

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: P193199

Luminaire Tested: **GLEON-AF-01-LED-E1-T3-7030-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193199
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24140)
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-T3-7030-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3000K, 1200mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6613.5 lumens
Efficiency: N/A
Efficacy: 98.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short - Full Cutoff
BUG Rating: B1 - U0 - G2

Input Watts (W): 67
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

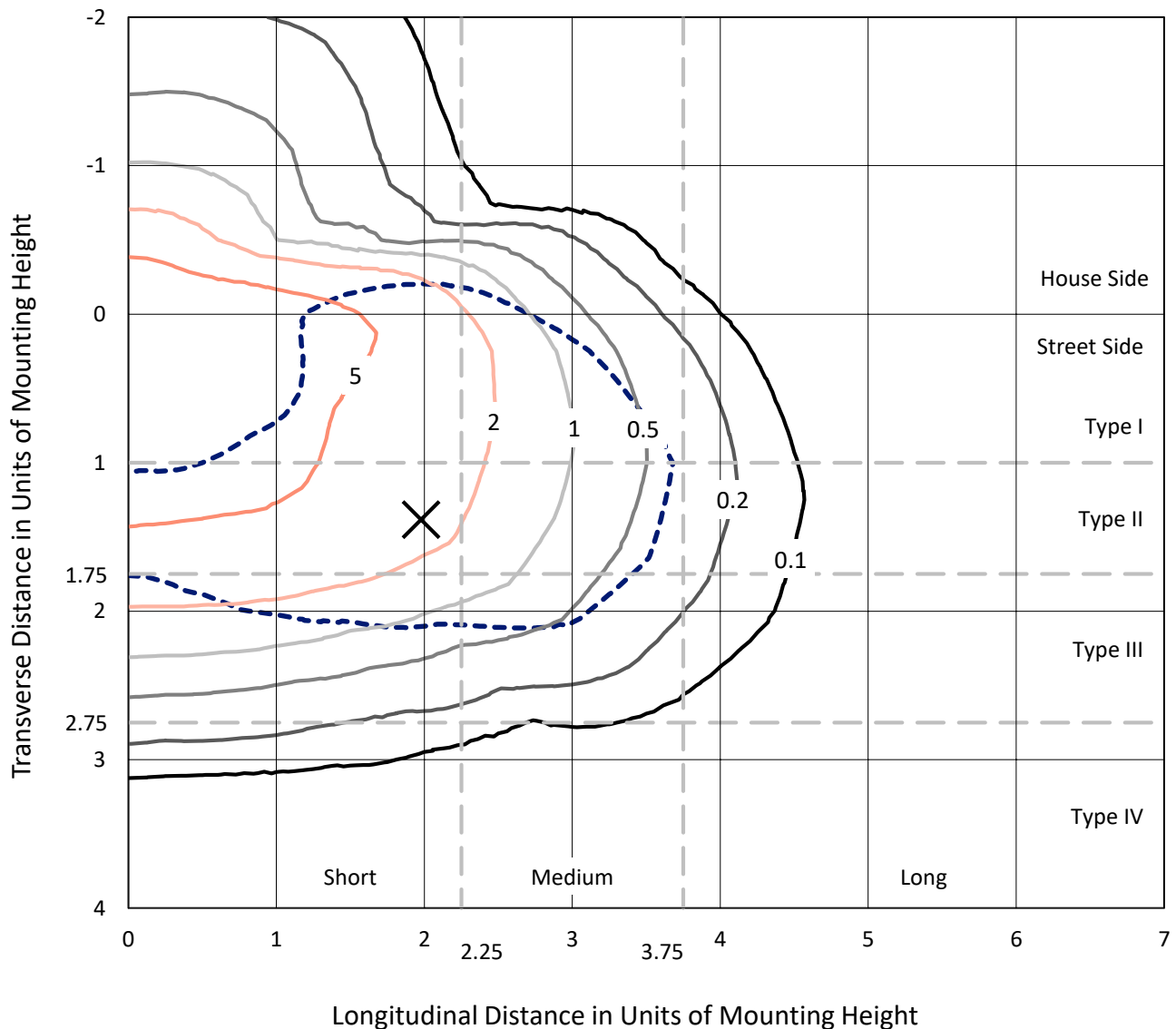


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

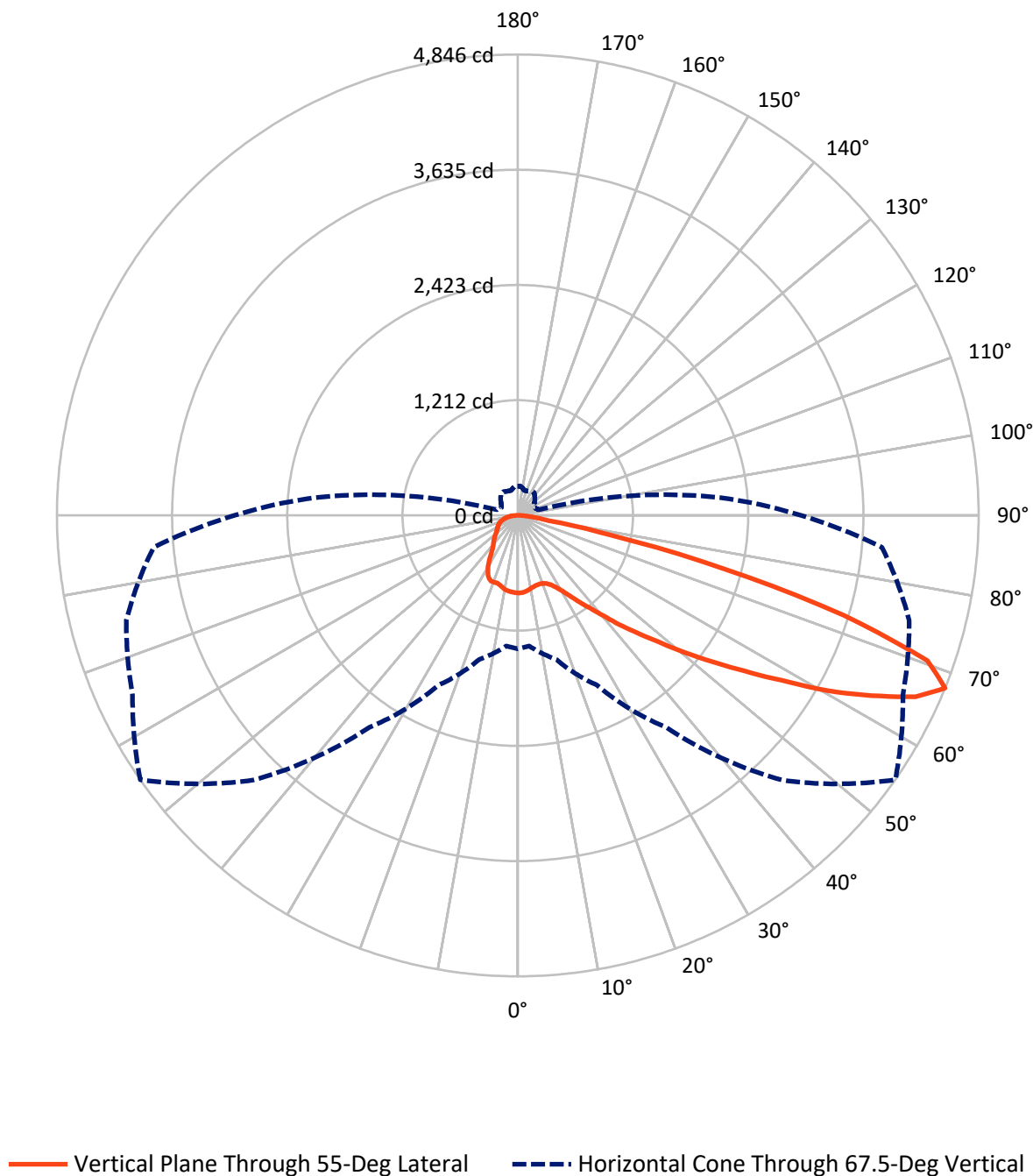


Based on 10 foot mounting height. Maximum calculated value = 8.4 fc
 Type III - Short - Full Cutoff

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Luminous Intensity Polar Plot



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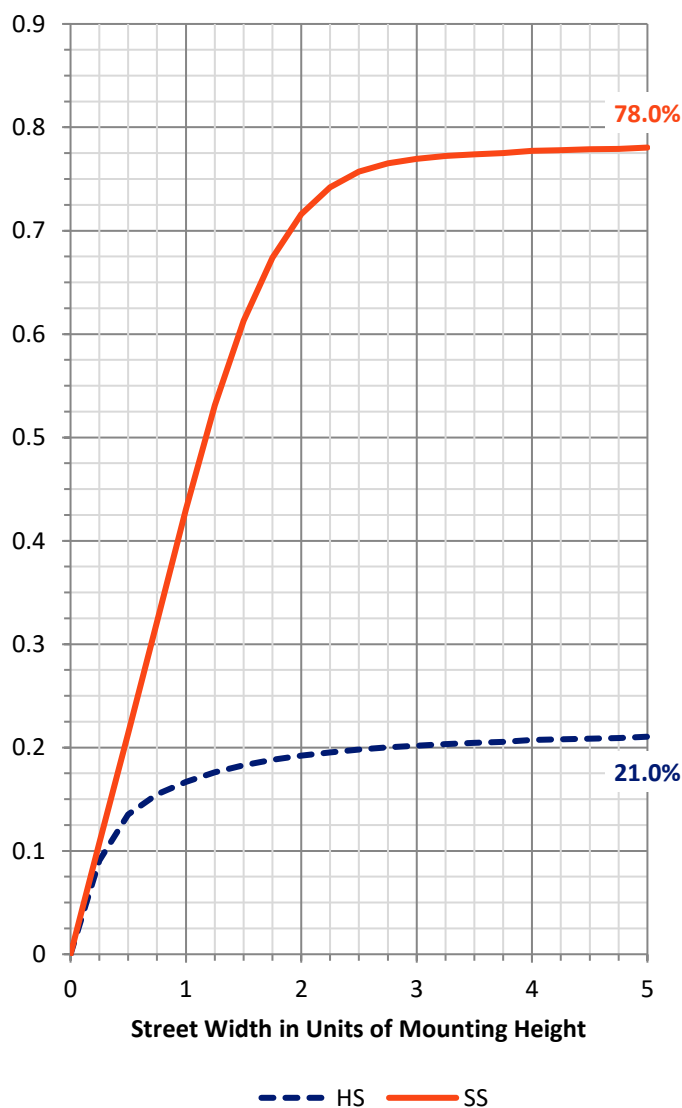
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1428.6	0.0	1428.6
	% Fixture	21.6	0.0	21.6
Street Side	Lumens	5184.8	0.0	5184.8
	% Fixture	78.4	0.0	78.4
Total	Lumens	6613.5	0.0	6613.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	76.1	1.2
10°-20°	215.6	3.3
20°-30°	361.1	5.5
30°-40°	593.8	9.0
40°-50°	999.6	15.1
50°-60°	1573.3	23.8
60°-70°	1877.6	28.4
70°-80°	806.3	12.2
80°-90°	109.9	1.7
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°	6613.5	100.0
0°-180°	6613.5	100.0

Coefficient of Utilization



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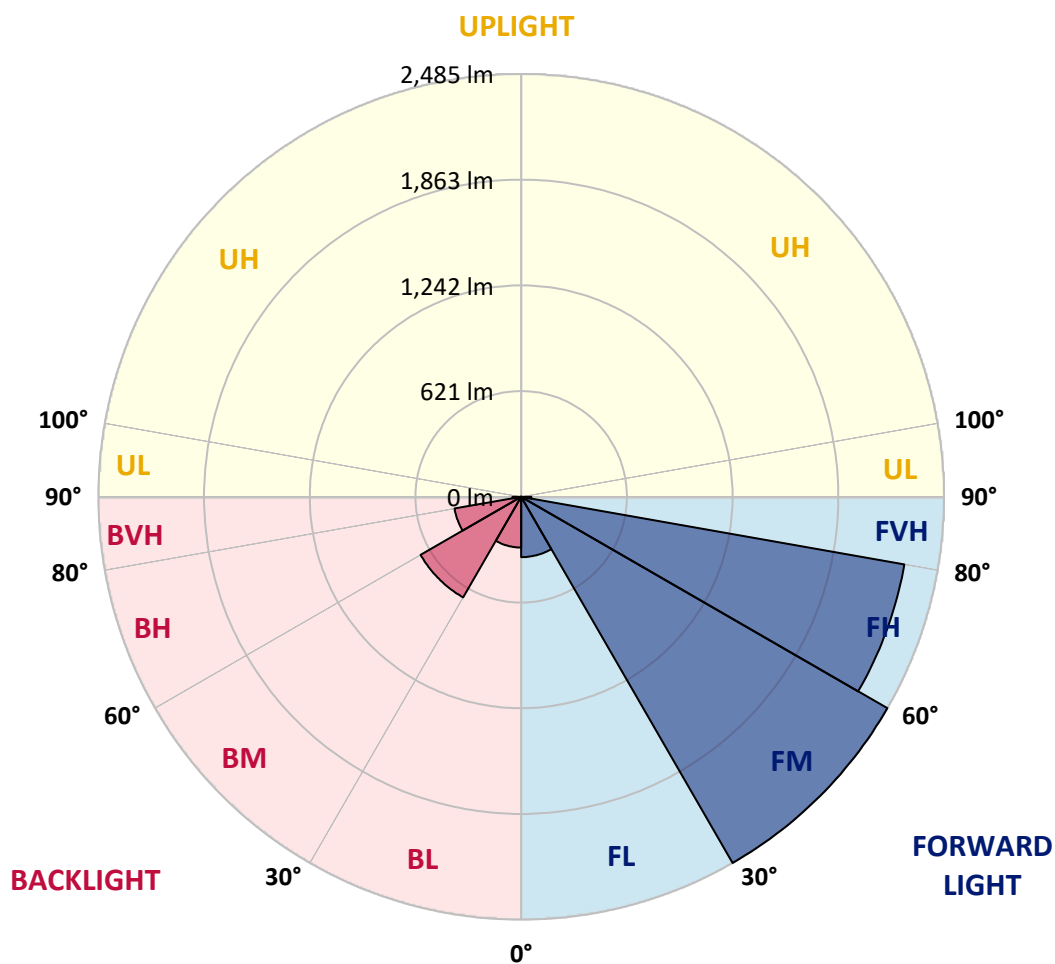
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	354.5	5.4			
FM	(30°-60°)	2484.5	37.6			
FH	(60°-80°)	2286.3	34.6			G2/5000
FVH	(80°-90°)	59.5	0.9			G1/100
BL	(0°-30°)	298.3	4.5	B1/500		
BM	(30°-60°)	682.3	10.3	B1/1000		
BH	(60°-80°)	397.6	6.0	B1/500		G1/500
BVH	(80°-90°)	50.4	0.8			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 III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	815.5	815.5	815.5	815.5	815.5	815.5	815.5	815.5	815.5	815.5	815.5
2.5°	808.5	808.8	809.4	812.1	814.2	813.6	813.9	812.7	812.4	810.3	812.4
5°	798.2	799.2	799.6	803.7	806.3	806.9	805.9	804.3	802.4	800.6	801.4
7.5°	774.9	777.5	777.8	783.6	787.8	793.1	793.4	793.8	792.7	791.6	793.4
10°	760.2	760.9	760.6	764.7	767.9	774.0	777.5	783.6	786.1	786.7	788.1
12.5°	759.3	758.7	757.7	757.7	756.7	759.3	765.7	774.3	780.3	782.3	783.9
15°	769.5	769.1	766.0	761.2	755.1	753.3	758.7	768.2	776.2	780.3	782.0
17.5°	792.5	790.6	785.5	774.6	761.5	756.4	757.0	765.1	774.3	779.8	781.3
20°	834.6	834.6	823.9	803.4	780.0	767.9	762.2	767.0	775.8	783.3	785.5
22.5°	907.5	908.2	889.9	856.4	817.1	791.2	776.9	775.8	786.4	794.8	797.3
25°	1010.6	1008.1	982.6	934.7	874.9	832.1	807.2	801.4	810.3	819.7	822.8
27.5°	1130.9	1121.5	1091.2	1033.4	956.0	893.4	855.2	845.8	854.5	865.0	868.2
30°	1249.6	1240.1	1203.9	1140.6	1054.8	975.5	920.6	905.5	917.8	932.7	934.7
32.5°	1368.5	1368.5	1328.1	1254.4	1160.8	1073.6	1007.8	989.9	1010.0	1028.2	1032.4
35°	1510.6	1511.3	1472.3	1383.4	1282.8	1190.5	1118.0	1104.9	1135.3	1148.1	1157.9
37.5°	1685.4	1688.8	1638.7	1531.4	1421.1	1324.0	1237.8	1219.9	1250.3	1285.1	1317.0
40°	1874.2	1878.6	1823.3	1691.2	1580.9	1479.3	1386.1	1353.7	1404.2	1470.6	1511.9
42.5°	2054.3	2077.2	2023.9	1887.9	1769.4	1664.2	1569.7	1522.7	1586.0	1686.3	1722.0
45°	2314.6	2331.3	2238.2	2114.9	2003.5	1886.0	1760.7	1711.2	1799.7	1926.1	1933.6
47.5°	2488.1	2475.6	2428.3	2351.7	2281.2	2171.2	1982.7	1928.4	2046.0	2194.8	2153.6
50°	2580.3	2584.2	2577.9	2582.4	2584.8	2515.8	2254.9	2180.5	2320.6	2500.5	2405.7
52.5°	2666.6	2641.2	2662.1	2766.9	2893.4	2867.8	2550.9	2473.4	2615.2	2839.7	2672.1
55°	2664.8	2625.7	2694.5	2879.4	3153.8	3183.2	2883.6	2794.1	2926.6	3203.6	2954.5
57.5°	2570.5	2572.4	2678.2	2920.3	3335.2	3479.6	3269.4	3135.2	3256.9	3572.2	3212.2
60°	2440.8	2458.4	2610.8	2913.5	3480.6	3722.7	3742.7	3502.9	3580.5	3907.3	3425.6
62.5°	2231.5	2250.0	2460.3	2843.9	3458.5	3956.9	4170.9	3920.1	3918.8	4110.5	3488.2
65°	1901.5	1896.2	2116.9	2583.6	3273.5	4130.0	4596.0	4280.7	4173.7	4113.6	3362.4
67.5°	1402.4	1378.1	1567.5	1967.8	2720.9	3936.1	4846.0	4468.6	4260.6	3843.0	2977.8
70°	727.6	703.4	856.7	1149.0	1789.4	3072.0	4569.2	4371.5	4068.6	3221.5	2332.8
72.5°	311.2	307.0	369.3	504.0	865.7	1771.8	3582.7	3783.6	3491.1	2400.2	1603.9
75°	209.2	207.9	231.3	274.7	389.4	719.0	2242.1	2685.8	2554.2	1488.2	902.1
77.5°	164.2	162.6	176.4	197.4	252.4	283.6	995.1	1441.9	1334.6	647.8	394.9
80°	128.4	127.2	135.8	147.3	181.5	178.8	327.4	573.7	444.0	248.2	192.0
82.5°	101.3	101.3	108.2	108.6	128.7	122.1	170.9	252.7	221.7	144.7	117.6
85°	92.7	92.7	100.0	81.2	84.0	77.0	106.1	149.8	140.5	59.4	51.2
87.5°	46.7	45.4	84.0	71.9	45.7	40.9	51.8	72.5	77.9	32.9	25.5
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	815.5	815.5	815.5	815.5	815.5	815.5	815.5	815.5	815.5	815.5
2.5°	811.7	811.4	812.1	812.4	814.8	818.4	820.0	822.1	823.5	822.8
5°	802.1	802.7	805.2	807.2	811.7	817.5	820.6	823.2	825.5	824.5
7.5°	794.1	795.7	799.6	801.1	803.7	805.2	805.0	805.9	807.9	805.6
10°	789.6	791.6	794.5	792.2	786.1	777.5	769.5	765.4	766.7	765.1
12.5°	785.1	787.8	785.5	774.9	758.0	746.8	740.8	741.5	744.3	744.9
15°	782.7	783.6	774.0	754.2	737.0	735.4	738.5	737.9	738.1	738.1
17.5°	782.7	780.0	762.2	742.4	735.0	732.1	722.2	709.7	704.4	702.4
20°	786.7	780.0	758.4	745.2	729.3	704.7	678.5	655.4	645.2	642.3
22.5°	799.2	787.8	769.1	746.6	701.1	659.9	618.4	591.0	572.4	569.2
25°	824.5	811.7	790.6	729.7	656.4	597.6	550.3	519.7	501.2	498.7
27.5°	868.5	860.2	802.1	692.1	597.0	534.1	490.3	466.6	453.0	452.0
30°	934.9	930.8	796.4	637.0	523.9	472.4	451.4	437.6	427.4	427.1
32.5°	1041.0	1007.5	777.5	569.6	457.1	428.8	420.1	411.8	403.7	403.7
35°	1177.4	1069.4	741.8	497.3	416.5	404.4	393.6	380.4	370.0	369.3
37.5°	1337.8	1107.8	677.5	439.2	397.3	388.1	372.1	352.7	334.2	330.9
40°	1499.7	1119.3	587.2	403.5	385.2	371.8	352.4	329.3	311.5	310.6
42.5°	1648.2	1097.3	491.3	378.8	373.1	355.2	334.8	314.3	300.3	299.9
45°	1772.8	1040.0	410.9	355.5	360.3	340.3	322.0	305.4	294.6	292.3
47.5°	1890.0	959.3	354.2	330.9	347.6	331.9	316.6	300.9	290.4	288.8
50°	2026.2	872.0	314.6	307.0	336.4	329.0	321.0	304.8	287.2	285.2
52.5°	2190.9	796.7	283.6	285.9	327.8	332.8	332.4	315.6	284.9	282.3
55°	2375.0	713.0	260.4	268.7	324.2	339.9	335.4	325.8	286.8	283.0
57.5°	2556.1	615.2	244.0	255.5	319.1	339.2	321.7	307.9	291.2	285.9
60°	2691.8	483.9	231.6	244.0	307.9	328.7	306.7	288.5	290.4	286.3
62.5°	2700.8	374.1	216.6	234.2	290.9	318.2	296.7	279.8	294.6	290.6
65°	2542.0	282.7	202.2	222.4	272.8	311.5	287.2	275.0	303.2	299.1
67.5°	2140.2	227.5	190.1	210.3	254.6	297.4	278.5	270.5	310.9	303.4
70°	1545.2	193.9	178.2	195.5	238.3	281.5	270.9	262.6	290.1	278.5
72.5°	951.3	168.0	164.9	176.0	225.8	264.9	259.4	247.6	261.3	252.1
75°	474.9	145.7	149.8	156.8	208.2	246.0	240.3	228.4	230.3	228.4
77.5°	227.5	124.5	132.2	137.6	185.6	224.5	218.5	206.4	204.1	204.5
80°	144.1	104.2	111.5	115.3	165.7	199.6	193.6	181.5	207.0	192.0
82.5°	90.0	84.6	86.6	93.6	144.3	173.7	165.7	154.9	186.5	147.6
85°	49.8	59.1	61.6	67.7	111.1	145.4	137.3	123.6	110.8	108.9
87.5°	29.7	35.2	36.0	40.5	74.8	105.1	93.0	88.2	73.2	72.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)