

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: P192924

Luminaire Tested: **GLEON-AF-06-LED-E1-SL3-7030-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192924
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-06-LED-E1-SL3-7030-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 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: 37774.2 lumens
Efficiency: N/A
Efficacy: 98.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium - Non-Cutoff
BUG Rating: B3 - U0 - G5

Input Watts (W): 382
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



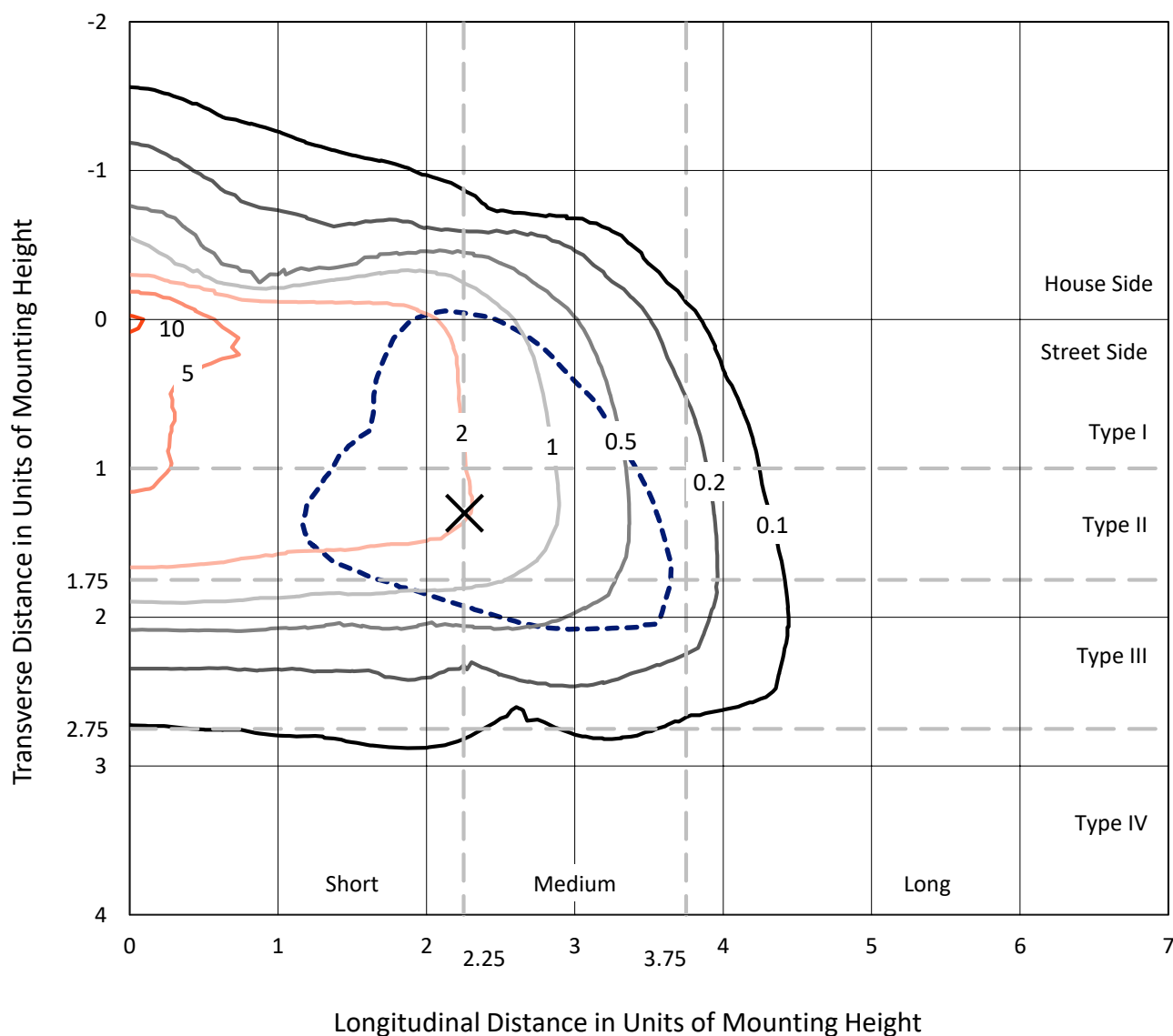
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

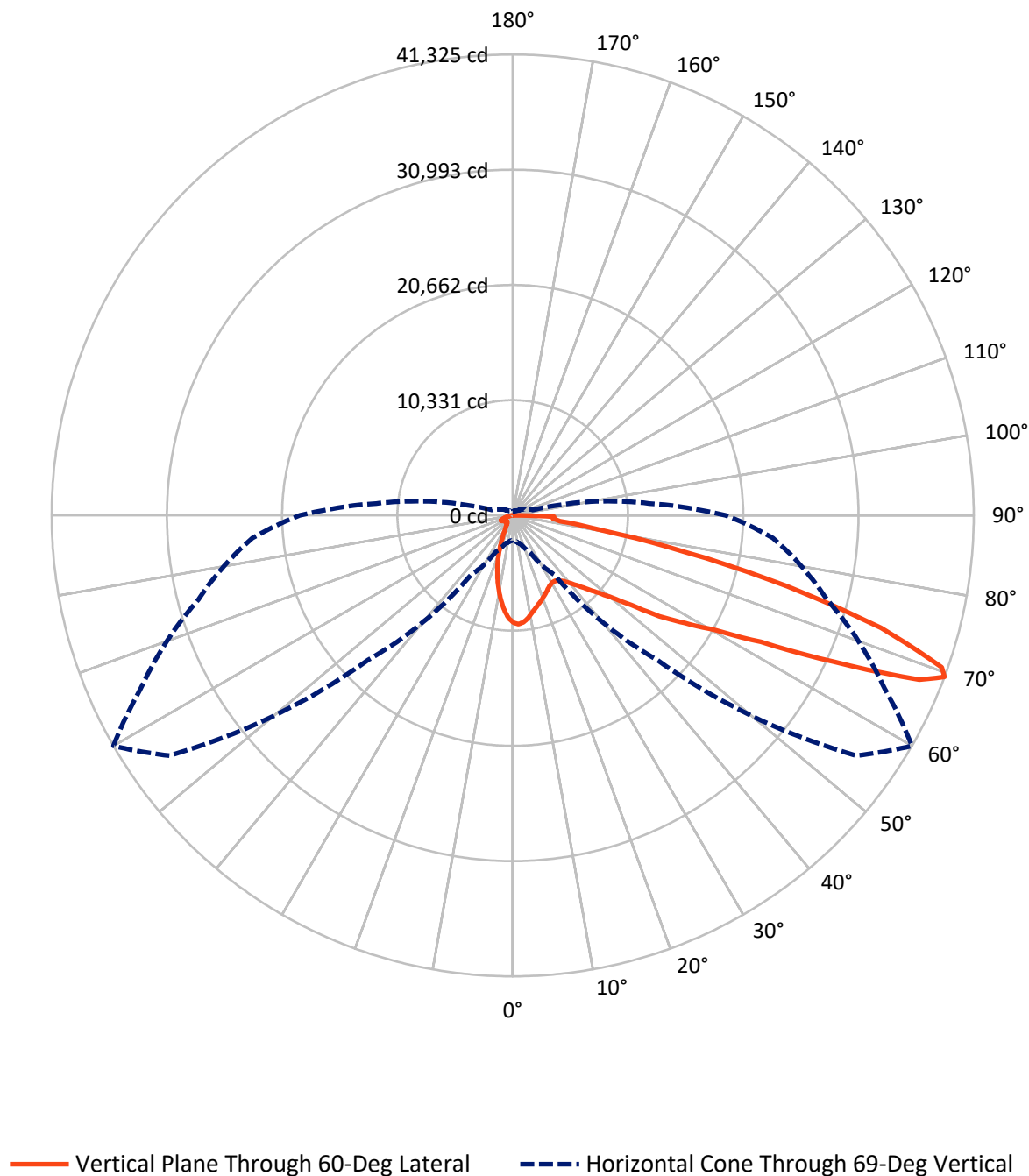


Based on 30 foot mounting height. Maximum calculated value = 10.7 fc
 Type III - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



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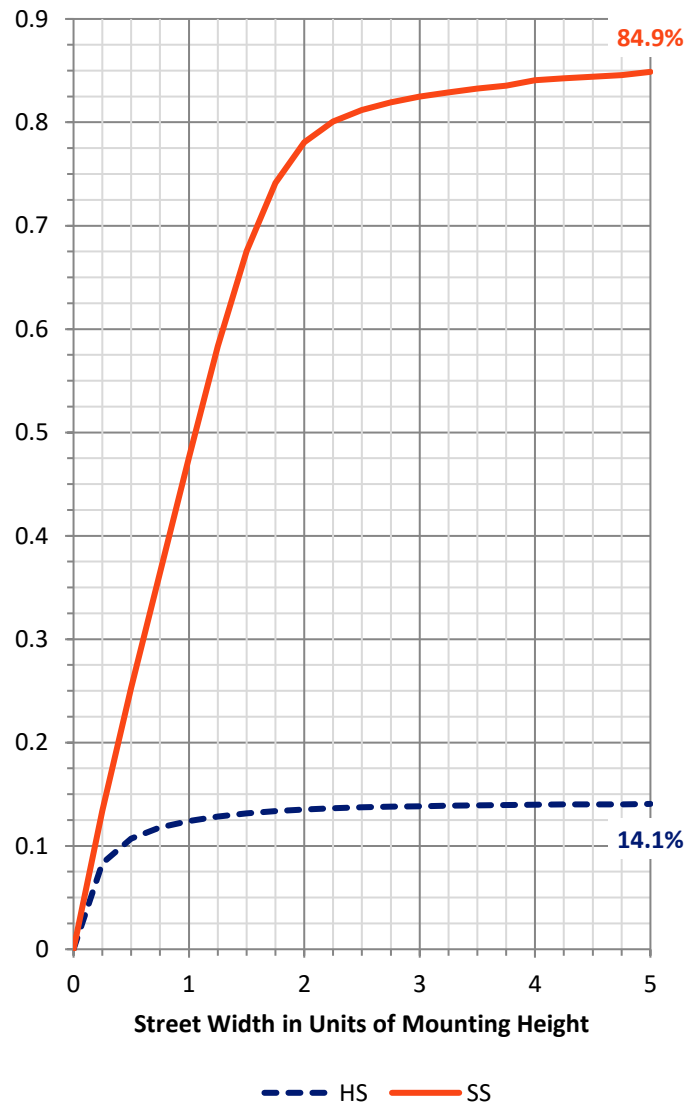
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5374.1	0.0	5374.1
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	32400.1	0.0	32400.1
	% Fixture	85.8	0.0	85.8
Total	Lumens	37774.2	0.0	37774.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	813.9	2.2
10°-20°	1734.0	4.6
20°-30°	2209.4	5.8
30°-40°	3037.4	8.0
40°-50°	4928.5	13.0
50°-60°	7904.0	20.9
60°-70°	10519.6	27.8
70°-80°	5679.8	15.0
80°-90°	947.7	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°	37774.2	100.0
0°-180°	37774.2	100.0

Coefficient of Utilization



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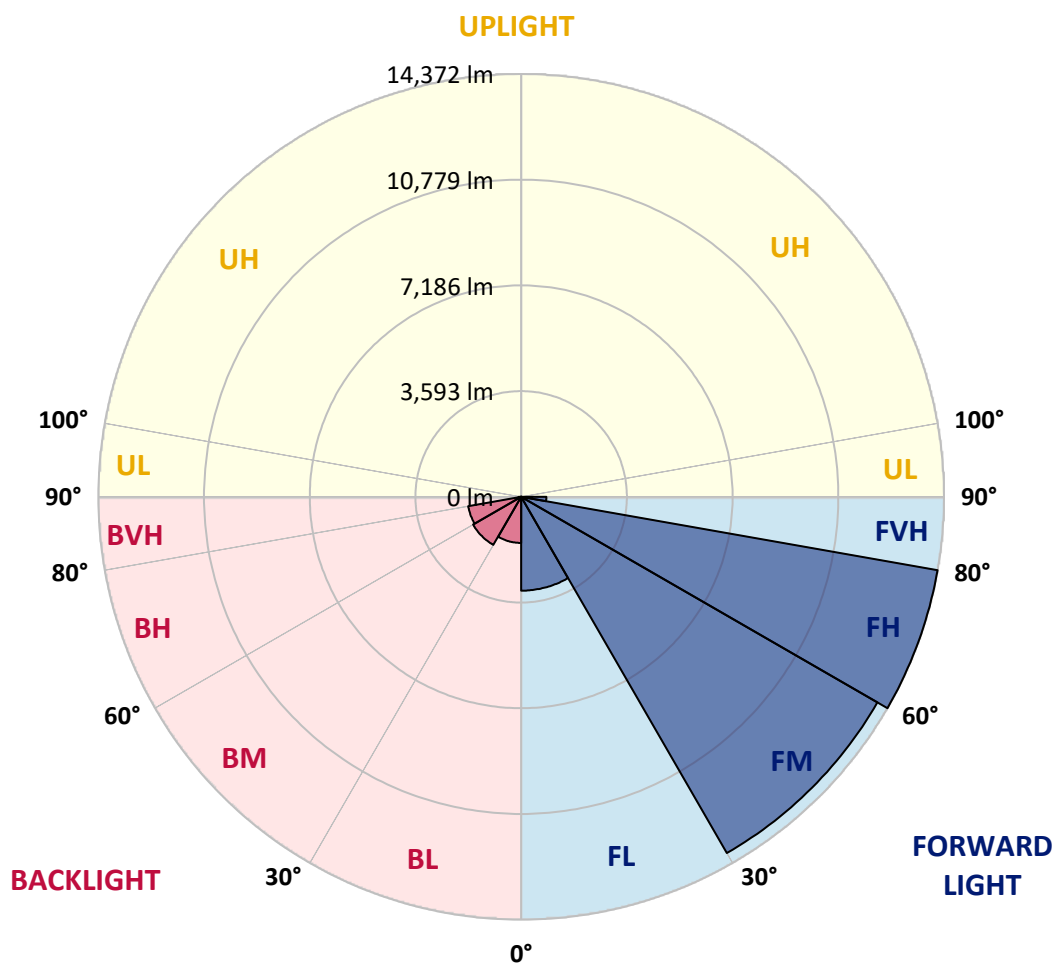
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3189.5	8.4			
FM	(30°-60°)	13981.8	37.0			
FH	(60°-80°)	14372.4	38.0			G5
FVH	(80°-90°)	856.4	2.3			G5
BL	(0°-30°)	1567.8	4.2	B3/2500		
BM	(30°-60°)	1888.0	5.0	B2/2500		
BH	(60°-80°)	1827.0	4.8	B3/2500		G3/2500
BVH	(80°-90°)	91.3	0.2			G1/100
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°	9625.4	9625.4	9625.4	9625.4	9625.4	9625.4	9625.4	9625.4	9625.4	9625.4	9625.4
2.5°	9822.5	9844.4	9835.3	9829.8	9846.2	9820.7	9767.8	9751.4	9725.8	9665.6	9563.4
5°	9453.8	9519.6	9515.9	9565.2	9647.4	9669.2	9645.5	9649.1	9601.7	9526.9	9357.2
7.5°	8817.1	8844.4	8859.1	8966.7	9116.4	9236.8	9338.9	9371.8	9349.9	9286.1	9067.1
10°	8160.1	8182.1	8216.8	8342.7	8532.4	8698.4	8891.8	9003.2	9050.6	9039.7	8795.2
12.5°	7596.4	7618.2	7663.9	7806.1	8032.4	8236.8	8517.9	8656.5	8769.7	8837.1	8574.4
15°	7090.9	7138.4	7182.1	7346.4	7600.0	7868.2	8185.7	8360.9	8536.1	8687.5	8379.2
17.5°	6696.7	6744.2	6769.7	6919.4	7189.5	7517.9	7890.1	8096.3	8315.2	8563.4	8185.7
20°	6468.7	6490.5	6479.6	6563.5	6806.2	7154.8	7596.4	7835.4	8099.9	8446.7	7992.4
22.5°	6404.8	6406.6	6366.4	6357.4	6514.2	6808.1	7282.4	7572.6	7897.5	8370.1	7826.2
25°	6559.9	6554.5	6444.9	6355.5	6372.0	6543.4	6979.6	7317.2	7727.7	8353.6	7698.5
27.5°	6904.7	6921.2	6758.8	6590.9	6424.9	6419.4	6749.7	7105.4	7589.0	8428.4	7643.8
30°	7388.3	7415.7	7242.4	7028.8	6716.8	6459.5	6660.2	6979.6	7503.3	8583.5	7634.7
32.5°	7917.5	7946.7	7815.4	7590.9	7182.1	6707.8	6722.2	6990.5	7499.7	8800.7	7696.7
35°	8481.4	8514.1	8446.7	8256.9	7802.5	7165.7	6959.5	7167.5	7618.2	9132.8	7862.8
37.5°	9110.9	9161.9	9180.2	8999.5	8514.1	7769.7	7348.2	7503.3	7886.5	9594.4	8167.4
40°	10017.8	10088.9	10083.4	9824.4	9329.8	8585.4	7948.5	7988.7	8304.4	10211.2	8654.7
42.5°	11754.8	11769.5	11315.1	10751.3	10227.6	9442.9	8656.5	8623.7	8880.9	10992.1	9371.8
45°	13964.7	13904.5	12893.5	11804.2	11165.5	10428.4	9578.0	9417.4	9612.6	11944.7	10269.6
47.5°	15798.5	15659.8	14382.6	12878.9	12158.2	11499.4	10660.1	10379.1	10486.7	13024.9	11430.0
50°	16435.4	16331.3	15273.1	13773.0	13097.9	12805.9	11992.1	11594.4	11623.5	14313.2	12789.6
52.5°	16298.4	16283.9	15577.7	14362.4	13977.4	14178.1	13878.8	13340.5	13055.9	15743.7	14256.5
55°	15975.5	16006.5	15751.1	15048.5	14982.8	15502.9	16344.1	15946.3	15061.3	17187.1	15773.0
57.5°	14853.2	14933.5	15495.5	15911.7	16601.4	17375.1	18329.5	18216.2	17220.0	18747.2	17575.8
60°	11966.6	12152.7	13659.9	15743.7	18267.4	20686.9	21114.0	20851.1	19446.2	20683.4	19957.1
62.5°	8384.7	8578.1	10369.9	13630.7	17993.7	24427.6	26091.7	24958.6	22643.0	23535.3	23039.1
65°	4488.8	4581.9	5950.5	9457.6	15190.9	25199.4	33367.0	31642.6	27704.9	27051.6	25675.7
67.5°	2476.2	2527.2	3050.9	4775.2	9729.4	22190.5	38001.8	39304.6	34031.2	29392.7	25195.8
69°	2238.9	2286.4	2629.5	3616.6	6510.6	18347.7	37549.2	41324.6	36804.7	29161.0	23422.2
70°	2189.7	2233.5	2541.8	3333.8	5269.8	15123.3	36032.9	40808.3	37465.3	28330.7	21874.8
72.5°	1970.7	2018.1	2317.4	2994.4	4503.4	7539.8	28542.4	34503.7	34014.8	24564.5	16592.2
75°	1837.5	1881.3	2388.5	2932.3	4311.8	4771.7	18816.6	25429.4	25004.2	17183.4	8946.7
77.5°	786.4	782.9	1107.6	2481.6	4375.8	4620.2	10110.9	15886.1	14493.8	7344.5	2569.2
80°	525.5	516.4	525.5	729.9	4012.5	4645.7	5297.2	8063.5	6090.9	1872.1	1266.4
82.5°	452.6	445.2	461.6	445.2	1410.5	5302.7	4503.4	4288.1	2895.8	1063.8	627.7
85°	304.8	291.9	397.8	399.6	666.1	4711.5	5072.8	3622.1	2342.9	631.4	310.2
87.5°	146.0	142.4	231.7	282.9	390.5	1914.1	5691.4	3711.5	2363.1	323.0	147.8
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°	9625.4	9625.4	9625.4	9625.4	9625.4	9625.4	9625.4	9625.4	9625.4	9625.4	9625.4
2.5°	9532.5	9457.6	9384.6	9297.0	9205.7	9103.6	9052.4	9001.5	8988.6	8974.0	8922.8
5°	9269.7	9163.8	8981.3	8780.6	8568.8	8362.7	8205.8	8107.2	8032.4	7994.2	7926.6
7.5°	8930.2	8775.1	8455.8	8109.1	7753.2	7428.4	7147.4	6970.4	6802.6	6724.2	6634.7
10°	8607.2	8375.5	7879.1	7368.2	6857.3	6366.4	5904.8	5578.2	5288.0	5125.7	5010.7
12.5°	8329.9	8012.4	7324.4	6632.9	5932.2	5233.3	4541.8	3998.1	3543.6	3304.5	3182.2
15°	8059.8	7676.7	6797.1	5919.4	5019.8	4069.2	3160.5	2543.7	2167.8	2018.1	1967.1
17.5°	7815.4	7324.4	6267.9	5200.5	4078.3	2928.7	2124.0	1784.5	1640.4	1591.2	1574.8
20°	7550.7	6968.7	5718.7	4448.7	3096.5	2047.3	1658.7	1509.1	1450.6	1436.1	1428.8
22.5°	7295.2	6618.3	5193.2	3644.1	2224.3	1580.2	1425.1	1363.1	1353.9	1366.8	1366.8
25°	7078.2	6304.5	4625.7	2802.8	1633.1	1330.2	1275.5	1260.9	1295.6	1343.1	1352.1
27.5°	6915.7	6047.2	4021.8	2069.3	1301.1	1156.8	1155.1	1178.8	1264.5	1355.8	1374.1
30°	6804.4	5802.6	3375.8	1492.6	1091.2	1018.2	1047.4	1098.5	1224.4	1353.9	1388.5
32.5°	6747.9	5621.9	2702.4	1155.1	934.2	894.1	943.4	1005.4	1129.5	1249.9	1295.6
35°	6791.7	5488.7	2067.4	963.4	824.8	793.8	844.9	905.1	978.1	1029.1	1063.8
37.5°	6955.9	5435.8	1560.1	863.1	749.9	720.8	760.9	795.6	824.8	839.3	855.8
40°	7309.9	5492.5	1249.9	812.1	708.0	671.5	687.9	700.7	718.9	733.5	740.9
42.5°	7831.7	5662.2	1120.4	791.9	686.1	633.1	629.6	635.1	658.8	686.1	691.6
45°	8561.7	5961.4	1111.2	804.7	675.1	602.1	585.7	593.1	629.6	671.5	678.8
47.5°	9494.1	6417.6	1184.3	843.1	684.3	585.7	558.4	567.5	613.2	669.6	678.8
50°	10623.6	7054.5	1306.5	899.6	724.4	589.4	549.2	554.7	602.1	664.2	673.4
52.5°	11957.5	7957.7	1439.7	954.4	766.4	613.2	556.5	543.8	587.6	642.3	653.3
55°	13441.0	9116.4	1576.6	1003.5	788.3	642.3	571.1	529.2	560.2	605.9	614.9
57.5°	15262.0	10736.7	1813.8	1051.1	802.8	662.3	585.7	514.6	525.5	558.4	565.6
60°	17727.2	13028.5	2231.6	1129.5	835.8	669.6	583.9	501.8	490.9	509.1	512.8
62.5°	20681.4	15517.4	2580.1	1228.1	890.5	675.1	572.9	492.6	461.6	461.6	465.3
65°	22435.1	16183.5	2386.8	1310.1	936.2	669.6	560.2	483.6	439.8	419.7	421.5
67.5°	20947.8	14232.8	2045.6	1326.6	934.2	644.1	540.1	467.1	417.9	386.9	385.0
69°	19084.9	12280.4	1892.3	1282.8	890.5	611.3	514.6	448.8	401.4	368.6	366.8
70°	17583.1	11088.8	1791.9	1235.4	843.1	587.6	494.5	432.4	388.6	357.6	354.0
72.5°	12784.1	7266.1	1530.9	1062.0	695.2	492.6	426.9	379.5	346.7	328.5	324.8
75°	6388.4	3465.1	1242.6	861.3	532.8	394.1	350.4	317.5	301.1	297.4	295.6
77.5°	2098.5	1587.5	888.6	642.3	395.9	308.3	282.9	259.2	255.4	266.4	262.8
80°	1153.2	923.4	563.9	425.1	270.1	226.2	222.7	209.9	215.3	233.6	229.9
82.5°	587.6	479.8	348.5	255.4	182.5	162.4	177.0	169.7	177.0	193.4	191.6
85°	290.1	262.8	220.8	155.1	120.4	104.1	125.8	131.3	135.1	147.8	147.8
87.5°	167.8	155.1	116.8	72.9	60.2	54.7	72.9	71.1	83.9	91.2	89.4
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)