

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: P192728

Luminaire Tested: **GLEON-AF-10-LED-E1-AFL-7030-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192728
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24165)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-AF-10-LED-E1-AFL-7030-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 64128.6 lumens
Efficiency: N/A
Efficacy: 100.2 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B4 - U0 - G4

Input Watts (W): 640
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



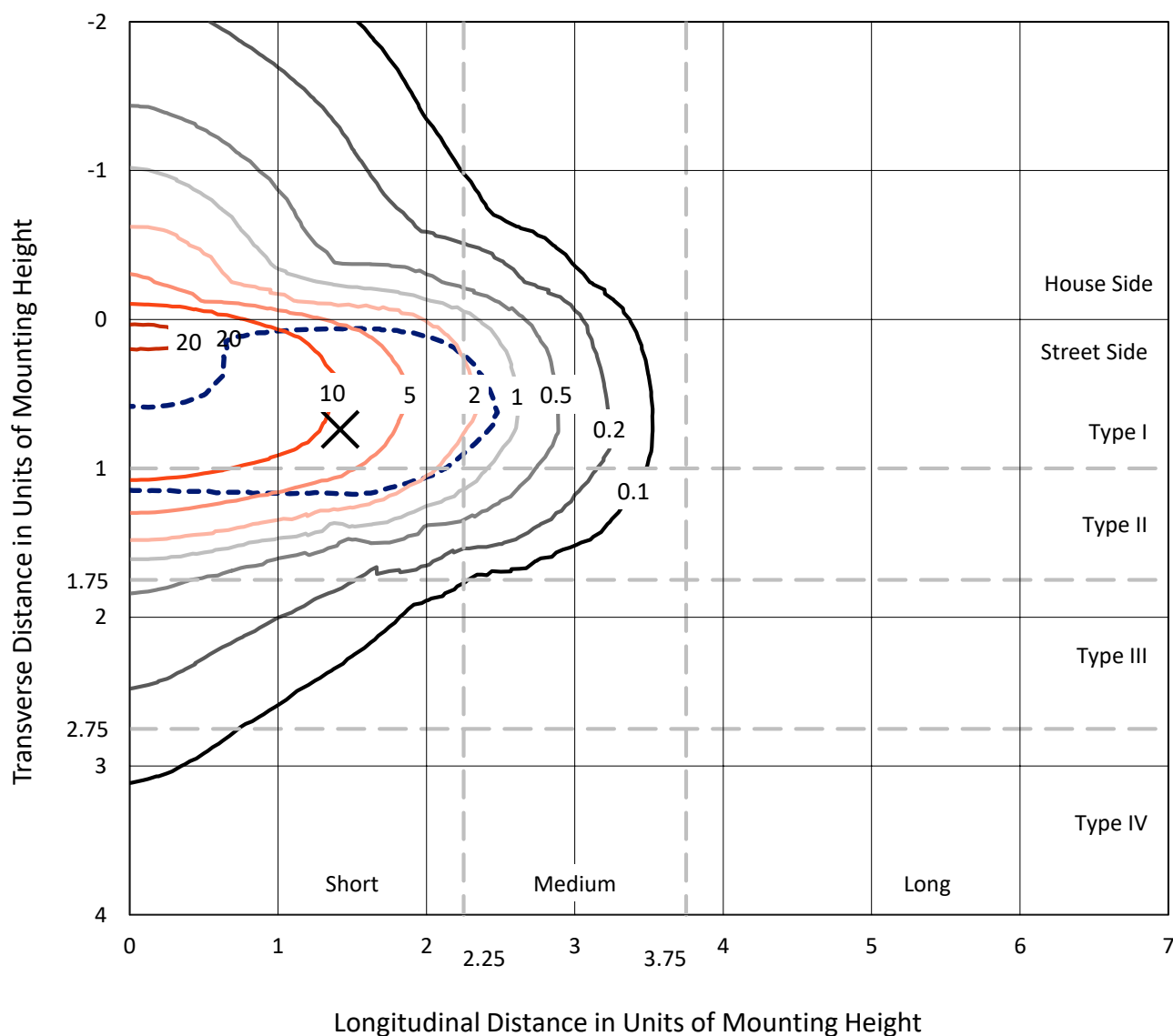
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

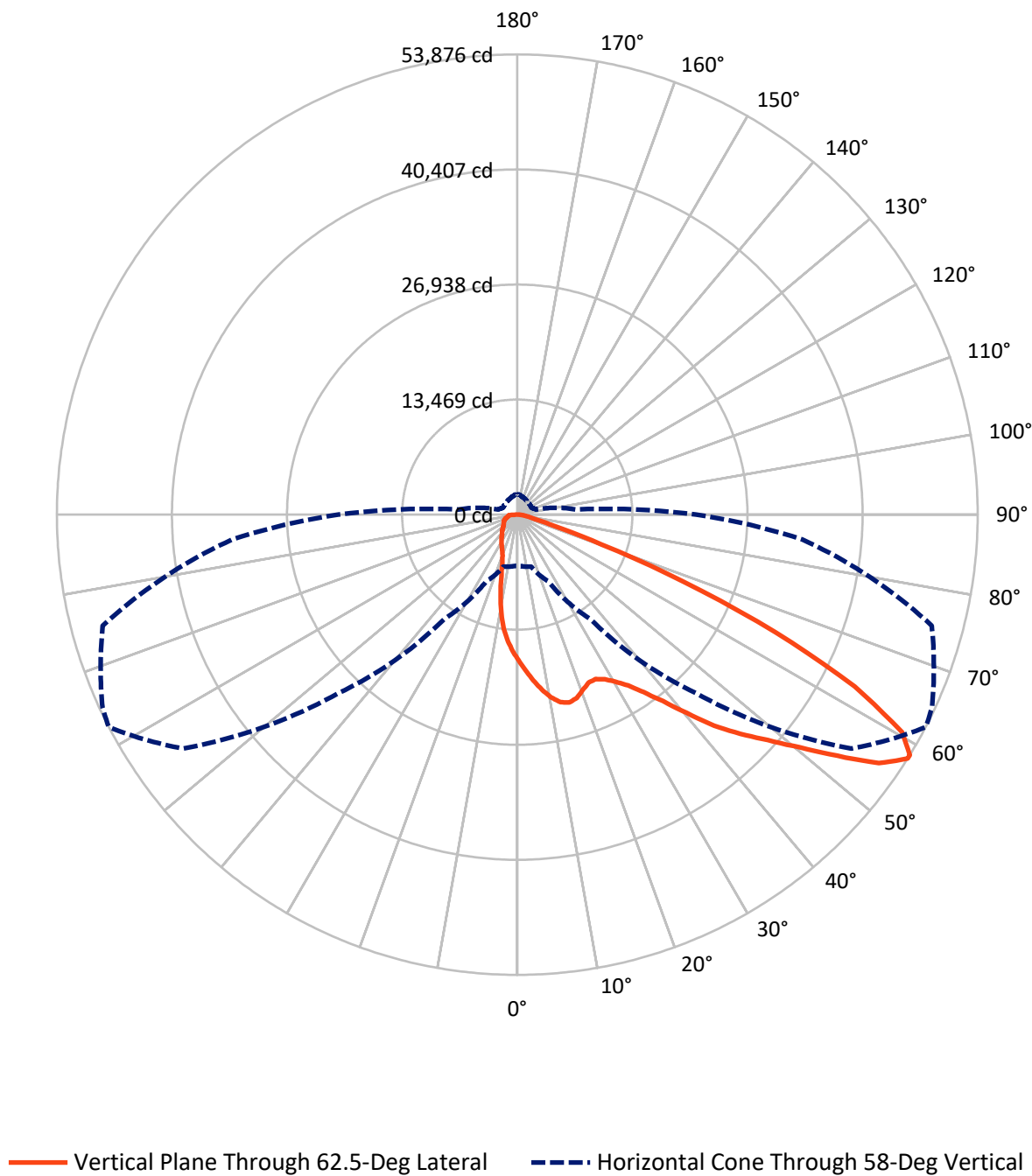


Based on 30 foot mounting height. Maximum calculated value = 23.1 fc
 Type II - Short - Full Cutoff

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Luminous Intensity Polar Plot



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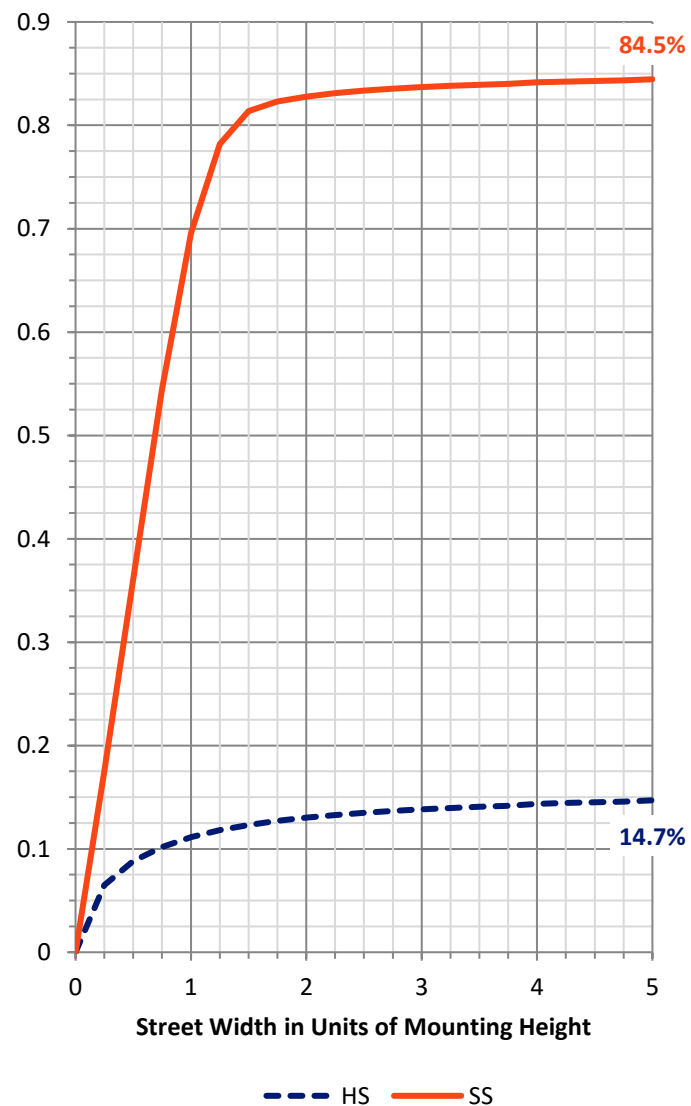
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9779.9	0.0	9779.9
	% Fixture	15.3	0.0	15.3
Street Side	Lumens	54348.8	0.0	54348.8
	% Fixture	84.7	0.0	84.7
Total	Lumens	64128.6	0.0	64128.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1523.5	2.4
10°-20°	3894.3	6.1
20°-30°	6295.2	9.8
30°-40°	9993.6	15.6
40°-50°	14622.7	22.8
50°-60°	15294.1	23.8
60°-70°	9035.8	14.1
70°-80°	2545.4	4.0
80°-90°	924.1	1.4
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°	64128.6	100.0
0°-180°	64128.6	100.0

Coefficient of Utilization



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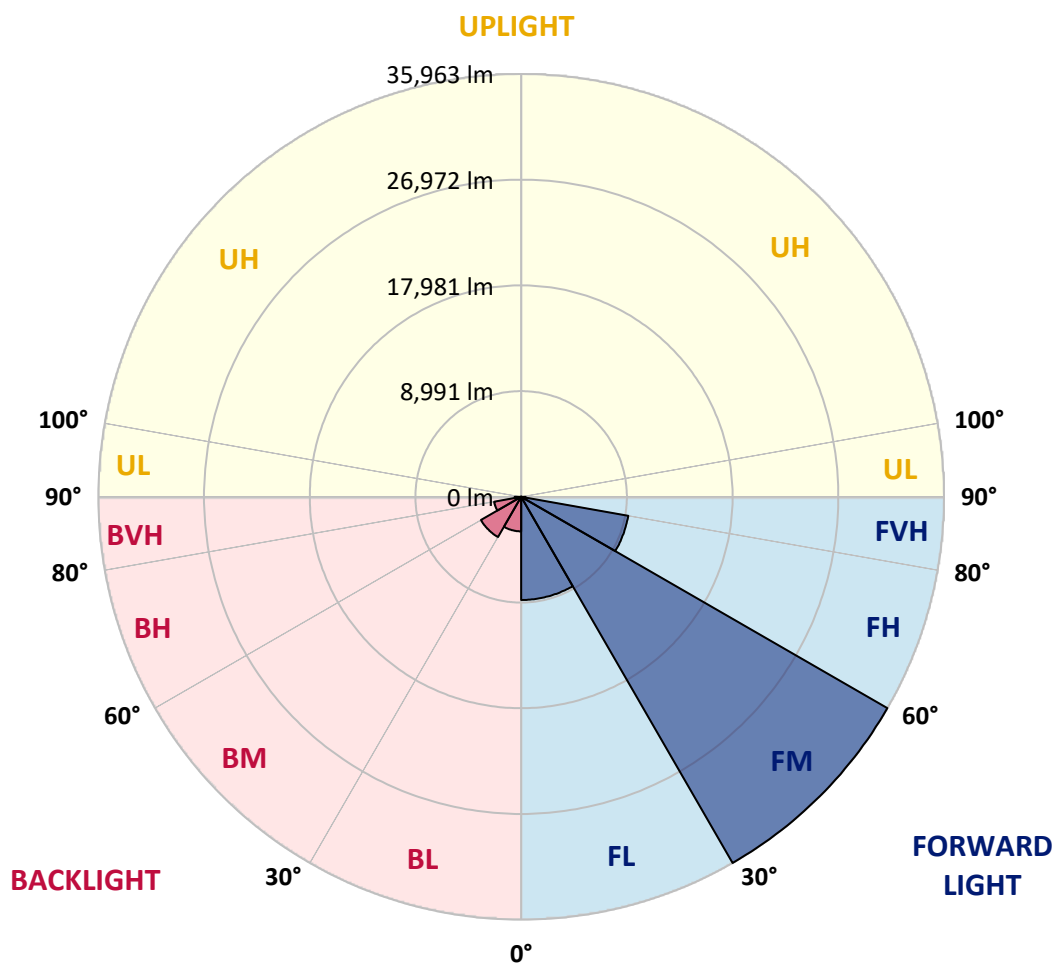
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	8773.6	13.7			
FM	(30°-60°)	35963.0	56.1			
FH	(60°-80°)	9247.6	14.4			G4/12000
FVH	(80°-90°)	364.6	0.6			G3/500
BL	(0°-30°)	2939.4	4.6	B4/5000		
BM	(30°-60°)	3947.4	6.2	B3/5000		
BH	(60°-80°)	2333.6	3.6	B3/2500		G3/2500
BVH	(80°-90°)	559.6	0.9			G4/750
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	62.5°	65°	75°	85°
0°	17034.5	17034.5	17034.5	17034.5	17034.5	17034.5	17034.5	17034.5	17034.5	17034.5	17034.5
2.5°	19465.4	19308.3	19208.7	19121.1	19006.4	18761.8	18432.6	18224.2	18118.6	17759.2	17333.4
5°	21373.9	21235.0	21132.3	21014.5	20809.2	20425.7	19894.2	19471.4	19263.1	18544.3	17692.8
7.5°	20927.0	20984.4	21162.4	21473.5	21739.2	21688.0	21213.8	20676.3	20401.6	19401.9	18109.5
10°	18233.3	18332.9	18640.9	19368.7	20546.4	21754.4	22122.7	21751.4	21473.5	20250.5	18538.3
12.5°	17692.8	17689.7	17713.8	17907.1	18607.7	20307.9	22153.0	22527.4	22361.3	21059.8	18976.1
15°	17913.2	17919.3	17901.1	17982.7	18200.1	18873.5	21229.0	22826.3	22944.1	21875.2	19429.1
17.5°	18493.0	18477.9	18408.4	18408.4	18487.0	18749.7	20141.8	22548.6	23092.1	22596.9	19827.8
20°	19465.4	19395.9	19211.7	19042.6	18958.0	19099.9	19694.8	21908.3	22835.4	23228.0	20156.9
22.5°	20643.1	20588.7	20289.8	19927.4	19634.4	19631.4	19924.4	21349.7	22391.5	23822.9	20434.8
25°	22165.0	22077.5	21633.6	21053.7	20540.4	20344.1	20425.7	21322.5	22149.9	24469.1	20682.3
27.5°	23952.7	23792.8	23267.2	22430.8	21675.8	21280.2	21162.4	21814.7	22370.4	25269.4	21026.6
30°	26120.9	25936.7	25263.4	24173.2	23107.2	22457.9	22207.3	22687.4	23101.1	26244.7	21579.2
32.5°	28588.0	28322.3	27543.2	26341.4	24940.2	23949.7	23542.1	23841.0	24170.2	27419.3	22270.8
35°	31997.3	31680.3	30554.0	28896.2	27313.7	25951.8	25299.5	25517.0	25837.1	29170.9	23270.2
37.5°	34322.6	34180.6	33431.8	31873.5	30152.3	28585.1	27576.5	27703.2	27884.5	31360.2	24550.7
40°	34301.4	34358.9	34373.9	34389.1	33217.3	31716.6	30632.5	30499.6	30463.3	33764.0	26006.2
42.5°	32583.2	32818.8	33579.7	35122.8	35835.5	35146.9	34153.5	33770.0	33579.7	36596.5	27549.2
45°	29953.0	30079.8	31505.1	34518.9	37176.2	38544.3	37792.3	36584.4	36240.1	39199.5	28829.7
47.5°	28597.1	28736.1	29632.9	32918.4	37161.2	41289.2	41724.0	39422.9	38806.9	41464.3	29934.9
50°	25369.0	25658.9	26788.3	30134.1	35805.3	42551.4	45833.9	42805.0	41530.7	43668.7	31043.2
52.5°	19441.3	19888.1	21153.4	25556.2	32365.8	41926.4	49122.4	46905.9	45106.1	45951.7	31994.4
55°	12263.3	12595.4	13658.4	18049.1	25891.3	38674.1	50369.6	51341.9	49741.5	48113.9	32818.8
57.5°	6667.6	6815.6	7214.2	9965.2	16841.2	31484.0	48551.6	53866.5	53202.1	49949.8	33440.9
58°	5967.0	6066.7	6314.3	8636.5	14935.7	29518.1	47745.4	53875.5	53543.4	50218.7	33489.2
60°	4426.9	4375.7	4155.2	4928.2	8313.4	20392.4	42871.4	51719.4	52694.7	50547.7	33253.6
62.5°	3889.4	3765.6	3315.7	3264.3	4043.4	9394.4	32803.7	44302.9	46606.9	48669.4	31822.2
65°	3653.9	3521.0	2941.3	2754.0	2917.1	3974.0	19323.5	33226.4	36116.3	42974.2	28162.2
67.5°	3478.9	3306.6	2702.6	2446.0	2458.2	2627.1	7745.7	20927.0	24179.2	32628.5	21905.4
70°	3309.7	3122.4	2500.4	2204.5	2134.9	2077.6	3080.1	10475.6	13425.9	20609.9	13966.4
72.5°	3128.4	2944.3	2322.2	2014.2	1878.2	1688.0	2011.1	4285.0	5985.1	9750.9	6335.5
75°	2865.8	2699.7	2144.0	1845.1	1651.8	1398.2	1518.9	2237.6	2684.6	3883.4	3053.0
77.5°	2542.7	2406.8	1944.7	1706.2	1464.6	1135.4	1168.6	1552.1	1721.3	2222.6	1814.9
80°	1827.0	1875.2	1730.3	1534.0	1304.5	921.0	896.9	1132.4	1223.0	1428.3	1180.8
82.5°	1283.4	1310.6	1431.4	1253.2	1078.1	724.7	661.3	797.3	851.5	939.2	637.2
85°	884.8	854.6	981.4	872.8	779.1	483.2	453.0	540.5	573.7	582.8	329.2
87.5°	531.4	531.4	567.7	468.0	419.8	250.6	244.6	308.0	329.2	314.0	181.2
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°	17034.5	17034.5	17034.5	17034.5	17034.5	17034.5	17034.5	17034.5	17034.5	17034.5	17034.5
2.5°	17079.7	16865.4	16409.3	16043.9	15582.0	15101.9	14833.0	14546.2	14349.9	14208.0	14434.5
5°	17209.7	16771.8	15829.6	14935.7	13948.2	12921.5	12142.4	11417.7	10913.4	10599.4	10895.4
7.5°	17415.0	16741.6	15240.7	13712.7	11940.2	10230.9	8702.9	7745.7	7187.1	6912.2	7084.4
10°	17650.5	16693.2	14549.2	12054.9	9518.2	7365.1	6223.7	5837.1	5710.3	5659.1	5683.2
12.5°	17846.7	16590.6	13700.7	10049.7	7147.7	5816.1	5486.9	5477.8	5505.0	5511.0	5520.1
15°	17985.7	16439.5	12441.5	7960.1	5716.5	5299.7	5281.6	5335.9	5387.2	5408.5	5420.5
17.5°	18079.3	16128.6	11019.2	6293.3	5121.5	5049.1	5091.3	5160.8	5215.2	5230.2	5242.3
20°	18070.3	15672.5	9325.1	5248.4	4798.4	4798.4	4870.9	4925.2	4928.2	4910.1	4919.2
22.5°	17976.7	15047.5	7682.2	4692.6	4511.6	4562.8	4635.4	4584.0	4372.7	4233.7	4242.7
25°	17819.6	14301.6	6275.1	4339.3	4245.9	4336.4	4315.2	3928.8	3626.8	3490.9	3490.9
27.5°	17680.7	13419.8	5193.9	4031.3	3980.1	4091.8	3717.3	3367.1	3240.2	3176.8	3155.6
30°	17581.0	12468.5	4472.3	3735.5	3729.4	3647.8	3225.2	3128.4	3107.4	3056.0	3037.9
32.5°	17605.2	11505.3	4010.3	3475.7	3496.9	3122.4	2989.6	3010.7	2992.6	2938.2	2914.1
35°	17804.5	10590.3	3708.3	3240.2	3176.8	2820.4	2850.7	2889.9	2883.9	2808.4	2784.3
37.5°	18160.8	9723.6	3509.0	3044.0	2772.1	2669.4	2717.9	2778.1	2763.0	2711.7	2693.7
40°	18535.3	8908.4	3345.8	2889.9	2533.6	2566.8	2609.1	2642.3	2657.4	2672.5	2660.4
42.5°	18900.6	8056.7	3146.5	2732.9	2434.0	2470.2	2488.3	2521.4	2603.0	2660.4	2657.4
45°	19118.0	7256.5	2941.3	2509.4	2355.4	2376.5	2364.5	2430.9	2530.6	2624.2	2627.1
47.5°	19359.6	6634.4	2778.1	2304.1	2279.9	2295.0	2258.8	2325.2	2415.8	2530.6	2542.7
50°	19652.6	6263.0	2648.3	2141.1	2177.2	2177.2	2168.1	2228.6	2355.4	2488.3	2512.4
52.5°	19984.7	6190.5	2539.6	2023.3	2074.7	2071.5	2080.7	2171.2	2310.1	2440.0	2461.1
55°	20389.4	6386.7	2421.8	1935.6	1975.0	1987.0	2017.3	2119.8	2237.6	2385.5	2394.6
57.5°	20860.6	6785.4	2328.2	1866.2	1884.2	1923.6	1971.9	2065.5	2192.4	2355.4	2364.5
58°	20939.0	6870.0	2313.1	1860.1	1866.2	1911.5	1965.9	2056.5	2183.3	2361.4	2370.5
60°	20942.0	7150.8	2279.9	1833.1	1796.8	1872.2	1932.7	2023.3	2168.1	2382.6	2403.7
62.5°	20199.2	7147.7	2255.7	1793.7	1724.3	1817.8	1887.4	1993.0	2153.1	2434.0	2476.3
65°	17786.5	6495.5	2141.1	1733.3	1666.9	1769.6	1848.1	1971.9	2195.3	2657.4	2684.6
67.5°	13912.0	5323.8	1926.6	1648.8	1591.4	1721.3	1824.0	1968.9	2240.7	2708.7	2726.9
70°	9198.2	3983.0	1691.2	1552.1	1512.9	1663.9	1836.0	2071.5	2189.3	2600.1	2551.8
72.5°	4774.2	2796.3	1500.7	1431.4	1422.3	1612.5	2011.1	2059.4	2137.9	2446.0	2385.5
75°	2506.4	1941.7	1334.7	1298.5	1313.7	1600.4	2373.5	2005.1	2071.5	2340.4	2455.0
77.5°	1534.0	1567.3	1192.8	1177.7	1207.9	1564.3	2370.5	1935.6	1975.0	2153.1	2279.9
80°	1026.7	1271.3	1084.1	1087.1	1108.2	1431.4	2128.9	1827.0	1857.2	2035.3	2165.2
82.5°	649.2	751.9	984.4	1035.8	1008.6	1180.8	1808.8	1663.9	1706.2	2328.2	2461.1
85°	329.2	471.1	854.6	996.6	908.9	827.4	1467.6	1458.5	1479.7	1679.0	1754.4
87.5°	151.0	259.7	667.3	869.7	685.5	516.4	1066.0	1081.1	1165.6	1192.8	1192.8
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)