

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: P192859

Luminaire Tested: **GLEON-AF-01-LED-E1-SL3-7030-800-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192859
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24289)
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-SL3-7030-800-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3000K, 800mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE III SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4160.6 lumens
Efficiency: N/A
Efficacy: 94.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short - Non-Cutoff
BUG Rating: B1 - U0 - G1

Input Watts (W): 44
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

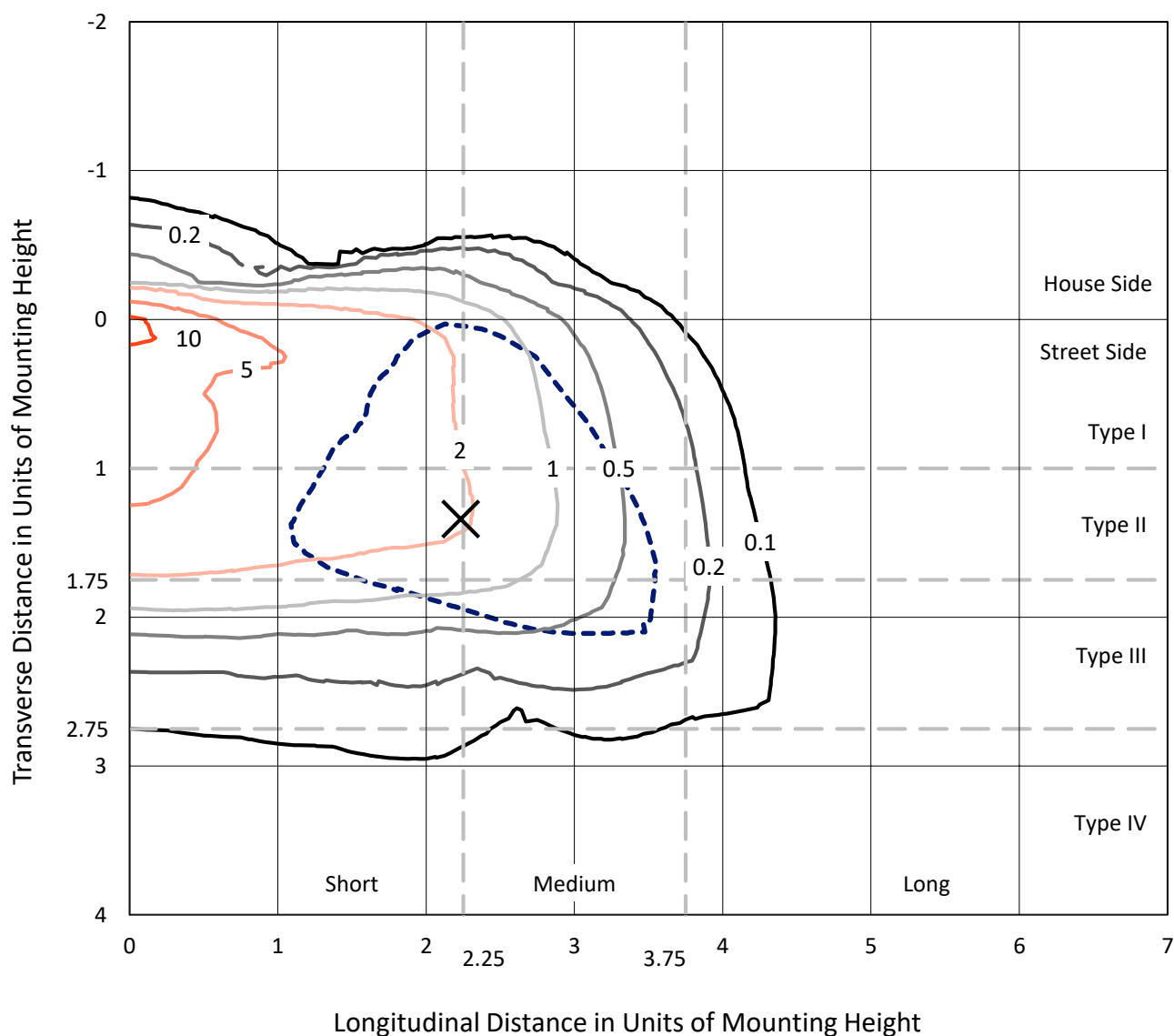


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

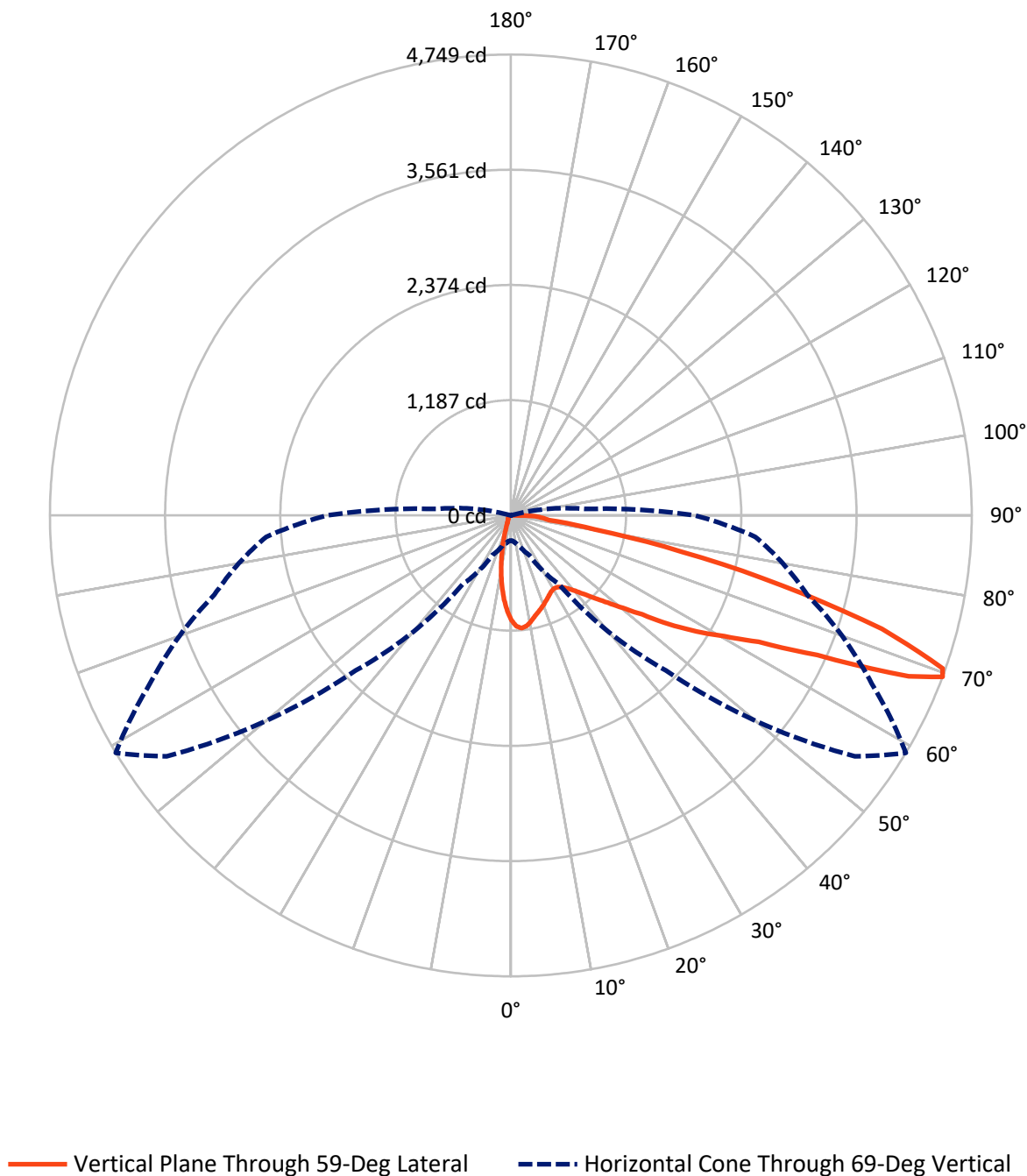


Based on 10 foot mounting height. Maximum calculated value = 10.9 fc
 Type III - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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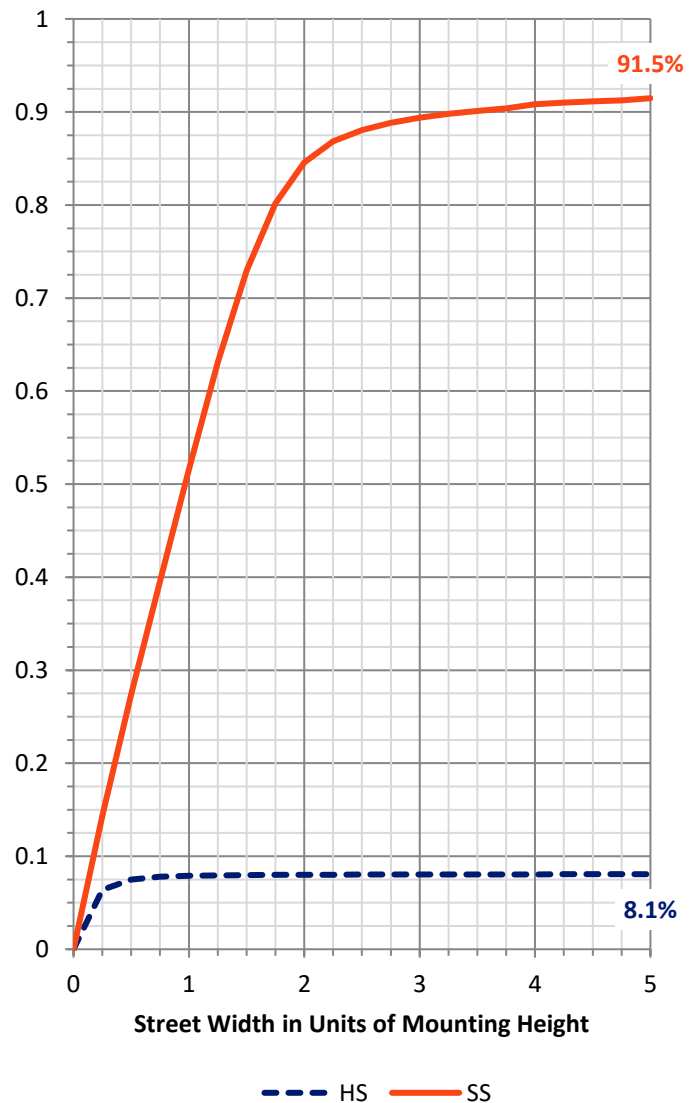
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	338.8	0.0	338.8
	% Fixture	8.1	0.0	8.1
Street Side	Lumens	3821.8	0.0	3821.8
	% Fixture	91.9	0.0	91.9
Total	Lumens	4160.6	0.0	4160.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	87.9	2.1
10°-20°	181.6	4.4
20°-30°	244.4	5.9
30°-40°	354.9	8.5
40°-50°	590.9	14.2
50°-60°	921.8	22.2
60°-70°	1140.6	27.4
70°-80°	578.0	13.9
80°-90°	60.5	1.5
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°	4160.6	100.0
0°-180°	4160.6	100.0

Coefficient of Utilization



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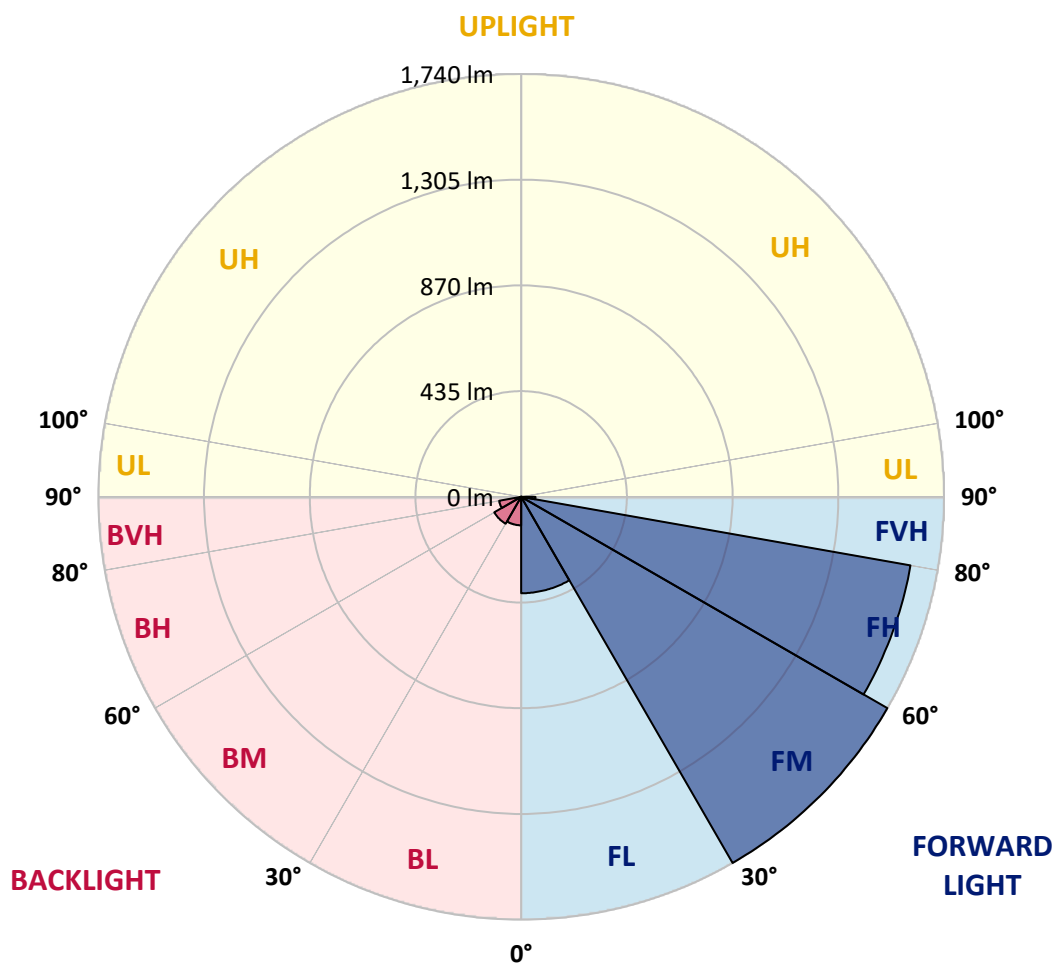
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	396.7	9.5			
FM	(30°-60°)	1739.8	41.8			
FH	(60°-80°)	1626.6	39.1			G1/1800
FVH	(80°-90°)	58.6	1.4			G1/100
BL	(0°-30°)	117.3	2.8	B1/500		
BM	(30°-60°)	127.7	3.1	B0/220		
BH	(60°-80°)	92.0	2.2	B0/110		G0/110
BVH	(80°-90°)	1.9	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	1083.0	1083.0	1083.0	1083.0	1083.0	1083.0	1083.0	1083.0	1083.0	1083.0	1083.0
2.5°	1186.9	1186.4	1181.3	1178.9	1174.6	1165.8	1151.9	1144.6	1132.8	1112.4	1084.8
5°	1176.0	1181.7	1184.8	1185.0	1188.0	1184.8	1172.4	1166.3	1150.0	1117.0	1067.7
7.5°	1102.8	1104.8	1113.6	1121.1	1135.6	1149.5	1154.0	1151.4	1141.8	1106.5	1040.8
10°	1024.1	1026.3	1036.6	1046.4	1066.3	1087.6	1110.2	1115.0	1119.0	1091.4	1014.9
12.5°	956.3	958.5	969.0	982.0	1005.0	1031.4	1066.5	1074.2	1091.9	1077.1	994.3
15°	898.0	898.9	909.4	925.3	952.8	986.7	1026.5	1038.9	1066.1	1066.9	976.1
17.5°	848.4	850.7	857.1	872.3	902.5	944.3	990.8	1008.6	1040.3	1058.5	958.5
20°	818.1	820.4	820.1	828.6	855.7	900.4	954.9	976.3	1014.9	1049.8	942.7
22.5°	812.2	812.2	806.0	804.8	820.9	858.2	917.8	943.9	992.2	1046.0	931.7
25°	833.1	832.1	816.8	804.3	805.1	827.4	881.8	912.9	972.9	1048.6	925.8
27.5°	877.4	876.1	856.8	833.1	814.0	813.8	854.5	888.0	957.5	1060.8	928.1
30°	938.5	938.0	917.1	887.1	852.7	820.9	845.1	875.3	947.8	1083.0	933.5
32.5°	1005.3	1004.6	988.8	957.3	913.5	852.7	855.0	880.4	950.4	1112.4	946.7
35°	1076.1	1074.9	1068.1	1040.5	992.4	911.2	887.4	907.2	968.4	1156.4	972.6
37.5°	1152.8	1154.0	1158.9	1132.6	1082.0	993.2	941.9	955.2	1004.3	1216.0	1014.7
40°	1266.0	1265.8	1267.4	1232.8	1184.2	1093.8	1017.7	1022.0	1064.6	1295.4	1078.7
42.5°	1471.4	1457.0	1413.5	1342.9	1293.9	1208.6	1113.6	1109.1	1138.3	1393.5	1168.3
45°	1747.4	1716.8	1603.8	1468.6	1405.9	1338.0	1231.4	1217.0	1235.6	1511.4	1278.9
47.5°	1984.7	1953.0	1793.3	1599.3	1524.8	1460.8	1369.4	1343.7	1349.8	1643.4	1419.2
50°	2065.4	2049.9	1910.4	1713.1	1639.9	1615.4	1529.7	1498.2	1489.5	1796.0	1581.7
52.5°	2037.4	2036.3	1943.2	1787.2	1745.2	1775.4	1731.3	1694.8	1662.9	1957.0	1747.0
55°	1992.5	1998.4	1956.8	1851.8	1850.5	1921.5	2007.1	1976.7	1884.0	2131.7	1889.6
57.5°	1868.6	1893.7	1949.1	1974.1	2032.0	2104.8	2236.7	2254.6	2145.0	2265.6	2008.0
60°	1516.1	1571.3	1752.9	1991.8	2266.1	2447.3	2513.8	2529.2	2359.0	2376.9	2167.8
62.5°	1076.1	1132.6	1362.9	1766.8	2269.7	2897.3	2926.7	2866.8	2594.8	2541.8	2443.2
65°	571.2	614.8	802.9	1275.4	1967.8	3001.8	3648.8	3470.0	3010.7	2866.3	2799.2
67.5°	292.2	305.4	380.2	624.2	1352.8	2666.3	4296.0	4421.9	3727.6	3188.1	2782.1
69°	258.5	266.4	316.0	451.2	866.2	2258.4	4327.5	4748.6	4102.9	3161.3	2528.2
70°	250.3	257.2	302.3	408.4	677.1	1893.9	4206.8	4720.0	4198.9	3059.3	2338.5
72.5°	212.4	218.3	269.1	360.9	550.3	940.1	3417.3	3999.6	3767.8	2548.5	1692.8
75°	142.1	161.3	258.3	338.2	512.0	534.1	2252.9	2890.2	2684.9	1718.8	881.8
77.5°	34.1	36.7	72.9	269.1	468.1	470.1	1158.7	1796.8	1465.5	612.6	208.4
80°	18.3	17.6	20.4	53.4	436.0	441.1	521.6	872.1	523.3	101.6	68.8
82.5°	12.9	12.2	13.2	22.4	137.1	401.8	377.4	394.8	216.9	39.0	30.8
85°	4.7	4.5	7.3	20.2	43.0	231.1	387.8	325.6	175.8	17.9	22.6
87.5°	1.6	1.4	2.8	11.0	13.2	98.4	239.3	246.1	69.2	10.8	10.6
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°	1083.0	1083.0	1083.0	1083.0	1083.0	1083.0	1083.0	1083.0	1083.0	1083.0	1083.0
2.5°	1073.3	1058.7	1031.9	1004.3	979.0	948.4	933.1	918.0	911.7	909.4	898.2
5°	1042.3	1017.5	960.6	903.5	850.7	794.8	757.8	728.2	710.7	702.3	688.9
7.5°	1002.5	962.0	875.7	787.4	705.4	624.4	564.5	518.3	486.5	471.2	457.4
10°	963.8	910.0	787.2	667.0	555.5	448.2	365.4	305.4	267.0	249.4	238.0
12.5°	929.4	859.5	701.8	549.6	409.6	284.0	199.7	152.0	128.3	119.9	116.1
15°	898.5	812.9	621.1	438.0	277.4	162.4	109.2	93.0	89.1	89.1	88.7
17.5°	869.2	767.2	543.2	333.3	174.0	99.3	83.0	81.0	81.0	81.8	81.8
20°	841.3	723.8	467.9	239.3	109.6	78.7	75.1	74.7	75.1	76.3	76.3
22.5°	817.4	684.2	397.6	164.2	81.4	71.0	69.2	68.5	68.8	69.4	69.9
25°	799.4	650.7	331.3	111.3	70.2	64.7	62.6	61.4	60.4	60.4	60.9
27.5°	788.2	622.6	267.0	81.0	63.1	58.8	55.5	53.6	51.6	50.4	50.8
30°	779.9	595.7	206.8	66.1	56.5	52.2	48.0	44.9	41.8	40.4	41.0
32.5°	776.9	574.0	154.6	58.4	50.6	45.9	40.8	36.7	33.5	32.2	32.4
35°	785.1	556.9	113.2	52.7	45.9	40.0	34.1	29.6	27.1	26.3	26.6
37.5°	806.8	547.7	84.6	48.0	41.6	35.1	28.5	24.2	22.6	22.6	22.8
40°	847.7	547.5	68.0	44.7	37.9	30.4	23.5	20.4	19.5	20.0	20.2
42.5°	907.4	560.0	59.3	41.6	34.6	25.9	19.5	17.4	17.2	17.6	17.9
45°	989.2	582.8	54.6	39.0	31.0	21.7	16.5	15.1	15.1	15.8	16.0
47.5°	1089.1	616.2	50.6	36.5	27.6	18.1	14.1	13.2	13.4	14.1	14.3
50°	1209.5	658.3	46.6	33.7	24.9	15.1	12.2	11.6	11.8	12.7	12.9
52.5°	1346.7	715.0	43.2	31.0	21.7	12.4	10.4	9.9	10.4	11.3	11.6
55°	1464.3	765.8	39.4	29.0	17.4	10.4	8.5	8.5	9.0	10.2	10.4
57.5°	1577.4	819.0	35.7	24.9	13.6	8.2	7.1	7.3	7.9	9.2	9.4
60°	1743.6	909.0	31.5	21.0	10.4	6.5	5.9	6.1	7.1	8.2	8.5
62.5°	2025.6	1046.2	27.4	17.4	7.9	5.1	4.7	5.1	6.3	7.7	7.9
65°	2280.2	1102.0	22.4	14.6	6.1	4.1	4.1	4.7	6.1	7.5	7.7
67.5°	2138.3	927.7	17.4	11.6	4.7	3.1	3.3	4.5	5.9	7.5	7.7
69°	1891.1	758.5	14.9	9.2	4.1	2.8	3.1	4.5	5.9	7.3	7.5
70°	1698.4	640.4	13.2	7.7	3.5	2.8	3.1	4.3	5.9	7.3	7.5
72.5°	1137.5	345.8	10.6	5.7	3.3	2.6	2.6	4.3	5.7	7.1	7.3
75°	488.9	95.5	8.5	4.1	2.8	2.4	2.4	4.1	5.5	6.8	7.3
77.5°	89.4	24.2	6.8	3.5	2.8	2.4	2.0	3.8	5.1	6.5	6.8
80°	35.5	12.0	5.5	3.1	2.6	2.0	1.8	3.5	4.9	6.3	6.5
82.5°	21.5	6.8	4.5	2.8	2.6	1.8	1.6	3.1	4.7	6.1	6.3
85°	17.4	4.7	3.5	2.8	2.4	1.8	1.4	2.8	4.3	5.9	6.1
87.5°	8.5	3.3	3.3	2.6	2.4	1.8	1.4	2.6	4.1	5.7	5.9
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)