

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: P192926

Luminaire Tested: **GLEON-AF-08-LED-E1-SL3-7030-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192926
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24288)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-08-LED-E1-SL3-7030-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 50617.6 lumens
Efficiency: N/A
Efficacy: 99.1 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Medium - Non-Cutoff
BUG Rating: B3 - U0 - G5

Input Watts (W): 511
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

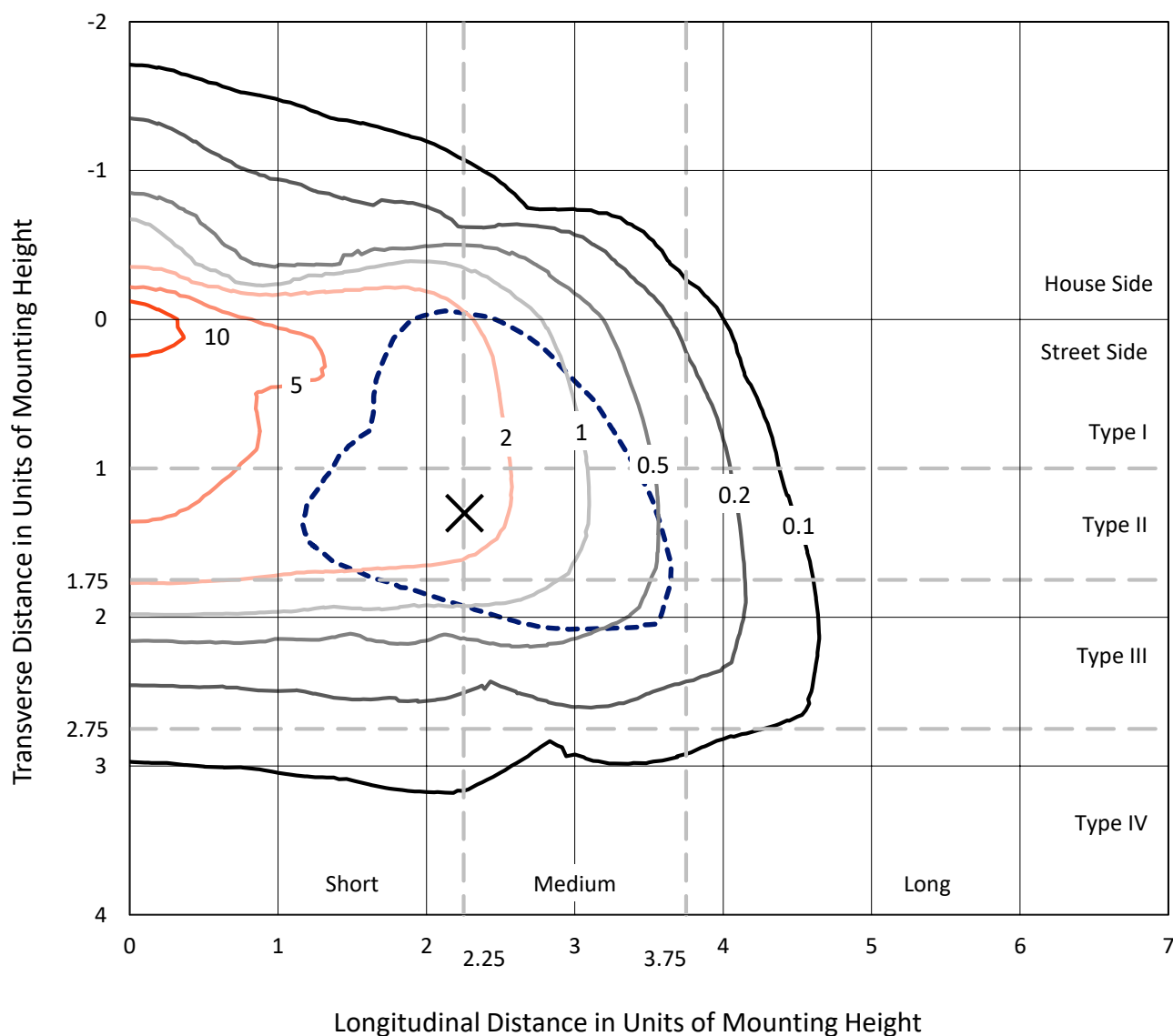


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

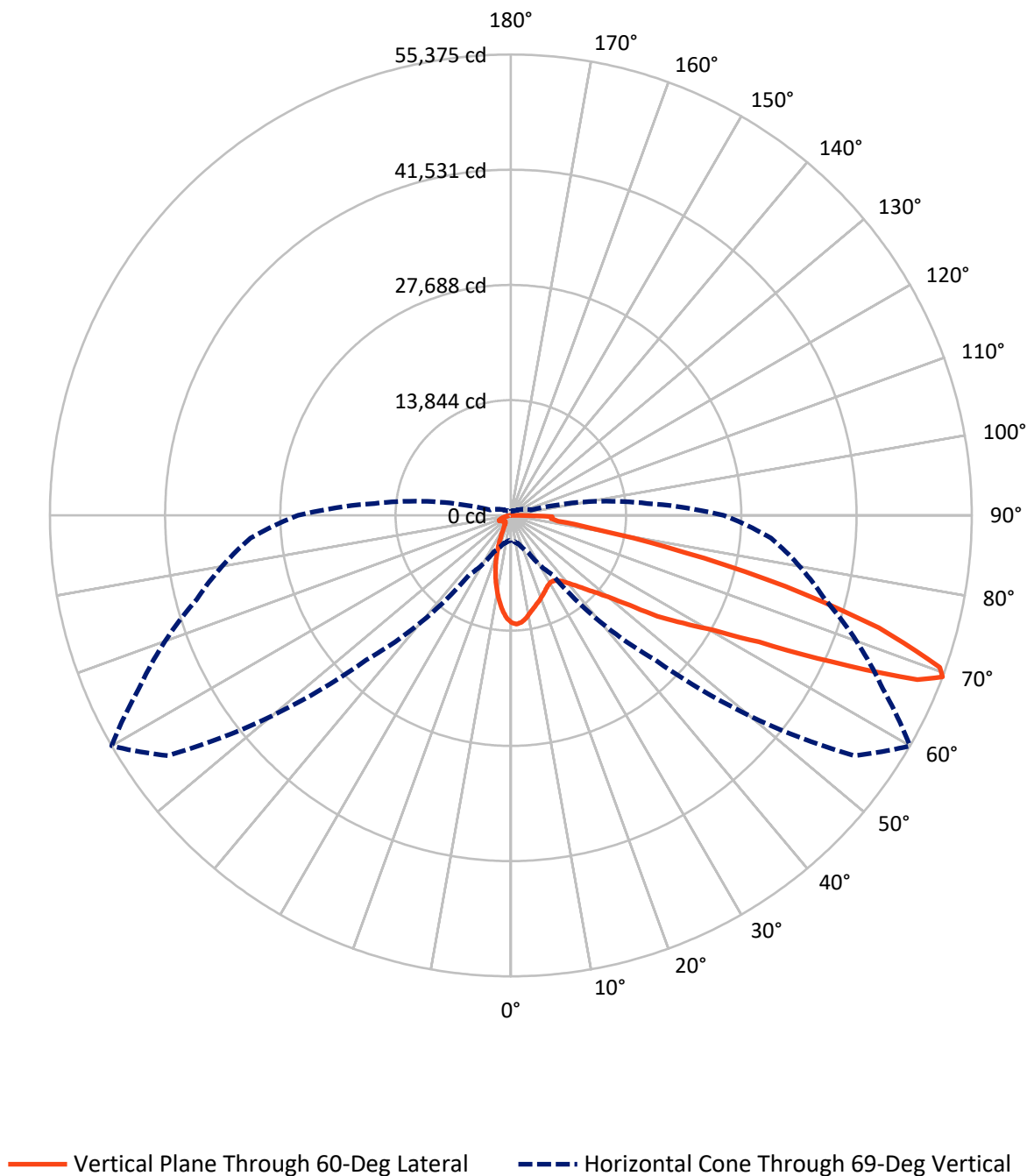


Based on 30 foot mounting height. Maximum calculated value = 14.3 fc
 Type III - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



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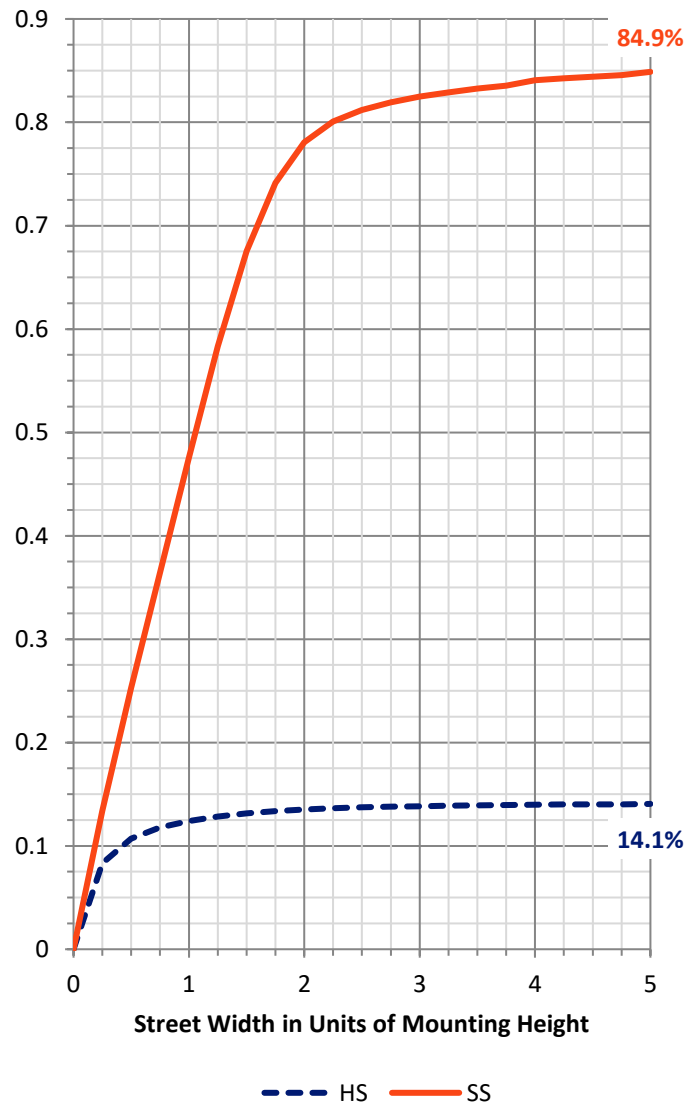
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7201.3	0.0	7201.3
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	43416.3	0.0	43416.3
	% Fixture	85.8	0.0	85.8
Total	Lumens	50617.6	0.0	50617.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1090.6	2.2
10°-20°	2323.6	4.6
20°-30°	2960.6	5.8
30°-40°	4070.1	8.0
40°-50°	6604.2	13.0
50°-60°	10591.4	20.9
60°-70°	14096.3	27.8
70°-80°	7610.9	15.0
80°-90°	1269.9	2.5
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°	50617.6	100.0
0°-180°	50617.6	100.0

Coefficient of Utilization



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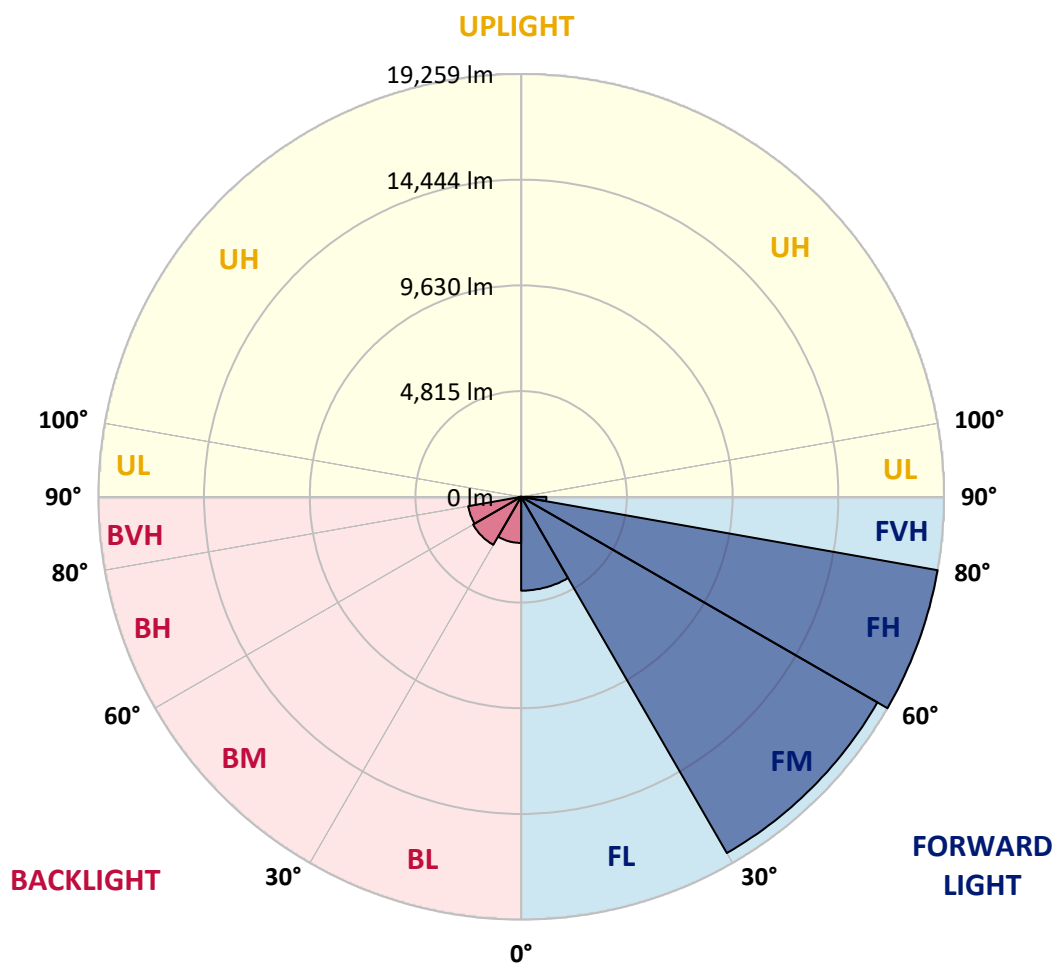
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4273.9	8.4			
FM	(30°-60°)	18735.7	37.0			
FH	(60°-80°)	19259.0	38.0			G5
FVH	(80°-90°)	1147.6	2.3			G5
BL	(0°-30°)	2100.8	4.2	B3/2500		
BM	(30°-60°)	2529.9	5.0	B3/5000		
BH	(60°-80°)	2448.2	4.8	B3/2500		G3/2500
BVH	(80°-90°)	122.3	0.2			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	60°	65°	75°	85°
0°	12898.2	12898.2	12898.2	12898.2	12898.2	12898.2	12898.2	12898.2	12898.2	12898.2	12898.2
2.5°	13162.3	13191.5	13179.3	13172.0	13194.0	13159.7	13088.8	13066.9	13032.7	12951.9	12815.0
5°	12668.3	12756.3	12751.4	12817.4	12927.4	12956.8	12925.1	12930.0	12866.4	12766.1	12538.7
7.5°	11815.0	11851.6	11871.1	12015.5	12215.9	12377.3	12514.2	12558.3	12529.0	12443.3	12149.9
10°	10934.6	10964.0	11010.5	11179.2	11433.6	11656.0	11915.2	12064.3	12127.9	12113.2	11785.6
12.5°	10179.1	10208.5	10269.6	10460.4	10763.5	11037.4	11414.0	11599.7	11751.4	11841.8	11489.7
15°	9501.8	9565.4	9624.1	9844.1	10184.0	10543.5	10969.0	11203.7	11438.4	11641.3	11228.1
17.5°	8973.7	9037.3	9071.5	9272.0	9633.8	10074.0	10572.8	10849.1	11142.5	11475.1	10969.0
20°	8668.1	8697.4	8682.8	8795.2	9120.4	9587.4	10179.1	10499.5	10854.1	11318.6	10709.7
22.5°	8582.5	8584.9	8531.1	8518.8	8729.2	9122.8	9758.6	10147.4	10582.7	11215.9	10487.2
25°	8790.4	8783.0	8636.3	8516.4	8538.4	8768.3	9352.7	9805.0	10355.1	11193.8	10316.0
27.5°	9252.4	9274.5	9056.8	8831.9	8609.3	8602.0	9044.6	9521.4	10169.3	11294.1	10242.7
30°	9900.4	9937.0	9704.7	9418.7	9000.6	8655.8	8924.8	9352.7	10054.5	11501.9	10230.5
32.5°	10609.5	10648.6	10472.6	10171.8	9624.1	8988.3	9007.9	9367.4	10049.5	11792.9	10313.6
35°	11365.0	11409.1	11318.6	11064.2	10455.4	9602.0	9325.9	9604.6	10208.5	12237.9	10536.1
37.5°	12208.6	12277.0	12301.5	12059.5	11409.1	10411.5	9846.6	10054.5	10567.9	12856.5	10944.5
40°	13423.8	13519.2	13511.9	13164.6	12502.0	11504.5	10651.0	10704.9	11127.8	13683.1	11597.4
42.5°	15751.6	15771.1	15162.4	14406.8	13705.1	12653.7	11599.7	11555.8	11900.5	14729.6	12558.3
45°	18712.8	18632.0	17277.3	15817.7	14961.9	13974.0	12834.5	12619.5	12881.0	16005.9	13761.3
47.5°	21170.1	20984.3	19272.7	17257.8	16291.9	15409.3	14284.5	13907.9	14052.3	17453.4	15316.4
50°	22023.4	21884.1	20465.9	18456.0	17551.3	17160.0	16069.6	15536.4	15575.6	19179.7	17138.0
52.5°	21840.1	21820.5	20874.2	19245.7	18729.8	18998.8	18597.8	17876.5	17495.0	21096.8	19103.9
55°	21407.2	21448.8	21106.4	20165.1	20077.1	20773.9	21901.1	21368.2	20182.3	23030.9	21135.8
57.5°	19903.4	20011.1	20764.1	21321.6	22246.0	23282.7	24561.5	24409.8	23074.8	25121.4	23551.6
60°	16035.2	16284.6	18304.3	21096.8	24478.3	27720.6	28292.8	27940.7	26057.9	27715.7	26742.6
62.5°	11235.4	11494.6	13895.8	18265.2	24111.6	32733.2	34963.2	33444.7	30341.9	31537.4	30872.4
65°	6015.0	6139.8	7973.6	12673.2	20355.9	33767.4	44711.9	42401.3	37124.6	36249.3	34405.6
67.5°	3318.1	3386.5	4088.3	6399.0	13037.5	29735.5	50922.6	52668.4	45602.0	39386.5	33762.5
69°	3000.2	3063.7	3523.5	4846.3	8724.3	24585.9	50316.2	55375.3	49318.5	39075.9	31386.0
70°	2934.1	2992.8	3406.0	4467.3	7061.5	20265.4	48284.3	54683.2	50203.7	37963.3	29312.4
72.5°	2640.8	2704.2	3105.3	4012.4	6034.6	10103.3	38247.0	46235.2	45579.9	32916.5	22233.7
75°	2462.2	2520.9	3200.6	3929.4	5777.8	6394.1	25214.3	34075.6	33505.8	23026.0	11988.6
77.5°	1053.8	1049.0	1484.2	3325.5	5863.5	6191.0	13548.5	21287.4	19421.8	9841.7	3442.8
80°	704.1	691.9	704.1	978.1	5376.8	6225.4	7098.2	10805.0	8161.8	2508.7	1696.9
82.5°	606.4	596.7	618.6	596.7	1890.0	7105.5	6034.6	5746.1	3880.5	1425.5	841.1
85°	408.3	391.2	533.0	535.5	892.4	6313.3	6797.4	4853.7	3139.6	846.0	415.6
87.5°	195.6	190.7	310.6	379.0	523.3	2565.0	7626.4	4973.4	3166.5	432.7	198.1
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°	12898.2	12898.2	12898.2	12898.2	12898.2	12898.2	12898.2	12898.2	12898.2	12898.2	12898.2
2.5°	12773.4	12673.2	12575.4	12458.1	12335.8	12198.8	12130.4	12061.9	12044.7	12025.2	11956.8
5°	12421.3	12279.5	12035.0	11766.0	11482.4	11206.0	10995.9	10863.7	10763.5	10712.3	10621.7
7.5°	11966.5	11758.7	11330.8	10866.3	10389.5	9954.2	9577.6	9340.5	9115.5	9010.4	8890.5
10°	11533.7	11223.2	10558.2	9873.5	9188.8	8531.1	7912.4	7474.9	7086.0	6868.4	6714.4
12.5°	11162.0	10736.6	9814.8	8888.1	7949.1	7012.7	6086.0	5357.3	4748.5	4428.2	4264.3
15°	10800.2	10286.8	9108.2	7932.0	6726.5	5452.7	4235.0	3408.6	2904.8	2704.2	2635.9
17.5°	10472.6	9814.8	8399.1	6968.7	5464.9	3924.5	2846.1	2391.3	2198.2	2132.2	2110.2
20°	10118.1	9338.1	7663.1	5961.3	4149.4	2743.5	2222.7	2022.2	1943.9	1924.4	1914.5
22.5°	9775.7	8868.6	6958.8	4882.9	2980.6	2117.5	1909.7	1826.5	1814.2	1831.4	1831.4
25°	9484.7	8447.9	6198.5	3755.8	2188.4	1782.6	1709.2	1689.5	1736.0	1799.6	1811.8
27.5°	9267.2	8103.2	5389.1	2772.8	1743.3	1550.2	1547.7	1579.6	1694.5	1816.8	1841.2
30°	9117.9	7775.6	4523.6	2000.1	1462.2	1364.4	1403.6	1471.9	1640.7	1814.2	1860.8
32.5°	9042.2	7533.5	3621.3	1547.7	1251.9	1198.1	1264.1	1347.2	1513.6	1675.0	1736.0
35°	9100.9	7355.0	2770.4	1291.0	1105.1	1063.6	1132.2	1212.8	1310.6	1379.1	1425.5
37.5°	9320.9	7284.1	2090.5	1156.5	1004.9	965.9	1019.6	1066.1	1105.1	1124.8	1146.7
40°	9795.2	7359.9	1675.0	1088.1	948.7	899.9	921.8	939.0	963.3	982.9	992.7
42.5°	10494.6	7587.3	1501.3	1061.2	919.4	848.5	843.6	850.9	882.7	919.4	926.7
45°	11472.7	7988.3	1489.1	1078.3	904.6	806.9	784.9	794.7	843.6	899.9	909.6
47.5°	12722.0	8599.6	1586.9	1129.6	916.9	784.9	748.2	760.5	821.5	897.3	909.6
50°	14235.6	9452.9	1750.8	1205.4	970.8	789.8	736.0	743.3	806.9	890.0	902.3
52.5°	16023.1	10663.2	1929.2	1278.8	1026.9	821.5	745.8	728.6	787.3	860.8	875.3
55°	18011.0	12215.9	2112.6	1344.9	1056.3	860.8	765.4	709.1	750.6	811.8	824.1
57.5°	20451.1	14387.3	2430.5	1408.4	1075.8	887.6	784.9	689.5	704.1	748.2	758.0
60°	23754.6	17458.3	2990.4	1513.6	1119.9	897.3	782.4	672.4	657.7	682.3	687.1
62.5°	27713.3	20793.5	3457.4	1645.6	1193.2	904.6	767.8	660.2	618.6	618.6	623.6
65°	30063.0	21686.0	3198.2	1755.6	1254.4	897.3	750.6	648.0	589.2	562.3	564.9
67.5°	28070.3	19072.1	2741.0	1777.6	1251.9	863.1	723.8	625.9	560.0	518.3	515.9
69°	25573.8	16455.9	2535.6	1718.9	1193.2	819.1	689.5	601.5	537.9	494.0	491.4
70°	23561.4	14859.1	2401.1	1655.4	1129.6	787.3	662.6	579.5	520.8	479.2	474.4
72.5°	17130.6	9736.5	2051.5	1423.1	931.7	660.2	572.2	508.6	464.6	440.1	435.3
75°	8560.5	4643.3	1665.1	1154.1	714.0	528.2	469.5	425.4	403.5	398.6	396.1
77.5°	2811.9	2127.3	1190.8	860.8	530.6	413.2	379.0	347.2	342.3	356.9	352.2
80°	1545.4	1237.3	755.5	569.7	361.8	303.2	298.3	281.3	288.6	313.0	308.1
82.5°	787.3	643.1	467.0	342.3	244.5	217.7	237.2	227.4	237.2	259.2	256.8
85°	388.8	352.2	295.9	207.8	161.3	139.5	168.7	176.0	181.0	198.1	198.1
87.5°	225.0	207.8	156.5	97.8	80.8	73.3	97.8	95.4	112.4	122.3	119.8
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)