

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: P192970

Luminaire Tested: **GLEON-AF-02-LED-E1-SL4-7030-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192970
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24294)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-02-LED-E1-SL4-7030-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7373.9 lumens
Efficiency: N/A
Efficacy: 111.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B1 - U0 - G2

Input Watts (W): 66
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



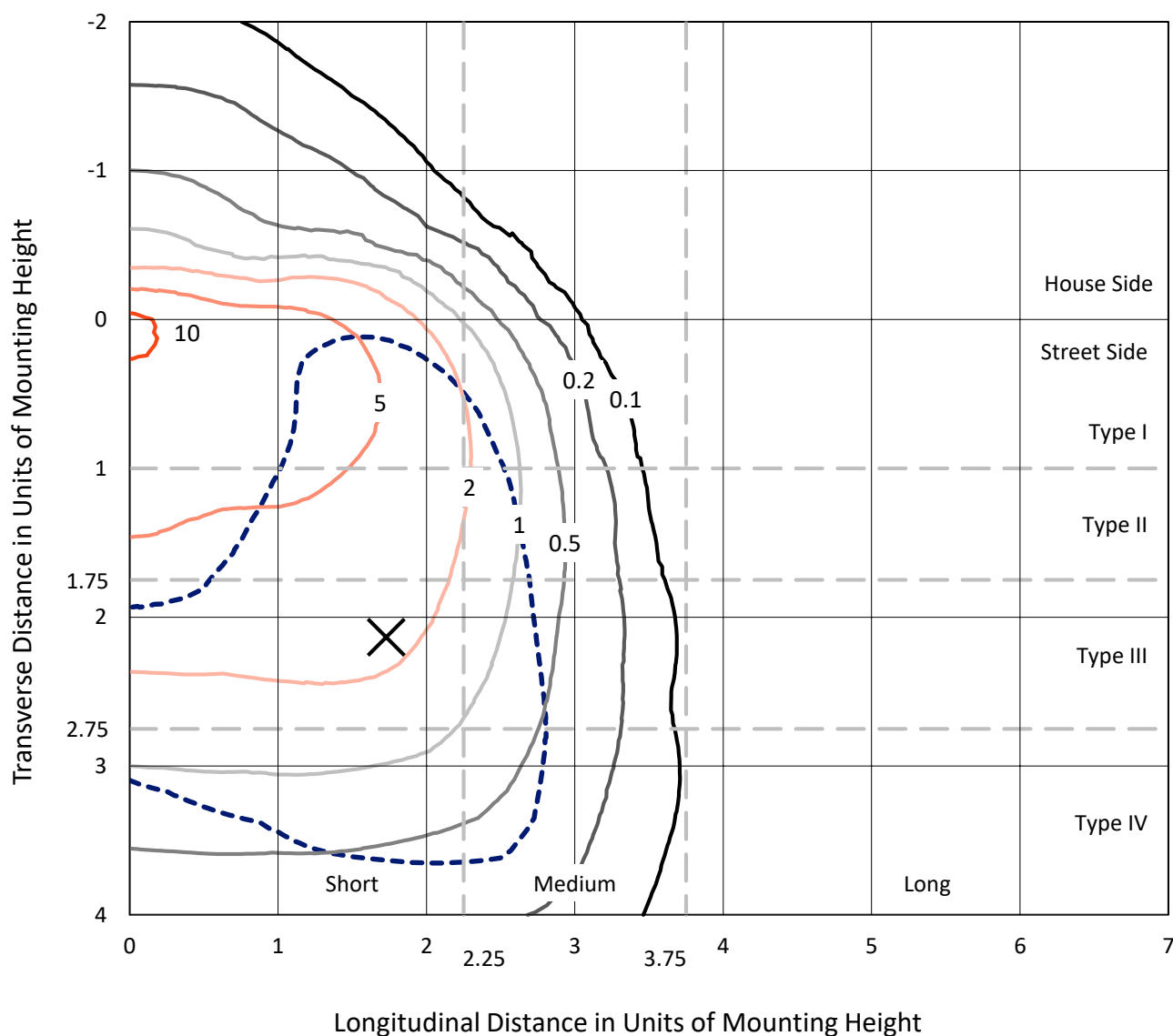
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

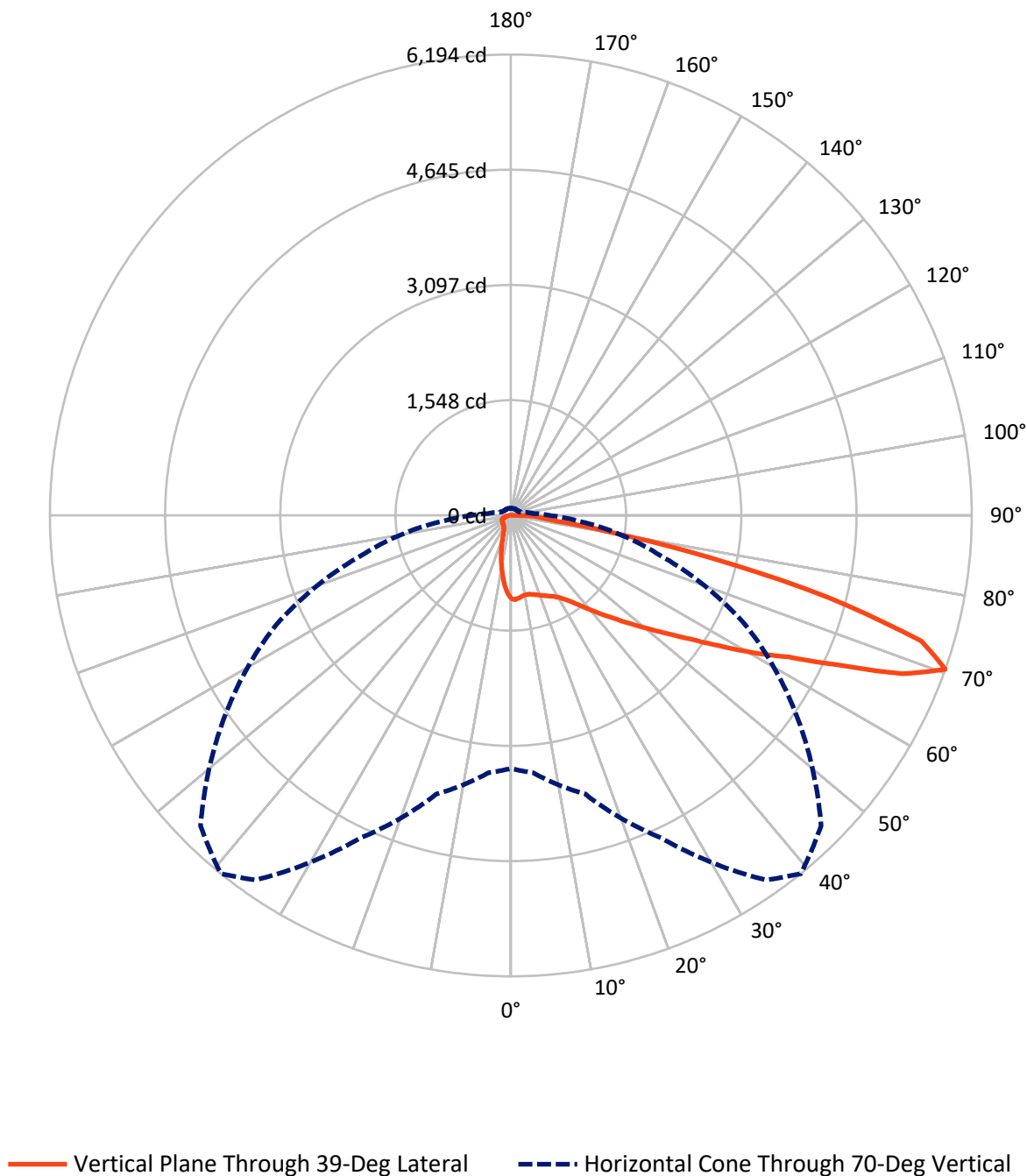


Based on 10 foot mounting height. Maximum calculated value = 11.2 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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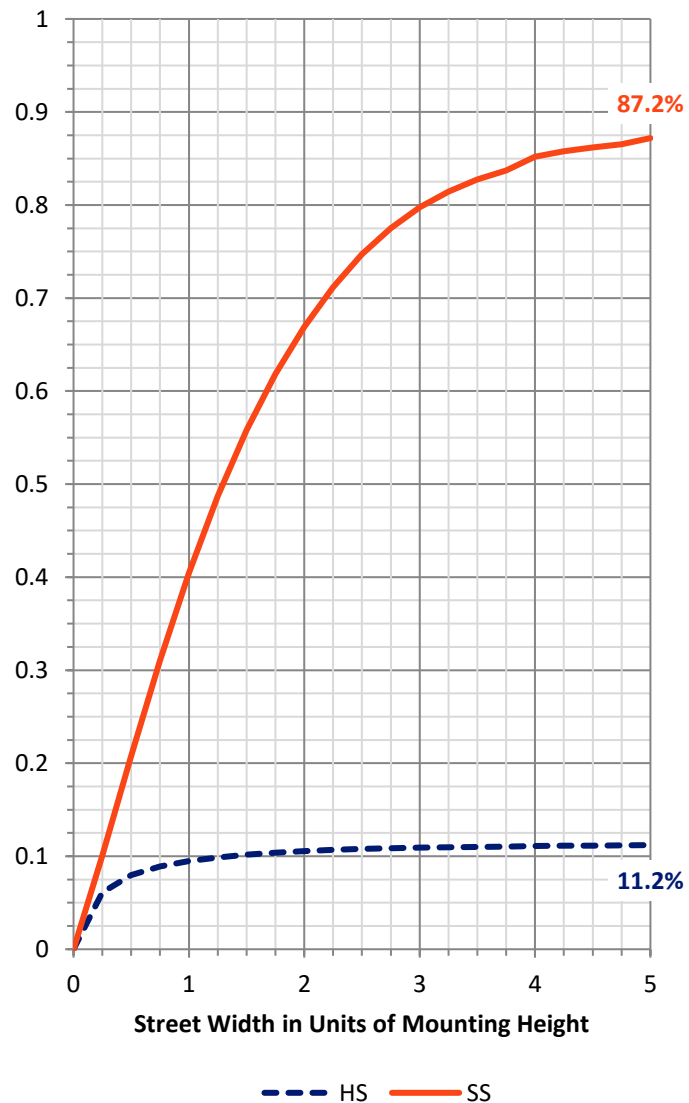
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	838.7	0.0	838.7
	% Fixture	11.4	0.0	11.4
Street Side	Lumens	6535.2	0.0	6535.2
	% Fixture	88.6	0.0	88.6
Total	Lumens	7373.9	0.0	7373.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	96.1	1.3
10°-20°	240.1	3.3
20°-30°	373.9	5.1
30°-40°	582.5	7.9
40°-50°	977.9	13.3
50°-60°	1553.5	21.1
60°-70°	2072.1	28.1
70°-80°	1251.3	17.0
80°-90°	226.5	3.1
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°	7373.9	100.0
0°-180°	7373.9	100.0

Coefficient of Utilization



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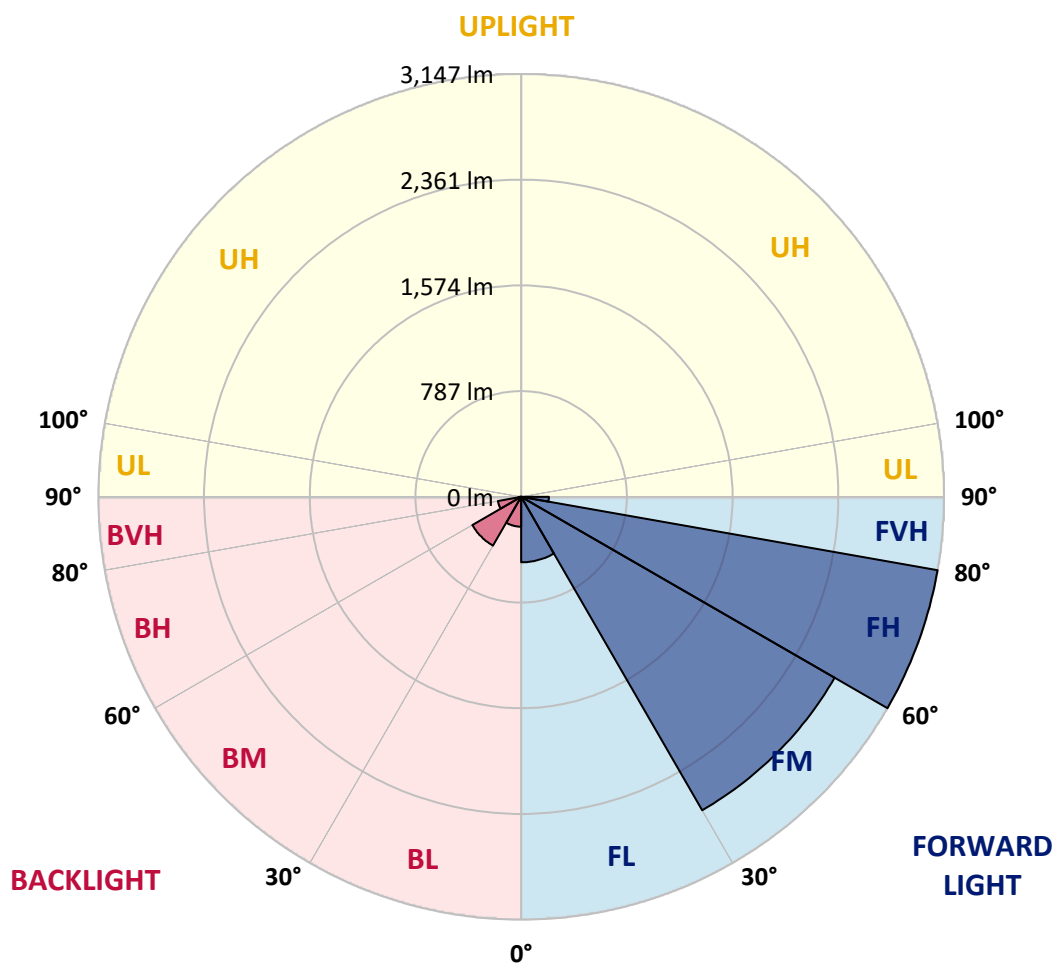
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	487.6	6.6			
FM	(30°-60°)	2694.1	36.5			
FH	(60°-80°)	3147.4	42.7			G2/5000
FVH	(80°-90°)	206.1	2.8			G2/225
BL	(0°-30°)	222.5	3.0	B1/500		
BM	(30°-60°)	419.7	5.7	B1/1000		
BH	(60°-80°)	176.1	2.4	B1/500		G1/500
BVH	(80°-90°)	20.4	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	1119.5	1119.5	1119.5	1119.5	1119.5	1119.5	1119.5	1119.5	1119.5	1119.5	1119.5
2.5°	1141.2	1140.8	1137.8	1135.6	1133.7	1133.0	1134.4	1128.8	1124.0	1117.9	1111.6
5°	1132.6	1132.3	1127.3	1122.8	1118.4	1116.8	1116.5	1106.4	1100.4	1091.4	1079.4
7.5°	1123.1	1121.3	1115.0	1107.5	1099.5	1095.9	1092.1	1078.9	1072.3	1063.2	1049.3
10°	1113.5	1111.2	1105.2	1097.7	1090.2	1084.6	1078.3	1065.5	1058.4	1051.6	1035.4
12.5°	1103.3	1101.5	1100.0	1096.6	1091.4	1086.5	1081.5	1070.7	1063.2	1055.3	1036.7
15°	1101.9	1101.2	1104.5	1106.7	1103.7	1100.7	1095.5	1086.1	1078.3	1070.4	1045.9
17.5°	1113.9	1113.5	1122.1	1128.1	1126.6	1121.3	1114.2	1103.7	1097.4	1090.6	1060.3
20°	1140.1	1142.0	1152.4	1160.4	1152.8	1145.4	1133.7	1119.2	1115.7	1112.7	1074.9
22.5°	1189.7	1191.5	1198.9	1202.0	1182.4	1171.6	1155.4	1136.8	1134.4	1136.8	1092.5
25°	1266.9	1264.9	1263.8	1252.5	1216.9	1200.1	1179.5	1160.0	1161.1	1171.3	1117.1
27.5°	1369.1	1359.0	1343.4	1309.6	1252.9	1234.2	1209.1	1191.0	1198.2	1217.7	1154.4
30°	1475.2	1464.0	1427.7	1372.6	1300.1	1279.5	1251.4	1231.3	1249.9	1280.7	1203.8
32.5°	1573.5	1572.0	1518.7	1447.9	1365.4	1347.3	1319.3	1296.5	1326.9	1373.6	1278.0
35°	1680.7	1684.1	1620.4	1535.2	1453.4	1434.8	1414.6	1397.3	1437.8	1502.2	1385.6
37.5°	1795.4	1802.2	1726.9	1630.8	1554.0	1546.1	1534.1	1526.6	1589.2	1678.4	1535.9
40°	1948.7	1942.0	1837.4	1738.9	1677.3	1676.9	1673.2	1682.1	1786.4	1908.6	1729.0
42.5°	2113.0	2093.1	1954.7	1854.6	1812.7	1825.4	1833.0	1869.7	2023.7	2188.4	1964.5
45°	2290.0	2245.3	2076.6	1977.3	1963.1	1990.0	2015.5	2095.4	2303.0	2506.6	2222.5
47.5°	2431.2	2388.2	2202.5	2105.9	2137.0	2177.9	2226.9	2353.3	2615.7	2835.4	2477.0
50°	2542.6	2514.5	2329.6	2255.7	2328.6	2391.5	2471.8	2645.3	2941.2	3155.6	2712.8
52.5°	2650.6	2629.7	2457.9	2409.5	2553.5	2640.5	2749.6	2958.7	3274.8	3470.5	2911.1
55°	2748.1	2733.1	2595.9	2601.1	2818.3	2931.4	3068.6	3315.7	3638.5	3751.3	3079.2
57.5°	2857.9	2838.8	2753.4	2841.4	3158.2	3305.2	3483.6	3716.8	3979.7	4001.0	3207.0
60°	2968.5	2951.9	2928.0	3118.8	3590.2	3744.6	3913.6	4105.6	4325.7	4194.8	3199.4
62.5°	3064.5	3066.4	3108.8	3410.2	4013.0	4191.8	4398.0	4587.7	4638.7	4228.6	2962.9
65°	3227.2	3256.8	3383.2	3822.6	4608.3	4847.5	5100.7	5070.2	4725.4	3913.2	2455.6
67.5°	3420.7	3472.8	3728.8	4372.1	5360.8	5678.3	5776.2	5179.3	4378.6	3181.1	1750.5
70°	3401.1	3472.8	3878.0	4781.9	5980.9	6193.8	5896.9	4687.4	3476.8	2078.1	929.8
72.5°	3020.3	3122.6	3574.0	4594.2	5785.6	5766.8	5119.4	3494.5	2065.8	834.5	363.3
75°	2302.0	2405.5	2793.8	3629.5	4572.7	4415.2	3632.5	1930.4	783.9	331.4	229.1
77.5°	1324.2	1404.4	1704.3	2225.8	2901.1	2739.4	2021.9	858.6	381.7	231.0	178.8
80°	739.3	783.9	966.2	1129.2	1421.7	1303.1	904.6	533.5	284.9	167.6	138.0
82.5°	584.4	624.2	781.3	712.4	649.3	599.1	519.6	475.1	227.6	105.8	82.5
85°	510.7	548.5	661.3	560.8	443.5	406.8	422.2	467.5	177.0	63.7	70.5
87.5°	473.1	523.8	589.4	432.2	345.3	305.9	389.5	512.5	57.1	39.8	28.5
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°	1119.5	1119.5	1119.5	1119.5	1119.5	1119.5	1119.5	1119.5	1119.5	1119.5	1119.5
2.5°	1105.9	1100.0	1090.2	1081.5	1068.1	1061.0	1053.1	1047.5	1043.0	1039.3	1045.3
5°	1071.9	1060.6	1040.0	1017.9	991.6	971.0	953.8	937.7	926.4	918.9	924.2
7.5°	1039.6	1021.2	989.1	948.9	903.9	865.7	834.2	806.5	787.3	774.9	779.8
10°	1021.2	998.4	948.5	885.5	819.2	759.6	710.0	667.3	637.7	620.8	623.5
12.5°	1016.7	987.1	918.1	831.6	740.8	658.0	588.3	529.1	487.4	465.7	466.4
15°	1020.2	982.2	889.7	779.8	665.1	560.5	473.5	401.5	353.1	328.5	328.0
17.5°	1025.7	978.5	859.7	724.0	588.3	466.7	369.7	299.2	256.4	236.5	235.0
20°	1031.7	972.5	825.9	663.5	508.4	379.7	289.4	234.4	207.4	196.4	195.7
22.5°	1040.3	967.3	791.0	599.9	430.1	309.3	238.0	200.9	186.8	181.1	180.3
25°	1054.3	964.6	753.9	533.5	359.6	258.7	207.4	184.4	176.2	172.4	172.1
27.5°	1077.6	968.4	719.0	469.0	302.2	224.5	190.1	176.2	170.2	166.8	166.5
30°	1107.5	980.0	682.4	407.9	257.6	201.4	179.6	170.6	165.7	162.4	162.4
32.5°	1157.4	999.5	643.7	355.0	225.7	185.2	171.7	165.7	161.6	159.0	158.5
35°	1230.8	1036.3	607.7	311.2	202.7	173.6	165.0	160.5	157.5	155.9	155.9
37.5°	1337.7	1094.3	575.9	279.7	188.9	165.7	158.5	155.2	153.3	153.3	153.3
40°	1481.2	1174.5	550.0	258.7	181.1	160.1	153.7	151.1	150.0	150.3	150.3
42.5°	1658.5	1278.8	532.7	244.0	177.3	156.7	150.3	148.0	147.0	146.6	147.0
45°	1860.6	1397.3	530.9	233.2	173.6	154.5	148.0	145.9	143.5	142.0	142.0
47.5°	2057.2	1517.6	546.2	229.5	169.5	151.9	146.2	144.0	140.6	137.2	137.2
50°	2230.7	1620.0	566.8	231.0	167.9	148.0	143.2	142.0	136.8	133.1	132.8
52.5°	2368.6	1698.7	583.8	235.5	169.5	145.5	139.5	139.9	134.2	130.1	129.7
55°	2479.3	1750.5	579.2	240.0	172.8	144.0	136.1	136.8	132.3	128.3	128.3
57.5°	2527.6	1731.3	529.4	236.2	175.5	144.3	133.6	136.5	132.8	128.9	128.9
60°	2423.8	1561.6	436.1	219.7	172.1	143.2	132.3	138.0	137.5	133.9	133.6
62.5°	2109.6	1257.5	338.1	195.3	160.5	137.5	129.4	137.5	141.7	140.6	140.2
65°	1626.0	895.7	258.3	169.2	144.8	128.3	121.5	128.9	134.6	136.1	135.7
67.5°	1055.3	548.9	199.1	144.3	127.1	117.4	111.3	114.7	115.9	115.9	115.0
70°	518.9	295.4	158.5	121.5	109.2	105.8	102.3	100.5	98.6	97.1	97.1
72.5°	256.1	193.1	130.4	102.7	94.1	92.7	91.9	89.6	88.1	86.2	85.4
75°	189.3	157.2	111.0	86.7	81.0	79.4	81.0	79.1	78.7	77.2	76.5
77.5°	155.5	133.9	95.6	74.2	69.4	66.7	69.0	69.4	69.7	67.5	66.7
80°	126.3	113.2	79.9	61.5	57.1	55.0	56.6	59.6	60.3	57.1	55.5
82.5°	91.1	92.7	64.5	48.0	44.2	42.7	45.8	49.5	50.3	45.4	44.2
85°	76.5	77.2	49.5	34.1	30.4	28.1	33.0	36.7	39.4	34.5	33.4
87.5°	31.9	45.4	28.5	19.1	16.8	14.6	17.6	19.4	23.6	21.8	21.5
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)