

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: P192938

Luminaire Tested: **GLEON-AF-10-LED-E1-SL4-7030-600-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192938
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-10-LED-E1-SL4-7030-600-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 3000K, 615mA 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: 30470.2 lumens
Efficiency: N/A
Efficacy: 94.3 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): 323
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



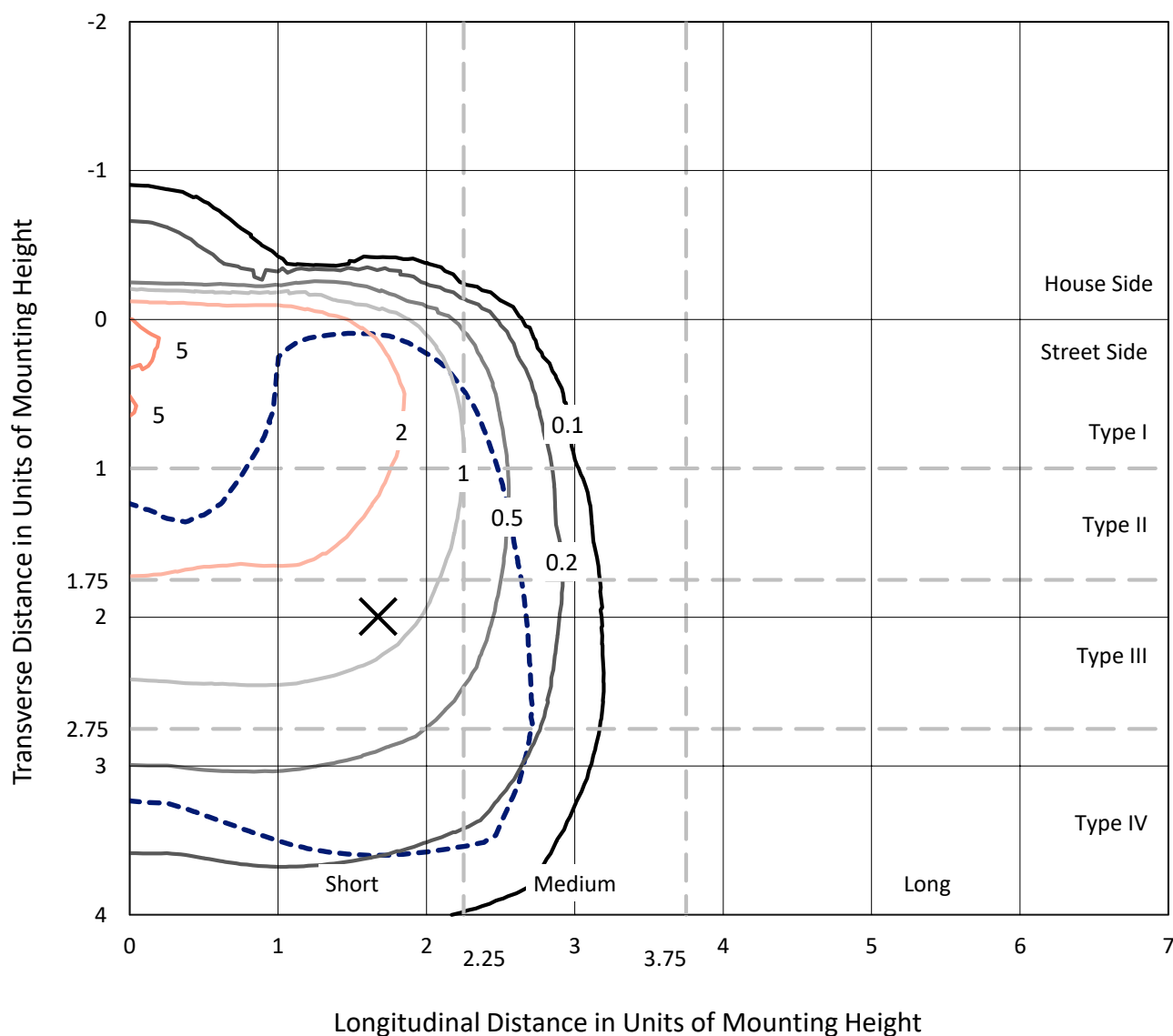
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

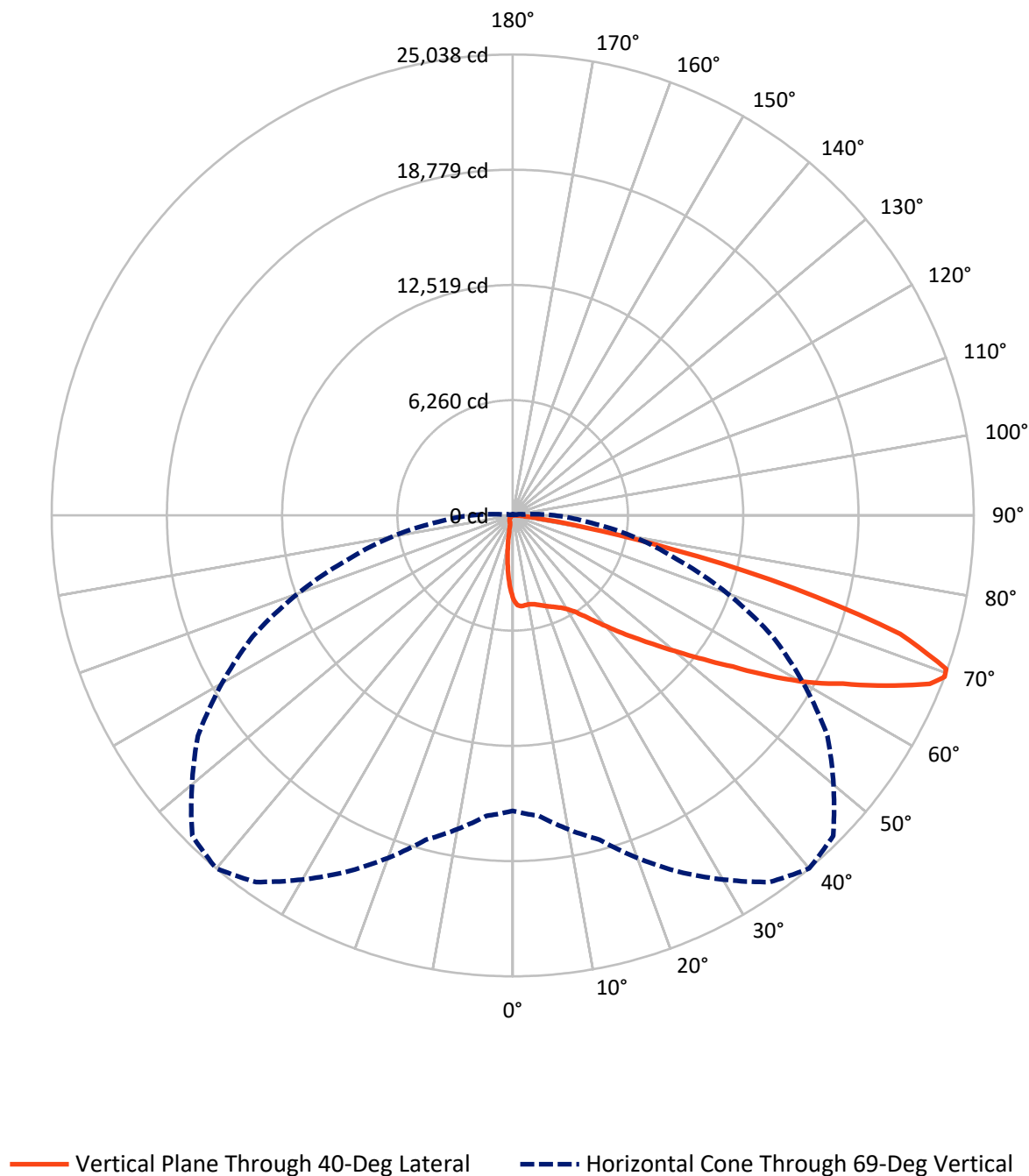


Based on 30 foot mounting height. Maximum calculated value = 5.5 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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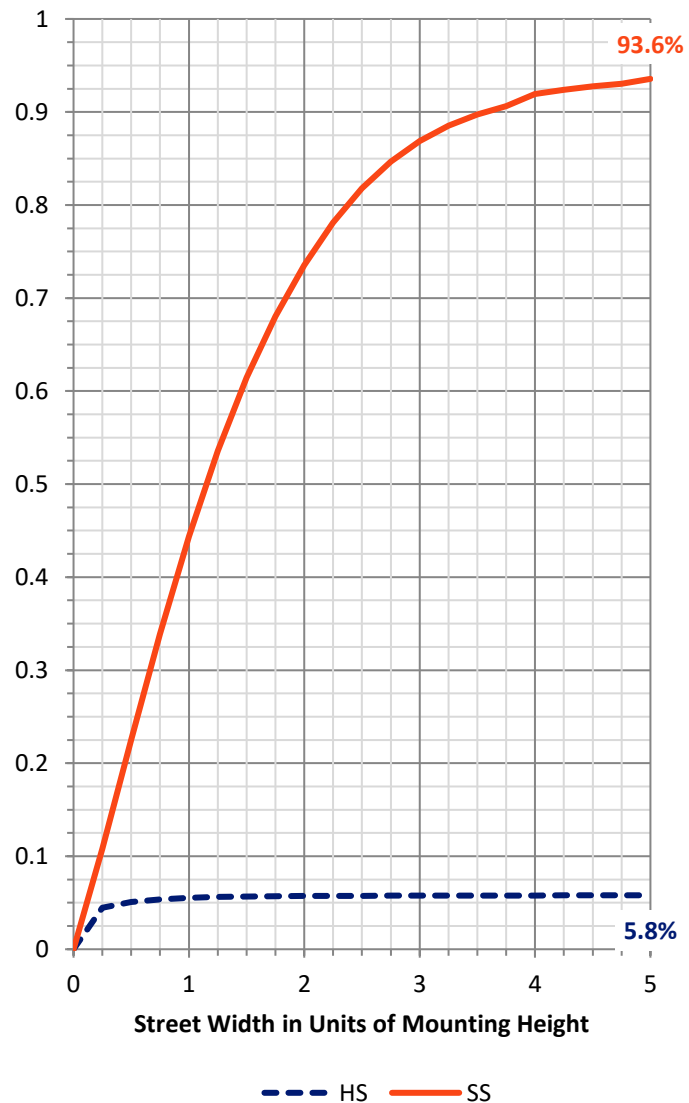
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1782.7	0.0	1782.7
	% Fixture	5.9	0.0	5.9
Street Side	Lumens	28687.6	0.0	28687.6
	% Fixture	94.1	0.0	94.1
Total	Lumens	30470.2	0.0	30470.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	369.1	1.2
10°-20°	907.7	3.0
20°-30°	1528.9	5.0
30°-40°	2502.8	8.2
40°-50°	4333.6	14.2
50°-60°	6825.9	22.4
60°-70°	8914.3	29.3
70°-80°	4591.3	15.1
80°-90°	496.6	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°	30470.2	100.0
0°-180°	30470.2	100.0

Coefficient of Utilization



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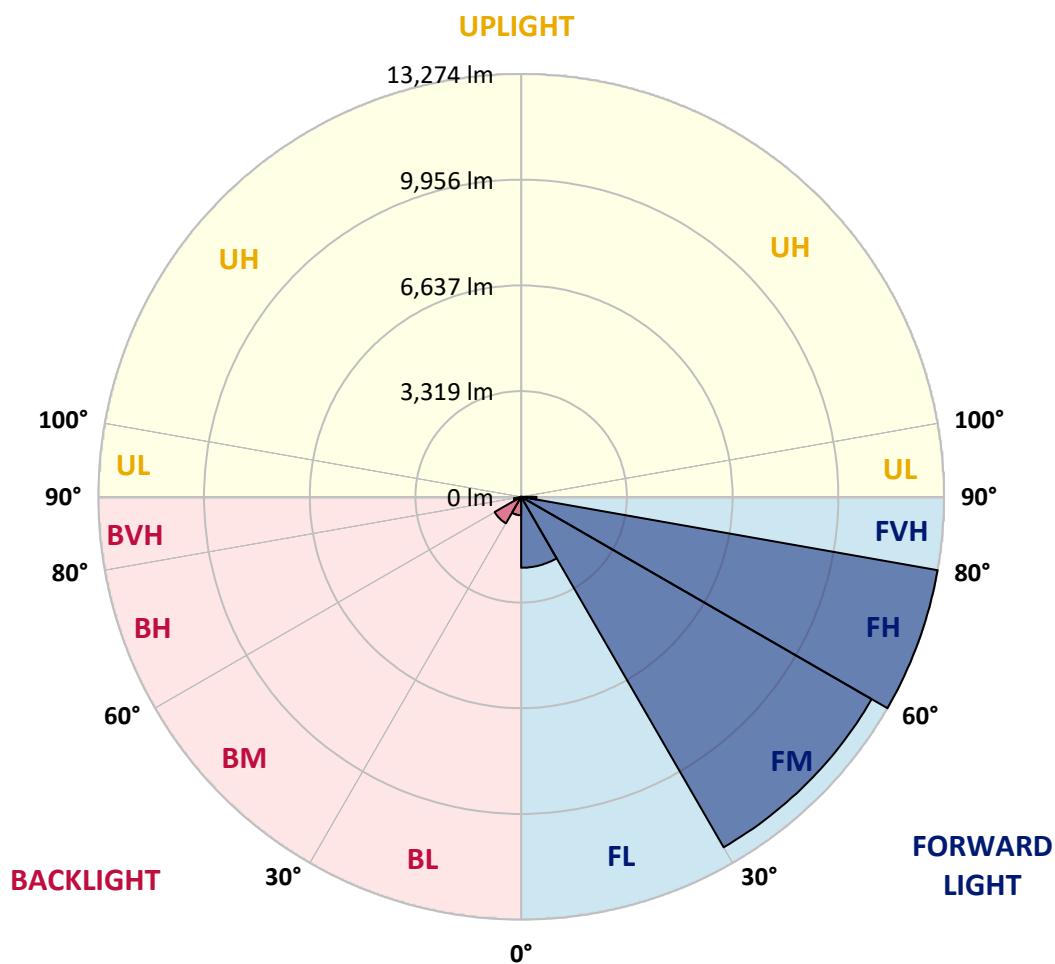
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2228.2	7.3			
FM	(30°-60°)	12704.2	41.7			
FH	(60°-80°)	13274.1	43.6			G5
FVH	(80°-90°)	481.1	1.6			G3/500
BL	(0°-30°)	577.5	1.9	B2/1000		
BM	(30°-60°)	958.1	3.1	B1/1000		
BH	(60°-80°)	231.5	0.8	B1/500		G1/500
BVH	(80°-90°)	15.6	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°	4552.4	4552.4	4552.4	4552.4	4552.4	4552.4	4552.4	4552.4	4552.4	4552.4	4552.4
2.5°	4998.6	4971.4	4955.0	4933.3	4906.1	4882.5	4873.4	4806.4	4742.8	4655.7	4556.0
5°	5091.1	5081.9	5053.0	5024.0	4991.3	4955.0	4935.1	4855.3	4764.6	4637.6	4463.6
7.5°	5100.1	5089.3	5053.0	5013.2	4967.8	4924.2	4889.8	4809.9	4726.5	4597.7	4385.5
10°	5085.7	5072.9	5045.7	5002.2	4945.9	4904.3	4869.8	4793.6	4722.9	4606.8	4371.0
12.5°	5069.3	5056.6	5044.0	5022.2	4973.2	4944.2	4915.1	4842.6	4779.1	4681.2	4423.7
15°	5085.7	5078.4	5092.9	5083.9	5056.6	5031.3	5002.2	4936.9	4878.9	4797.2	4519.7
17.5°	5154.6	5154.6	5199.8	5205.3	5180.0	5143.7	5102.0	5036.7	4987.6	4918.8	4634.0
20°	5316.0	5310.5	5368.6	5379.5	5317.7	5261.6	5199.8	5120.1	5081.9	5038.5	4746.4
22.5°	5593.5	5568.1	5602.6	5591.7	5470.2	5383.1	5306.9	5208.9	5189.0	5169.0	4871.7
25°	5954.4	5939.9	5963.5	5856.6	5642.4	5524.5	5433.9	5323.2	5323.2	5343.3	5013.2
27.5°	6478.5	6424.1	6344.3	6155.7	5834.7	5684.2	5586.2	5468.3	5499.1	5573.6	5199.8
30°	7015.4	6955.6	6772.4	6482.3	6068.7	5910.9	5796.6	5673.3	5745.8	5881.9	5450.2
32.5°	7545.0	7477.9	7218.5	6852.2	6404.2	6246.5	6135.8	5999.8	6121.2	6349.8	5816.5
35°	8058.3	7998.5	7699.2	7267.5	6850.3	6719.8	6618.3	6500.4	6656.3	6975.5	6333.4
37.5°	8635.1	8569.8	8205.3	7737.3	7392.7	7298.4	7224.0	7106.1	7378.2	7846.1	7053.6
40°	9344.2	9233.6	8742.1	8276.0	8020.1	7974.9	7924.1	7907.7	8330.4	8977.9	8013.0
42.5°	10156.7	9975.4	9304.3	8843.7	8709.4	8742.1	8729.4	8801.9	9522.0	10385.3	9180.9
45°	10969.3	10735.4	9930.0	9449.4	9467.6	9581.8	9652.5	9942.7	11014.7	11999.5	10437.9
47.5°	11658.5	11428.2	10530.4	10104.2	10321.8	10546.7	10739.0	11288.5	12549.1	13588.3	11415.5
50°	12248.0	12030.3	11167.0	10824.2	11313.9	11676.6	11988.6	12803.0	14199.6	14798.1	12101.0
52.5°	12730.5	12585.3	11827.2	11649.4	12447.5	12978.9	13435.9	14411.8	15661.3	15781.1	12634.3
55°	13200.1	13096.8	12536.3	12630.7	13778.8	14502.4	15080.9	16118.5	16920.1	16600.9	13145.7
57.5°	13740.7	13646.4	13345.3	13874.9	15529.0	16439.4	17070.6	17631.0	18028.3	17438.8	13628.2
60°	14291.9	14237.6	14244.9	15257.0	17538.6	18412.8	18761.0	18906.1	19116.4	18227.7	13655.4
62.5°	14818.0	14921.4	15273.3	16794.9	19462.9	20134.0	20309.8	20453.3	20206.5	18353.0	12616.1
65°	15708.5	15877.2	16717.0	18853.4	21579.5	22297.7	22479.1	21987.6	20378.8	16735.1	10261.9
67.5°	16143.8	16452.1	17950.3	20772.4	23632.7	24430.7	24363.5	22087.3	18287.6	12761.3	6585.6
69°	16053.1	16381.5	18235.1	21360.0	24314.5	25038.3	24612.1	20866.7	15579.8	9244.4	4042.7
70°	15694.0	16025.9	18088.1	21338.3	24401.6	24974.8	24151.3	19359.5	13173.0	6759.7	2528.3
72.5°	13105.8	13392.5	16058.6	19287.0	22479.1	22013.0	20204.7	13412.3	6418.8	1840.9	569.5
75°	8067.3	8227.0	11522.5	14529.7	16978.2	15781.1	13461.4	6672.7	1913.4	520.5	315.5
77.5°	4262.2	4334.8	6308.1	8564.3	10762.6	8905.2	6899.4	2602.7	881.5	326.4	228.6
80°	2519.2	2573.6	3397.1	3915.8	4657.6	3890.4	2758.7	1597.9	631.2	205.0	203.1
82.5°	1441.9	1476.3	2463.0	2176.5	1835.4	1567.0	1373.0	1514.5	379.0	137.8	210.5
85°	529.6	536.9	1385.6	1656.0	1091.8	649.3	682.0	1255.1	101.6	87.1	165.1
87.5°	246.7	241.3	712.8	1013.8	638.4	411.7	531.4	275.7	39.9	56.3	45.4
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°	4552.4	4552.4	4552.4	4552.4	4552.4	4552.4	4552.4	4552.4	4552.4	4552.4	4552.4
2.5°	4497.9	4430.9	4309.4	4184.2	4057.3	3959.3	3863.2	3787.0	3761.6	3714.5	3718.1
5°	4360.2	4236.8	3982.9	3725.3	3457.0	3235.6	3027.0	2858.4	2776.9	2693.3	2693.3
7.5°	4240.5	4060.8	3663.7	3244.7	2811.2	2446.7	2118.4	1871.7	1735.7	1626.9	1625.1
10°	4195.1	3952.0	3397.1	2796.7	2192.8	1695.8	1305.8	1055.6	926.8	843.4	839.7
12.5°	4215.0	3914.0	3192.1	2383.2	1625.1	1090.1	756.3	594.9	540.5	515.0	515.0
15°	4273.1	3903.1	2987.1	1978.8	1148.1	682.0	502.4	458.9	455.3	455.3	455.3
17.5°	4343.8	3906.7	2776.9	1585.2	781.7	487.9	433.4	428.1	431.7	431.7	431.7
20°	4416.4	3908.5	2550.1	1220.7	551.3	424.4	408.1	406.2	409.9	409.9	411.7
22.5°	4505.3	3917.6	2323.4	912.4	455.3	400.9	388.1	388.1	389.9	389.9	388.1
25°	4606.8	3935.7	2087.6	676.6	415.3	384.5	373.6	371.8	373.6	371.8	370.0
27.5°	4733.7	3961.0	1824.6	529.6	397.1	368.2	359.1	359.1	357.3	355.5	353.7
30°	4893.4	3990.1	1529.0	449.8	379.0	353.7	344.6	342.7	341.0	337.4	337.4
32.5°	5136.4	4053.6	1237.0	408.1	359.1	333.7	326.4	326.4	322.9	319.2	317.4
35°	5510.1	4178.7	975.8	382.7	337.4	311.9	302.8	302.8	299.3	297.4	295.6
37.5°	6027.0	4369.3	758.1	359.1	315.5	288.3	279.2	277.5	273.9	270.2	268.4
40°	6714.3	4605.1	596.7	337.4	293.8	264.9	257.6	253.9	246.7	241.3	241.3
42.5°	7577.6	4873.4	484.2	313.8	268.4	243.0	237.6	232.1	219.5	214.0	212.2
45°	8480.9	5114.7	409.9	286.6	243.0	221.2	217.7	208.5	192.3	186.9	186.9
47.5°	9132.0	5170.9	360.9	261.1	219.5	197.6	195.9	179.5	165.1	161.3	159.6
50°	9538.4	5060.3	321.0	235.8	197.6	175.9	170.5	150.6	141.5	137.8	136.0
52.5°	9812.1	4862.6	288.3	214.0	177.8	156.0	143.2	128.8	121.5	117.9	117.9
55°	10031.6	4583.2	255.7	194.1	161.3	139.7	121.5	110.7	103.4	99.8	99.8
57.5°	10093.3	4204.2	223.1	177.8	145.1	123.4	103.4	96.1	87.1	85.2	85.2
60°	9645.3	3520.5	197.6	157.8	130.6	107.0	90.6	81.6	72.5	70.7	69.0
62.5°	8464.6	2724.2	174.2	139.7	114.2	92.6	78.0	67.0	59.9	59.9	59.9
65°	6456.7	1826.4	152.3	121.5	99.8	78.0	67.0	54.4	50.8	50.8	52.6
67.5°	3865.0	993.9	130.6	103.4	85.2	65.3	56.3	47.2	45.4	47.2	47.2
69°	2265.3	584.0	117.9	92.6	74.4	58.0	48.9	41.7	45.4	47.2	47.2
70°	1398.4	393.6	108.8	83.5	67.0	52.6	45.4	39.9	43.4	45.4	45.4
72.5°	389.9	203.1	87.1	65.3	54.4	43.4	36.3	36.3	41.7	43.4	43.4
75°	253.9	150.6	67.0	48.9	41.7	34.4	30.8	34.4	39.9	41.7	41.7
77.5°	210.5	123.4	54.4	39.9	34.4	32.7	29.1	30.8	36.3	38.1	38.1
80°	192.3	87.1	43.4	36.3	30.8	29.1	27.2	25.3	32.7	34.4	34.4
82.5°	183.2	69.0	38.1	32.7	29.1	25.3	23.6	25.3	29.1	30.8	32.7
85°	114.2	45.4	34.4	30.8	25.3	23.6	23.6	23.6	27.2	29.1	29.1
87.5°	41.7	36.3	30.8	25.3	21.8	21.8	21.8	21.8	23.6	27.2	27.2
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)