

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: P194577

Luminaire Tested: **GLEON-AF-09-LED-E1-SL4-7060-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P194577
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-09-LED-E1-SL4-7060-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 5700K, 615mA LIGHTSQUARES 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: 33316 lumens
Efficiency: N/A
Efficacy: 114.9 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B3 - U0 - G5

Input Watts (W): 290
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



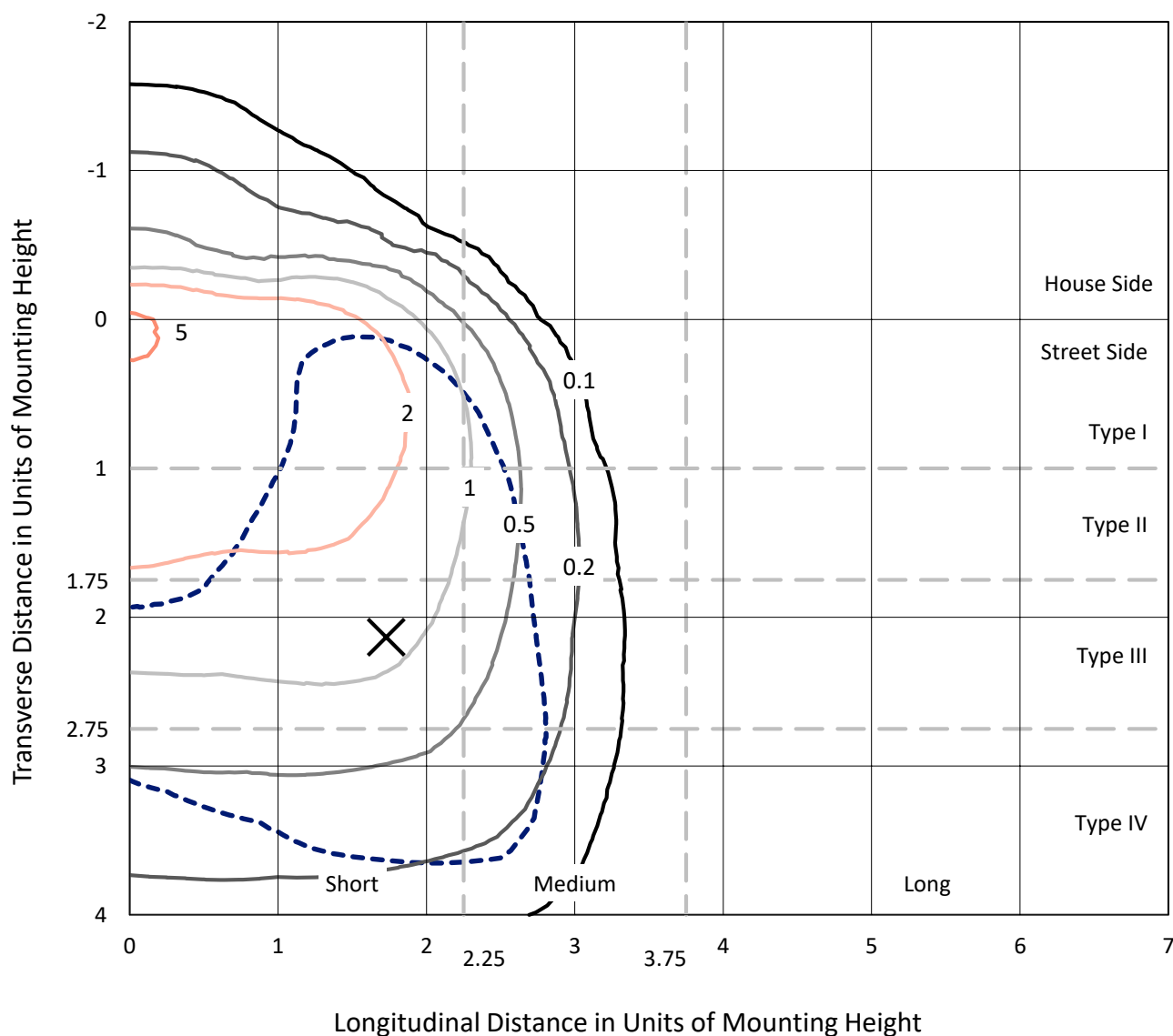
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

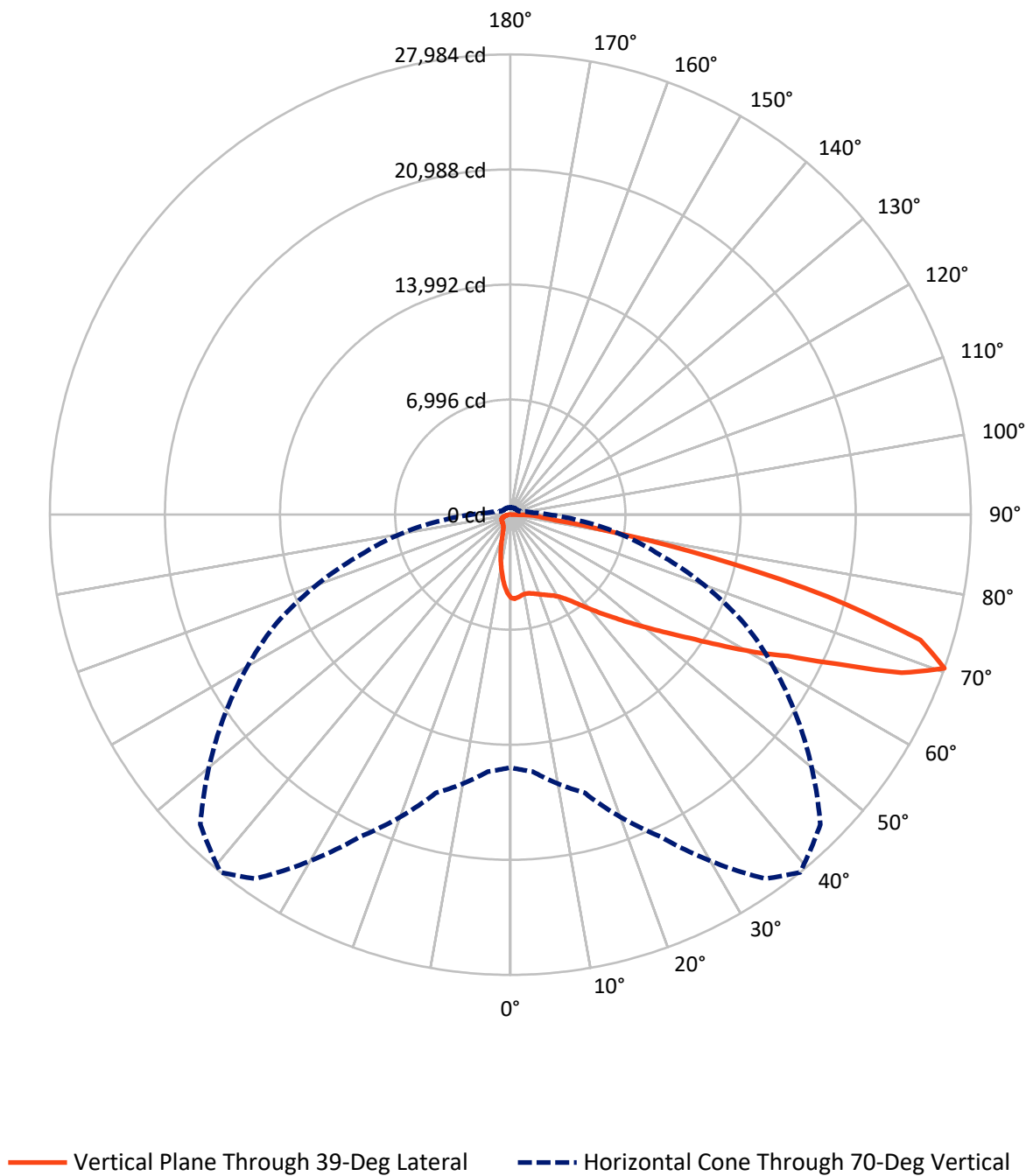


Based on 30 foot mounting height. Maximum calculated value = 5.6 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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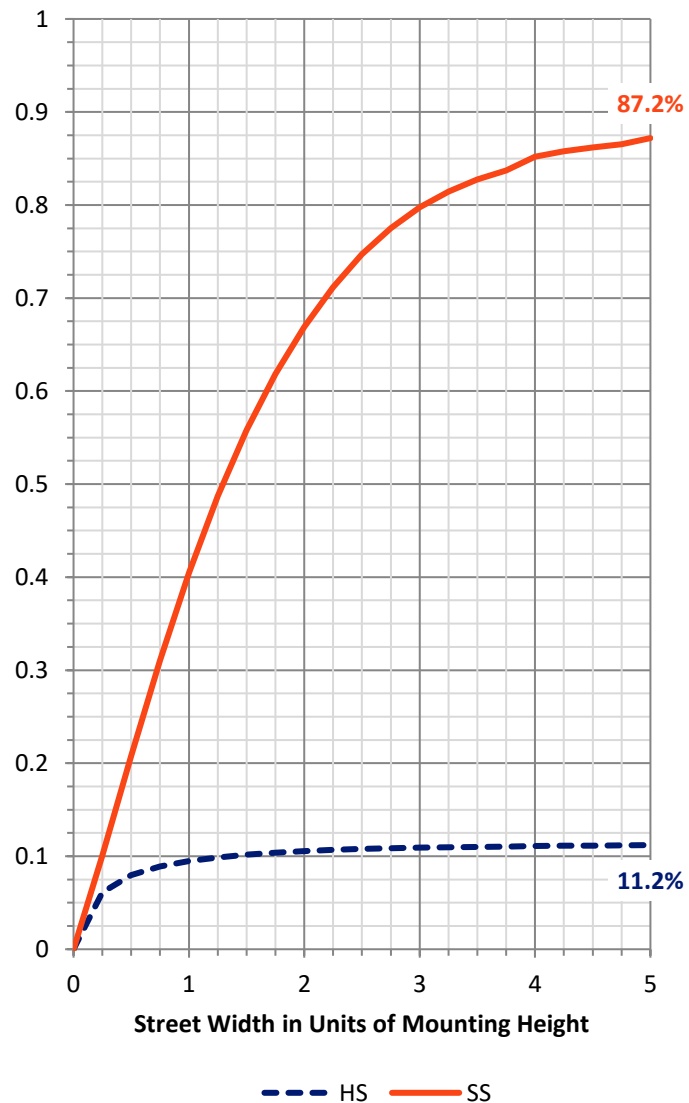
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3789.2	0.0	3789.2
	% Fixture	11.4	0.0	11.4
Street Side	Lumens	29526.8	0.0	29526.8
	% Fixture	88.6	0.0	88.6
Total	Lumens	33316.0	0.0	33316.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	434.1	1.3
10°-20°	1085.0	3.3
20°-30°	1689.4	5.1
30°-40°	2631.7	7.9
40°-50°	4418.2	13.3
50°-60°	7018.7	21.1
60°-70°	9362.2	28.1
70°-80°	5653.6	17.0
80°-90°	1023.2	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°	33316.0	100.0
0°-180°	33316.0	100.0

Coefficient of Utilization



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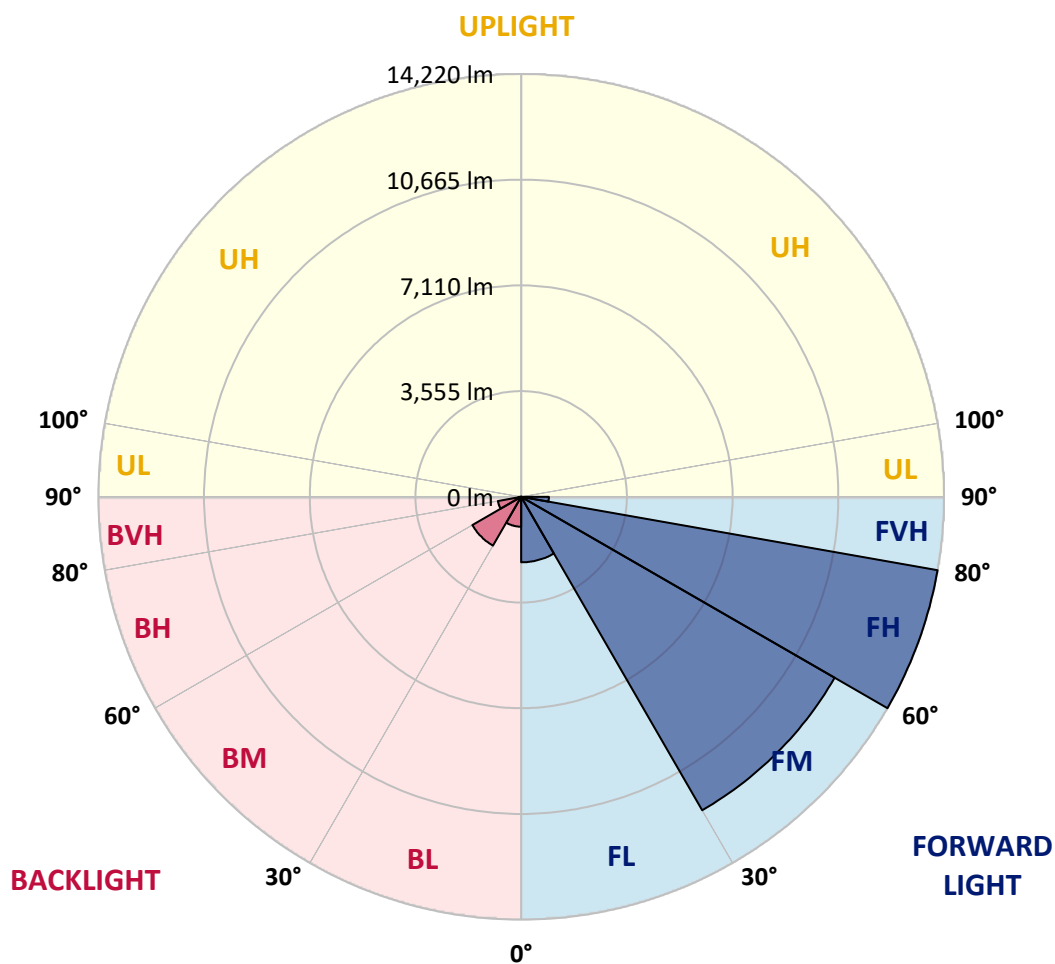
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2203.2	6.6			
FM	(30°-60°)	12172.4	36.5			
FH	(60°-80°)	14220.2	42.7			G5
FVH	(80°-90°)	931.0	2.8			G5
BL	(0°-30°)	1005.2	3.0	B3/2500		
BM	(30°-60°)	1896.2	5.7	B2/2500		
BH	(60°-80°)	795.5	2.4	B2/1000		G2/1000
BVH	(80°-90°)	92.2	0.3			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 IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	5057.9	5057.9	5057.9	5057.9	5057.9	5057.9	5057.9	5057.9	5057.9	5057.9	5057.9
2.5°	5156.1	5154.4	5140.9	5130.7	5122.3	5118.9	5125.6	5100.2	5078.2	5051.1	5022.3
5°	5117.2	5115.5	5093.5	5073.1	5052.8	5046.0	5044.3	4998.6	4971.5	4930.8	4876.6
7.5°	5074.8	5066.4	5037.6	5003.7	4968.1	4951.2	4934.2	4874.9	4844.5	4803.8	4741.1
10°	5030.8	5020.6	4993.5	4959.6	4925.8	4900.4	4871.6	4814.0	4781.8	4751.3	4678.5
12.5°	4985.0	4976.6	4969.8	4954.6	4930.8	4908.8	4886.8	4837.7	4803.8	4768.2	4683.5
15°	4978.3	4974.9	4990.1	5000.3	4986.7	4973.2	4949.5	4907.1	4871.6	4836.0	4725.9
17.5°	5032.5	5030.8	5069.7	5096.8	5090.1	5066.4	5034.2	4986.7	4957.9	4927.5	4790.3
20°	5151.0	5159.5	5206.9	5242.5	5208.6	5174.8	5122.3	5056.2	5040.9	5027.4	4856.3
22.5°	5374.6	5383.1	5417.0	5430.5	5342.5	5293.3	5220.5	5135.8	5125.6	5135.8	4935.9
25°	5723.6	5715.1	5710.0	5659.2	5498.3	5422.1	5328.9	5240.8	5245.9	5291.6	5047.7
27.5°	6186.0	6140.3	6069.1	5916.7	5660.9	5576.2	5462.7	5381.4	5413.6	5501.7	5215.4
30°	6665.4	6614.5	6450.2	6201.2	5874.3	5781.2	5654.1	5562.7	5647.4	5786.2	5439.0
32.5°	7109.2	7102.4	6861.9	6541.7	6169.1	6087.8	5960.7	5857.4	5994.6	6206.3	5774.4
35°	7593.6	7608.8	7320.9	6936.4	6567.1	6482.4	6391.0	6313.0	6496.0	6787.3	6260.5
37.5°	8111.9	8142.4	7801.9	7368.3	7021.1	6985.5	6931.3	6897.4	7180.3	7583.4	6939.8
40°	8804.7	8774.2	8301.6	7856.2	7578.4	7576.7	7559.7	7600.4	8071.3	8623.5	7812.1
42.5°	9546.6	9456.9	8831.8	8379.6	8189.8	8247.4	8281.3	8447.3	9143.5	9887.1	8875.9
45°	10346.1	10144.6	9382.3	8933.5	8869.1	8991.0	9106.2	9467.0	10405.4	11325.2	10041.2
47.5°	10984.7	10789.9	9951.5	9514.4	9655.0	9839.7	10061.6	10632.4	11818.1	12810.7	11191.4
50°	11487.8	11360.8	10525.7	10192.0	10520.6	10805.2	11167.7	11951.9	13288.4	14257.3	12256.8
52.5°	11975.6	11880.8	11105.0	10886.5	11536.9	11929.9	12422.8	13368.0	14795.9	15680.1	13152.9
55°	12416.0	12348.3	11728.3	11752.0	12732.8	13244.3	13864.3	14980.6	16439.0	16948.8	13911.7
57.5°	12912.3	12826.0	12439.8	12837.8	14269.1	14933.1	15739.4	16793.0	17980.4	18076.9	14489.3
60°	13412.0	13337.5	13229.1	14091.3	16220.5	16918.3	17682.3	18549.5	19543.8	18952.7	14455.5
62.5°	13845.7	13854.1	14045.5	15407.4	18131.1	18939.1	19870.7	20727.8	20958.2	19105.1	13386.6
65°	14580.8	14714.6	15285.5	17270.7	20821.0	21901.7	23045.1	22907.8	21349.5	17680.6	11094.8
67.5°	15454.8	15690.3	16847.2	19753.9	24220.6	25655.3	26097.4	23400.8	19782.7	14372.5	7908.7
70°	15366.8	15690.3	17521.4	21605.3	27022.3	27984.4	26642.8	21178.4	15708.9	9389.1	4200.8
72.5°	13645.8	14108.2	16147.6	20756.6	26139.7	26055.1	23129.7	15788.5	9333.2	3770.5	1641.4
75°	10400.3	10867.8	12622.7	16398.3	20660.1	19948.7	16411.9	8721.7	3541.9	1497.4	1035.0
77.5°	5982.7	6345.2	7700.3	10056.5	13107.1	12377.1	9135.0	3879.0	1724.4	1043.4	808.0
80°	3340.3	3541.9	4365.1	5101.9	6423.1	5887.9	4087.3	2410.4	1287.3	757.2	623.3
82.5°	2640.7	2820.3	3530.0	3218.3	2933.8	2706.8	2347.7	2146.1	1028.2	477.7	372.7
85°	2307.0	2478.1	2988.0	2534.0	2003.8	1837.8	1907.3	2112.3	799.5	288.0	318.4
87.5°	2137.7	2366.3	2662.8	1953.0	1560.1	1382.2	1759.9	2315.5	257.5	179.5	128.7
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°	5057.9	5057.9	5057.9	5057.9	5057.9	5057.9	5057.9	5057.9	5057.9	5057.9	5057.9
2.5°	4996.9	4969.8	4925.8	4886.8	4825.8	4793.6	4758.1	4732.7	4712.3	4695.4	4722.5
5°	4842.8	4791.9	4698.8	4598.8	4480.3	4387.1	4309.2	4236.4	4185.5	4151.7	4175.4
7.5°	4697.1	4614.1	4468.4	4287.2	4083.9	3911.1	3768.9	3643.5	3557.1	3501.2	3523.2
10°	4614.1	4510.8	4285.5	4000.9	3701.1	3431.8	3208.2	3015.1	2881.3	2805.0	2816.9
12.5°	4593.8	4460.0	4148.3	3757.0	3347.1	2972.7	2657.7	2390.0	2202.0	2103.8	2107.2
15°	4609.0	4437.9	4019.5	3523.2	3004.9	2532.3	2139.4	1814.1	1595.6	1483.8	1482.1
17.5°	4634.4	4421.0	3884.0	3270.9	2657.7	2108.9	1670.2	1351.7	1158.6	1068.8	1062.1
20°	4661.5	4393.9	3731.6	2998.1	2296.9	1715.9	1307.7	1058.7	936.7	887.6	884.2
22.5°	4700.5	4370.2	3574.1	2710.2	1942.9	1397.4	1075.6	907.9	843.5	818.1	814.7
25°	4763.2	4358.3	3406.4	2410.4	1624.4	1168.8	936.7	833.4	796.1	779.2	777.5
27.5°	4868.2	4375.3	3248.8	2119.0	1365.3	1014.6	858.8	796.1	769.0	753.8	752.1
30°	5003.7	4427.8	3082.8	1842.9	1163.7	909.6	811.4	770.7	748.7	733.4	733.4
32.5°	5229.0	4515.8	2908.4	1604.1	1019.7	836.8	775.8	748.7	730.1	718.2	716.5
35°	5561.0	4681.8	2745.8	1405.9	916.4	784.3	745.3	725.0	711.4	704.6	704.6
37.5°	6043.7	4944.4	2601.8	1263.6	853.7	748.7	716.5	701.3	692.8	692.8	692.8
40°	6692.5	5306.9	2484.9	1168.8	818.1	723.3	694.5	682.6	677.5	679.2	679.2
42.5°	7493.7	5777.8	2407.0	1102.7	801.2	708.0	679.2	669.1	664.0	662.3	664.0
45°	8406.7	6313.0	2398.5	1053.6	784.3	697.9	669.1	658.9	648.8	642.0	642.0
47.5°	9294.2	6856.8	2468.0	1036.6	765.6	686.0	660.6	650.4	635.2	620.0	620.0
50°	10078.5	7319.2	2561.1	1043.4	758.9	669.1	647.1	642.0	618.3	601.3	599.6
52.5°	10701.8	7674.9	2637.4	1063.7	765.6	657.2	630.1	631.8	606.4	587.8	586.1
55°	11201.5	7908.7	2617.0	1084.1	780.9	650.4	614.9	618.3	597.9	579.3	579.3
57.5°	11420.0	7822.3	2391.7	1067.1	792.7	652.1	603.0	616.6	599.6	582.7	582.7
60°	10950.8	7055.0	1970.0	992.6	777.5	647.1	597.9	623.3	621.6	604.7	603.0
62.5°	9531.4	5681.2	1527.9	882.5	725.0	621.6	584.4	621.6	640.3	635.2	633.5
65°	7346.3	4046.6	1167.1	763.9	653.8	579.3	548.8	582.7	608.1	614.9	613.2
67.5°	4768.2	2479.8	899.4	652.1	574.2	530.2	503.1	518.3	523.4	523.4	520.0
70°	2344.3	1334.8	716.5	548.8	492.9	477.7	462.4	454.0	445.5	438.7	438.7
72.5°	1156.9	872.3	589.5	464.1	425.2	418.4	415.0	404.8	398.1	389.6	386.2
75°	855.4	709.7	501.4	391.3	365.9	359.1	365.9	357.4	355.7	348.9	345.5
77.5°	703.0	604.7	431.9	335.4	313.4	301.5	311.7	313.4	315.1	304.9	301.5
80°	570.8	511.5	360.8	277.8	257.5	249.0	255.8	269.3	272.7	257.5	250.7
82.5°	411.6	418.4	291.3	216.8	199.9	193.1	206.7	223.6	227.0	205.0	199.9
85°	345.5	348.9	223.6	154.1	137.2	127.0	149.1	166.0	177.9	155.8	150.8
87.5°	144.0	205.0	128.7	86.4	76.2	66.1	79.6	88.1	106.7	98.2	96.6
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)