

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: P194389

Luminaire Tested: **GLEON-AF-01-LED-E1-SL2-7060-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P194389
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24287)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-01-LED-E1-SL2-7060-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 5700K, 1050mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5162 lumens
Efficiency: N/A
Efficacy: 87.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B1 - U0 - G2

Input Watts (W): 59
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

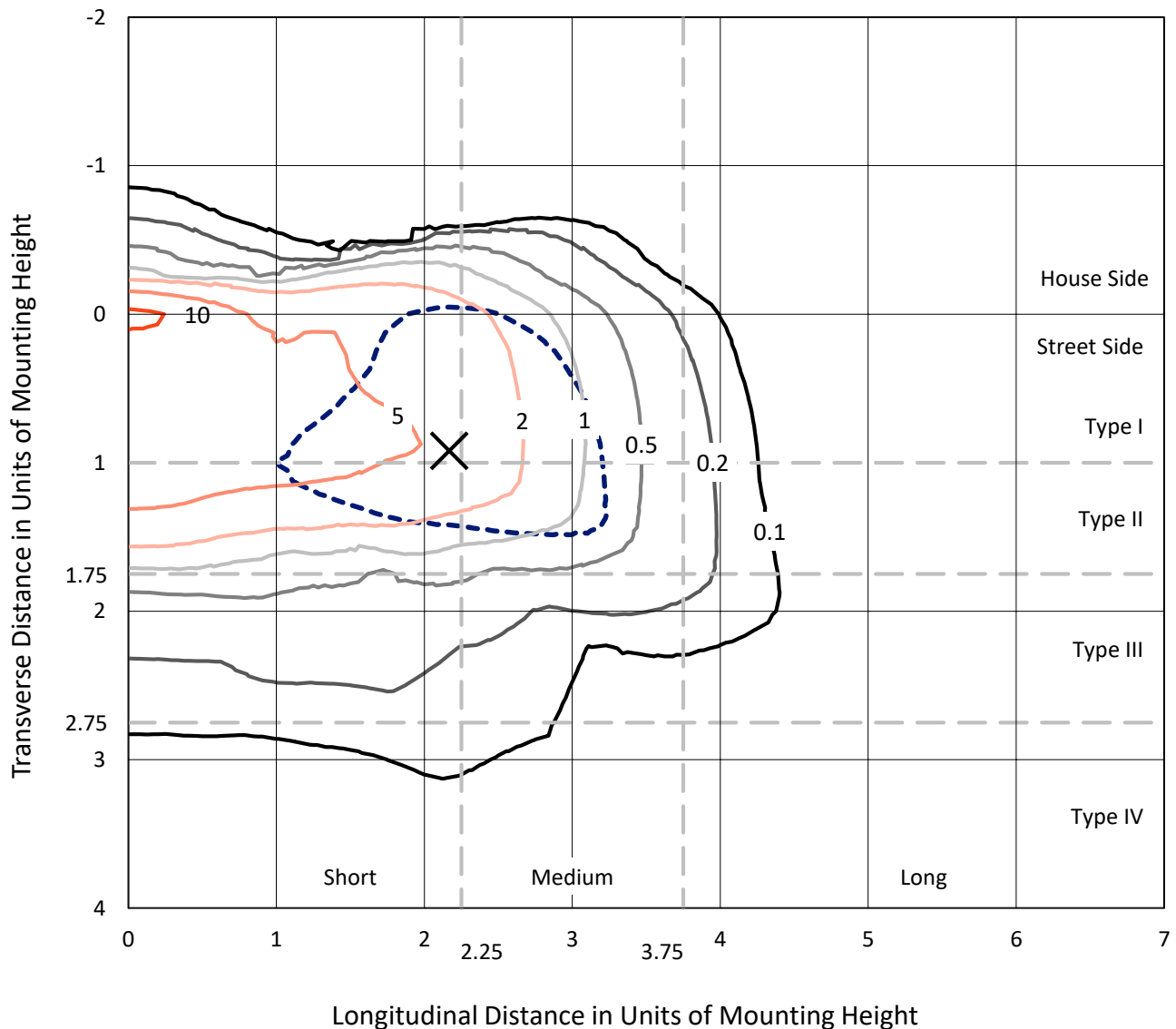


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

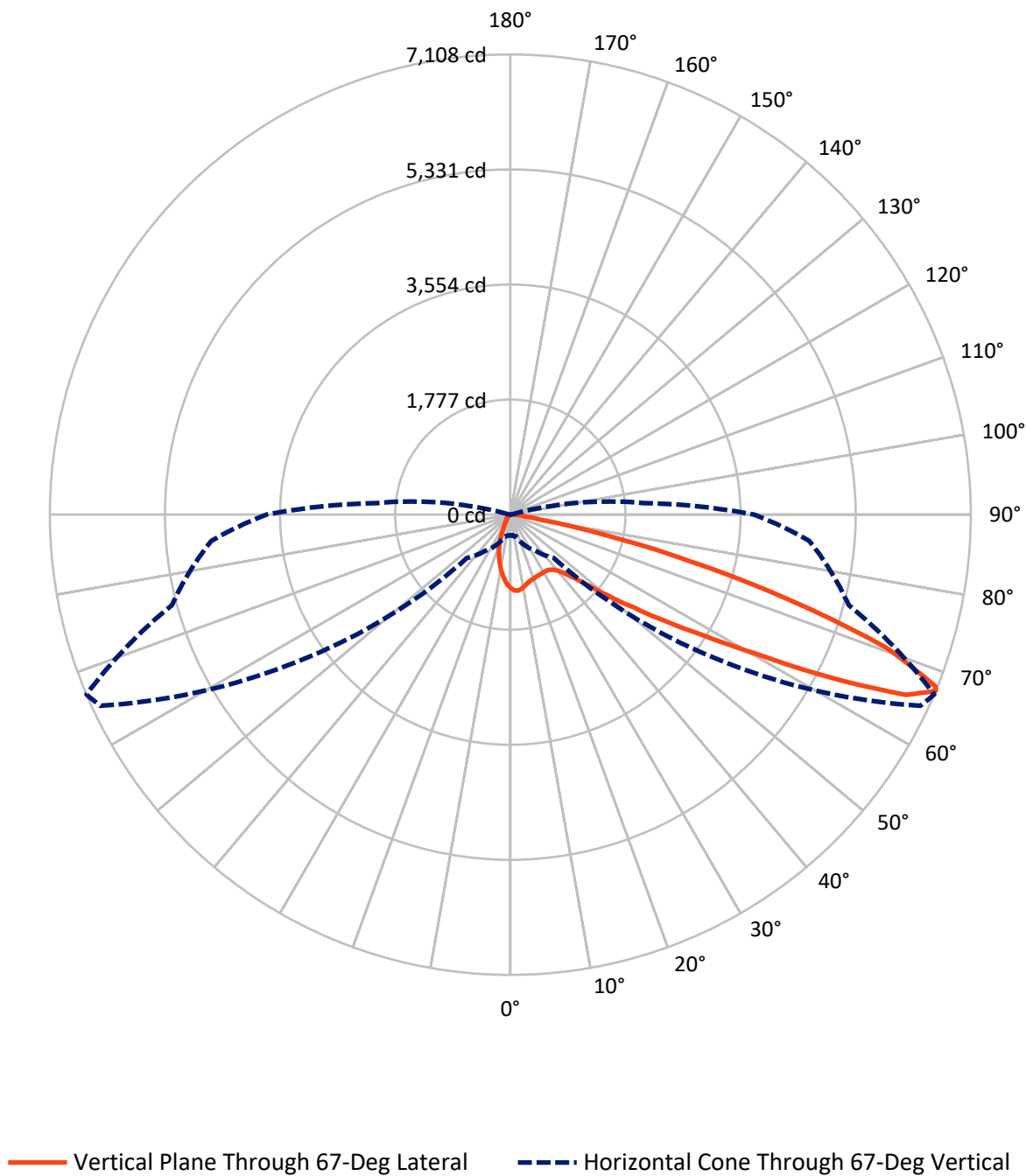


Based on 10 foot mounting height. Maximum calculated value = 11.4 fc
Type II - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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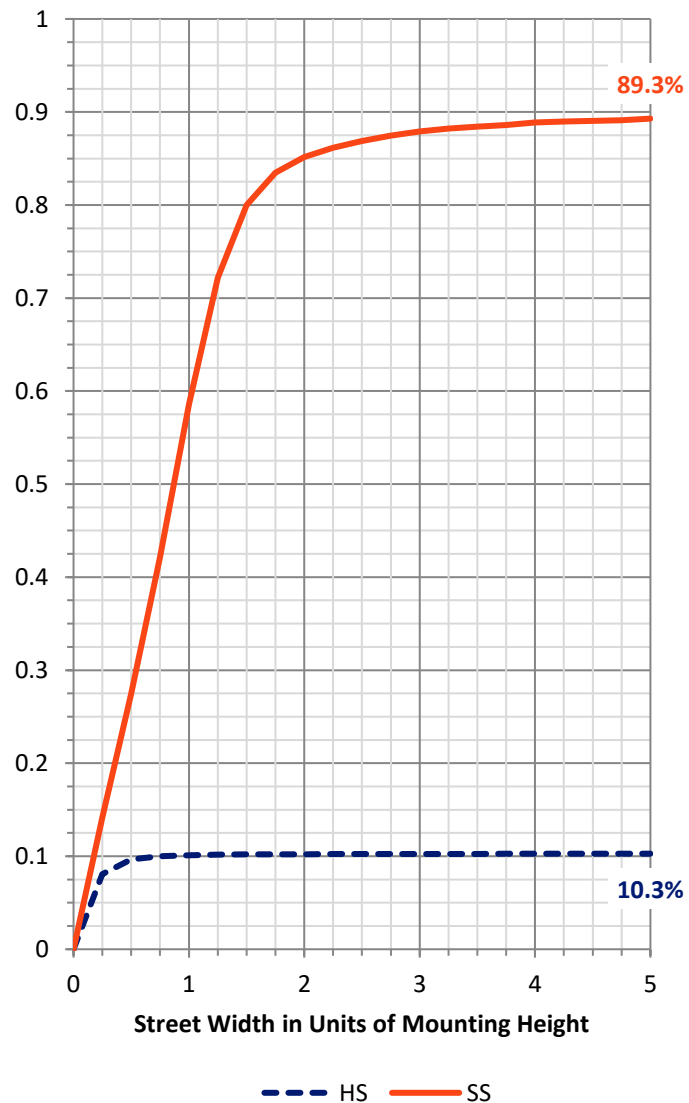
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	535.9	0.0	535.9
	% Fixture	10.4	0.0	10.4
Street Side	Lumens	4626.0	0.0	4626.0
	% Fixture	89.6	0.0	89.6
Total	Lumens	5162.0	0.0	5162.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	92.6	1.8
10°-20°	197.2	3.8
20°-30°	286.6	5.6
30°-40°	447.2	8.7
40°-50°	792.2	15.3
50°-60°	1253.5	24.3
60°-70°	1435.7	27.8
70°-80°	595.5	11.5
80°-90°	61.5	1.2
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°	5162.0	100.0
0°-180°	5162.0	100.0

Coefficient of Utilization



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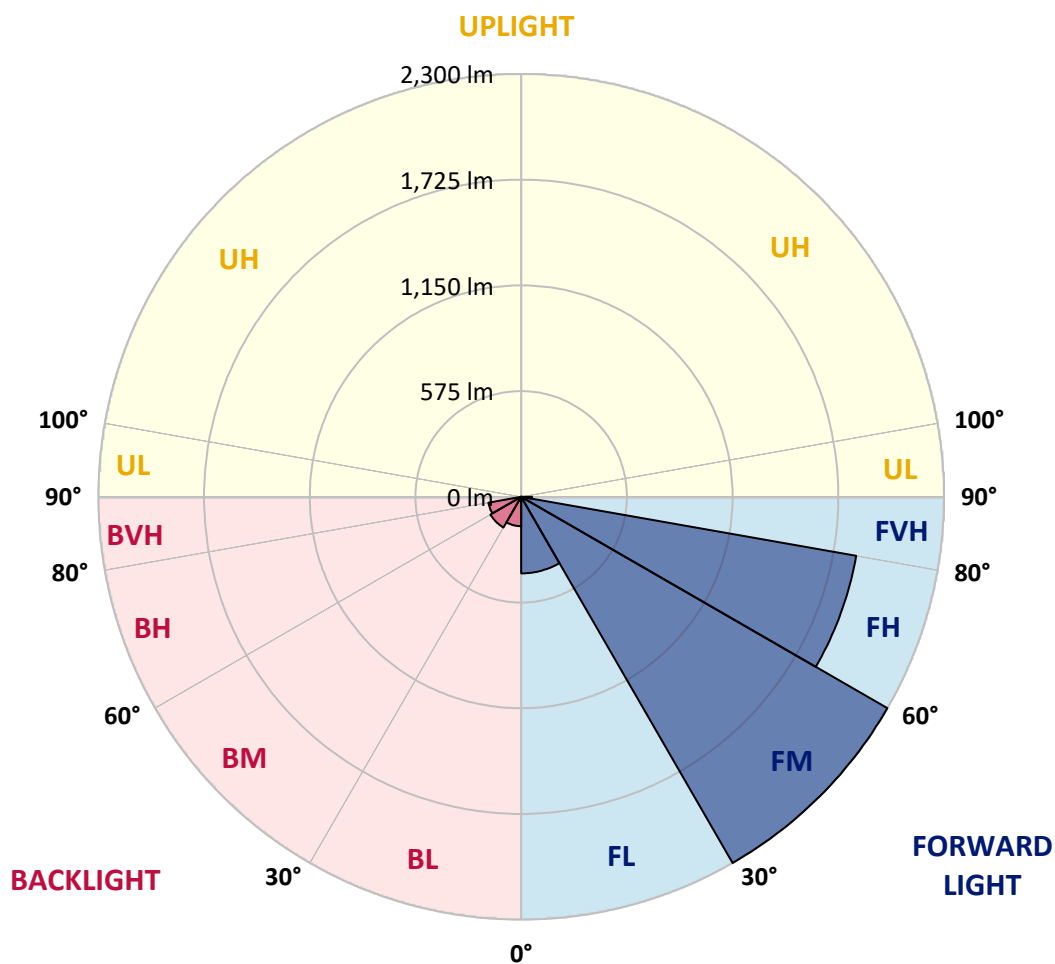
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	416.5	8.1			
FM	(30°-60°)	2300.2	44.6			
FH	(60°-80°)	1850.6	35.9			G2/5000
FVH	(80°-90°)	58.7	1.1			G1/100
BL	(0°-30°)	159.9	3.1	B1/500		
BM	(30°-60°)	192.6	3.7	B0/220		
BH	(60°-80°)	180.6	3.5	B1/500		G1/500
BVH	(80°-90°)	2.8	0.1			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	1138.4	1138.4	1138.4	1138.4	1138.4	1138.4	1138.4	1138.4	1138.4	1138.4	1138.4
2.5°	1177.0	1179.4	1179.1	1180.9	1185.1	1185.4	1181.2	1173.0	1171.2	1160.7	1142.3
5°	1085.4	1092.3	1096.6	1113.7	1133.0	1156.2	1173.6	1180.0	1179.1	1171.5	1143.8
7.5°	980.9	987.9	992.7	1012.9	1038.5	1078.2	1123.7	1161.0	1164.3	1172.4	1142.6
10°	911.4	912.6	919.2	938.5	965.3	1005.9	1060.1	1125.5	1135.4	1165.2	1139.6
12.5°	854.2	855.1	863.8	884.6	913.2	954.1	1011.1	1086.6	1102.0	1156.2	1139.0
15°	813.5	816.9	824.7	846.4	876.8	917.4	975.8	1058.0	1076.4	1152.9	1144.4
17.5°	800.0	803.6	806.0	821.7	849.4	889.1	949.0	1039.4	1060.1	1154.7	1155.0
20°	814.1	816.9	811.4	815.3	832.5	868.0	926.4	1023.4	1048.1	1156.8	1168.5
22.5°	866.8	868.0	853.3	836.1	833.1	852.7	908.7	1010.8	1037.2	1162.5	1184.5
25°	957.2	955.0	931.0	893.9	859.0	850.0	898.1	1002.9	1031.8	1168.5	1201.0
27.5°	1066.2	1069.2	1036.0	982.1	915.6	868.0	896.6	999.6	1029.4	1172.7	1215.5
30°	1198.6	1202.8	1164.9	1097.2	1001.7	912.6	910.5	999.0	1027.9	1170.0	1216.7
32.5°	1333.8	1338.9	1309.1	1239.3	1116.7	987.3	941.8	1005.6	1030.9	1160.7	1209.8
35°	1475.3	1482.6	1462.7	1402.8	1272.7	1095.1	996.9	1025.8	1045.1	1159.8	1202.8
37.5°	1670.7	1677.4	1640.0	1576.5	1461.5	1239.6	1085.4	1063.7	1078.5	1174.2	1204.7
40°	1962.5	1961.6	1865.2	1768.0	1668.9	1423.2	1209.8	1132.4	1139.9	1217.9	1226.9
42.5°	2280.4	2278.9	2136.5	1988.7	1899.3	1649.4	1373.3	1251.0	1245.9	1298.3	1284.7
45°	2525.5	2525.2	2409.0	2242.5	2176.6	1908.9	1584.6	1416.0	1408.2	1429.0	1391.3
47.5°	2630.0	2631.8	2573.4	2456.3	2484.0	2260.0	1851.1	1655.1	1643.3	1634.9	1577.7
50°	2548.7	2552.3	2557.1	2534.3	2709.5	2731.8	2208.5	1992.0	1986.3	1948.6	1859.2
52.5°	2283.1	2301.5	2358.1	2430.7	2787.8	3184.6	2768.8	2410.5	2379.8	2339.8	2241.3
55°	1835.7	1855.9	1963.4	2139.5	2671.2	3482.1	3554.0	2950.1	2898.9	2779.3	2637.2
57.5°	1214.9	1246.2	1402.2	1626.2	2332.8	3529.9	4337.5	3698.9	3520.6	3193.3	3033.2
60°	669.3	699.4	868.6	1071.6	1684.9	3293.3	4864.4	4673.8	4358.8	3656.1	3514.0
62.5°	412.2	428.4	553.4	742.2	1010.4	2599.3	4973.4	5898.9	5534.3	4252.0	4094.8
65°	328.2	335.1	396.2	606.7	724.4	1546.1	4621.4	6832.9	6711.2	4973.4	4614.8
67°	318.6	321.3	350.2	520.9	682.9	947.8	3871.7	6984.9	7108.4	5409.9	4631.0
67.5°	320.7	323.7	351.1	497.1	681.7	871.0	3613.4	6925.0	7081.0	5444.6	4559.1
70°	309.2	318.6	402.0	496.8	648.2	723.8	2163.9	6000.1	6162.4	5058.9	3868.4
72.5°	109.6	110.2	173.7	402.0	704.8	731.6	1086.6	4398.6	4518.7	3869.9	2789.0
75°	65.0	55.4	57.8	114.4	673.5	710.6	626.9	2810.7	2855.5	2217.5	1412.4
77.5°	44.9	39.1	40.3	50.6	256.5	700.6	498.0	1465.7	1417.8	777.7	300.8
80°	25.6	22.6	24.1	44.3	93.3	653.7	469.7	594.3	506.7	131.9	83.1
82.5°	13.5	11.4	13.9	36.4	65.0	407.4	470.6	287.2	227.6	44.6	56.6
85°	4.8	3.9	6.6	25.0	43.4	125.0	436.3	241.5	189.7	21.7	43.1
87.5°	0.9	0.9	2.7	10.2	17.5	38.2	258.0	143.3	96.0	12.9	29.5
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1138.4	1138.4	1138.4	1138.4	1138.4	1138.4	1138.4	1138.4	1138.4	1138.4	1138.4
2.5°	1134.8	1121.9	1104.4	1083.0	1057.7	1035.4	1018.9	1001.7	998.1	992.1	991.2
5°	1127.3	1105.0	1061.6	1012.0	959.0	911.1	872.3	837.6	822.3	809.0	807.5
7.5°	1116.1	1082.7	1008.9	928.9	846.1	770.8	707.0	661.8	620.2	600.4	597.4
10°	1103.2	1055.3	949.6	838.5	724.1	617.8	523.0	443.5	395.3	366.7	363.1
12.5°	1091.1	1028.5	889.1	744.9	592.8	450.7	328.8	252.9	202.3	181.9	179.4
15°	1085.4	1006.8	832.5	649.1	455.5	286.9	179.7	139.1	122.5	117.7	117.4
17.5°	1084.8	988.5	777.1	550.1	319.2	166.8	117.1	106.9	103.6	102.4	102.4
20°	1084.5	971.0	721.7	447.4	202.6	111.1	97.6	95.1	92.7	91.2	91.2
22.5°	1087.8	955.4	663.9	342.6	127.7	90.0	85.8	83.4	80.4	78.3	78.0
25°	1091.1	943.3	604.9	243.9	92.4	78.3	74.1	70.8	66.5	63.8	63.5
27.5°	1091.7	928.3	541.7	163.2	77.4	68.3	62.9	57.8	53.0	50.3	50.0
30°	1082.7	903.0	471.5	110.2	68.3	59.3	52.1	46.7	42.2	40.0	40.0
32.5°	1064.9	871.6	394.4	83.1	60.8	50.9	43.1	37.9	34.9	34.0	33.7
35°	1049.0	837.9	315.2	70.5	54.5	43.1	35.2	31.9	30.1	29.8	29.5
37.5°	1039.7	810.8	240.9	63.8	48.5	36.1	29.8	27.4	26.5	25.9	26.2
40°	1046.9	788.2	177.9	58.4	42.5	30.1	25.3	24.1	23.2	22.9	22.9
42.5°	1078.5	784.3	132.2	53.6	36.7	25.0	22.0	21.1	20.5	20.2	20.5
45°	1161.6	808.4	102.7	49.1	31.0	21.1	18.7	18.4	18.1	18.1	18.1
47.5°	1286.5	858.1	85.5	44.0	25.9	18.1	16.3	16.0	15.7	16.0	16.0
50°	1498.2	949.0	76.5	38.8	21.4	15.4	13.9	13.9	13.9	13.9	14.2
52.5°	1820.1	1127.9	70.5	33.7	17.5	12.9	11.7	11.7	12.0	12.0	12.3
55°	2178.7	1365.1	65.0	28.6	14.8	10.8	9.6	9.9	10.2	10.5	10.5
57.5°	2567.7	1628.0	60.5	23.5	12.6	8.7	8.1	8.4	8.7	9.3	9.3
60°	3037.1	1912.5	53.9	18.4	10.5	6.9	6.3	6.9	7.8	8.4	8.7
62.5°	3552.5	2187.7	45.5	14.5	8.7	5.4	5.1	6.3	7.5	8.1	8.4
65°	3904.8	2274.1	34.9	11.7	6.6	3.9	4.2	5.7	7.2	8.1	8.1
67°	3762.1	2061.8	28.6	9.9	5.4	3.0	3.9	5.7	7.2	7.8	8.1
67.5°	3663.0	1978.7	27.4	9.6	5.1	3.0	3.9	5.7	7.2	8.1	8.1
70°	2980.5	1486.5	22.9	7.2	4.2	2.7	3.3	5.4	6.9	7.8	7.8
72.5°	2070.9	916.5	20.5	5.1	3.6	2.4	3.0	5.1	6.6	7.5	7.8
75°	984.6	331.8	17.5	3.9	3.3	2.1	2.7	5.1	6.6	7.5	7.5
77.5°	200.8	77.1	14.2	3.3	2.7	2.1	2.4	4.8	6.3	7.2	7.2
80°	65.9	29.8	10.5	3.0	2.7	2.1	2.4	4.5	6.3	6.9	7.2
82.5°	47.6	15.1	6.9	3.0	2.7	2.1	2.1	4.5	6.0	6.9	6.9
85°	36.4	10.5	4.5	3.0	2.7	2.1	2.1	4.2	5.7	6.6	6.6
87.5°	24.1	4.2	3.6	3.0	2.7	2.1	2.1	4.2	5.4	6.3	6.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)