1046.0	1046.0	1046.0	1045.0
25°	1038.5	1037.4	1037.4	1035.3	1035.3	1034.2	1034.2	1033.1
27.5°	1026.6	1025.5	1025.5	1024.5	1023.4	1022.3	1021.2	1021.2
30°	1014.7	1013.7	1013.7	1012.6	1010.4	1010.4	1009.3	1008.3
32.5°	1003.9	1003.9	1002.9	1000.7	998.5	997.5	995.3	995.3
35°	1000.7	998.5	996.4	993.1	989.9	987.8	986.7	985.6
37.5°	1012.6	1009.3	1003.9	1000.7	996.4	992.1	989.9	987.8
40°	1033.1	1027.7	1022.3	1016.9	1010.4	1005.0	1000.7	999.6
42.5°	1034.2	1030.9	1025.5	1019.1	1011.5	1005.0	1000.7	999.6
45°	1030.9	1026.6	1020.1	1012.6	1007.2	999.6	996.4	995.3
47.5°	1023.4	1019.1	1012.6	1001.8	994.2	988.8	987.8	987.8
50°	1027.7	1019.1	1008.3	1001.8	994.2	985.6	982.4	980.2
52.5°	1037.4	1028.8	1022.3	1008.3	992.1	984.5	980.2	977.0
55°	1068.7	1064.4	1045.0	1025.5	1013.7	1003.9	999.6	997.5
57.5°	1089.2	1074.1	1057.9	1045.0	1030.9	1014.7	1003.9	998.5
60°	1078.4	1062.2	1054.7	1037.4	1008.3	991.0	984.5	981.3
62.5°	1054.7	1054.7	1034.2	1007.2	996.4	981.3	969.4	965.1
65°	1053.6	1039.6	1019.1	1009.3	983.4	960.8	948.9	946.7
67.5°	1008.3	988.8	983.4	961.8	940.3	919.7	911.1	906.8
70°	939.2	932.7	916.5	902.5	883.0	861.4	849.6	845.3
72.5°	851.7	840.9	833.4	821.5	803.2	776.2	766.5	761.1
75°	733.0	727.6	727.6	714.6	697.4	681.2	680.1	677.9
77.5°	589.4	591.6	597.0	582.9	588.3	579.7	572.1	566.7
80°	448.0	457.7	458.8	462.0	465.3	453.4	448.0	441.5
82.5°	318.5	323.9	330.3	331.4	333.6	324.9	320.6	314.1
85°	187.8	191.1	196.5	196.5	196.5	188.9	186.8	181.4
87.5°	55.1	55.1	58.3	55.1	55.1	55.1	49.7	52.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)