

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: P192999

Luminaire Tested: **GLEON-AF-01-LED-E1-SL4-7030-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192999
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-01-LED-E1-SL4-7030-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3000K, 1200mA LIGHTSQUARE 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: 6282.4 lumens
Efficiency: N/A
Efficacy: 93.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: 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



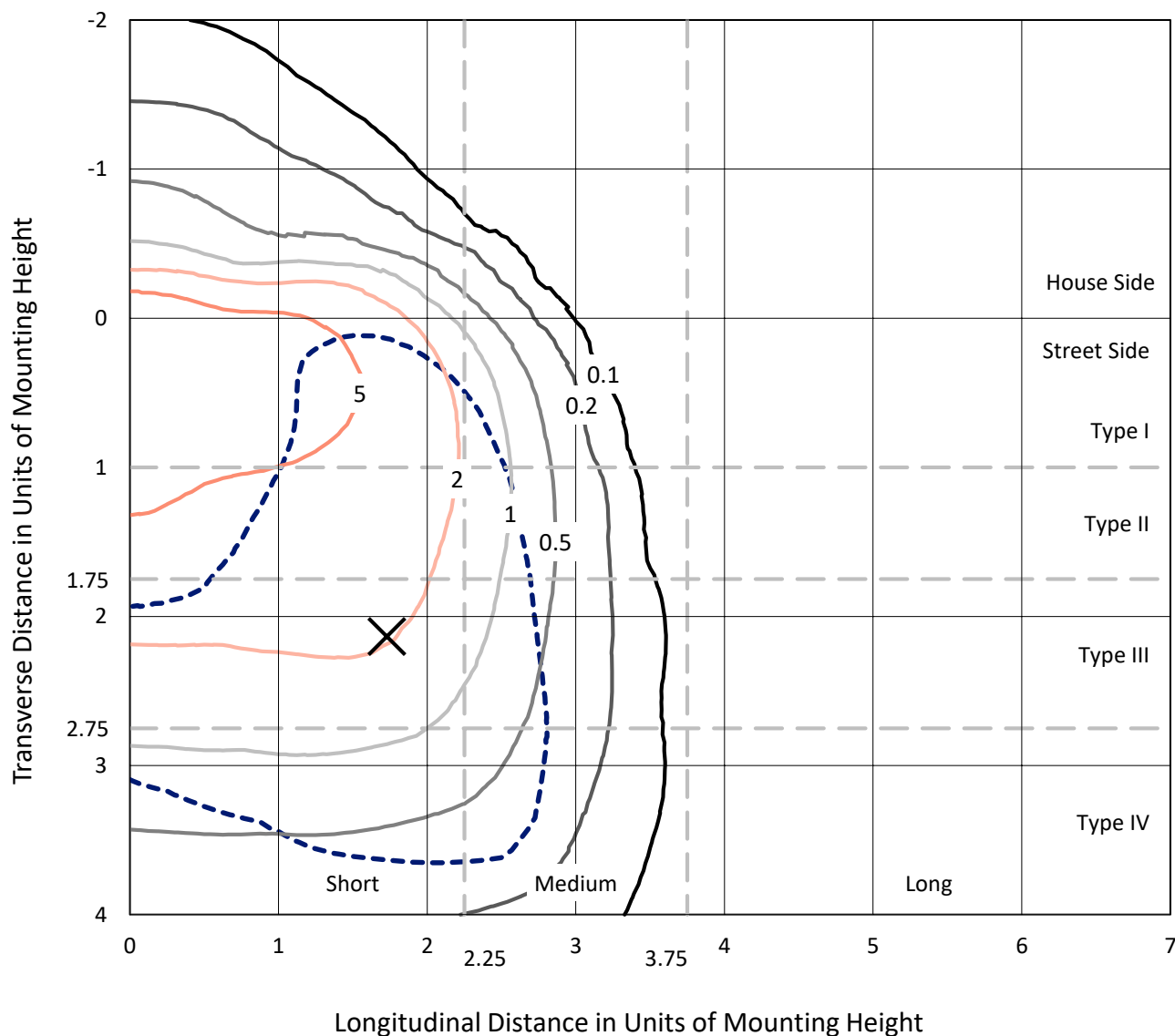
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

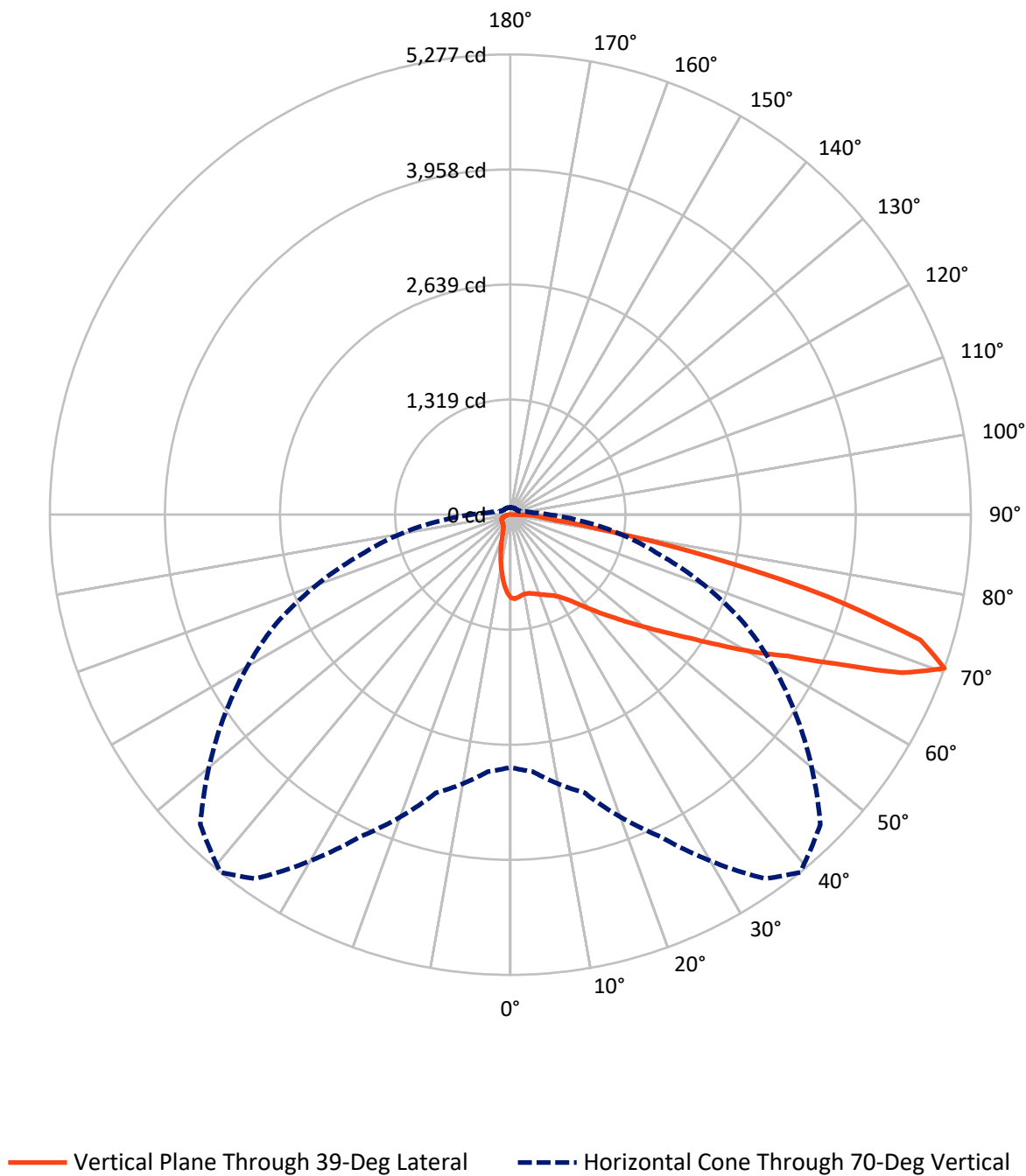


Based on 10 foot mounting height. Maximum calculated value = 9.5 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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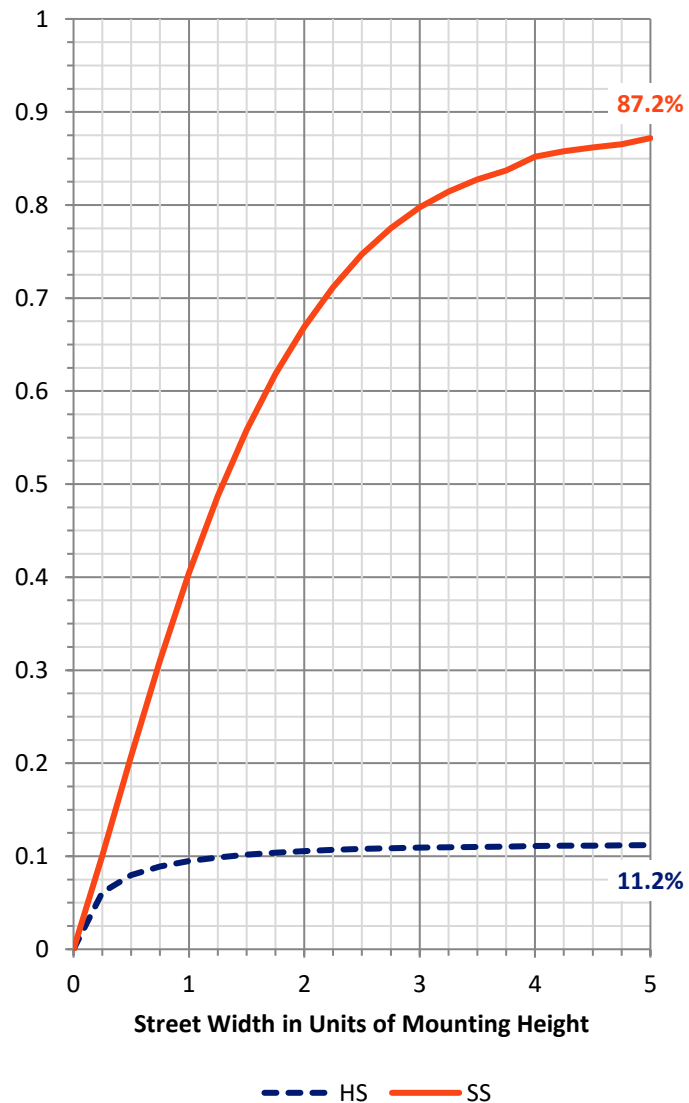
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	714.5	0.0	714.5
	% Fixture	11.4	0.0	11.4
Street Side	Lumens	5567.9	0.0	5567.9
	% Fixture	88.6	0.0	88.6
Total	Lumens	6282.4	0.0	6282.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	81.9	1.3
10°-20°	204.6	3.3
20°-30°	318.6	5.1
30°-40°	496.3	7.9
40°-50°	833.1	13.3
50°-60°	1323.5	21.1
60°-70°	1765.4	28.1
70°-80°	1066.1	17.0
80°-90°	192.9	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°	6282.4	100.0
0°-180°	6282.4	100.0

Coefficient of Utilization



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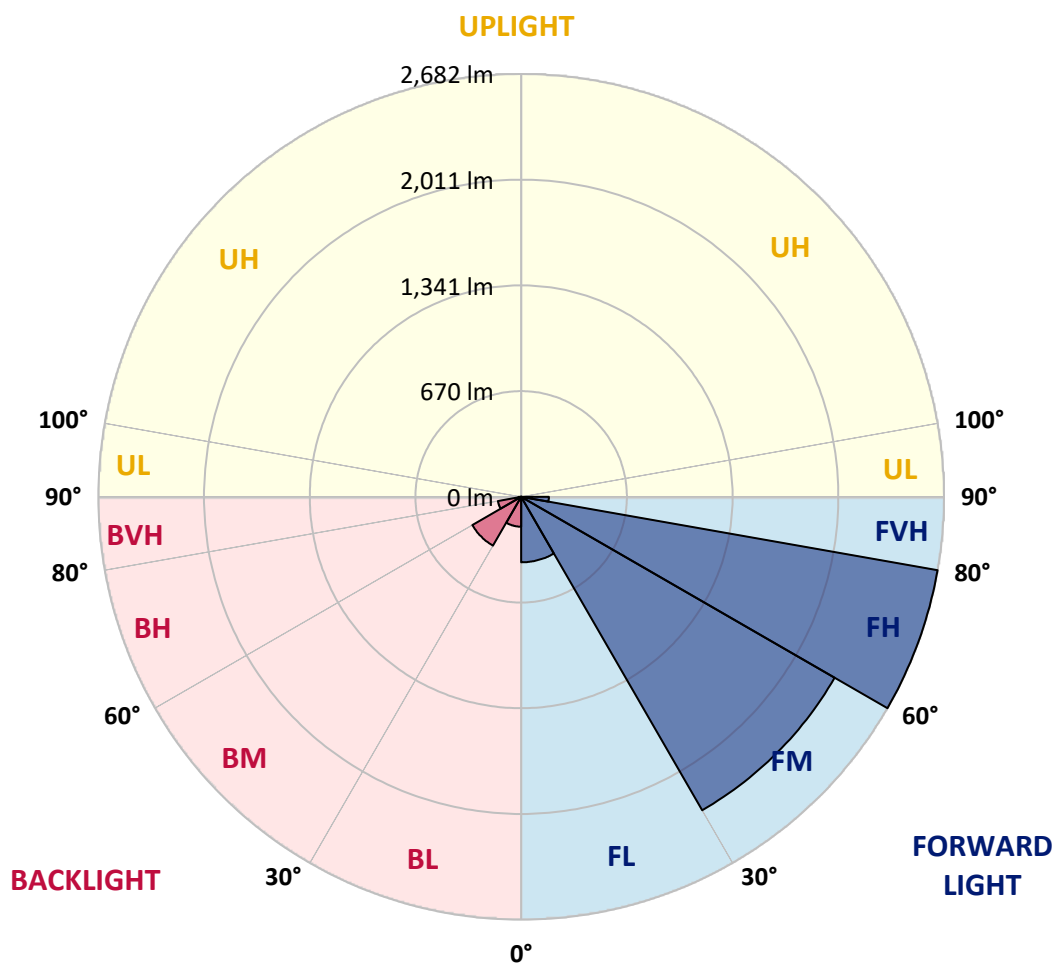
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	415.5	6.6			
FM	(30°-60°)	2295.3	36.5			
FH	(60°-80°)	2681.5	42.7			G2/5000
FVH	(80°-90°)	175.6	2.8			G2/225
BL	(0°-30°)	189.5	3.0	B1/500		
BM	(30°-60°)	357.6	5.7	B1/1000		
BH	(60°-80°)	150.0	2.4	B1/500		G1/500
BVH	(80°-90°)	17.4	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°	953.8	953.8	953.8	953.8	953.8	953.8	953.8	953.8	953.8	953.8	953.8
2.5°	972.3	972.0	969.4	967.5	965.9	965.3	966.5	961.7	957.5	952.5	947.1
5°	965.0	964.6	960.5	956.7	952.8	951.5	951.2	942.6	937.5	929.8	919.6
7.5°	957.0	955.4	949.9	943.6	936.8	933.6	930.5	919.3	913.5	905.9	894.1
10°	948.7	946.7	941.6	935.3	928.8	924.2	918.7	907.7	901.7	895.9	882.3
12.5°	940.0	938.4	937.1	934.2	929.8	925.7	921.5	912.2	905.9	899.1	883.2
15°	938.7	938.1	940.9	942.9	940.4	937.8	933.3	925.3	918.7	911.9	891.1
17.5°	949.0	948.7	956.0	961.2	959.9	955.4	949.3	940.4	934.9	929.1	903.2
20°	971.4	973.0	981.9	988.6	982.2	975.8	965.9	953.4	950.5	948.1	915.8
22.5°	1013.5	1015.1	1021.5	1024.1	1007.5	998.2	984.4	968.5	966.5	968.5	930.8
25°	1079.3	1077.8	1076.8	1067.1	1036.8	1022.4	1004.8	988.2	989.3	997.9	951.8
27.5°	1166.5	1157.8	1144.5	1115.7	1067.5	1051.5	1030.1	1014.8	1020.8	1037.4	983.5
30°	1256.9	1247.3	1216.3	1169.4	1107.7	1090.2	1066.2	1049.0	1065.0	1091.1	1025.6
32.5°	1340.6	1339.3	1293.9	1233.5	1163.3	1148.0	1124.1	1104.5	1130.4	1170.2	1088.9
35°	1432.0	1434.8	1380.5	1308.0	1238.4	1222.4	1205.1	1190.5	1224.9	1279.9	1180.5
37.5°	1529.6	1535.4	1471.1	1389.4	1324.0	1317.2	1307.1	1300.6	1353.9	1429.9	1308.6
40°	1660.3	1654.5	1565.4	1481.4	1429.0	1428.8	1425.5	1433.2	1522.0	1626.1	1473.2
42.5°	1800.3	1783.3	1665.4	1580.1	1544.4	1555.2	1561.7	1592.9	1724.2	1864.4	1673.8
45°	1951.0	1912.9	1769.2	1684.6	1672.4	1695.4	1717.1	1785.2	1962.2	2135.6	1893.5
47.5°	2071.4	2034.6	1876.5	1794.1	1820.7	1855.4	1897.3	2004.9	2228.6	2415.7	2110.4
50°	2166.3	2142.3	1984.8	1921.9	1983.8	2037.5	2105.9	2253.8	2505.8	2688.6	2311.3
52.5°	2258.3	2240.4	2094.1	2052.9	2175.6	2249.6	2342.6	2520.8	2790.1	2956.8	2480.3
55°	2341.3	2328.6	2211.6	2216.1	2401.0	2497.4	2614.3	2824.9	3099.9	3196.1	2623.4
57.5°	2434.9	2418.6	2345.8	2420.8	2690.7	2815.9	2968.0	3166.7	3390.6	3408.8	2732.2
60°	2529.2	2515.0	2494.6	2657.1	3058.7	3190.3	3334.4	3497.9	3685.5	3573.9	2725.9
62.5°	2610.9	2612.5	2648.6	2905.4	3418.9	3571.3	3747.0	3908.6	3952.1	3602.6	2524.3
65°	2749.5	2774.7	2882.4	3256.7	3926.2	4130.0	4345.6	4319.8	4025.8	3334.0	2092.2
67.5°	2914.3	2958.7	3176.9	3724.9	4567.2	4837.8	4921.1	4412.7	3730.4	2710.1	1491.4
70°	2897.7	2958.7	3304.0	4074.1	5095.7	5277.0	5024.1	3993.7	2962.2	1770.5	792.1
72.5°	2573.2	2660.4	3044.9	3914.1	4929.2	4913.2	4361.6	2977.2	1759.9	711.1	309.5
75°	1961.2	2049.3	2380.2	3092.2	3895.8	3761.7	3094.8	1644.7	667.9	282.3	195.1
77.5°	1128.2	1196.5	1452.0	1896.3	2471.7	2334.0	1722.6	731.5	325.1	196.7	152.3
80°	629.9	667.9	823.2	962.0	1211.2	1110.3	770.8	454.5	242.8	142.8	117.6
82.5°	498.0	531.9	665.6	606.9	553.2	510.5	442.7	404.7	193.9	90.0	70.3
85°	435.1	467.3	563.4	477.8	377.8	346.6	359.7	398.4	150.8	54.3	60.1
87.5°	403.0	446.3	502.1	368.3	294.1	260.7	331.8	436.6	48.5	33.9	24.2
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°	953.8	953.8	953.8	953.8	953.8	953.8	953.8	953.8	953.8	953.8	953.8
2.5°	942.3	937.1	928.8	921.5	910.0	903.9	897.2	892.4	888.6	885.4	890.6
5°	913.2	903.6	886.1	867.2	844.8	827.3	812.6	798.9	789.3	782.9	787.3
7.5°	885.8	870.0	842.6	808.4	770.1	737.5	710.7	687.0	670.8	660.3	664.4
10°	870.0	850.6	808.1	754.4	697.9	647.2	605.0	568.5	543.3	529.0	531.2
12.5°	866.2	841.0	782.3	708.4	631.2	560.6	501.2	450.7	415.1	396.7	397.3
15°	869.1	836.8	757.9	664.4	566.6	477.6	403.3	342.1	300.9	279.8	279.4
17.5°	874.0	833.6	732.4	616.8	501.2	397.7	315.0	254.9	218.5	201.6	200.3
20°	879.0	828.5	703.6	565.3	433.1	323.5	246.6	199.6	176.7	167.3	166.7
22.5°	886.4	824.1	673.9	511.2	366.3	263.6	202.7	171.2	159.1	154.3	153.6
25°	898.2	821.8	642.3	454.5	306.4	220.3	176.7	157.2	150.1	147.0	146.6
27.5°	918.0	825.0	612.6	399.6	257.5	191.3	161.9	150.1	145.0	142.1	141.8
30°	943.6	835.0	581.4	347.6	219.4	171.5	153.0	145.4	141.2	138.3	138.3
32.5°	986.1	851.5	548.5	302.4	192.3	157.8	146.3	141.2	137.6	135.5	135.2
35°	1048.7	882.9	517.8	265.1	172.8	147.9	140.5	136.7	134.2	132.9	132.9
37.5°	1139.7	932.4	490.6	238.3	160.9	141.2	135.2	132.2	130.7	130.7	130.7
40°	1262.1	1000.7	468.6	220.3	154.3	136.3	131.0	128.7	127.8	128.1	128.1
42.5°	1413.0	1089.6	453.9	207.9	151.1	133.6	128.1	126.2	125.2	124.9	125.2
45°	1585.3	1190.5	452.4	198.7	147.9	131.5	126.2	124.2	122.4	121.1	121.1
47.5°	1752.6	1293.0	465.3	195.5	144.3	129.4	124.5	122.7	119.7	116.9	116.9
50°	1900.4	1380.2	482.9	196.7	143.1	126.2	122.1	121.1	116.6	113.4	113.1
52.5°	2018.0	1447.2	497.3	200.6	144.3	123.9	118.9	119.1	114.4	110.8	110.6
55°	2112.3	1491.4	493.6	204.5	147.3	122.7	116.0	116.6	112.7	109.3	109.3
57.5°	2153.5	1475.0	451.0	201.2	149.4	123.0	113.7	116.3	113.1	110.0	110.0
60°	2065.0	1330.3	371.5	187.2	146.6	122.1	112.7	117.6	117.2	114.0	113.7
62.5°	1797.4	1071.3	288.1	166.4	136.7	117.2	110.3	117.2	120.7	119.7	119.4
65°	1385.3	763.0	220.0	144.0	123.3	109.3	103.5	110.0	114.7	116.0	115.6
67.5°	899.1	467.6	169.6	123.0	108.2	100.0	94.8	97.8	98.7	98.7	98.0
70°	442.1	251.8	135.2	103.5	93.0	90.0	87.2	85.5	84.0	82.7	82.7
72.5°	218.2	164.6	111.1	87.5	80.2	78.8	78.2	76.4	75.1	73.4	72.8
75°	161.2	133.9	94.5	73.8	69.0	67.7	69.0	67.4	67.0	65.8	65.1
77.5°	132.5	114.0	81.4	63.3	59.1	56.9	58.8	59.1	59.4	57.5	56.9
80°	107.6	96.4	68.1	52.3	48.5	47.0	48.2	50.8	51.5	48.5	47.3
82.5°	77.6	78.8	54.9	40.9	37.7	36.4	39.0	42.2	42.8	38.7	37.7
85°	65.1	65.8	42.2	29.1	25.9	23.9	28.1	31.2	33.6	29.4	28.4
87.5°	27.1	38.7	24.2	16.3	14.4	12.4	15.0	16.6	20.1	18.6	18.2
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)