

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: P192939

Luminaire Tested: **GLEON-AF-01-LED-E1-SL4-7030-800-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192939
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24301)
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-SL4-7030-800-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3000K, 800mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3953 lumens
Efficiency: N/A
Efficacy: 89.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B0 - 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

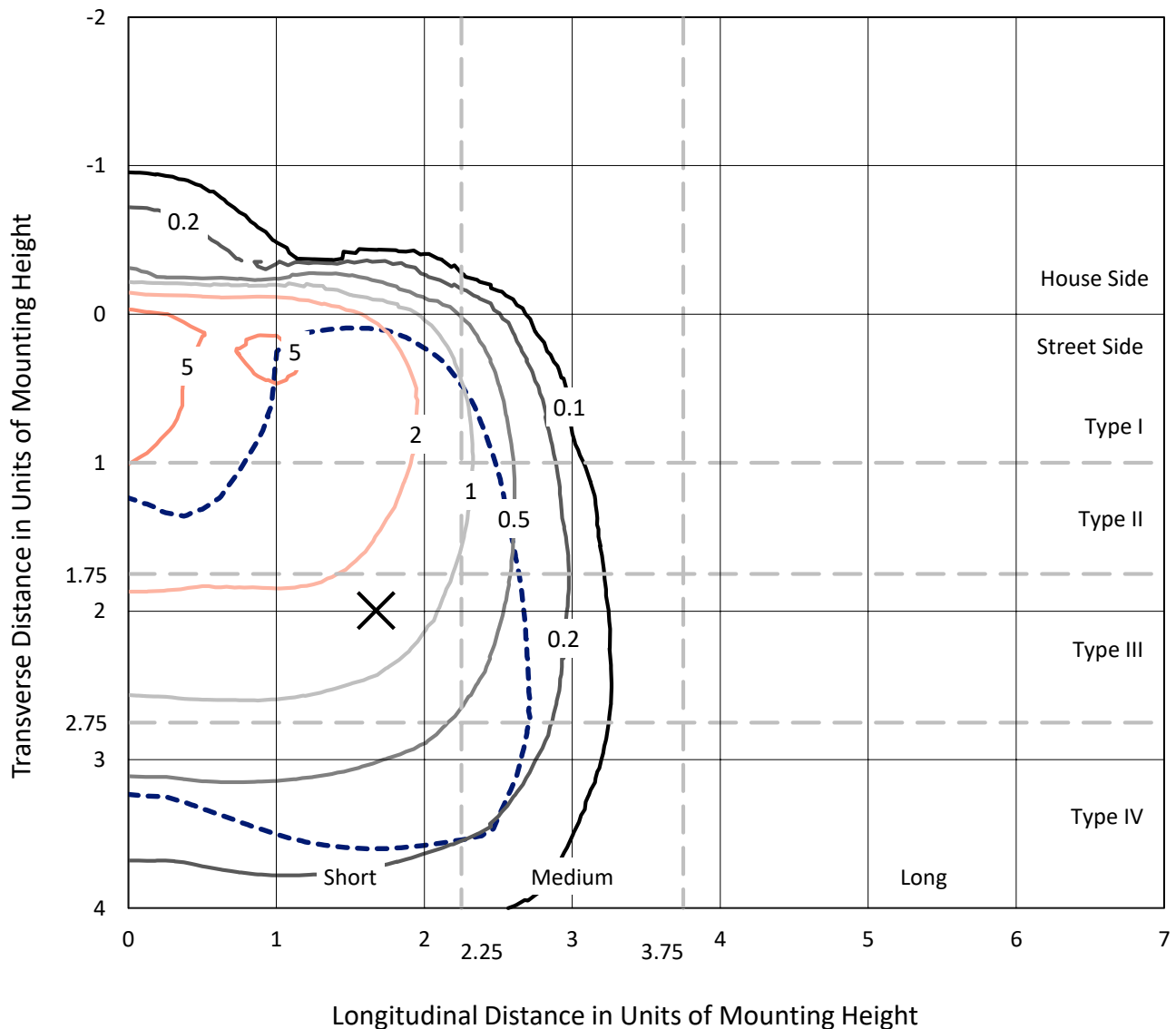


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

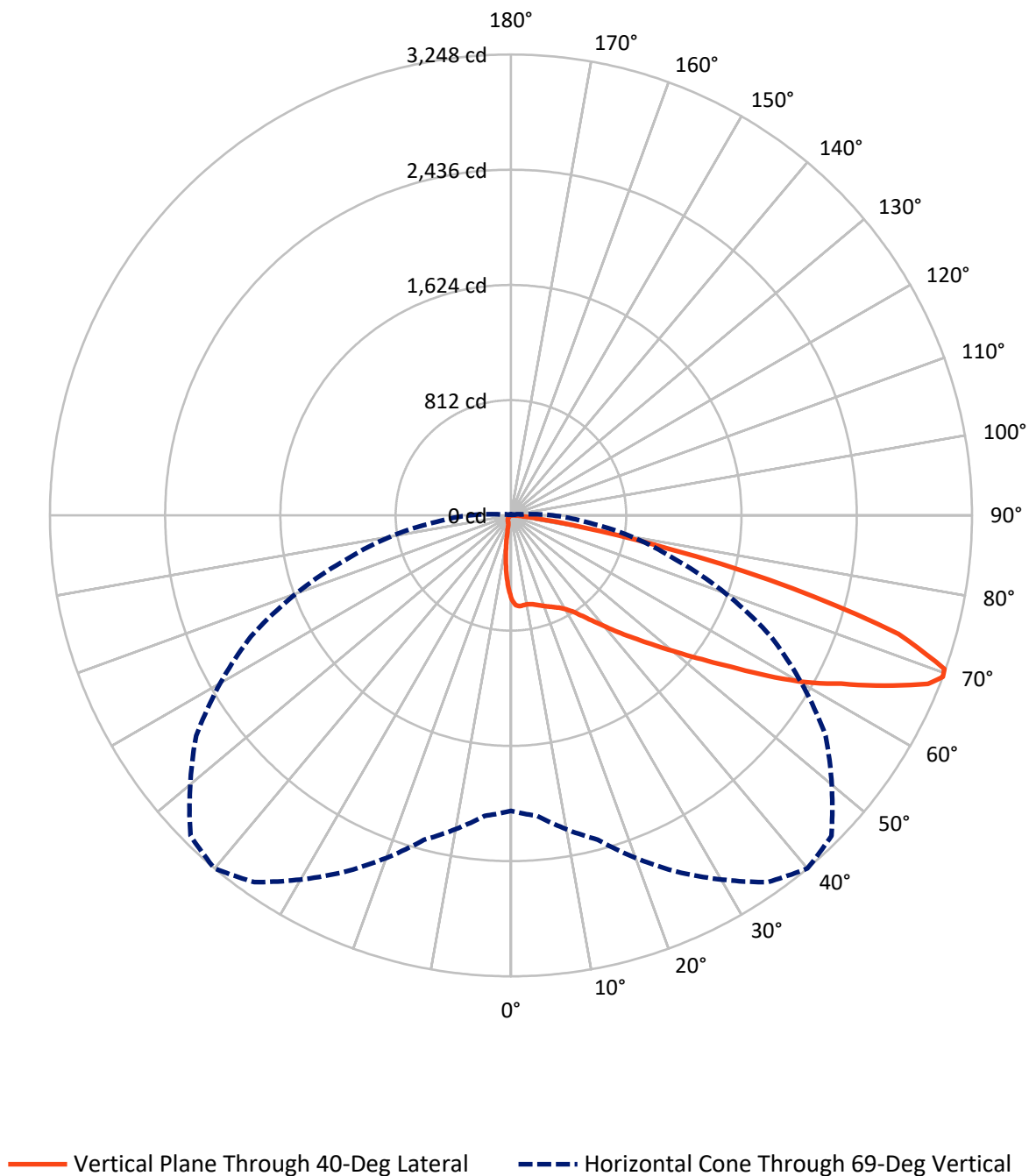


Based on 10 foot mounting height. Maximum calculated value = 6.5 fc
Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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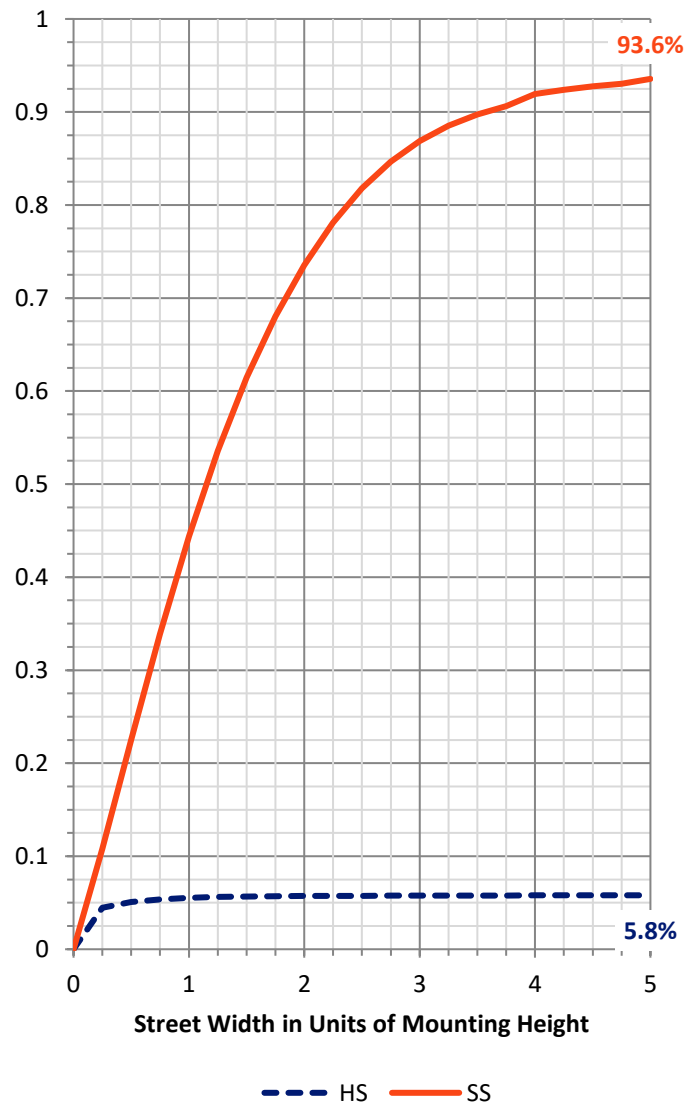
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	231.3	0.0	231.3
	% Fixture	5.9	0.0	5.9
Street Side	Lumens	3721.7	0.0	3721.7
	% Fixture	94.1	0.0	94.1
Total	Lumens	3953.0	0.0	3953.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	47.9	1.2
10°-20°	117.8	3.0
20°-30°	198.3	5.0
30°-40°	324.7	8.2
40°-50°	562.2	14.2
50°-60°	885.5	22.4
60°-70°	1156.5	29.3
70°-80°	595.6	15.1
80°-90°	64.4	1.6
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°	3953.0	100.0
0°-180°	3953.0	100.0

Coefficient of Utilization



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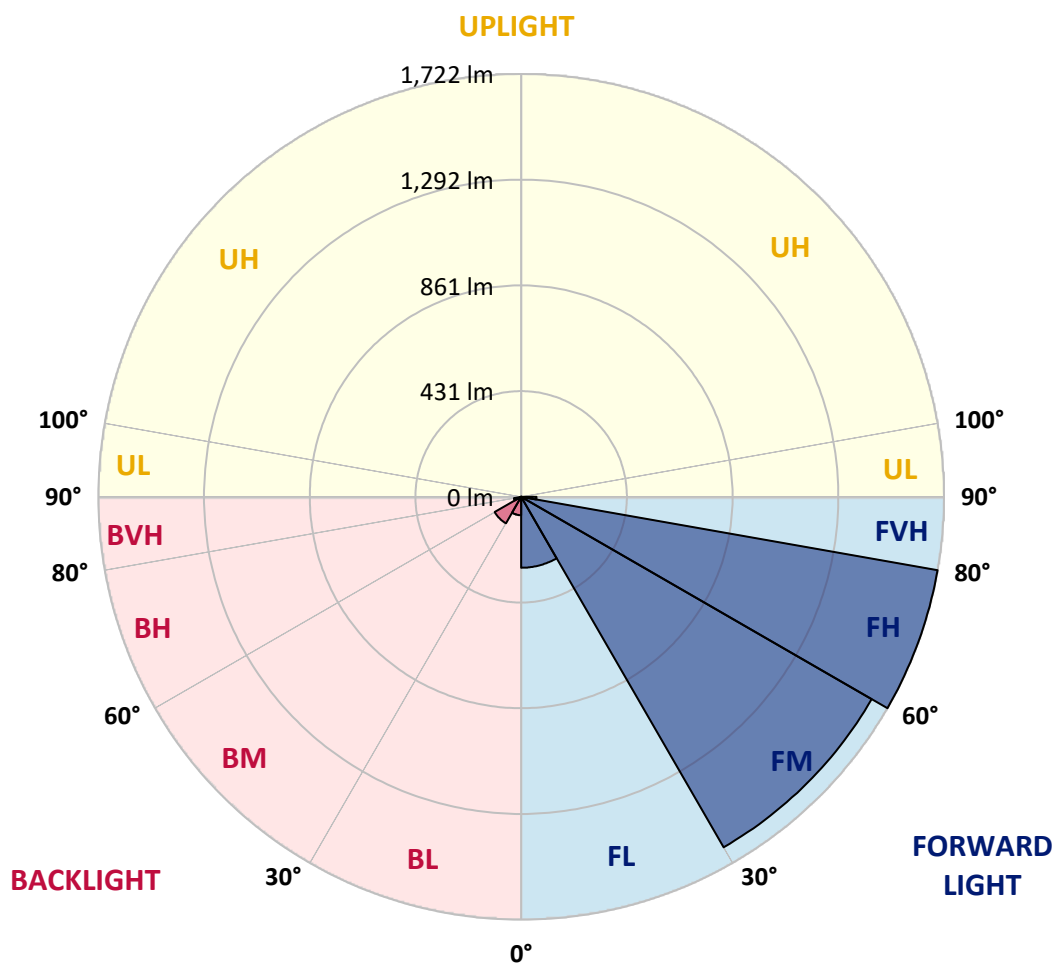
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	289.1	7.3			
FM	(30°-60°)	1648.2	41.7			
FH	(60°-80°)	1722.1	43.6			G1/1800
FVH	(80°-90°)	62.4	1.6			G1/100
BL	(0°-30°)	74.9	1.9	B0/110		
BM	(30°-60°)	124.3	3.1	B0/220		
BH	(60°-80°)	30.0	0.8	B0/110		G0/110
BVH	(80°-90°)	2.0	0.1			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G1

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	590.5	590.5	590.5	590.5	590.5	590.5	590.5	590.5	590.5	590.5	590.5
2.5°	648.5	644.9	642.9	640.0	636.4	633.3	632.3	623.6	615.3	603.9	591.1
5°	660.5	659.3	655.5	651.7	647.6	642.9	640.3	629.9	618.1	601.7	579.1
7.5°	661.7	660.3	655.5	650.3	644.5	638.8	634.4	624.0	613.2	596.4	568.9
10°	659.8	658.2	654.6	649.0	641.7	636.2	631.7	621.9	612.7	597.6	567.0
12.5°	657.6	656.0	654.4	651.5	645.1	641.5	637.6	628.2	620.0	607.3	573.9
15°	659.8	658.9	660.7	659.5	656.0	652.8	649.0	640.5	632.9	622.3	586.4
17.5°	668.6	668.6	674.5	675.3	672.1	667.3	661.9	653.4	647.1	638.2	601.2
20°	689.7	689.0	696.5	697.9	689.9	682.7	674.5	664.3	659.3	653.7	615.7
22.5°	725.7	722.3	726.8	725.4	709.6	698.3	688.5	675.8	673.1	670.7	632.1
25°	772.5	770.6	773.7	759.8	732.0	716.7	704.9	690.6	690.6	693.1	650.3
27.5°	840.5	833.4	823.0	798.5	756.9	737.4	724.7	709.4	713.5	723.1	674.5
30°	910.1	902.4	878.6	841.0	787.3	766.9	752.0	736.0	745.4	763.0	707.0
32.5°	978.9	970.1	936.5	889.0	830.8	810.3	796.1	778.4	794.1	823.9	754.7
35°	1045.4	1037.6	998.8	942.8	888.8	871.8	858.6	843.3	863.5	905.0	821.6
37.5°	1120.2	1111.8	1064.5	1003.8	959.1	946.8	937.2	921.9	957.2	1017.9	915.0
40°	1212.2	1197.9	1134.1	1073.7	1040.4	1034.5	1028.0	1026.0	1080.7	1164.7	1039.6
42.5°	1317.6	1294.1	1207.1	1147.3	1129.8	1134.1	1132.5	1141.9	1235.2	1347.2	1191.0
45°	1423.1	1392.7	1288.2	1225.9	1228.3	1243.1	1252.2	1290.0	1429.0	1556.7	1354.2
47.5°	1512.4	1482.6	1366.2	1310.9	1339.1	1368.3	1393.2	1464.5	1628.1	1762.9	1481.0
50°	1588.9	1560.8	1448.8	1404.3	1467.8	1514.9	1555.3	1661.0	1842.1	1919.8	1569.9
52.5°	1651.6	1632.8	1534.3	1511.3	1614.9	1683.8	1743.1	1869.7	2031.7	2047.3	1639.1
55°	1712.5	1699.1	1626.5	1638.7	1787.6	1881.5	1956.5	2091.1	2195.1	2153.7	1705.4
57.5°	1782.6	1770.4	1731.3	1800.0	2014.6	2132.7	2214.5	2287.4	2338.9	2262.4	1768.1
60°	1854.1	1847.1	1848.0	1979.3	2275.4	2388.7	2434.0	2452.8	2480.0	2364.7	1771.5
62.5°	1922.4	1935.7	1981.4	2178.8	2525.0	2612.1	2634.9	2653.5	2621.4	2381.0	1636.7
65°	2037.9	2059.7	2168.8	2445.9	2799.5	2892.7	2916.2	2852.5	2643.8	2171.1	1331.4
67.5°	2094.4	2134.4	2328.8	2694.9	3066.0	3169.5	3160.8	2865.5	2372.6	1655.6	854.4
69°	2082.6	2125.2	2365.7	2771.2	3154.5	3248.3	3193.0	2707.1	2021.2	1199.3	524.5
70°	2036.0	2079.1	2346.7	2768.3	3165.7	3240.1	3133.2	2511.6	1709.0	877.0	328.0
72.5°	1700.3	1737.4	2083.3	2502.1	2916.2	2855.8	2621.2	1740.1	832.8	238.8	73.9
75°	1046.6	1067.4	1494.8	1884.9	2202.6	2047.3	1746.4	865.7	248.2	67.5	41.0
77.5°	553.0	562.3	818.4	1111.0	1396.3	1155.3	895.1	337.6	114.4	42.4	29.6
80°	326.8	333.9	440.8	508.0	604.2	504.7	358.0	207.3	81.8	26.6	26.3
82.5°	187.1	191.5	319.6	282.3	238.0	203.3	178.1	196.4	49.1	17.9	27.4
85°	68.8	69.6	179.7	214.8	141.6	84.2	88.5	162.8	13.2	11.3	21.5
87.5°	32.0	31.2	92.5	131.5	82.8	53.4	69.0	35.7	5.1	7.3	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

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	590.5	590.5	590.5	590.5	590.5	590.5	590.5	590.5	590.5	590.5	590.5
2.5°	583.6	574.8	559.1	542.8	526.4	513.6	501.2	491.3	488.1	482.0	482.4
5°	565.6	549.7	516.7	483.3	448.5	419.8	392.7	370.8	360.2	349.4	349.4
7.5°	550.1	526.8	475.3	420.9	364.7	317.4	274.8	242.8	225.2	211.1	210.9
10°	544.2	512.8	440.8	362.8	284.5	220.0	169.5	136.9	120.1	109.4	108.9
12.5°	546.9	507.7	414.1	309.2	210.9	141.4	98.2	77.1	70.2	66.8	66.8
15°	554.4	506.3	387.6	256.8	148.9	88.5	65.2	59.5	59.1	59.1	59.1
17.5°	563.6	506.9	360.2	205.6	101.4	63.3	56.3	55.5	56.0	56.0	56.0
20°	572.9	507.1	330.8	158.3	71.6	55.0	53.0	52.7	53.2	53.2	53.4
22.5°	584.4	508.3	301.4	118.3	59.1	52.0	50.4	50.4	50.6	50.6	50.4
25°	597.6	510.6	270.9	87.7	53.9	49.9	48.5	48.2	48.5	48.2	48.0
27.5°	614.1	513.8	236.6	68.8	51.6	47.7	46.6	46.6	46.3	46.1	45.9
30°	634.8	517.7	198.3	58.4	49.1	45.9	44.7	44.5	44.2	43.8	43.8
32.5°	666.4	525.9	160.5	53.0	46.6	43.2	42.4	42.4	41.8	41.4	41.2
35°	714.9	542.2	126.6	49.6	43.8	40.4	39.4	39.4	38.8	38.6	38.4
37.5°	781.9	566.8	98.4	46.6	41.0	37.3	36.3	35.9	35.5	35.1	34.9
40°	871.2	597.4	77.5	43.8	38.1	34.3	33.5	33.0	32.0	31.2	31.2
42.5°	983.2	632.3	62.9	40.8	34.9	31.5	30.8	30.1	28.5	27.8	27.6
45°	1100.2	663.5	53.2	37.1	31.5	28.7	28.2	27.1	24.9	24.2	24.2
47.5°	1184.7	670.9	46.9	33.9	28.5	25.6	25.4	23.3	21.5	21.0	20.8
50°	1237.5	656.4	41.6	30.6	25.6	22.8	22.1	19.5	18.3	17.9	17.7
52.5°	1273.0	630.9	37.3	27.8	23.1	20.2	18.6	16.7	15.8	15.3	15.3
55°	1301.4	594.6	33.3	25.1	21.0	18.1	15.8	14.3	13.4	12.9	12.9
57.5°	1309.5	545.4	29.0	23.1	18.8	16.0	13.4	12.4	11.3	11.0	11.0
60°	1251.3	456.7	25.6	20.4	16.9	13.8	11.8	10.6	9.4	9.2	9.0
62.5°	1098.2	353.5	22.6	18.1	14.9	12.0	10.2	8.7	7.7	7.7	7.7
65°	837.7	237.0	19.7	15.8	12.9	10.2	8.7	7.1	6.5	6.5	6.8
67.5°	501.4	128.9	16.9	13.4	11.0	8.5	7.3	6.1	5.9	6.1	6.1
69°	293.9	75.7	15.3	12.0	9.7	7.5	6.3	5.5	5.9	6.1	6.1
70°	181.4	51.1	14.1	10.8	8.7	6.8	5.9	5.1	5.7	5.9	5.9
72.5°	50.6	26.3	11.3	8.5	7.1	5.7	4.7	4.7	5.5	5.7	5.7
75°	33.0	19.5	8.7	6.3	5.5	4.5	4.1	4.5	5.1	5.5	5.5
77.5°	27.4	16.0	7.1	5.1	4.5	4.3	3.8	4.1	4.7	4.9	4.9
80°	24.9	11.3	5.7	4.7	4.1	3.8	3.5	3.3	4.3	4.5	4.5
82.5°	23.8	9.0	4.9	4.3	3.8	3.3	3.1	3.3	3.8	4.1	4.3
85°	14.9	5.9	4.5	4.1	3.3	3.1	3.1	3.1	3.5	3.8	3.8
87.5°	5.5	4.7	4.1	3.3	2.8	2.8	2.8	2.8	3.1	3.5	3.5
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)