

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: P192954

Luminaire Tested: **GLEON-AF-06-LED-E1-SL4-7030-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192954
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24301)
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-SL4-7030-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27945.2 lumens
Efficiency: N/A
Efficacy: 83.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B2 - U0 - G5

Input Watts (W): 333
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



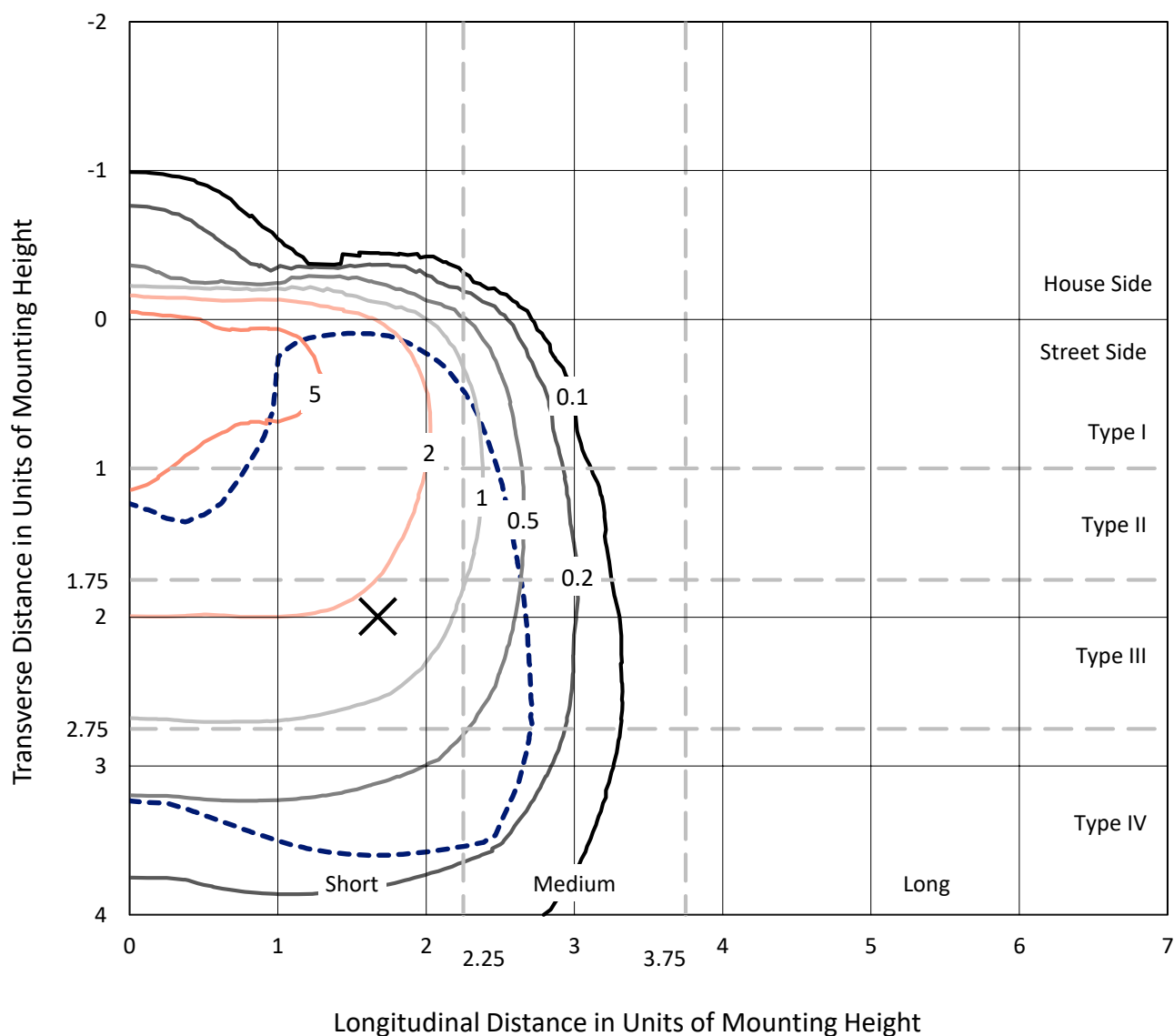
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

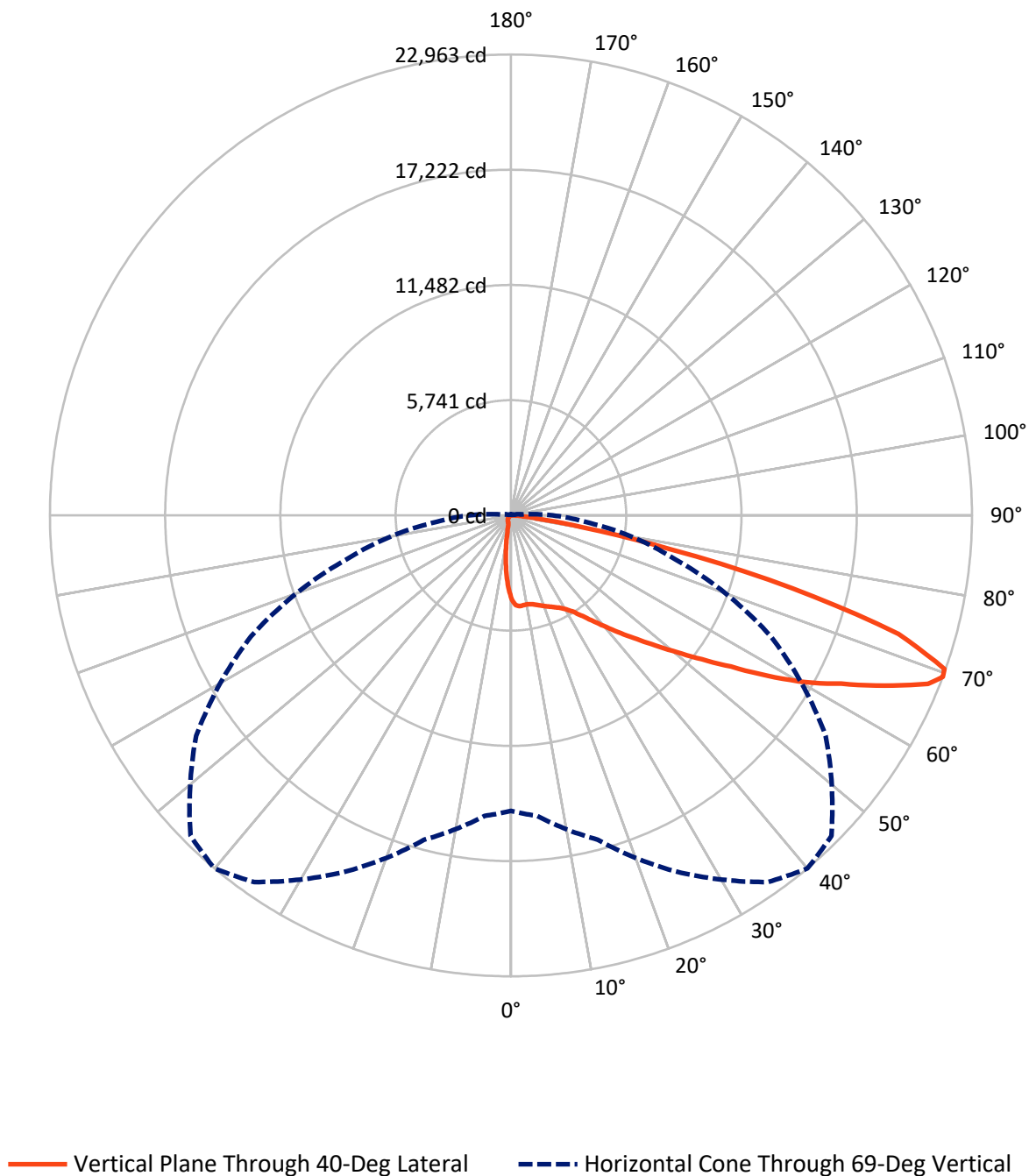


Based on 25 foot mounting height. Maximum calculated value = 7.3 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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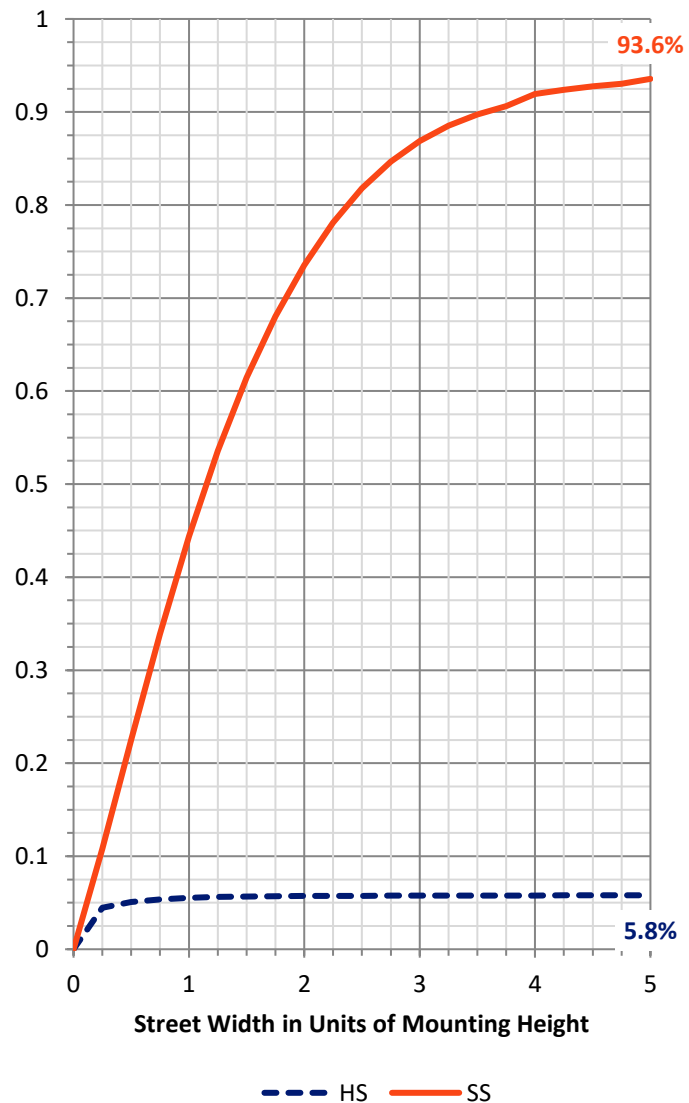
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1635.0	0.0	1635.0
	% Fixture	5.9	0.0	5.9
Street Side	Lumens	26310.3	0.0	26310.3
	% Fixture	94.1	0.0	94.1
Total	Lumens	27945.2	0.0	27945.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	338.5	1.2
10°-20°	832.5	3.0
20°-30°	1402.2	5.0
30°-40°	2295.4	8.2
40°-50°	3974.5	14.2
50°-60°	6260.2	22.4
60°-70°	8175.6	29.3
70°-80°	4210.8	15.1
80°-90°	455.5	1.6
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°	27945.2	100.0
0°-180°	27945.2	100.0

Coefficient of Utilization



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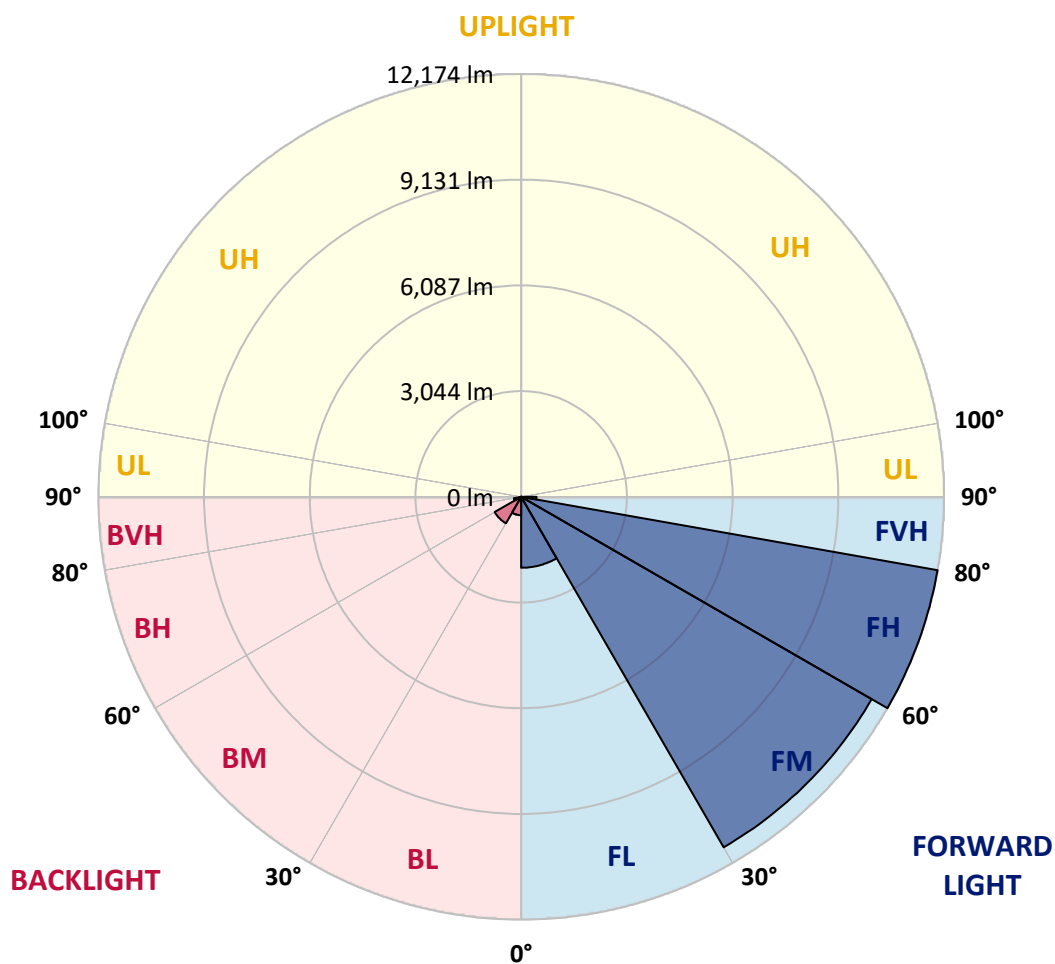
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2043.6	7.3			
FM	(30°-60°)	11651.4	41.7			
FH	(60°-80°)	12174.1	43.6			G5
FVH	(80°-90°)	441.2	1.6			G3/500
BL	(0°-30°)	529.6	1.9	B2/1000		
BM	(30°-60°)	878.7	3.1	B1/1000		
BH	(60°-80°)	212.3	0.8	B1/500		G1/500
BVH	(80°-90°)	14.3	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G5

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	4175.2	4175.2	4175.2	4175.2	4175.2	4175.2	4175.2	4175.2	4175.2	4175.2	4175.2
2.5°	4584.4	4559.4	4544.4	4524.4	4499.6	4477.9	4469.6	4408.1	4349.8	4270.0	4178.5
5°	4669.2	4660.9	4634.2	4607.7	4577.8	4544.4	4526.2	4453.0	4369.9	4253.4	4093.6
7.5°	4677.5	4667.5	4634.2	4597.6	4556.1	4516.1	4484.5	4411.4	4334.9	4216.8	4022.2
10°	4664.2	4652.6	4627.5	4587.7	4536.1	4497.8	4466.3	4396.4	4331.5	4225.0	4008.8
12.5°	4649.2	4637.6	4625.9	4606.0	4561.0	4534.5	4507.8	4441.3	4383.1	4293.3	4057.1
15°	4664.2	4657.5	4670.9	4662.5	4637.6	4614.3	4587.7	4527.8	4474.6	4399.8	4145.2
17.5°	4727.4	4727.4	4768.9	4774.0	4750.7	4717.5	4679.1	4619.3	4574.3	4511.2	4249.9
20°	4875.4	4870.4	4923.7	4933.7	4877.2	4825.6	4768.9	4695.9	4660.9	4621.0	4353.1
22.5°	5129.9	5106.7	5138.3	5128.3	5016.8	4937.0	4867.2	4777.4	4759.0	4740.8	4467.9
25°	5461.0	5447.6	5469.3	5371.1	5174.8	5066.8	4983.6	4882.1	4882.1	4900.4	4597.6
27.5°	5941.7	5891.8	5818.6	5645.7	5351.2	5213.1	5123.2	5015.2	5043.5	5111.7	4768.9
30°	6434.1	6379.2	6211.2	5945.1	5565.7	5421.0	5316.2	5203.2	5269.7	5394.4	4998.5
32.5°	6919.8	6858.2	6620.3	6284.4	5873.6	5728.8	5627.3	5502.6	5614.0	5823.6	5334.6
35°	7390.6	7335.6	7061.2	6665.3	6282.7	6163.0	6069.8	5961.6	6104.8	6397.4	5808.7
37.5°	7919.5	7859.6	7525.2	7096.1	6780.1	6693.6	6625.4	6517.2	6766.8	7196.0	6469.0
40°	8569.9	8468.4	8017.7	7590.1	7355.6	7314.1	7267.5	7252.5	7640.1	8233.9	7349.0
42.5°	9315.1	9148.8	8533.2	8110.8	7987.7	8017.7	8006.0	8072.5	8732.9	9524.6	8420.2
45°	10060.3	9845.7	9107.2	8666.3	8683.1	8787.8	8852.6	9118.8	10101.9	11005.1	9573.0
47.5°	10692.4	10481.1	9657.8	9266.9	9466.4	9672.7	9849.0	10353.1	11509.2	12462.3	10469.6
50°	11233.1	11033.4	10241.6	9927.2	10376.4	10709.0	10995.2	11742.0	13022.8	13571.7	11098.2
52.5°	11675.5	11542.3	10847.1	10684.1	11416.0	11903.4	12322.6	13217.4	14363.6	14473.3	11587.3
55°	12106.3	12011.5	11497.5	11584.0	12636.9	13300.6	13831.2	14782.8	15518.0	15225.2	12056.4
57.5°	12602.0	12515.5	12239.3	12725.1	14242.2	15077.1	15656.0	16170.1	16534.3	15993.7	12498.8
60°	13107.8	13057.8	13064.4	13992.7	16085.1	16887.0	17206.3	17339.5	17532.4	16717.3	12523.9
62.5°	13590.1	13684.8	14007.6	15403.2	17850.1	18465.6	18626.8	18758.2	18532.1	16832.1	11570.7
65°	14406.8	14561.5	15331.7	17291.2	19791.2	20449.9	20616.3	20165.6	18690.1	15348.3	9411.6
67.5°	14806.0	15088.8	16462.7	19051.1	21674.2	22406.2	22344.6	20257.0	16772.2	11703.8	6039.9
69°	14722.9	15023.9	16724.0	19589.9	22299.7	22963.3	22572.5	19137.6	14288.7	8478.4	3707.7
70°	14393.5	14697.9	16589.2	19570.1	22379.6	22905.2	22150.0	17755.2	12081.4	6199.6	2318.8
72.5°	12019.8	12282.6	14727.8	17688.7	20616.3	20188.8	18530.4	12301.0	5886.8	1688.4	522.3
75°	7398.8	7545.2	10567.7	13325.6	15571.2	14473.3	12345.9	6119.7	1754.9	477.4	289.4
77.5°	3909.0	3975.5	5785.4	7854.6	9870.7	8167.3	6327.6	2387.0	808.4	299.4	209.6
80°	2310.5	2360.3	3115.5	3591.4	4271.6	3568.0	2530.0	1465.5	578.8	187.9	186.3
82.5°	1322.4	1354.0	2258.9	1996.0	1683.3	1437.2	1259.2	1388.9	347.7	126.4	193.0
85°	485.7	492.3	1270.8	1518.7	1001.4	595.5	625.4	1151.0	93.2	79.9	151.4
87.5°	226.2	221.2	653.7	929.8	585.5	377.6	487.4	252.8	36.6	51.6	41.6
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°	4175.2	4175.2	4175.2	4175.2	4175.2	4175.2	4175.2	4175.2	4175.2	4175.2	4175.2
2.5°	4125.3	4063.7	3952.2	3837.5	3721.1	3631.2	3543.1	3473.3	3449.9	3406.7	3410.0
5°	3998.9	3885.7	3652.9	3416.6	3170.4	2967.5	2776.3	2621.5	2546.8	2470.2	2470.2
7.5°	3889.1	3724.4	3360.0	2975.9	2578.3	2243.9	1942.8	1716.7	1591.9	1492.1	1490.4
10°	3847.4	3624.5	3115.5	2565.0	2011.0	1555.3	1197.7	968.1	850.0	773.4	770.2
12.5°	3865.8	3589.6	2927.6	2185.7	1490.4	999.7	693.7	545.6	495.7	472.4	472.4
15°	3919.0	3579.7	2739.6	1814.8	1052.9	625.4	460.7	420.8	417.5	417.5	417.5
17.5°	3983.9	3582.9	2546.8	1453.8	717.0	447.4	397.6	392.6	395.8	395.8	395.8
20°	4050.5	3584.7	2338.8	1119.5	505.7	389.3	374.2	372.6	376.0	376.0	377.6
22.5°	4131.9	3593.0	2130.9	836.7	417.5	367.6	355.9	355.9	357.6	357.6	355.9
25°	4225.0	3609.6	1914.5	620.5	380.9	352.7	342.6	341.0	342.6	341.0	339.4
27.5°	4341.5	3632.9	1673.5	485.7	364.3	337.7	329.3	329.3	327.7	326.0	324.4
30°	4488.0	3659.5	1402.3	412.6	347.7	324.4	316.1	314.3	312.7	309.4	309.4
32.5°	4710.8	3717.8	1134.4	374.2	329.3	306.0	299.4	299.4	296.1	292.9	291.0
35°	5053.5	3832.5	895.0	350.9	309.4	286.2	277.7	277.7	274.5	272.8	271.2
37.5°	5527.5	4007.2	695.3	329.3	289.4	264.5	256.2	254.5	251.2	247.8	246.2
40°	6158.0	4223.4	547.3	309.4	269.5	242.9	236.2	232.8	226.2	221.2	221.2
42.5°	6949.8	4469.6	444.1	287.8	246.2	222.9	217.9	212.9	201.2	196.2	194.6
45°	7778.0	4690.8	376.0	262.8	222.9	202.9	199.6	191.3	176.4	171.3	171.3
47.5°	8375.3	4742.4	331.0	239.5	201.2	181.3	179.6	164.7	151.4	148.0	146.4
50°	8747.9	4640.9	294.5	216.3	181.3	161.3	156.3	138.1	129.8	126.4	124.8
52.5°	8999.0	4459.6	264.5	196.2	163.1	143.0	131.4	118.1	111.5	108.1	108.1
55°	9200.2	4203.4	234.6	178.0	148.0	128.1	111.5	101.5	94.8	91.4	91.4
57.5°	9256.9	3855.8	204.7	163.1	133.1	113.1	94.8	88.2	79.9	78.2	78.2
60°	8846.0	3228.7	181.3	144.8	119.7	98.2	83.1	74.9	66.5	64.9	63.3
62.5°	7763.1	2498.4	159.7	128.1	104.8	84.7	71.6	61.5	54.8	54.8	54.8
65°	5921.8	1675.1	139.8	111.5	91.4	71.6	61.5	49.9	46.6	46.6	48.3
67.5°	3544.7	911.6	119.7	94.8	78.2	59.9	51.6	43.2	41.6	43.2	43.2
69°	2077.6	535.6	108.1	84.7	68.2	53.2	44.9	38.2	41.6	43.2	43.2
70°	1282.4	361.0	99.8	76.5	61.5	48.3	41.6	36.6	39.9	41.6	41.6
72.5°	357.6	186.3	79.9	59.9	49.9	39.9	33.3	33.3	38.2	39.9	39.9
75°	232.8	138.1	61.5	44.9	38.2	31.5	28.3	31.5	36.6	38.2	38.2
77.5°	193.0	113.1	49.9	36.6	31.5	29.9	26.7	28.3	33.3	35.0	35.0
80°	176.4	79.9	39.9	33.3	28.3	26.7	24.9	23.3	29.9	31.5	31.5
82.5°	168.0	63.3	35.0	29.9	26.7	23.3	21.7	23.3	26.7	28.3	29.9
85°	104.8	41.6	31.5	28.3	23.3	21.7	21.7	21.7	24.9	26.7	26.7
87.5°	38.2	33.3	28.3	23.3	20.0	20.0	20.0	20.0	21.7	24.9	24.9
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)