

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: P194502

Luminaire Tested: **GLEON-AF-04-LED-E1-SL3-7060-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P194502
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-04-LED-E1-SL3-7060-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 5700K, 800mA 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: 19401 lumens
Efficiency: N/A
Efficacy: 113.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium - Non-Cutoff
BUG Rating: B2 - U0 - G3

Input Watts (W): 171
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

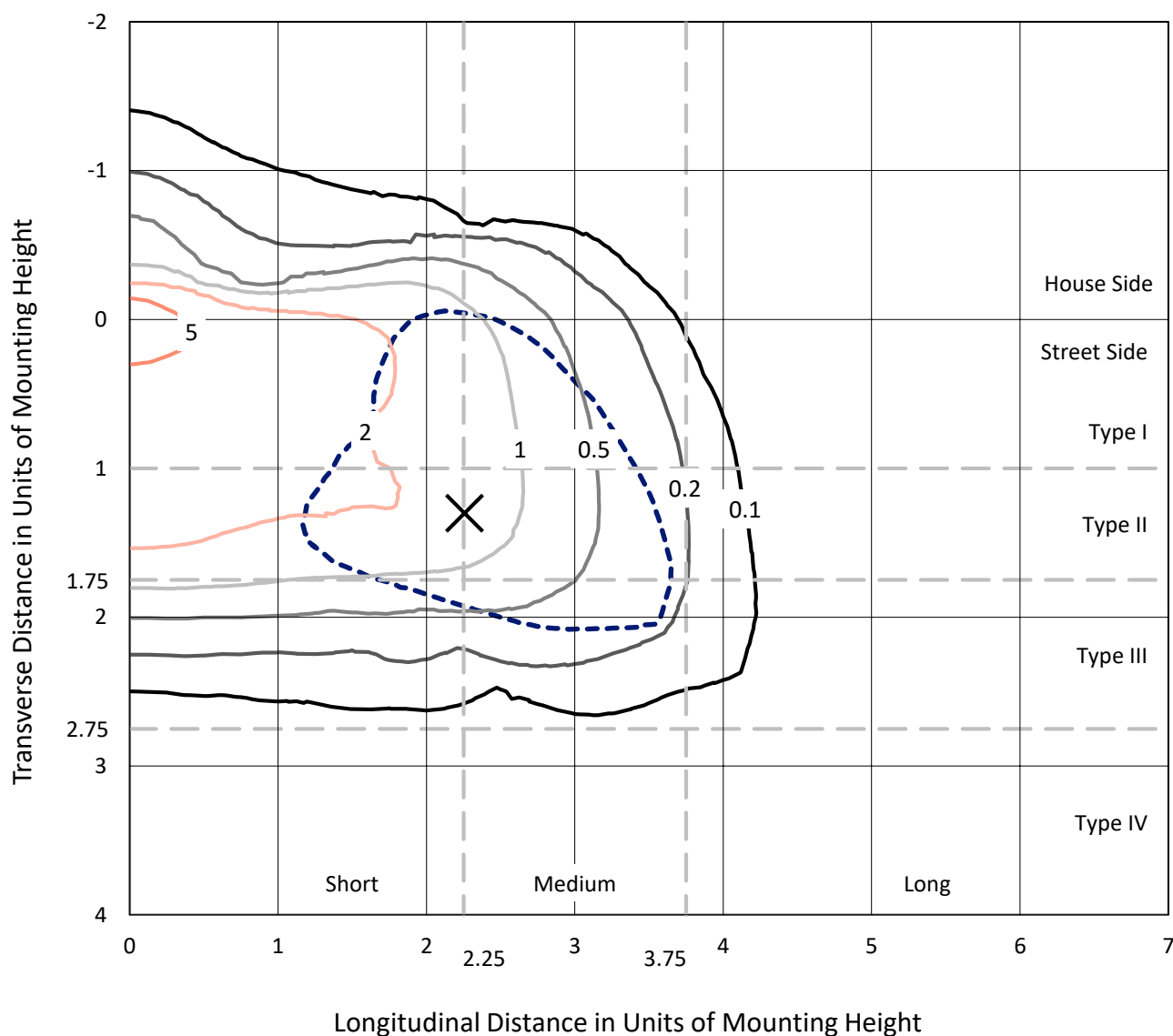


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

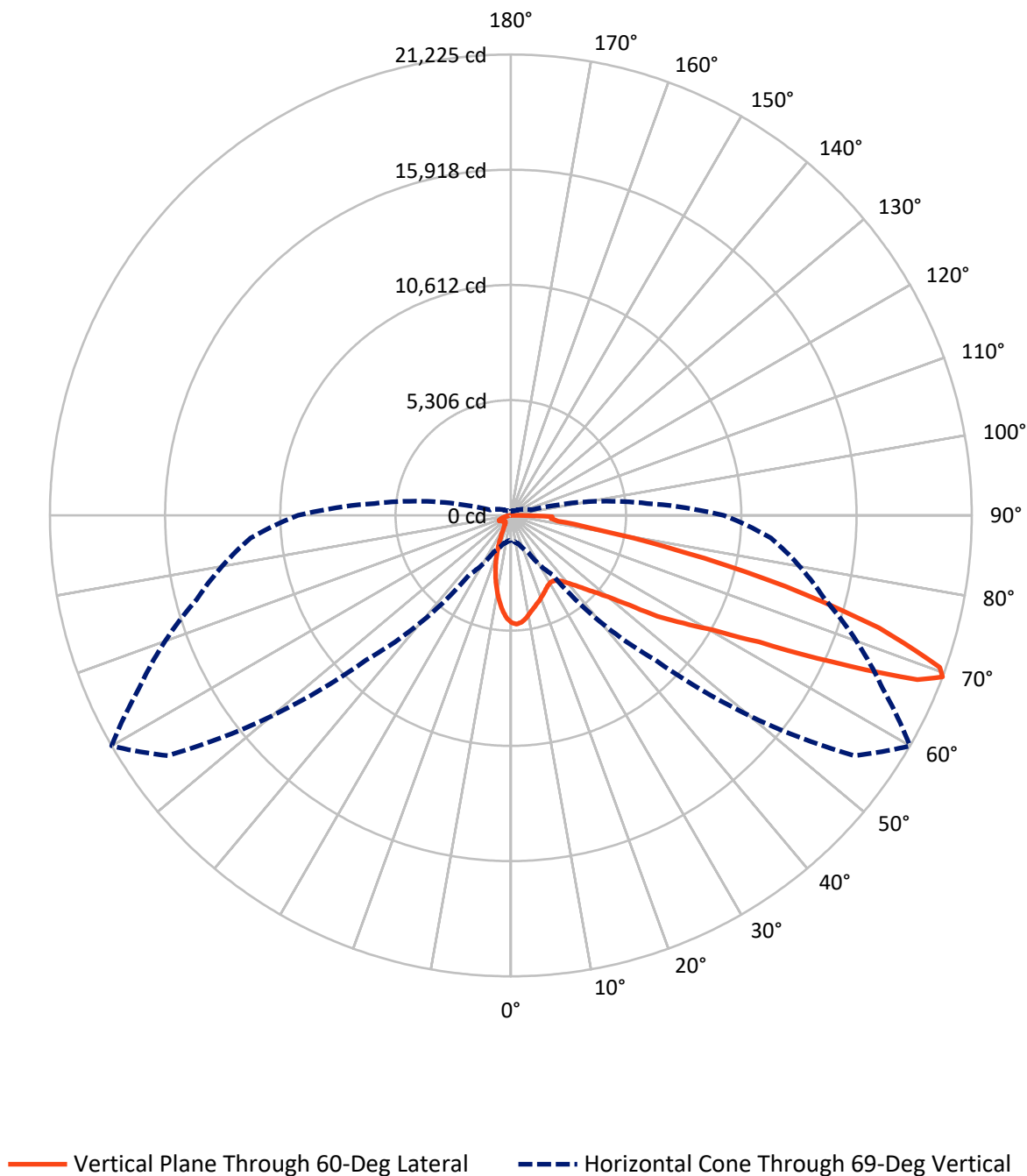


Based on 25 foot mounting height. Maximum calculated value = 7.9 fc
 Type III - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



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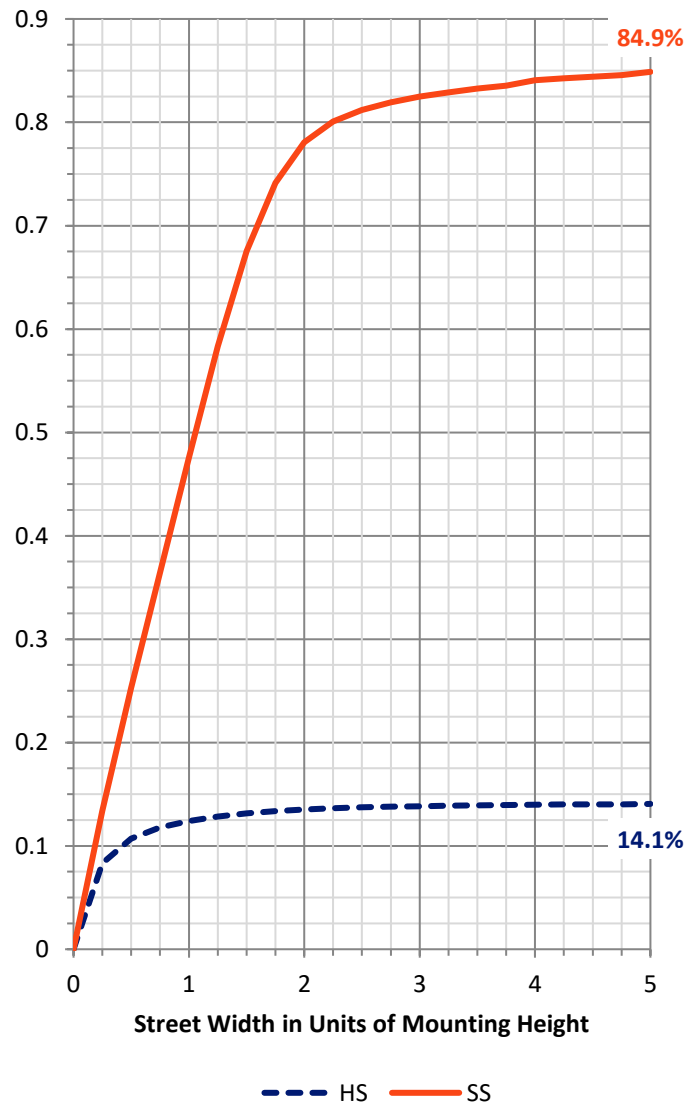
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2760.1	0.0	2760.1
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	16640.9	0.0	16640.9
	% Fixture	85.8	0.0	85.8
Total	Lumens	19401.0	0.0	19401.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	418.0	2.2
10°-20°	890.6	4.6
20°-30°	1134.8	5.8
30°-40°	1560.0	8.0
40°-50°	2531.3	13.0
50°-60°	4059.5	20.9
60°-70°	5402.9	27.8
70°-80°	2917.2	15.0
80°-90°	486.8	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°	19401.0	100.0
0°-180°	19401.0	100.0

Coefficient of Utilization



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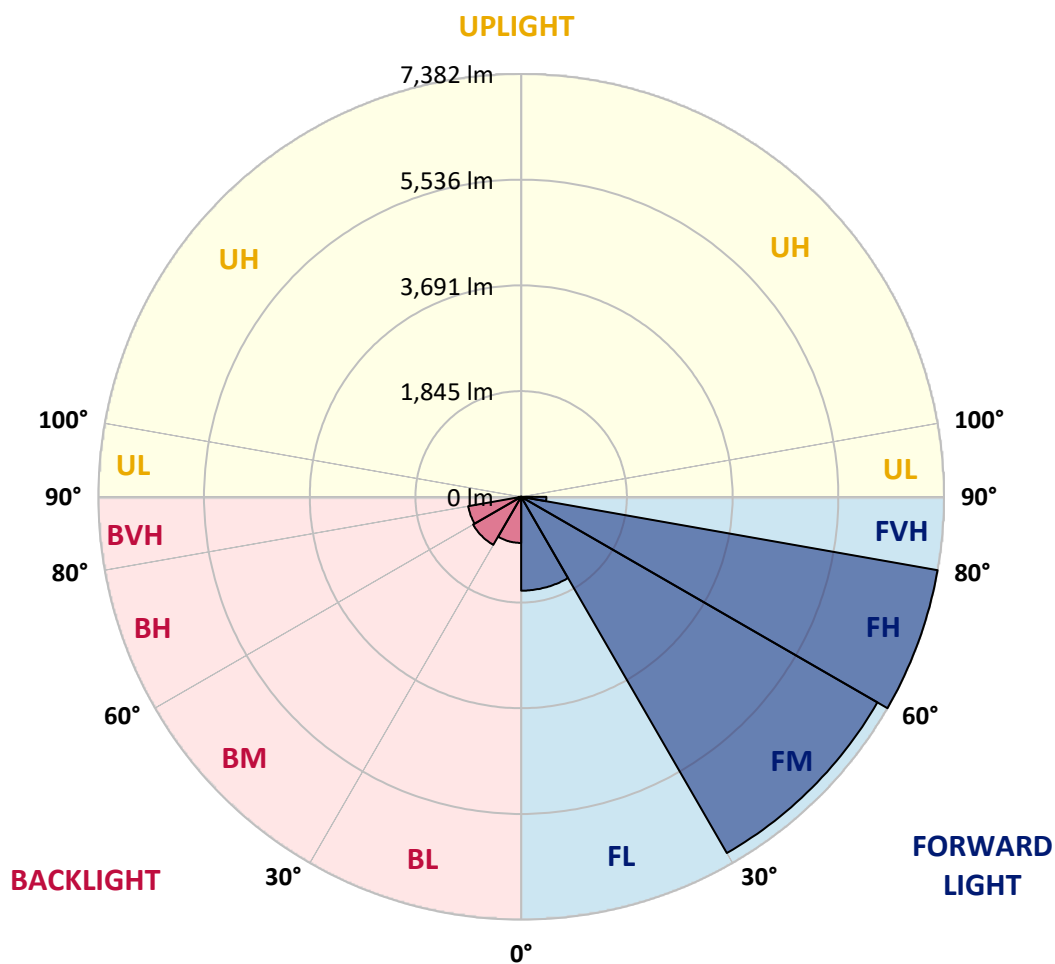
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1638.1	8.4			
FM	(30°-60°)	7181.1	37.0			
FH	(60°-80°)	7381.7	38.0			G3/7500
FVH	(80°-90°)	439.9	2.3			G3/500
BL	(0°-30°)	805.2	4.2	B2/1000		
BM	(30°-60°)	969.7	5.0	B1/1000		
BH	(60°-80°)	938.4	4.8	B2/1000		G2/1000
BVH	(80°-90°)	46.9	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	60°	65°	75°	85°
0°	4943.7	4943.7	4943.7	4943.7	4943.7	4943.7	4943.7	4943.7	4943.7	4943.7	4943.7
2.5°	5044.9	5056.1	5051.4	5048.6	5057.1	5043.9	5016.8	5008.3	4995.2	4964.3	4911.8
5°	4855.6	4889.3	4887.4	4912.7	4954.9	4966.2	4954.0	4955.9	4931.5	4893.1	4805.9
7.5°	4528.5	4542.6	4550.1	4605.3	4682.2	4744.0	4796.5	4813.4	4802.2	4769.4	4656.9
10°	4191.1	4202.4	4220.2	4284.8	4382.3	4467.6	4566.9	4624.1	4648.5	4642.8	4517.2
12.5°	3901.5	3912.8	3936.2	4009.3	4125.5	4230.5	4374.8	4446.0	4504.1	4538.8	4403.8
15°	3641.9	3666.3	3688.8	3773.1	3903.4	4041.2	4204.2	4294.2	4384.2	4462.0	4303.6
17.5°	3439.5	3463.8	3477.0	3553.8	3692.5	3861.2	4052.4	4158.3	4270.8	4398.2	4204.2
20°	3322.3	3333.6	3328.0	3371.1	3495.7	3674.7	3901.5	4024.3	4160.2	4338.2	4104.9
22.5°	3289.5	3290.5	3269.9	3265.2	3345.8	3496.7	3740.3	3889.3	4056.2	4298.9	4019.6
25°	3369.2	3366.4	3310.1	3264.2	3272.7	3360.8	3584.7	3758.1	3969.0	4290.4	3954.0
27.5°	3546.3	3554.8	3471.3	3385.1	3299.8	3297.0	3466.7	3649.4	3897.8	4328.9	3925.9
30°	3794.7	3808.7	3719.7	3610.1	3449.8	3317.6	3420.7	3584.7	3853.7	4408.5	3921.2
32.5°	4066.5	4081.5	4014.0	3898.7	3688.8	3445.1	3452.6	3590.4	3851.8	4520.1	3953.1
35°	4356.1	4372.9	4338.2	4240.8	4007.4	3680.3	3574.4	3681.3	3912.8	4690.6	4038.3
37.5°	4679.4	4705.6	4715.0	4622.2	4372.9	3990.5	3774.1	3853.7	4050.5	4927.7	4194.9
40°	5145.2	5181.7	5178.9	5045.8	4791.8	4409.5	4082.4	4103.0	4265.1	5244.5	4445.1
42.5°	6037.4	6044.9	5811.5	5521.9	5252.9	4850.0	4446.0	4429.2	4561.3	5645.6	4813.4
45°	7172.3	7141.4	6622.2	6062.7	5734.7	5356.0	4919.3	4836.8	4937.1	6134.8	5274.5
47.5°	8114.2	8043.0	7386.9	6614.7	6244.5	5906.2	5475.1	5330.7	5386.0	6689.7	5870.5
50°	8441.3	8387.8	7844.3	7073.9	6727.1	6577.2	6159.2	5954.9	5969.9	7351.3	6568.8
52.5°	8371.0	8363.5	8000.8	7376.6	7178.9	7282.0	7128.3	6851.8	6705.6	8086.1	7322.3
55°	8205.1	8221.0	8089.8	7729.0	7695.3	7962.4	8394.4	8190.1	7735.6	8827.4	8101.1
57.5°	7628.7	7670.0	7958.6	8172.3	8526.5	8923.9	9414.1	9356.0	8844.2	9628.7	9027.0
60°	6146.1	6241.7	7015.8	8086.1	9382.2	10624.9	10844.2	10709.3	9987.6	10623.0	10250.0
62.5°	4306.4	4405.7	5326.0	7000.8	9241.6	12546.1	13400.9	12818.9	11629.6	12087.9	11832.9
65°	2305.5	2353.3	3056.2	4857.4	7802.1	12942.6	17137.4	16251.8	14229.3	13893.8	13187.2
67.5°	1271.8	1298.0	1567.0	2452.6	4997.1	11397.1	19517.9	20187.0	17478.6	15096.2	12940.7
69°	1149.9	1174.3	1350.5	1857.5	3343.9	9423.4	19285.5	21224.5	18903.1	14977.2	12029.8
70°	1124.6	1147.1	1305.5	1712.2	2706.6	7767.4	18506.7	20959.3	19242.4	14550.8	11235.0
72.5°	1012.2	1036.5	1190.2	1537.9	2313.0	3872.5	14659.5	17721.3	17470.1	12616.4	8521.9
75°	943.7	966.2	1226.8	1506.1	2214.6	2450.7	9664.3	13060.7	12842.3	8825.5	4595.0
77.5°	403.9	402.1	568.9	1274.6	2247.4	2373.0	5193.0	8159.2	7444.1	3772.2	1319.6
80°	269.9	265.2	269.9	374.9	2060.9	2386.1	2720.7	4141.4	3128.3	961.6	650.4
82.5°	232.4	228.7	237.1	228.7	724.4	2723.5	2313.0	2202.4	1487.3	546.4	322.4
85°	156.5	150.0	204.3	205.2	342.1	2419.8	2605.4	1860.3	1203.4	324.3	159.3
87.5°	75.0	73.1	119.0	145.3	200.6	983.1	2923.1	1906.2	1213.7	165.9	75.9
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°	4943.7	4943.7	4943.7	4943.7	4943.7	4943.7	4943.7	4943.7	4943.7	4943.7	4943.7
2.5°	4895.9	4857.4	4820.0	4775.0	4728.1	4675.6	4649.4	4623.2	4616.6	4609.1	4582.9
5°	4760.9	4706.6	4612.8	4509.8	4401.0	4295.1	4214.5	4163.9	4125.5	4105.8	4071.1
7.5°	4586.6	4506.9	4342.9	4164.9	3982.1	3815.3	3671.0	3580.1	3493.8	3453.5	3407.6
10°	4420.7	4301.7	4046.8	3784.4	3522.0	3269.9	3032.7	2865.0	2716.0	2632.6	2573.5
12.5°	4278.3	4115.2	3761.9	3406.7	3046.8	2687.9	2332.7	2053.4	1820.0	1697.2	1634.5
15°	4139.6	3942.8	3491.0	3040.2	2578.2	2089.9	1623.2	1306.4	1113.4	1036.5	1010.3
17.5°	4014.0	3761.9	3219.2	2671.0	2094.6	1504.2	1090.9	916.6	842.5	817.2	808.8
20°	3878.1	3579.1	2937.1	2284.9	1590.4	1051.5	851.9	775.1	745.1	737.6	733.8
22.5°	3746.9	3399.2	2667.2	1871.6	1142.4	811.6	731.9	700.1	695.4	702.0	702.0
25°	3635.4	3238.0	2375.8	1439.5	838.8	683.2	655.1	647.6	665.4	689.8	694.5
27.5°	3551.9	3105.8	2065.6	1062.8	668.2	594.2	593.2	605.4	649.5	696.3	705.7
30°	3494.8	2980.3	1733.8	766.6	560.4	523.0	537.9	564.2	628.9	695.4	713.2
32.5°	3465.7	2887.5	1388.0	593.2	479.8	459.2	484.5	516.4	580.1	642.0	665.4
35°	3488.2	2819.1	1061.8	494.8	423.6	407.7	433.9	464.8	502.3	528.6	546.4
37.5°	3572.6	2791.9	801.3	443.3	385.2	370.2	390.8	408.6	423.6	431.1	439.5
40°	3754.4	2820.9	642.0	417.0	363.6	344.9	353.3	359.9	369.3	376.7	380.5
42.5°	4022.4	2908.1	575.4	406.7	352.4	325.2	323.3	326.1	338.3	352.4	355.2
45°	4397.3	3061.8	570.7	413.3	346.8	309.3	300.8	304.6	323.3	344.9	348.6
47.5°	4876.2	3296.1	608.2	433.0	351.4	300.8	286.8	291.5	314.9	343.9	348.6
50°	5456.3	3623.2	671.0	462.0	372.1	302.7	282.1	284.9	309.3	341.1	345.8
52.5°	6141.4	4087.1	739.4	490.1	393.6	314.9	285.8	279.3	301.8	329.9	335.5
55°	6903.3	4682.2	809.7	515.5	404.9	329.9	293.3	271.8	287.7	311.1	315.8
57.5°	7838.6	5514.4	931.6	539.8	412.4	340.2	300.8	264.3	269.9	286.8	290.5
60°	9104.8	6691.5	1146.2	580.1	429.2	343.9	299.9	257.7	252.1	261.5	263.3
62.5°	10622.1	7969.9	1325.2	630.7	457.3	346.8	294.3	253.0	237.1	237.1	239.0
65°	11522.7	8311.9	1225.8	672.9	480.8	343.9	287.7	248.4	225.9	215.6	216.5
67.5°	10758.9	7310.1	1050.6	681.3	479.8	330.8	277.4	239.9	214.6	198.7	197.7
69°	9802.1	6307.3	971.9	658.8	457.3	314.0	264.3	230.5	206.2	189.3	188.4
70°	9030.7	5695.3	920.3	634.5	433.0	301.8	254.0	222.1	199.6	183.7	181.8
72.5°	6565.9	3731.9	786.3	545.4	357.1	253.0	219.3	194.9	178.1	168.7	166.8
75°	3281.1	1779.7	638.2	442.4	273.7	202.4	179.9	163.1	154.6	152.8	151.8
77.5°	1077.8	815.4	456.4	329.9	203.4	158.4	145.3	133.1	131.2	136.8	135.0
80°	592.3	474.2	289.6	218.4	138.7	116.2	114.3	107.8	110.6	120.0	118.1
82.5°	301.8	246.5	179.0	131.2	93.7	83.4	90.9	87.2	90.9	99.3	98.4
85°	149.0	135.0	113.4	79.7	61.9	53.4	64.7	67.5	69.4	75.9	75.9
87.5°	86.2	79.7	60.0	37.5	30.9	28.1	37.5	36.6	43.1	46.9	45.9
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)