

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: P301916

Luminaire Tested: **GLNA-AF-10-LED-E1-SL4-8030-800-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P301916
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: GLNA-AF-10-LED-E1-SL4-8030-800-HSS
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(10) 80 CRI, 3000K CCT 800mA LIGHTSQUARE WITH 16 LEDS EACH AND Type IV
w/Spill Control WITH HOUSESIDE SHEILD OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28643.8 lumens
Efficiency: N/A
Efficacy: 68.4 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B2 - U0 - G5

Input Watts (W): 419
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



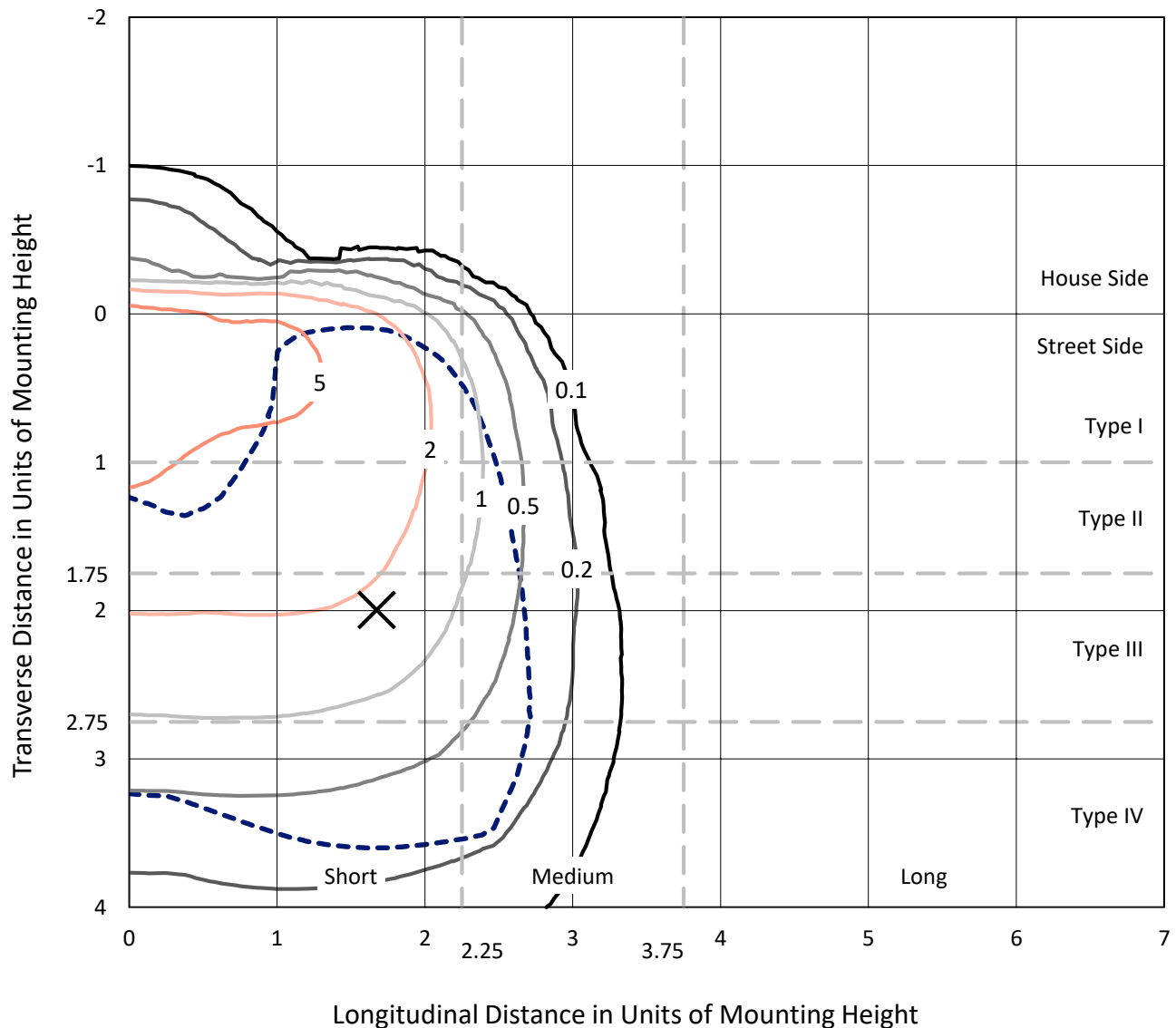
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Iso-Footcandle Lines of Horizontal Illumination

✗ Max cd

--- 1/2 Max cd

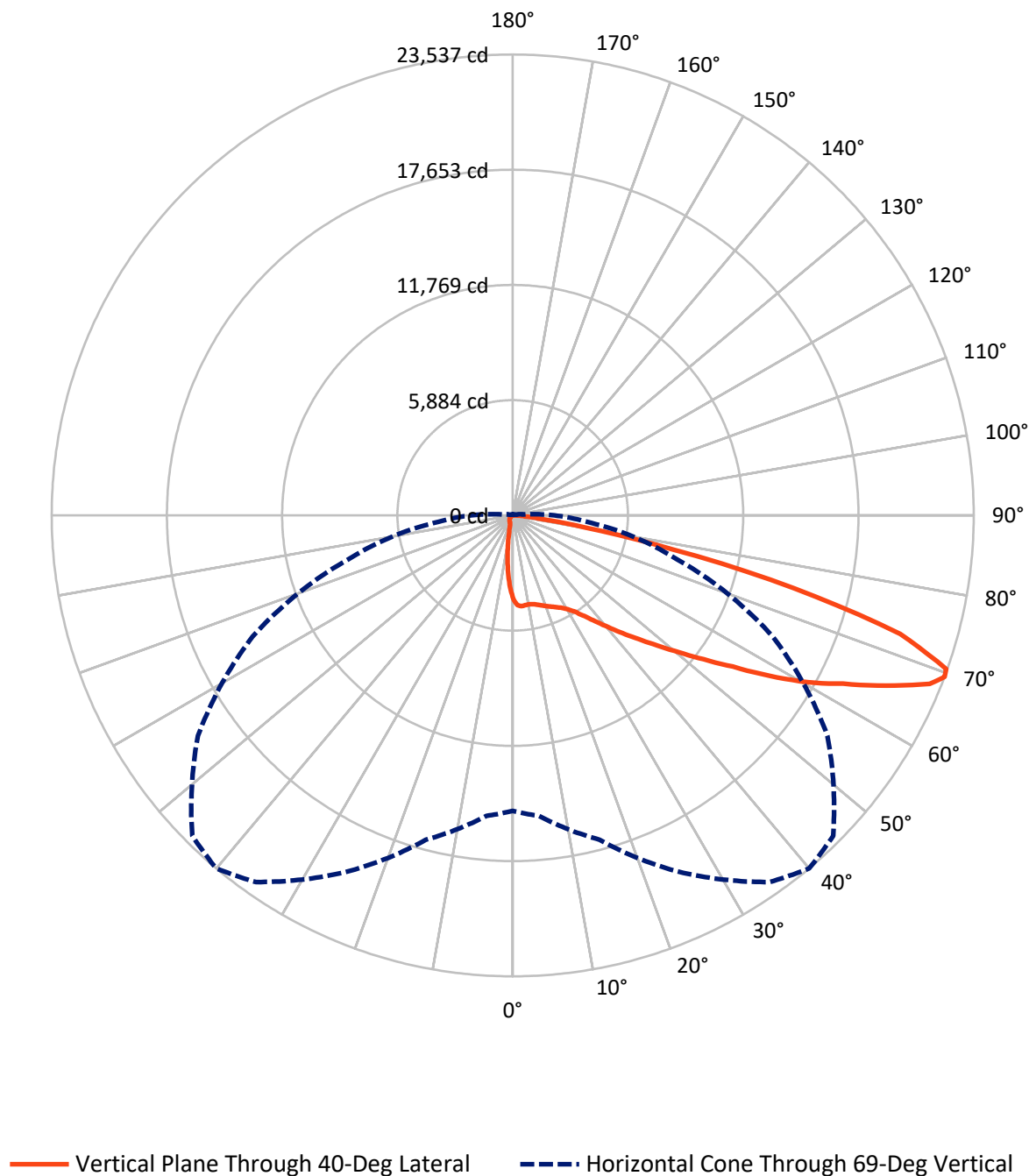


Based on 25 foot mounting height. Maximum calculated value = 7.5 fc
Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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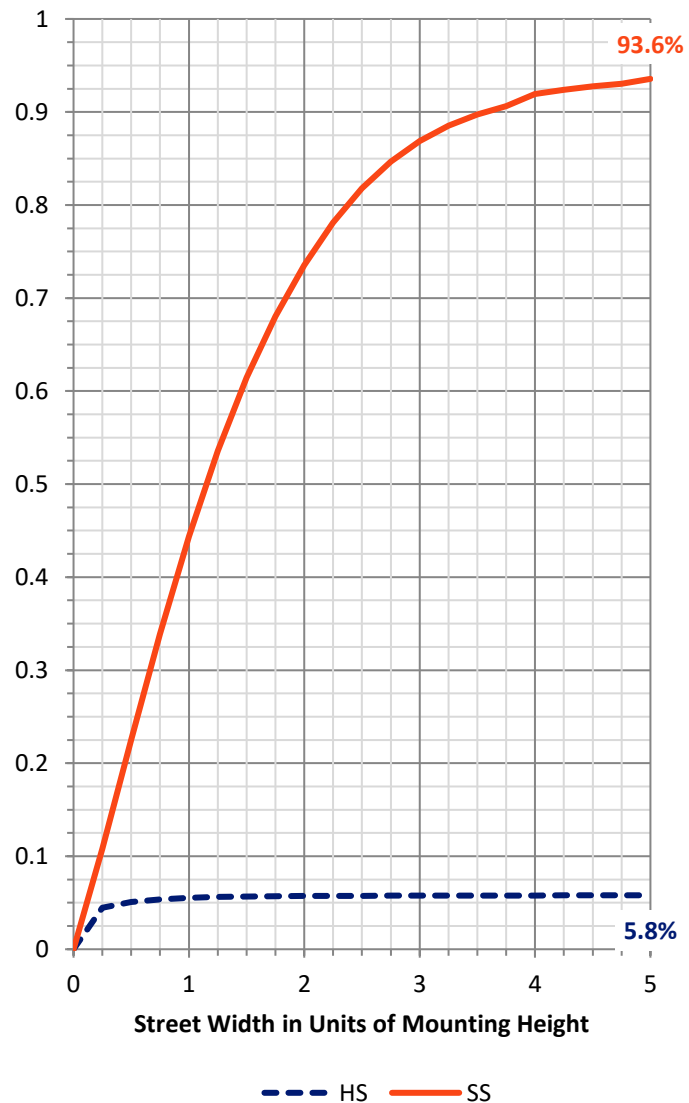
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1675.8	0.0	1675.8
	% Fixture	5.9	0.0	5.9
Street Side	Lumens	26967.9	0.0	26967.9
	% Fixture	94.1	0.0	94.1
Total	Lumens	28643.8	0.0	28643.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	347.0	1.2
10°-20°	853.3	3.0
20°-30°	1437.3	5.0
30°-40°	2352.8	8.2
40°-50°	4073.8	14.2
50°-60°	6416.7	22.4
60°-70°	8380.0	29.3
70°-80°	4316.0	15.1
80°-90°	466.9	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°	28643.8	100.0
0°-180°	28643.8	100.0

Coefficient of Utilization



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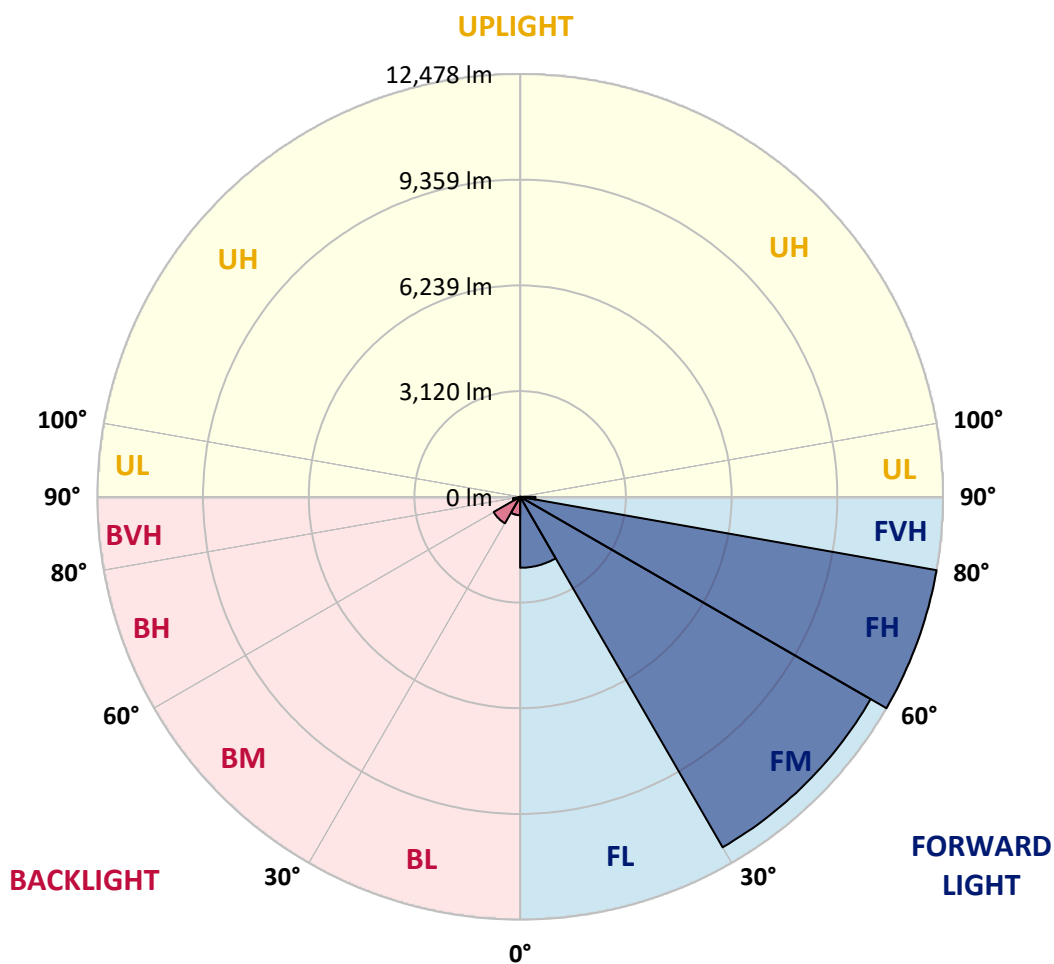
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2094.7	7.3			
FM	(30°-60°)	11942.6	41.7			
FH	(60°-80°)	12478.4	43.6			G5
FVH	(80°-90°)	452.2	1.6			G3/500
BL	(0°-30°)	542.8	1.9	B2/1000		
BM	(30°-60°)	900.7	3.1	B1/1000		
BH	(60°-80°)	217.6	0.8	B1/500		G1/500
BVH	(80°-90°)	14.7	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°	4279.5	4279.5	4279.5	4279.5	4279.5	4279.5	4279.5	4279.5	4279.5	4279.5	4279.5
2.5°	4699.0	4673.4	4658.0	4637.6	4612.0	4589.8	4581.3	4518.2	4458.5	4376.7	4282.9
5°	4785.9	4777.4	4750.1	4722.8	4692.1	4658.0	4639.3	4564.3	4479.0	4359.7	4196.0
7.5°	4794.4	4784.2	4750.1	4712.6	4670.0	4629.0	4596.7	4521.6	4443.2	4322.1	4122.7
10°	4780.8	4768.9	4743.3	4702.4	4649.5	4610.3	4577.9	4506.3	4439.8	4330.7	4109.0
12.5°	4765.4	4753.5	4741.6	4721.1	4675.1	4647.8	4620.5	4552.3	4492.6	4400.6	4158.5
15°	4780.8	4774.0	4787.6	4779.1	4753.5	4729.6	4702.4	4641.0	4586.4	4509.7	4248.8
17.5°	4845.6	4845.6	4888.2	4893.3	4869.5	4835.4	4796.1	4734.8	4688.7	4623.9	4356.2
20°	4997.3	4992.2	5046.8	5057.0	4999.0	4946.2	4888.2	4813.2	4777.4	4736.5	4462.0
22.5°	5258.2	5234.3	5266.7	5256.5	5142.2	5060.4	4988.8	4896.7	4878.0	4859.2	4579.6
25°	5597.5	5583.8	5606.0	5505.4	5304.2	5193.4	5108.1	5004.1	5004.1	5022.9	4712.6
27.5°	6090.2	6039.1	5964.1	5786.7	5485.0	5343.4	5251.4	5140.5	5169.5	5239.4	4888.2
30°	6594.9	6538.6	6366.4	6093.6	5704.9	5556.6	5449.1	5333.2	5401.4	5529.3	5123.5
32.5°	7092.8	7029.7	6785.9	6441.5	6020.3	5872.0	5768.0	5640.1	5754.3	5969.2	5467.9
35°	7575.3	7519.0	7237.7	6831.9	6439.7	6317.0	6221.5	6110.7	6257.3	6557.4	5953.8
37.5°	8117.5	8056.1	7713.4	7273.5	6949.5	6860.9	6791.0	6680.1	6935.9	7375.8	6630.7
40°	8784.1	8680.1	8218.1	7779.9	7539.5	7496.8	7449.1	7433.8	7831.0	8439.7	7532.6
42.5°	9547.9	9377.4	8746.6	8313.5	8187.4	8218.1	8206.1	8274.3	8951.2	9762.8	8630.7
45°	10311.8	10091.8	9334.8	8883.0	8900.0	9007.5	9074.0	9346.8	10354.4	11280.2	9812.2
47.5°	10959.7	10743.1	9899.2	9498.5	9703.1	9914.5	10095.2	10611.9	11796.8	12773.8	10731.2
50°	11513.8	11309.2	10497.6	10175.4	10635.7	10976.7	11270.0	12035.5	13348.4	13911.0	11375.7
52.5°	11967.3	11830.9	11118.2	10951.1	11701.3	12200.9	12630.6	13547.8	14722.6	14835.1	11877.0
55°	12408.9	12311.7	11784.9	11873.5	12952.8	13633.1	14177.0	15152.2	15905.8	15605.8	12357.8
57.5°	12917.0	12828.3	12545.3	13043.2	14598.1	15454.0	16047.4	16574.2	16947.6	16393.5	12811.3
60°	13435.3	13384.2	13391.0	14342.4	16487.3	17309.1	17636.4	17772.8	17970.6	17135.1	12836.9
62.5°	13929.8	14027.0	14357.7	15788.2	18296.2	18927.1	19092.5	19227.2	18995.3	17252.8	11859.9
65°	14766.9	14925.5	15714.9	17723.4	20286.0	20961.1	21131.6	20669.6	19157.3	15731.9	9646.8
67.5°	15176.1	15466.0	16874.3	19527.2	22216.0	22966.2	22903.1	20763.4	17191.4	11996.3	6190.8
69°	15090.9	15399.5	17142.0	20079.7	22857.1	23537.4	23136.7	19615.9	14645.9	8690.3	3800.4
70°	14753.3	15065.3	17003.9	20059.2	22938.9	23477.7	22703.6	18199.1	12383.3	6354.5	2376.8
72.5°	12320.3	12589.6	15096.0	18130.9	21131.6	20693.5	18993.6	12608.4	6034.0	1730.6	535.4
75°	7583.8	7733.8	10831.8	13658.7	15960.4	14835.1	12654.4	6272.7	1798.8	489.3	296.7
77.5°	4006.7	4074.9	5930.0	8051.0	10117.4	8371.5	6485.8	2446.7	828.6	306.9	214.8
80°	2368.2	2419.4	3193.4	3681.1	4378.4	3657.2	2593.3	1502.1	593.3	192.7	191.0
82.5°	1355.5	1387.9	2315.4	2046.0	1725.4	1473.1	1290.7	1423.7	356.3	129.6	197.8
85°	497.9	504.7	1302.6	1556.7	1026.4	610.4	641.1	1179.9	95.5	81.8	155.2
87.5°	231.9	226.8	670.1	953.1	600.2	387.0	499.6	259.2	37.5	52.9	42.6
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°	4279.5	4279.5	4279.5	4279.5	4279.5	4279.5	4279.5	4279.5	4279.5	4279.5	4279.5
2.5°	4228.4	4165.3	4051.1	3933.4	3814.1	3722.0	3631.6	3560.0	3536.1	3491.8	3495.2
5°	4098.8	3982.9	3744.2	3502.0	3249.7	3041.7	2845.6	2687.1	2610.3	2531.9	2531.9
7.5°	3986.3	3817.5	3444.1	3050.2	2642.7	2300.0	1991.4	1759.5	1631.7	1529.4	1527.7
10°	3943.6	3715.2	3193.4	2629.1	2061.3	1594.2	1227.6	992.3	871.2	792.8	789.4
12.5°	3962.4	3679.4	3000.8	2240.4	1527.7	1024.7	711.0	559.2	508.1	484.2	484.2
15°	4017.0	3669.1	2808.1	1860.1	1079.3	641.1	472.3	431.4	428.0	428.0	428.0
17.5°	4083.5	3672.5	2610.3	1490.2	734.9	458.6	407.5	402.4	405.8	405.8	405.8
20°	4151.6	3674.3	2397.2	1147.5	518.3	399.0	383.6	381.9	385.3	385.3	387.0
22.5°	4235.2	3682.8	2184.1	857.6	428.0	376.8	364.9	364.9	366.6	366.6	364.9
25°	4330.7	3699.8	1962.4	636.0	390.4	361.5	351.2	349.5	351.2	349.5	347.8
27.5°	4450.0	3723.7	1715.2	497.9	373.4	346.1	337.6	337.6	335.9	334.2	332.5
30°	4600.1	3751.0	1437.3	422.8	356.3	332.5	323.9	322.2	320.5	317.1	317.1
32.5°	4828.5	3810.7	1162.8	383.6	337.6	313.7	306.9	306.9	303.5	300.1	298.4
35°	5179.8	3928.3	917.3	359.8	317.1	293.3	284.7	284.7	281.3	279.6	277.9
37.5°	5665.7	4107.3	712.7	337.6	296.7	271.1	262.6	260.9	257.5	254.0	252.3
40°	6311.9	4329.0	560.9	317.1	276.2	248.9	242.1	238.7	231.9	226.8	226.8
42.5°	7123.4	4581.3	455.2	295.0	252.3	228.5	223.4	218.2	206.3	201.2	199.5
45°	7972.5	4808.1	385.3	269.4	228.5	208.0	204.6	196.1	180.7	175.6	175.6
47.5°	8584.6	4860.9	339.3	245.5	206.3	185.8	184.1	168.8	155.2	151.7	150.0
50°	8966.5	4756.9	301.8	221.6	185.8	165.4	160.3	141.5	133.0	129.6	127.9
52.5°	9224.0	4571.1	271.1	201.2	167.1	146.6	134.7	121.1	114.2	110.8	110.8
55°	9430.3	4308.5	240.4	182.4	151.7	131.3	114.2	104.0	97.2	93.8	93.8
57.5°	9488.3	3952.2	209.7	167.1	136.4	115.9	97.2	90.4	81.8	80.1	80.1
60°	9067.1	3309.4	185.8	148.3	122.8	100.6	85.2	76.7	68.2	66.5	64.8
62.5°	7957.2	2560.9	163.7	131.3	107.4	87.0	73.3	63.1	56.3	56.3	56.3
65°	6069.8	1716.9	143.2	114.2	93.8	73.3	63.1	51.1	47.7	47.7	49.4
67.5°	3633.3	934.3	122.8	97.2	80.1	61.4	52.9	44.3	42.6	44.3	44.3
69°	2129.5	549.0	110.8	87.0	69.9	54.6	46.0	39.2	42.6	44.3	44.3
70°	1314.5	370.0	102.3	78.4	63.1	49.4	42.6	37.5	40.9	42.6	42.6
72.5°	366.6	191.0	81.8	61.4	51.1	40.9	34.1	34.1	39.2	40.9	40.9
75°	238.7	141.5	63.1	46.0	39.2	32.4	29.0	32.4	37.5	39.2	39.2
77.5°	197.8	115.9	51.1	37.5	32.4	30.7	27.3	29.0	34.1	35.8	35.8
80°	180.7	81.8	40.9	34.1	29.0	27.3	25.6	23.9	30.7	32.4	32.4
82.5°	172.2	64.8	35.8	30.7	27.3	23.9	22.2	23.9	27.3	29.0	30.7
85°	107.4	42.6	32.4	29.0	23.9	22.2	22.2	22.2	25.6	27.3	27.3
87.5°	39.2	34.1	29.0	23.9	20.5	20.5	20.5	20.5	22.2	25.6	25.6
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)