

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: P192936

Luminaire Tested: **GLEON-AF-08-LED-E1-SL4-7030-600-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192936
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-08-LED-E1-SL4-7030-600-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 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: 24671.9 lumens
Efficiency: N/A
Efficacy: 96.0 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B1 - U0 - G4

Input Watts (W): 257
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

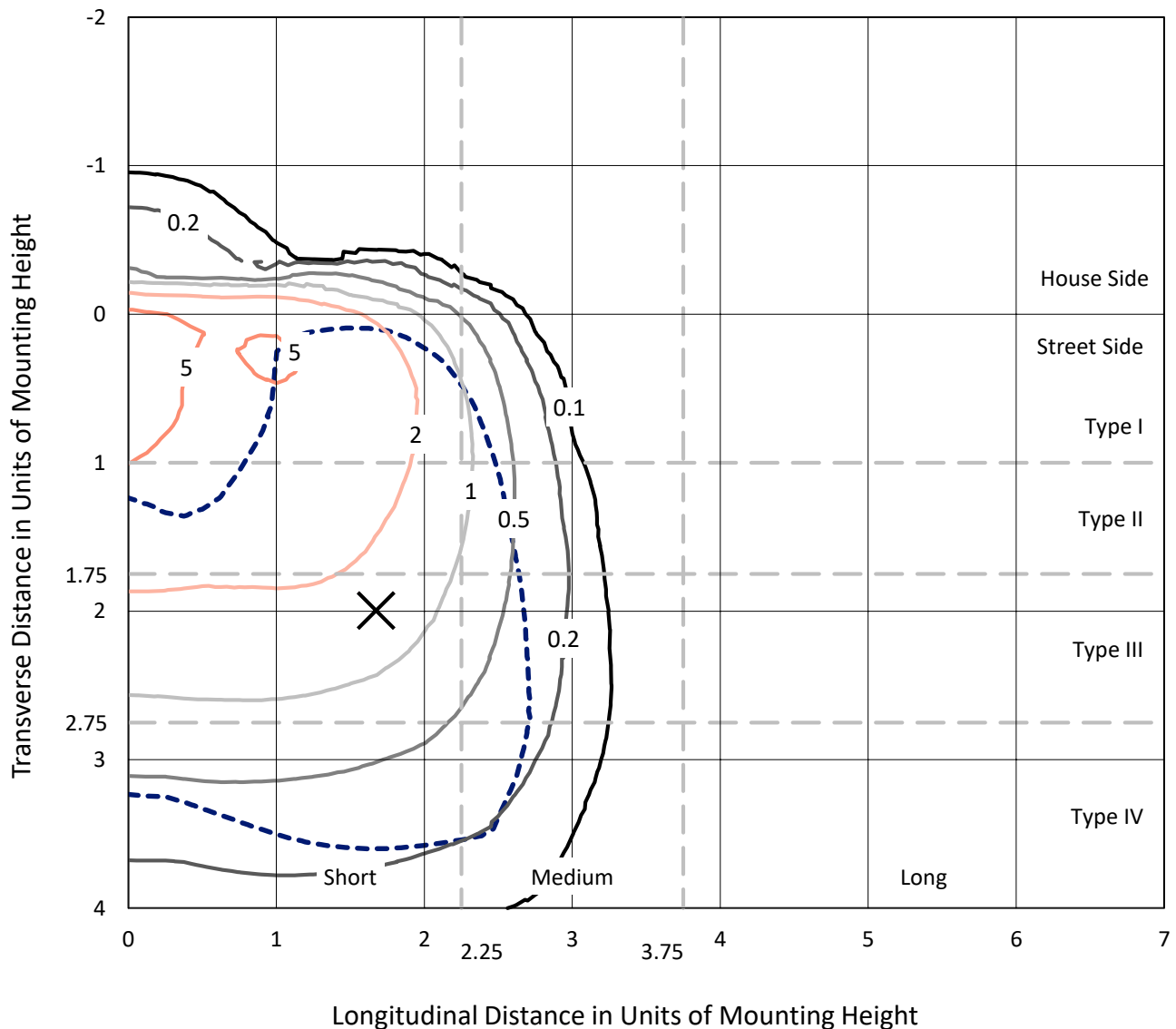


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

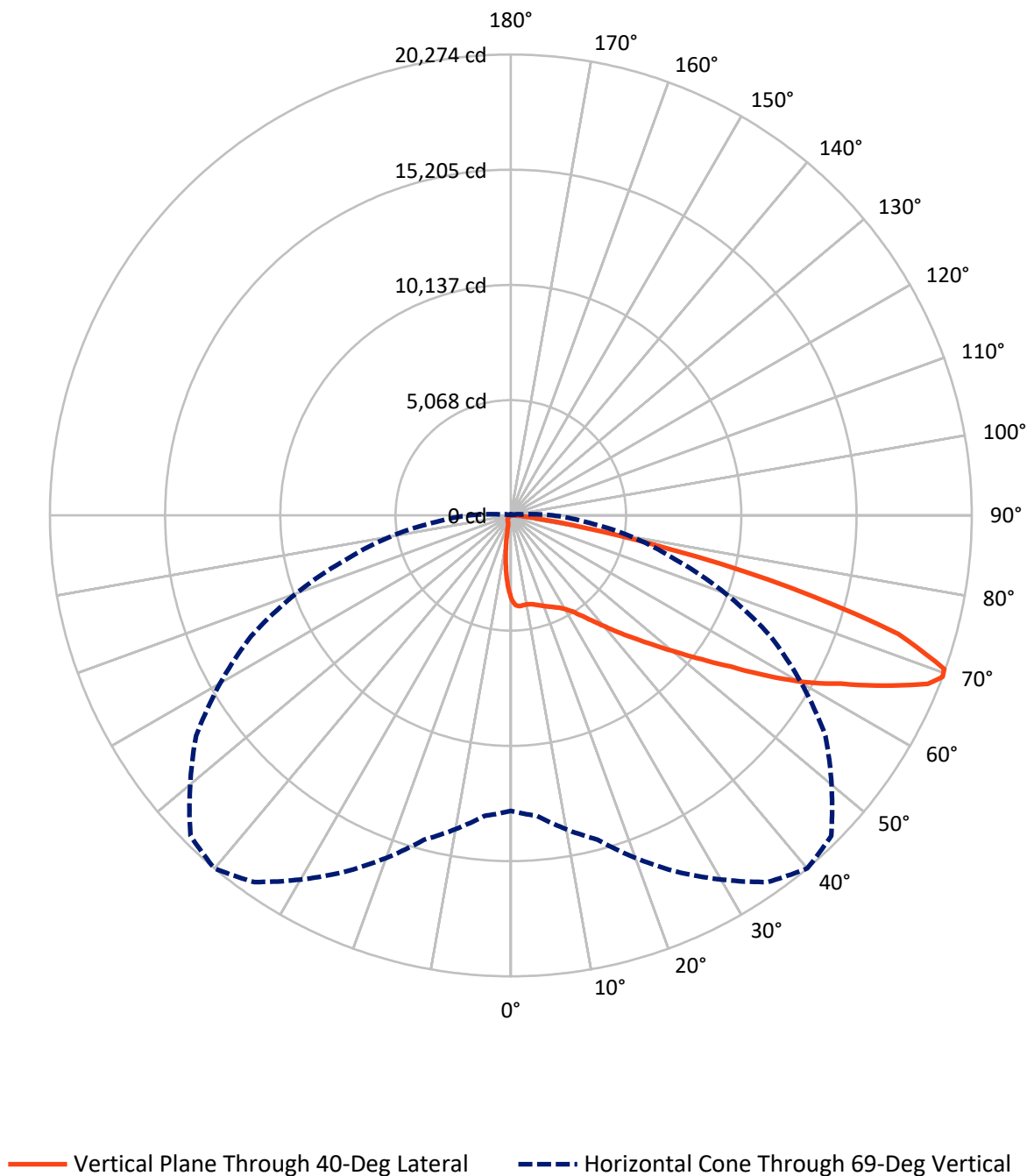


Based on 25 foot mounting height. Maximum calculated value = 6.5 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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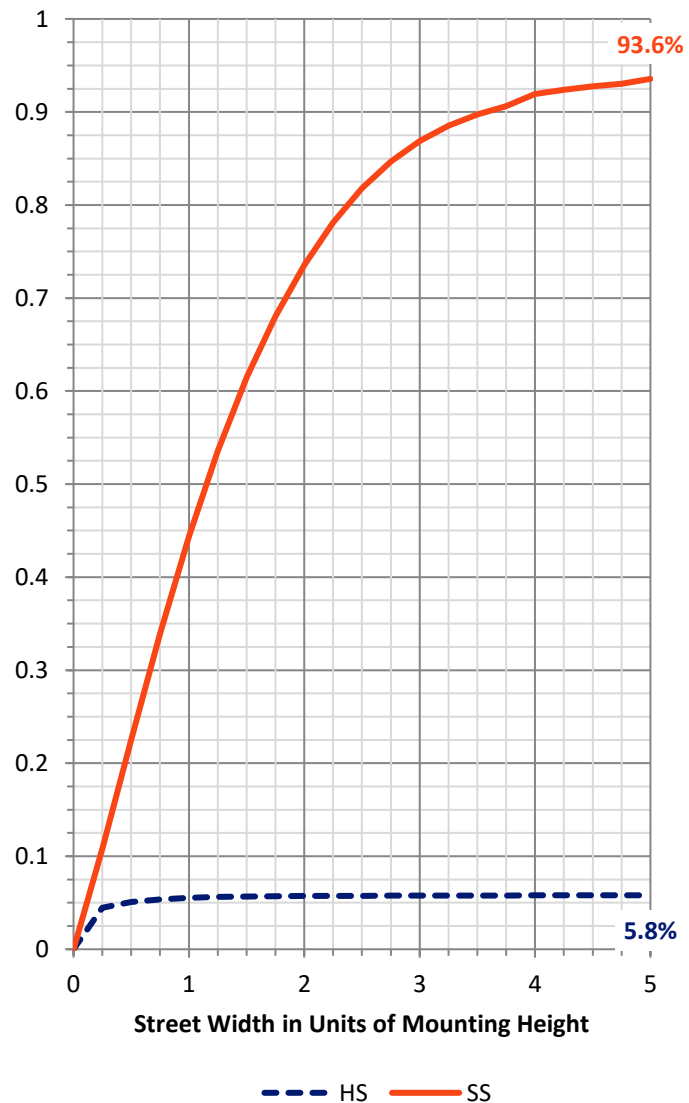
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1443.4	0.0	1443.4
	% Fixture	5.9	0.0	5.9
Street Side	Lumens	23228.4	0.0	23228.4
	% Fixture	94.1	0.0	94.1
Total	Lumens	24671.9	0.0	24671.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	298.9	1.2
10°-20°	735.0	3.0
20°-30°	1238.0	5.0
30°-40°	2026.6	8.2
40°-50°	3508.9	14.2
50°-60°	5526.9	22.4
60°-70°	7218.0	29.3
70°-80°	3717.6	15.1
80°-90°	402.1	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°	24671.9	100.0
0°-180°	24671.9	100.0

Coefficient of Utilization



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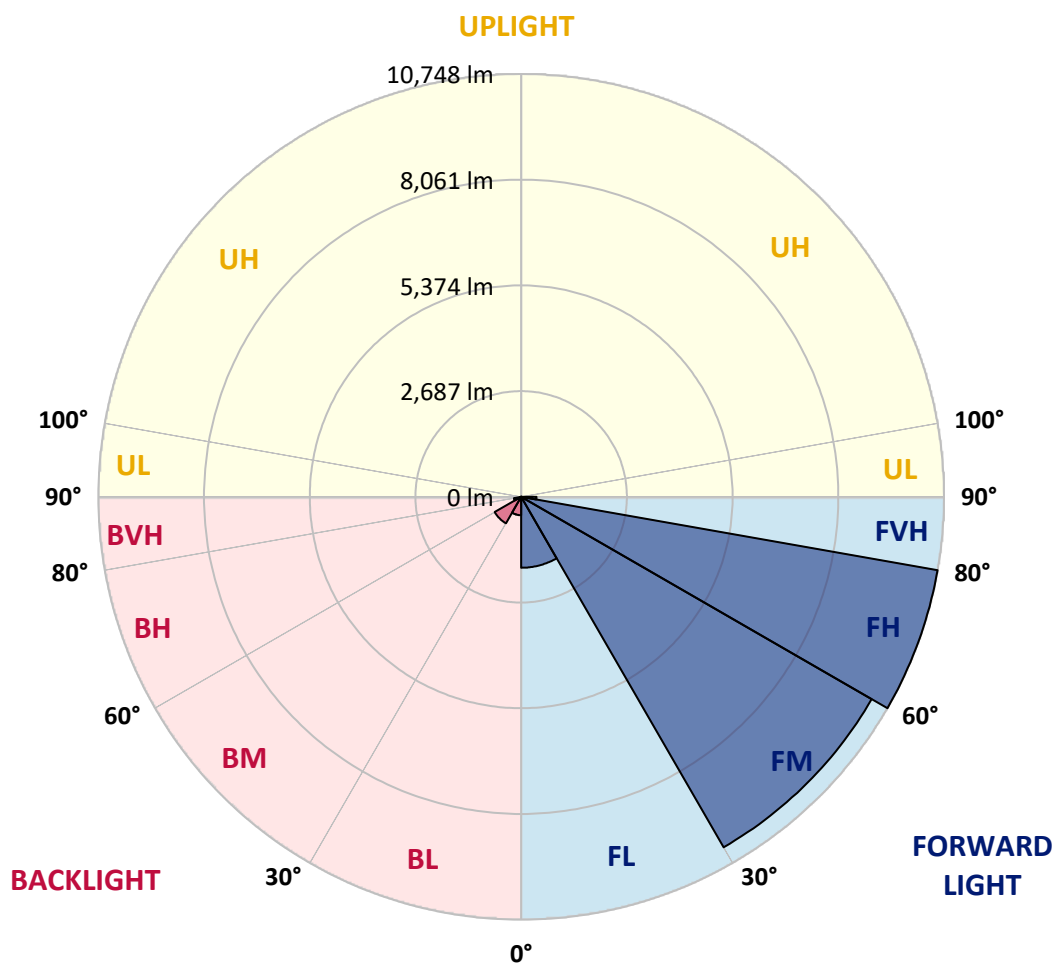
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1804.2	7.3			
FM	(30°-60°)	10286.6	41.7			
FH	(60°-80°)	10748.1	43.6			G4/12000
FVH	(80°-90°)	389.5	1.6			G3/500
BL	(0°-30°)	467.6	1.9	B1/500		
BM	(30°-60°)	775.8	3.1	B1/1000		
BH	(60°-80°)	187.4	0.8	B1/500		G1/500
BVH	(80°-90°)	12.6	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G4

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	3686.1	3686.1	3686.1	3686.1	3686.1	3686.1	3686.1	3686.1	3686.1	3686.1	3686.1
2.5°	4047.4	4025.3	4012.1	3994.5	3972.4	3953.3	3946.0	3891.7	3840.3	3769.8	3689.0
5°	4122.3	4114.9	4091.4	4067.9	4041.5	4012.1	3995.9	3931.3	3858.0	3755.1	3614.2
7.5°	4129.6	4120.8	4091.4	4059.1	4022.4	3987.2	3959.2	3894.6	3827.2	3722.8	3551.0
10°	4117.9	4107.6	4085.5	4050.3	4004.8	3971.0	3943.0	3881.4	3824.2	3730.1	3539.2
12.5°	4104.7	4094.4	4084.1	4066.4	4026.9	4003.3	3979.8	3921.1	3869.6	3790.3	3581.8
15°	4117.9	4112.0	4123.8	4116.4	4094.4	4073.8	4050.3	3997.5	3950.5	3884.3	3659.6
17.5°	4173.7	4173.7	4210.5	4214.7	4194.3	4164.9	4131.1	4078.2	4038.6	3982.7	3752.2
20°	4304.4	4300.0	4347.0	4355.7	4305.8	4260.3	4210.5	4145.8	4114.9	4079.6	3843.2
22.5°	4529.1	4508.5	4536.5	4527.6	4429.2	4358.7	4297.0	4217.7	4201.6	4185.4	3944.6
25°	4821.3	4809.6	4828.6	4742.0	4568.6	4473.3	4399.9	4310.3	4310.3	4326.3	4059.1
27.5°	5245.7	5201.7	5137.1	4984.3	4724.4	4602.4	4523.3	4427.7	4452.7	4513.0	4210.5
30°	5680.4	5632.0	5483.6	5248.7	4913.8	4786.1	4693.6	4593.7	4652.4	4762.6	4413.1
32.5°	6109.2	6054.9	5845.0	5548.1	5185.6	5057.7	4968.1	4858.0	4956.4	5141.4	4709.7
35°	6524.9	6476.4	6234.0	5884.6	5546.8	5441.0	5358.8	5263.3	5389.6	5648.0	5128.2
37.5°	6991.8	6938.9	6643.8	6264.9	5985.9	5909.5	5849.3	5753.8	5974.1	6353.0	5711.2
40°	7566.1	7476.5	7078.5	6701.1	6494.1	6457.3	6416.1	6402.9	6745.1	7269.3	6488.2
42.5°	8224.0	8077.1	7533.8	7160.8	7052.0	7078.5	7068.2	7127.0	7710.0	8409.0	7433.9
45°	8881.9	8692.4	8040.4	7651.2	7665.9	7758.4	7815.8	8050.7	8918.7	9716.0	8451.6
47.5°	9439.9	9253.3	8526.5	8181.4	8357.6	8539.7	8695.4	9140.3	10161.0	11002.5	9243.2
50°	9917.3	9741.0	9042.0	8764.4	9161.0	9454.6	9707.2	10366.6	11497.4	11982.0	9798.3
52.5°	10307.8	10190.4	9576.5	9432.6	10078.7	10509.1	10879.2	11669.2	12681.0	12778.0	10230.1
55°	10688.2	10604.4	10150.7	10227.1	11156.7	11742.6	12211.2	13051.1	13700.2	13441.7	10644.1
57.5°	11125.9	11049.5	10805.7	11234.5	12573.9	13311.0	13822.2	14276.0	14597.6	14120.2	11034.7
60°	11572.3	11528.3	11534.1	12353.6	14201.0	14908.9	15190.9	15308.4	15478.6	14759.1	11056.8
62.5°	11998.2	12081.9	12366.8	13599.0	15759.2	16302.6	16445.0	16561.0	16361.2	14860.5	10215.3
65°	12719.2	12855.8	13535.8	15265.7	17473.0	18054.5	18201.4	17803.5	16500.8	13550.5	8309.1
67.5°	13071.7	13321.3	14534.4	16819.5	19135.4	19781.6	19727.2	17884.2	14807.6	10332.8	5332.4
69°	12998.2	13264.1	14765.0	17295.3	19687.5	20273.5	19928.5	16895.9	12615.0	7485.3	3273.4
70°	12707.5	12976.2	14645.9	17277.7	19758.1	20222.1	19555.4	15675.4	10666.2	5473.4	2047.2
72.5°	10611.8	10843.9	13002.7	15616.8	18201.4	17824.0	16359.8	10860.1	5197.3	1490.7	461.2
75°	6532.2	6661.4	9329.7	11764.7	13747.2	12778.0	10899.7	5402.9	1549.3	421.5	255.5
77.5°	3451.2	3509.9	5107.7	6934.5	8714.5	7210.7	5586.4	2107.4	713.7	264.3	185.0
80°	2039.9	2083.9	2750.6	3170.6	3771.3	3150.1	2233.7	1293.8	511.2	166.0	164.4
82.5°	1167.6	1195.4	1994.3	1762.3	1486.2	1268.8	1111.7	1226.2	306.9	111.7	170.3
85°	428.9	434.8	1122.0	1340.8	884.1	525.7	552.2	1016.2	82.3	70.5	133.7
87.5°	199.7	195.3	577.1	821.0	516.9	333.3	430.3	223.2	32.3	45.6	36.7
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°	3686.1	3686.1	3686.1	3686.1	3686.1	3686.1	3686.1	3686.1	3686.1	3686.1	3686.1
2.5°	3642.0	3587.7	3489.3	3388.0	3285.2	3205.8	3128.1	3066.4	3045.8	3007.6	3010.5
5°	3530.3	3430.5	3225.0	3016.4	2799.1	2619.9	2451.0	2314.4	2248.3	2180.9	2180.9
7.5°	3433.5	3288.1	2966.5	2627.2	2276.3	1981.1	1715.3	1515.5	1405.4	1317.3	1315.8
10°	3396.8	3199.9	2750.6	2264.5	1775.5	1373.1	1057.4	854.7	750.4	682.9	679.9
12.5°	3412.9	3169.2	2584.6	1929.7	1315.8	882.6	612.4	481.8	437.6	417.1	417.1
15°	3459.9	3160.4	2418.8	1602.2	929.6	552.2	406.8	371.6	368.6	368.6	368.6
17.5°	3517.2	3163.3	2248.3	1283.6	632.9	395.1	350.9	346.6	349.5	349.5	349.5
20°	3575.9	3164.8	2064.8	988.4	446.5	343.6	330.4	329.0	331.9	331.9	333.3
22.5°	3647.9	3172.2	1881.2	738.7	368.6	324.5	314.2	314.2	315.8	315.8	314.2
25°	3730.1	3186.8	1690.4	547.8	336.3	311.4	302.5	301.0	302.5	301.0	299.6
27.5°	3833.0	3207.3	1477.4	428.9	321.7	298.2	290.7	290.7	289.3	287.8	286.4
30°	3962.2	3230.8	1238.0	364.2	306.9	286.4	279.0	277.5	276.1	273.1	273.1
32.5°	4159.0	3282.2	1001.6	330.4	290.7	270.2	264.3	264.3	261.4	258.5	257.0
35°	4461.5	3383.5	790.1	309.9	273.1	252.6	245.3	245.3	242.3	240.8	239.4
37.5°	4880.1	3537.9	613.8	290.7	255.5	233.5	226.1	224.6	221.8	218.8	217.3
40°	5436.6	3728.7	483.2	273.1	237.8	214.3	208.5	205.6	199.7	195.3	195.3
42.5°	6135.7	3946.0	392.1	254.0	217.3	196.7	192.4	187.9	177.6	173.2	171.9
45°	6867.1	4141.4	331.9	232.0	196.7	179.1	176.2	169.0	155.7	151.3	151.3
47.5°	7394.2	4187.0	292.3	211.5	177.6	160.1	158.7	145.5	133.7	130.7	129.3
50°	7723.2	4097.3	259.9	190.8	160.1	142.5	138.0	122.0	114.5	111.7	110.2
52.5°	7944.9	3937.2	233.5	173.2	143.9	126.3	116.1	104.3	98.5	95.5	95.5
55°	8122.7	3711.1	207.0	157.2	130.7	113.1	98.5	89.6	83.7	80.8	80.8
57.5°	8172.6	3404.1	180.6	143.9	117.5	99.9	83.7	77.8	70.5	69.1	69.1
60°	7809.9	2850.5	160.1	127.8	105.8	86.7	73.4	66.1	58.8	57.3	55.8
62.5°	6853.9	2205.8	141.0	113.1	92.6	74.9	63.2	54.3	48.5	48.5	48.5
65°	5228.0	1478.9	123.4	98.5	80.8	63.2	54.3	44.0	41.1	41.1	42.6
67.5°	3129.5	804.8	105.8	83.7	69.1	52.9	45.6	38.1	36.7	38.1	38.1
69°	1834.3	472.9	95.5	74.9	60.2	47.0	39.7	33.8	36.7	38.1	38.1
70°	1132.3	318.7	88.1	67.5	54.3	42.6	36.7	32.3	35.3	36.7	36.7
72.5°	315.8	164.4	70.5	52.9	44.0	35.3	29.4	29.4	33.8	35.3	35.3
75°	205.6	122.0	54.3	39.7	33.8	27.9	24.9	27.9	32.3	33.8	33.8
77.5°	170.3	99.9	44.0	32.3	27.9	26.4	23.5	24.9	29.4	30.8	30.8
80°	155.7	70.5	35.3	29.4	24.9	23.5	22.1	20.5	26.4	27.9	27.9
82.5°	148.4	55.8	30.8	26.4	23.5	20.5	19.1	20.5	23.5	24.9	26.4
85°	92.6	36.7	27.9	24.9	20.5	19.1	19.1	19.1	22.1	23.5	23.5
87.5°	33.8	29.4	24.9	20.5	17.6	17.6	17.6	17.6	19.1	22.1	22.1
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)