

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: P193109

Luminaire Tested: **GLEON-AF-01-LED-E1-T2-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193109
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24139)
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-T2-7030
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3000K, 1050mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5915.3 lumens
Efficiency: N/A
Efficacy: 100.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Medium - Full 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



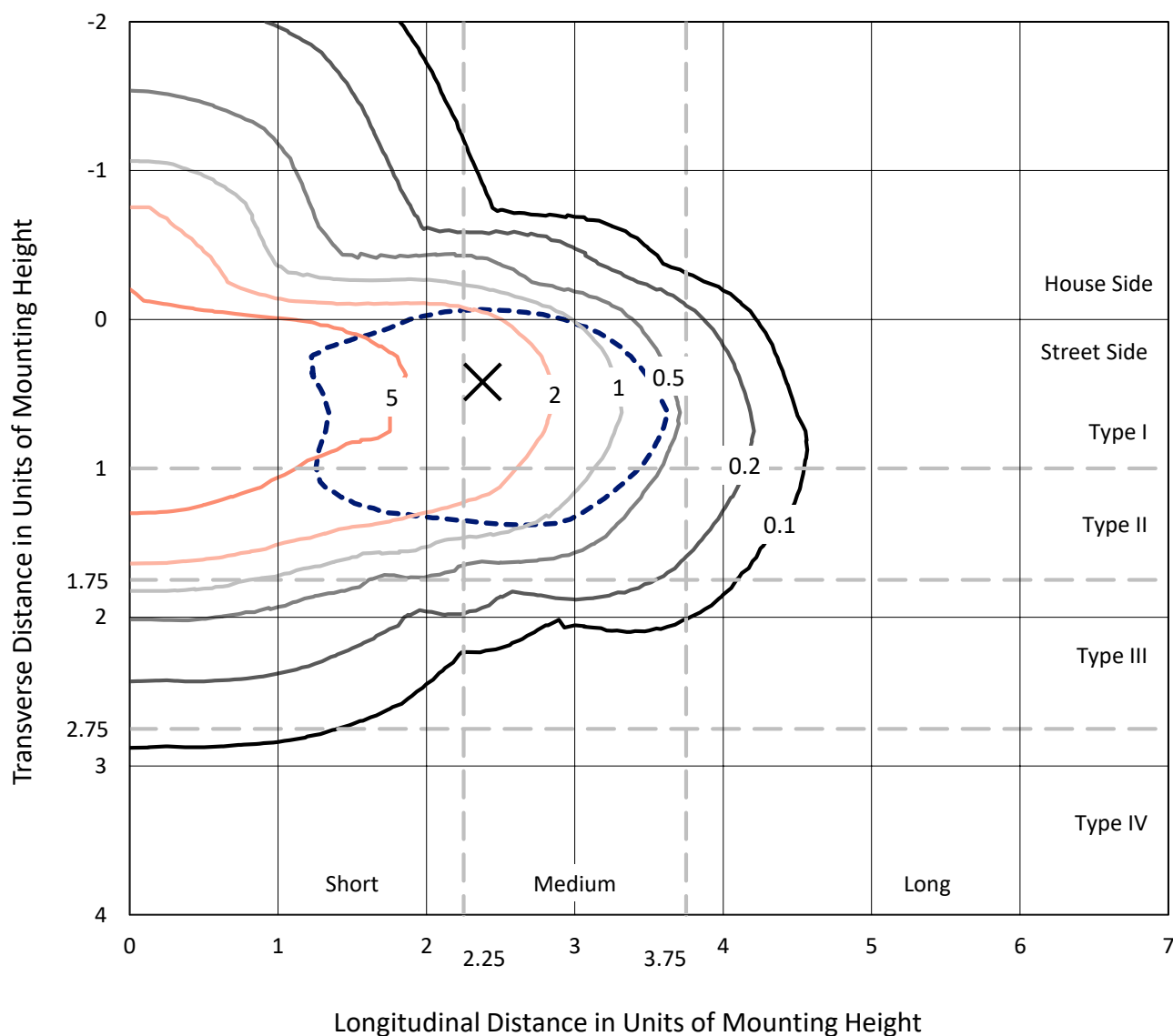
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

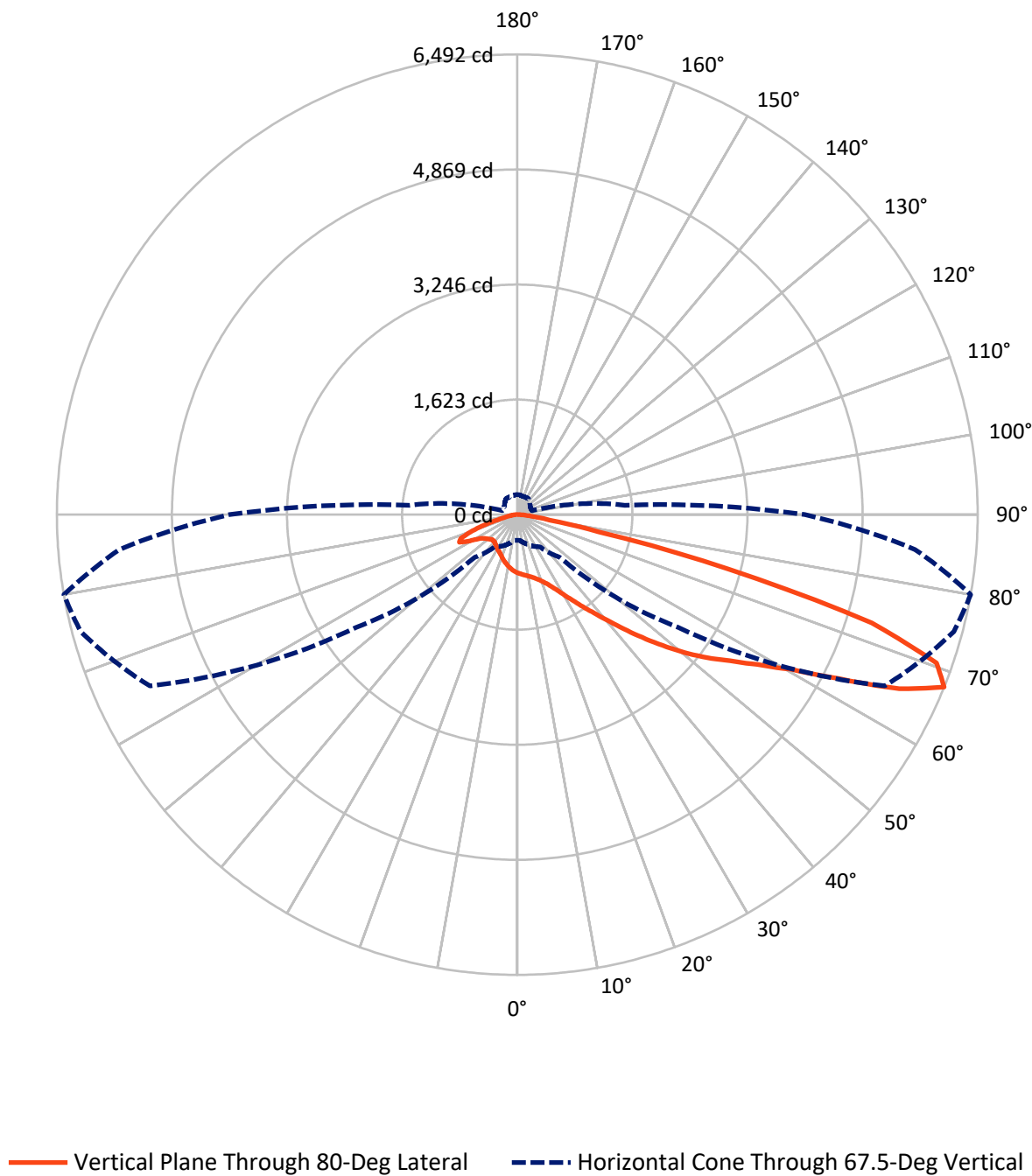


Based on 10 foot mounting height. Maximum calculated value = 10 fc
Type II - Medium - Full Cutoff

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Luminous Intensity Polar Plot



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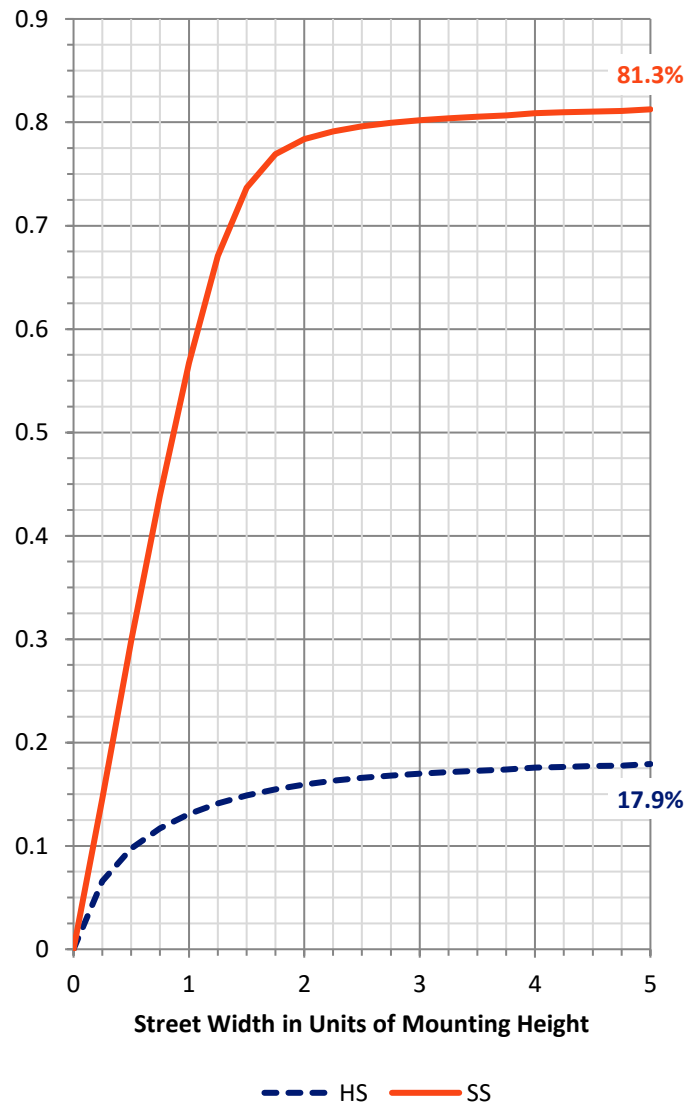
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1089.4	0.0	1089.4
	% Fixture	18.4	0.0	18.4
Street Side	Lumens	4825.9	0.0	4825.9
	% Fixture	81.6	0.0	81.6
Total	Lumens	5915.3	0.0	5915.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	75.8	1.3
10°-20°	218.4	3.7
20°-30°	361.5	6.1
30°-40°	591.3	10.0
40°-50°	954.7	16.1
50°-60°	1378.3	23.3
60°-70°	1521.0	25.7
70°-80°	701.1	11.9
80°-90°	113.4	1.9
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°	5915.3	100.0
0°-180°	5915.3	100.0

Coefficient of Utilization



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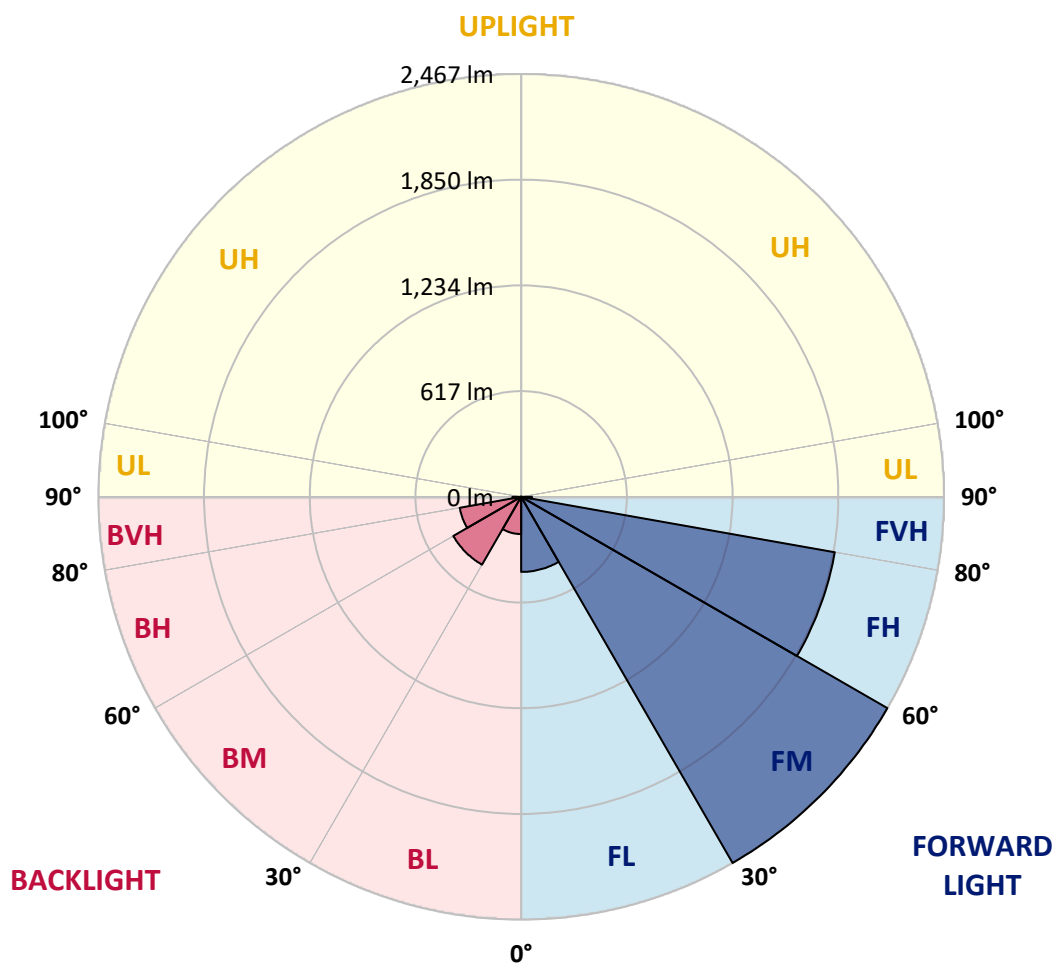
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	438.3	7.4			
FM	(30°-60°)	2467.1	41.7			
FH	(60°-80°)	1858.2	31.4			G2/5000
FVH	(80°-90°)	62.3	1.1			G1/100
BL	(0°-30°)	217.3	3.7	B1/500		
BM	(30°-60°)	457.1	7.7	B1/1000		
BH	(60°-80°)	363.9	6.2	B1/500		G1/500
BVH	(80°-90°)	51.1	0.9			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 II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	80°	85°
0°	821.8	821.8	821.8	821.8	821.8	821.8	821.8	821.8	821.8	821.8	821.8
2.5°	898.9	893.7	894.7	893.2	888.9	881.1	873.1	858.2	842.8	834.6	828.1
5°	974.1	972.6	970.7	966.0	954.9	939.2	919.6	893.4	865.3	850.4	836.1
7.5°	1030.4	1029.4	1026.8	1023.9	1013.2	994.3	964.8	927.5	886.4	866.1	843.9
10°	1035.0	1036.5	1038.5	1046.3	1047.8	1037.6	1007.6	962.5	908.6	882.4	854.1
12.5°	995.4	998.5	1006.4	1026.5	1047.8	1060.4	1044.8	999.1	934.5	902.8	867.0
15°	942.9	944.6	954.3	982.0	1020.2	1058.8	1073.4	1039.6	968.0	928.9	886.2
17.5°	920.5	921.4	928.0	946.4	982.0	1037.3	1089.5	1083.7	1009.0	961.6	909.8
20°	909.1	911.2	920.8	938.9	961.3	1009.7	1091.7	1131.1	1057.9	1002.4	939.4
22.5°	941.5	940.6	944.1	953.2	972.1	1001.2	1090.0	1180.0	1120.4	1054.8	978.2
25°	1016.8	1020.2	1014.0	1003.8	1009.9	1030.4	1099.3	1233.0	1198.3	1122.1	1028.9
27.5°	1124.4	1121.2	1112.1	1088.2	1075.7	1084.5	1130.2	1290.2	1295.3	1210.6	1095.9
30°	1231.6	1228.9	1220.2	1191.0	1165.5	1158.1	1190.2	1355.6	1411.0	1316.9	1178.0
32.5°	1342.8	1339.8	1331.8	1302.6	1271.8	1254.9	1275.5	1431.3	1547.2	1443.9	1274.6
35°	1479.9	1474.5	1457.2	1416.8	1386.5	1373.4	1383.0	1526.6	1704.5	1594.1	1392.0
37.5°	1609.0	1617.4	1599.9	1544.1	1504.7	1500.0	1510.8	1642.7	1874.1	1762.2	1526.8
40°	1738.6	1740.0	1724.3	1678.5	1638.2	1630.4	1657.6	1783.6	2074.1	1963.1	1690.8
42.5°	1872.4	1875.4	1848.8	1806.7	1777.0	1778.4	1809.4	1948.8	2303.5	2199.8	1879.5
45°	2031.2	2035.6	2006.4	1951.2	1924.0	1978.4	1965.7	2134.1	2555.1	2468.9	2096.1
47.5°	2197.2	2203.9	2181.8	2129.9	2096.1	2171.0	2122.1	2339.3	2826.0	2757.4	2334.1
50°	2287.8	2297.4	2318.9	2315.2	2307.9	2295.3	2296.5	2559.5	3105.2	3058.0	2578.7
52.5°	2239.2	2238.8	2317.5	2413.0	2514.9	2522.5	2509.1	2791.6	3366.2	3351.8	2809.0
55°	2016.7	2031.7	2150.9	2335.9	2614.2	2788.1	2827.7	3057.5	3622.4	3639.0	3042.9
57.5°	1646.2	1658.8	1819.5	2077.2	2480.3	2945.9	3280.8	3443.9	3909.0	3986.5	3354.3
60°	1116.5	1131.7	1302.1	1611.6	2119.7	2858.0	3712.1	4133.5	4252.1	4428.2	3791.1
62.5°	656.1	669.8	808.7	1016.6	1492.5	2449.4	3901.4	5114.7	4796.9	5094.8	4457.3
65°	451.7	461.0	528.6	632.8	857.5	1649.7	3666.6	5792.0	5635.3	5920.6	5229.9
67.5°	363.4	362.3	415.8	486.9	552.2	850.6	2772.7	5715.4	6372.6	6491.7	5630.9
70°	299.4	298.2	334.6	393.5	441.2	479.1	1510.3	4823.1	6222.5	6270.7	5261.7
72.5°	250.4	251.7	274.9	318.6	361.9	360.8	663.6	3392.9	4895.1	5229.3	4194.4
75°	211.4	212.0	227.5	258.3	293.8	290.6	359.9	1838.2	2845.4	3078.2	2325.0
77.5°	180.0	180.6	190.4	207.6	232.9	231.8	262.7	794.1	1187.0	1172.5	795.3
80°	160.5	160.5	165.1	168.4	182.4	177.1	194.8	381.6	501.7	463.4	317.4
82.5°	125.7	126.4	154.9	153.7	143.5	136.9	136.9	224.8	265.8	245.9	185.7
85°	70.8	70.5	99.9	120.5	126.4	96.3	95.5	125.7	144.8	127.5	90.0
87.5°	30.3	30.9	46.3	53.5	71.7	60.0	59.1	64.9	73.6	63.8	41.6
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°	821.8	821.8	821.8	821.8	821.8	821.8	821.8	821.8	821.8	821.8	821.8
2.5°	822.0	814.5	797.9	777.3	758.6	746.4	735.4	719.3	720.1	709.1	700.9
5°	821.5	805.8	767.3	721.6	677.6	645.9	622.0	600.5	595.3	585.1	579.0
7.5°	822.0	796.5	731.8	658.8	604.3	564.1	543.7	532.3	529.7	526.2	526.5
10°	824.2	788.0	692.8	600.0	542.8	516.4	511.4	514.8	519.0	520.1	520.4
12.5°	828.8	780.4	650.0	547.5	504.3	496.2	504.7	516.6	524.5	528.3	527.9
15°	839.3	774.6	608.9	506.4	483.2	487.6	503.2	520.1	531.4	536.7	537.0
17.5°	850.6	766.2	566.7	474.9	467.4	478.4	498.0	517.8	531.8	537.5	538.7
20°	865.5	755.7	522.5	451.4	452.6	465.1	483.4	503.2	518.7	523.6	526.0
22.5°	885.0	744.4	483.7	432.1	435.6	445.2	459.6	476.7	490.1	492.4	494.5
25°	911.2	732.1	452.9	414.6	416.2	421.6	431.2	441.5	450.8	448.2	450.2
27.5°	946.4	721.6	429.8	398.7	396.1	397.2	402.2	405.4	410.3	403.0	403.9
30°	987.8	710.3	412.0	384.7	377.4	375.5	376.5	378.2	382.1	372.1	370.7
32.5°	1035.9	696.6	395.5	372.5	362.3	358.2	358.8	363.4	378.0	371.9	368.6
35°	1091.7	681.1	378.0	359.0	352.1	346.3	345.7	360.2	403.6	399.9	396.9
37.5°	1157.3	665.7	360.5	343.9	344.5	338.0	336.1	352.7	408.5	393.8	391.7
40°	1240.5	657.5	345.7	327.9	335.2	334.4	330.3	338.7	376.0	348.9	345.4
42.5°	1343.7	658.8	334.6	310.8	324.2	333.5	327.0	327.3	340.7	320.3	317.2
45°	1470.9	672.4	326.8	297.0	311.6	332.5	325.9	321.2	322.5	311.6	309.9
47.5°	1619.4	700.7	321.2	285.7	299.7	329.4	325.6	319.5	316.9	311.1	309.5
50°	1784.5	741.8	317.2	274.9	288.9	324.2	325.9	317.7	314.7	312.5	311.6
52.5°	1946.8	788.7	311.1	265.6	280.5	317.7	326.8	316.0	312.8	311.1	310.2
55°	2127.6	847.2	301.7	257.8	273.4	309.5	326.8	313.3	309.9	310.2	309.9
57.5°	2371.9	941.9	290.6	251.1	265.0	299.7	321.2	310.4	306.0	306.4	306.7
60°	2753.8	1108.7	277.2	244.3	254.6	288.0	313.7	304.1	299.7	300.8	301.1
62.5°	3315.2	1353.6	259.7	234.5	243.4	275.5	303.2	295.9	291.5	294.5	294.5
65°	3898.8	1569.6	238.1	221.9	231.8	261.7	290.1	285.7	281.4	288.0	287.7
67.5°	4055.7	1521.3	216.7	208.2	220.1	246.7	274.3	271.9	269.7	281.4	280.7
70°	3603.0	1221.3	196.8	194.3	207.4	230.3	257.5	257.5	256.0	264.7	262.7
72.5°	2745.0	866.1	178.0	179.4	192.8	212.6	239.1	241.1	238.8	243.2	241.5
75°	1469.4	495.6	159.0	163.2	174.7	194.5	218.7	220.7	219.3	218.9	219.8
77.5°	488.4	242.3	139.2	145.7	155.8	175.9	197.4	200.6	197.1	196.5	196.2
80°	217.5	152.3	117.4	125.7	134.8	154.6	175.1	177.6	173.8	179.0	172.4
82.5°	139.8	100.2	94.1	103.4	112.1	133.4	152.6	153.2	149.6	173.8	148.3
85°	67.8	62.1	70.8	79.2	86.8	104.9	126.4	126.6	117.9	107.5	103.7
87.5°	33.8	36.2	47.2	54.7	58.6	71.9	92.0	90.2	86.6	78.6	72.5
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)