

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: P192962

Luminaire Tested: **GLEON-AF-04-LED-E1-SL4-7030-1200-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192962
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-04-LED-E1-SL4-7030-1200-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3000K, 1200mA 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: 20676.2 lumens
Efficiency: N/A
Efficacy: 80.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B1 - U0 - G4

Input Watts (W): 258
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



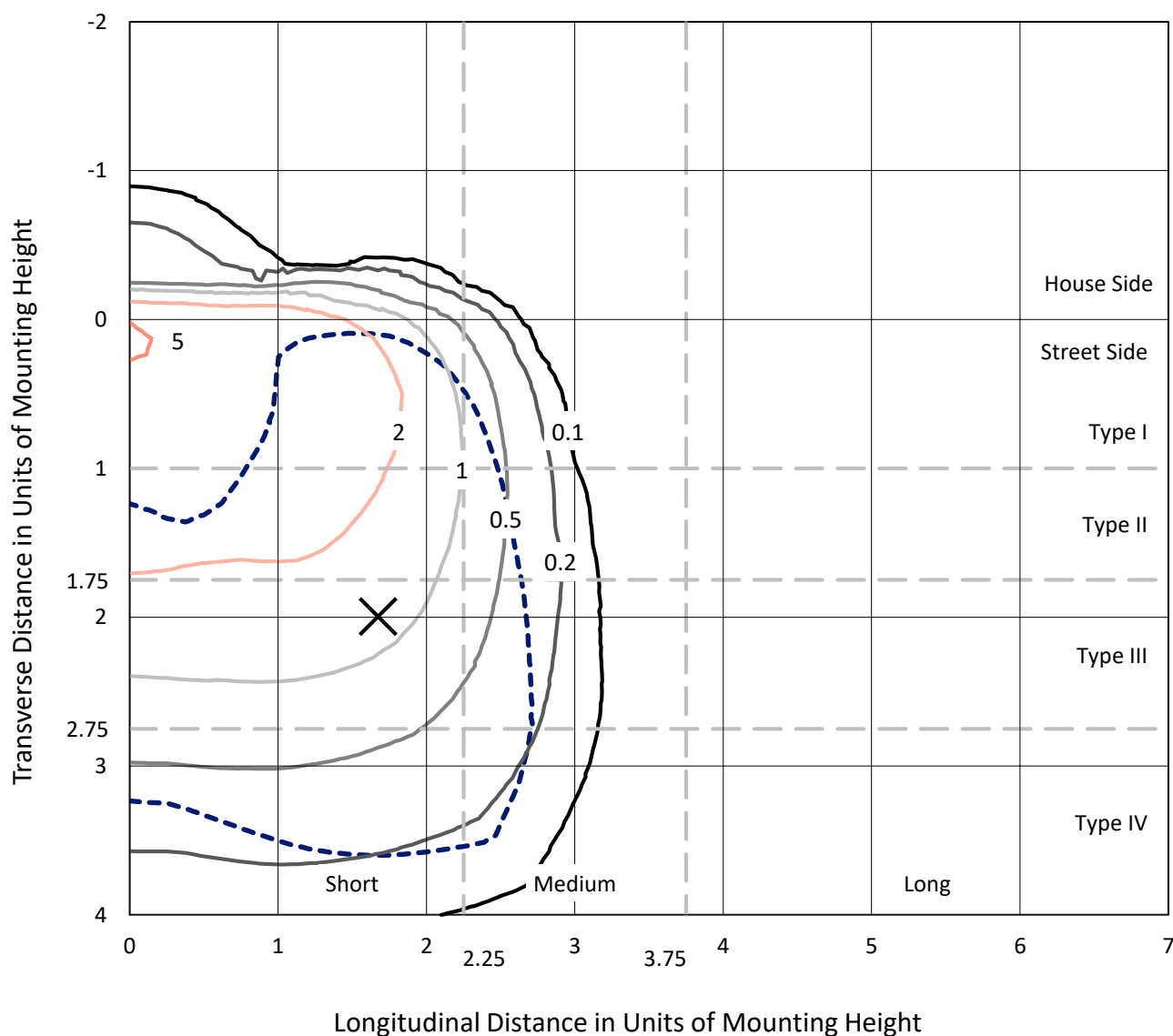
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

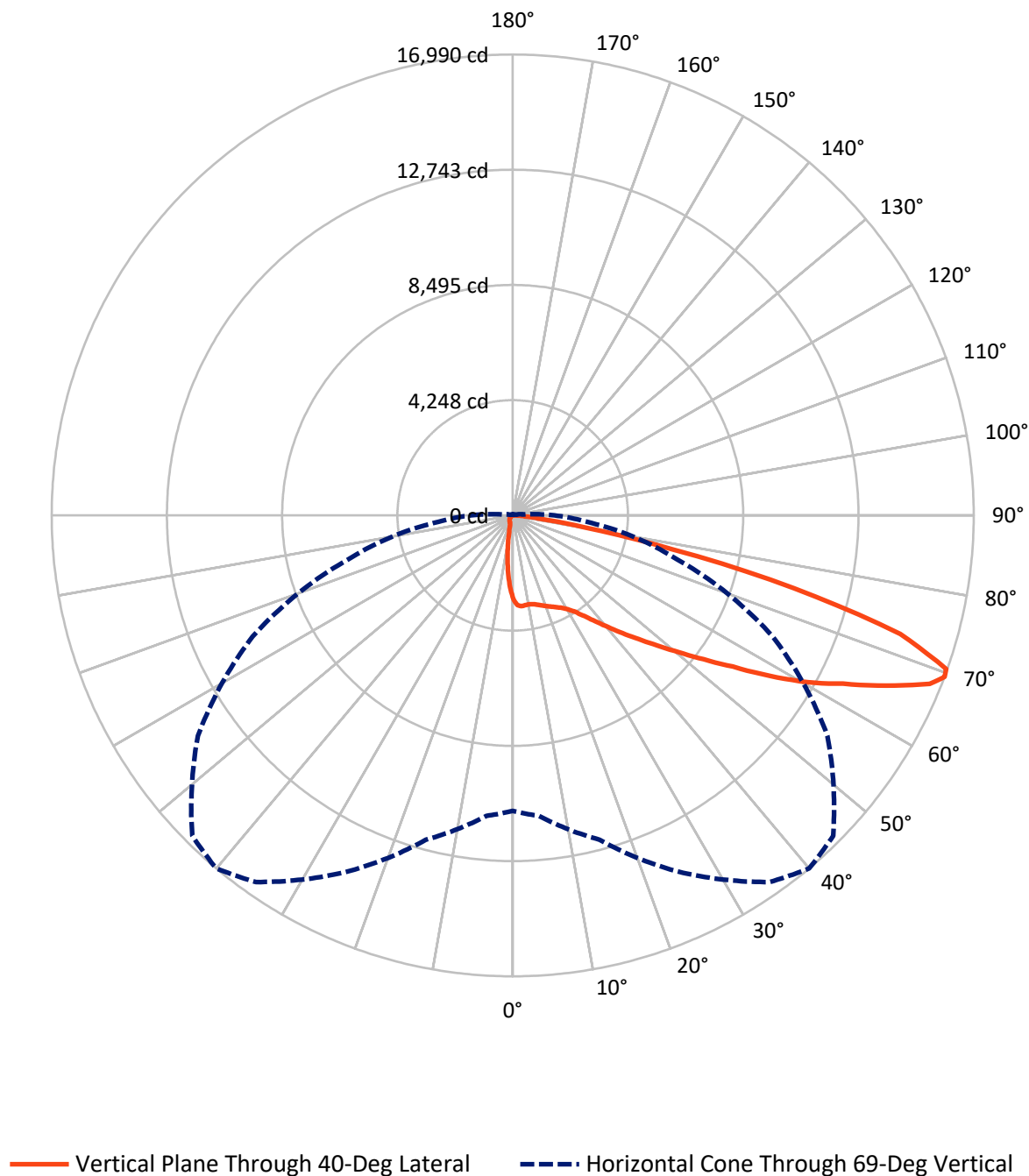


Based on 25 foot mounting height. Maximum calculated value = 5.4 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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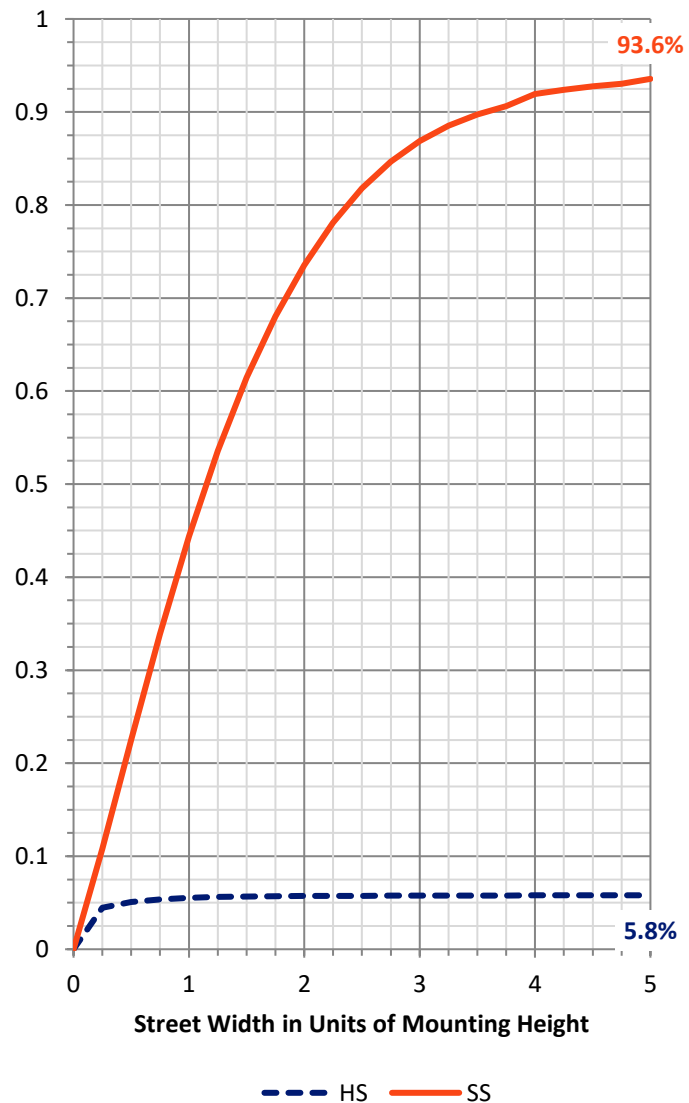
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1209.7	0.0	1209.7
	% Fixture	5.9	0.0	5.9
Street Side	Lumens	19466.5	0.0	19466.5
	% Fixture	94.1	0.0	94.1
Total	Lumens	20676.2	0.0	20676.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	250.5	1.2
10°-20°	615.9	3.0
20°-30°	1037.5	5.0
30°-40°	1698.4	8.2
40°-50°	2940.7	14.2
50°-60°	4631.8	22.4
60°-70°	6049.0	29.3
70°-80°	3115.5	15.1
80°-90°	337.0	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°	20676.2	100.0
0°-180°	20676.2	100.0

Coefficient of Utilization



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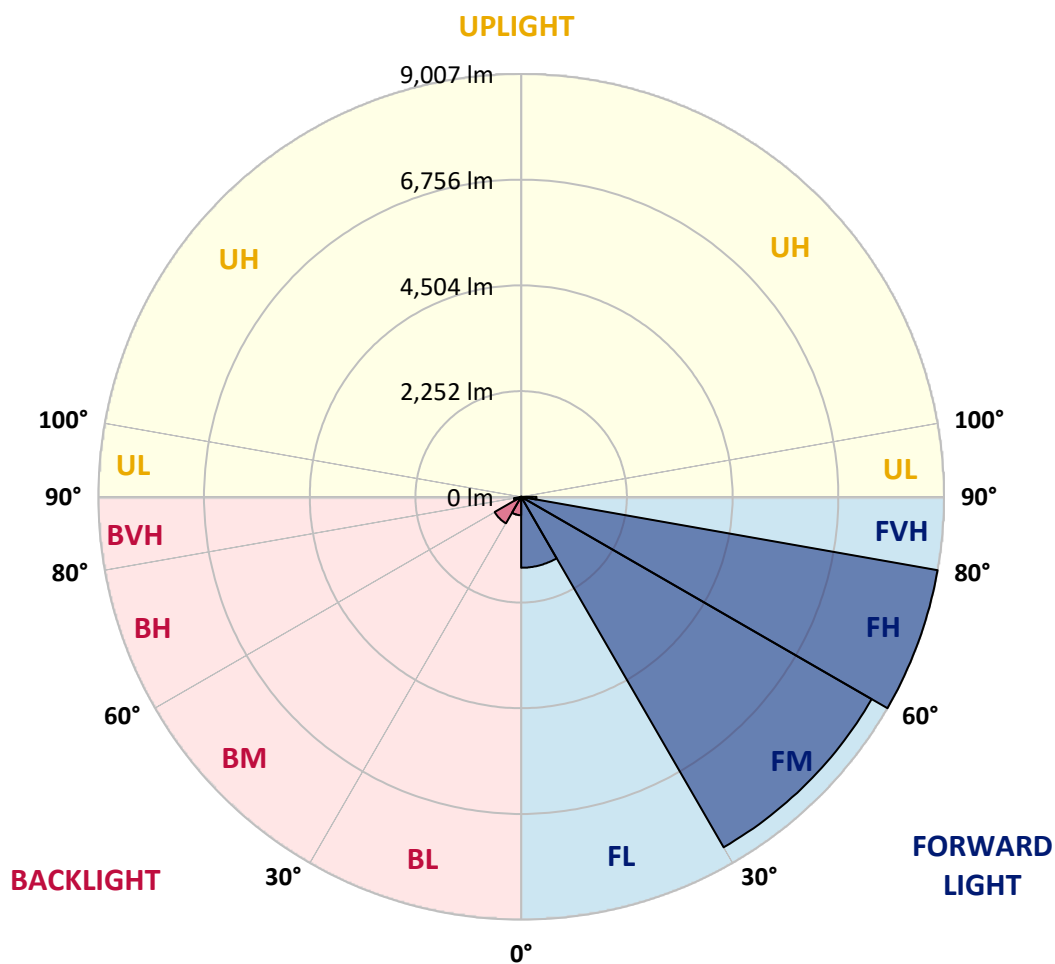
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1512.0	7.3			
FM	(30°-60°)	8620.7	41.7			
FH	(60°-80°)	9007.4	43.6			G4/12000
FVH	(80°-90°)	326.4	1.6			G3/500
BL	(0°-30°)	391.9	1.9	B1/500		
BM	(30°-60°)	650.2	3.1	B1/1000		
BH	(60°-80°)	157.1	0.8	B1/500		G1/500
BVH	(80°-90°)	10.6	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°	3089.1	3089.1	3089.1	3089.1	3089.1	3089.1	3089.1	3089.1	3089.1	3089.1	3089.1
2.5°	3391.9	3373.4	3362.4	3347.6	3329.1	3313.2	3307.0	3261.4	3218.3	3159.2	3091.6
5°	3454.7	3448.6	3428.8	3409.1	3386.9	3362.4	3348.8	3294.7	3233.1	3147.0	3028.7
7.5°	3460.8	3453.4	3428.8	3401.8	3370.9	3341.4	3318.1	3263.9	3207.3	3119.9	2975.9
10°	3451.0	3442.3	3423.8	3394.3	3356.2	3327.9	3304.5	3252.8	3204.8	3126.0	2966.1
12.5°	3439.9	3431.3	3422.6	3407.9	3374.7	3355.1	3335.2	3286.1	3243.0	3176.5	3001.8
15°	3451.0	3446.0	3455.9	3449.8	3431.3	3414.1	3394.3	3350.0	3310.7	3255.3	3067.0
17.5°	3497.7	3497.7	3528.5	3532.3	3515.0	3490.4	3462.1	3417.7	3384.6	3337.8	3144.5
20°	3607.3	3603.6	3642.9	3650.4	3608.5	3570.4	3528.5	3474.3	3448.6	3418.9	3220.9
22.5°	3795.5	3778.3	3801.6	3794.3	3711.9	3652.7	3601.0	3534.6	3521.1	3507.6	3305.7
25°	4040.5	4030.7	4046.6	3974.0	3828.8	3748.8	3687.3	3612.2	3612.2	3625.8	3401.8
27.5°	4396.1	4359.2	4305.2	4177.1	3959.2	3857.1	3790.6	3710.7	3731.5	3782.0	3528.5
30°	4760.4	4719.9	4595.6	4398.7	4118.0	4010.9	3933.5	3849.7	3898.9	3991.2	3698.3
32.5°	5119.9	5074.3	4898.3	4649.7	4345.7	4238.6	4163.6	4071.2	4153.7	4308.7	3947.0
35°	5468.1	5427.6	5224.4	4931.5	4648.4	4559.8	4490.9	4410.9	4516.8	4733.4	4297.7
37.5°	5859.5	5815.3	5567.9	5250.4	5016.4	4952.5	4902.0	4822.0	5006.6	5324.1	4786.3
40°	6340.8	6265.7	5932.1	5615.8	5442.3	5411.5	5377.0	5365.9	5652.7	6092.1	5437.4
42.5°	6892.1	6769.0	6313.6	6001.1	5910.0	5932.1	5923.5	5972.7	6461.4	7047.1	6230.0
45°	7443.5	7284.7	6738.2	6412.1	6424.5	6501.9	6550.0	6746.9	7474.2	8142.5	7082.8
47.5°	7911.1	7754.7	7145.7	6856.3	7004.1	7156.7	7287.1	7660.0	8515.4	9220.6	7746.3
50°	8311.2	8163.5	7577.5	7345.0	7677.3	7923.5	8135.1	8687.8	9635.3	10041.6	8211.5
52.5°	8638.5	8540.0	8025.6	7905.0	8446.5	8807.1	9117.2	9779.4	10627.3	10708.6	8573.2
55°	8957.3	8887.1	8506.8	8570.9	9349.9	9840.9	10233.6	10937.5	11481.5	11264.8	8920.4
57.5°	9323.9	9260.0	9055.7	9415.1	10537.5	11155.4	11583.6	11963.9	12233.4	11833.5	9247.7
60°	9698.2	9661.2	9666.1	10352.9	11901.2	12494.4	12730.7	12829.1	12972.0	12368.8	9266.2
62.5°	10055.0	10125.3	10364.0	11396.7	13206.9	13662.4	13781.8	13878.9	13711.6	12453.8	8561.0
65°	10659.4	10773.8	11343.7	12793.5	14643.3	15130.6	15253.6	14920.1	13828.5	11356.0	6963.4
67.5°	10954.8	11164.0	12180.6	14095.5	16036.4	16577.9	16532.4	14987.8	12409.4	8659.5	4468.8
69°	10893.1	11115.9	12373.7	14494.4	16499.1	16990.3	16701.1	14159.6	10571.9	6273.0	2743.3
70°	10649.5	10874.7	12274.0	14479.6	16558.2	16947.2	16388.5	13136.8	8938.8	4586.9	1715.6
72.5°	8893.2	9087.7	10896.9	13087.6	15253.6	14937.4	13710.3	9101.3	4355.5	1249.2	386.4
75°	5474.3	5582.6	7818.8	9859.3	11520.9	10708.6	9134.5	4527.8	1298.4	353.2	214.1
77.5°	2892.2	2941.5	4280.4	5811.5	7303.1	6042.9	4681.6	1766.0	598.0	221.6	155.0
80°	1709.5	1746.4	2305.2	2657.1	3160.6	2639.9	1871.9	1084.3	428.3	139.1	137.8
82.5°	978.4	1001.8	1671.3	1476.8	1245.4	1063.3	931.7	1027.7	257.2	93.5	142.8
85°	359.4	364.3	940.2	1123.6	740.9	440.7	462.7	851.6	69.0	59.1	112.0
87.5°	167.3	163.7	483.7	688.0	433.2	279.3	360.5	187.1	27.1	38.1	30.8
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°	3089.1	3089.1	3089.1	3089.1	3089.1	3089.1	3089.1	3089.1	3089.1	3089.1	3089.1
2.5°	3052.1	3006.7	2924.3	2839.3	2753.2	2686.6	2621.4	2569.8	2552.6	2520.5	2523.1
5°	2958.6	2874.9	2702.6	2527.9	2345.8	2195.7	2054.1	1939.7	1884.2	1827.7	1827.7
7.5°	2877.5	2755.6	2486.0	2201.8	1907.6	1660.3	1437.6	1270.1	1177.9	1103.9	1102.8
10°	2846.6	2681.8	2305.2	1897.9	1488.0	1150.7	886.1	716.3	628.9	572.3	569.8
12.5°	2860.2	2655.9	2166.1	1617.1	1102.8	739.6	513.2	403.7	366.8	349.5	349.5
15°	2899.6	2648.6	2027.0	1342.7	779.0	462.7	340.9	311.4	308.8	308.8	308.8
17.5°	2947.6	2650.9	1884.2	1075.6	530.5	331.0	294.1	290.4	293.0	293.0	293.0
20°	2996.9	2652.3	1730.4	828.3	374.1	288.0	276.9	275.7	278.2	278.2	279.3
22.5°	3057.2	2658.4	1576.6	619.1	308.8	271.9	263.5	263.5	264.6	264.6	263.5
25°	3126.0	2670.8	1416.5	459.1	281.9	260.9	253.5	252.3	253.5	252.3	251.1
27.5°	3212.2	2687.9	1238.1	359.4	269.6	249.8	243.6	243.6	242.4	241.3	240.1
30°	3320.5	2707.6	1037.5	305.3	257.2	240.1	233.9	232.6	231.4	228.9	228.9
32.5°	3485.5	2750.7	839.3	276.9	243.6	226.5	221.6	221.6	219.1	216.7	215.3
35°	3739.0	2835.6	662.1	259.7	228.9	211.6	205.5	205.5	203.1	201.8	200.6
37.5°	4089.7	2964.9	514.4	243.6	214.1	195.7	189.6	188.3	185.8	183.3	182.1
40°	4556.1	3124.9	405.0	228.9	199.4	179.7	174.9	172.3	167.3	163.7	163.7
42.5°	5142.0	3307.0	328.7	212.9	182.1	164.9	161.2	157.6	148.9	145.2	144.0
45°	5754.9	3470.6	278.2	194.5	164.9	150.1	147.7	141.5	130.4	126.7	126.7
47.5°	6196.7	3508.9	245.0	177.2	148.9	134.2	133.0	121.9	112.0	109.6	108.2
50°	6472.4	3433.7	217.9	159.9	134.2	119.4	115.7	102.1	96.0	93.5	92.4
52.5°	6658.3	3299.6	195.7	145.2	120.6	105.9	97.2	87.4	82.5	80.0	80.0
55°	6807.2	3110.1	173.5	131.6	109.6	94.7	82.5	75.1	70.2	67.7	67.7
57.5°	6849.0	2852.9	151.5	120.6	98.5	83.7	70.2	65.2	59.1	57.8	57.8
60°	6545.0	2388.9	134.2	107.1	88.6	72.6	61.5	55.4	49.2	48.0	46.8
62.5°	5743.9	1848.5	118.1	94.7	77.6	62.8	52.9	45.6	40.7	40.7	40.7
65°	4381.4	1239.3	103.4	82.5	67.7	52.9	45.6	36.9	34.4	34.4	35.7
67.5°	2622.7	674.4	88.6	70.2	57.8	44.4	38.1	32.0	30.8	32.0	32.0
69°	1537.2	396.3	80.0	62.8	50.5	39.4	33.3	28.3	30.8	32.0	32.0
70°	948.9	267.0	73.9	56.6	45.6	35.7	30.8	27.1	29.5	30.8	30.8
72.5°	264.6	137.8	59.1	44.4	36.9	29.5	24.6	24.6	28.3	29.5	29.5
75°	172.3	102.1	45.6	33.3	28.3	23.4	20.9	23.4	27.1	28.3	28.3
77.5°	142.8	83.7	36.9	27.1	23.4	22.2	19.6	20.9	24.6	25.9	25.9
80°	130.4	59.1	29.5	24.6	20.9	19.6	18.5	17.3	22.2	23.4	23.4
82.5°	124.3	46.8	25.9	22.2	19.6	17.3	16.0	17.3	19.6	20.9	22.2
85°	77.6	30.8	23.4	20.9	17.3	16.0	16.0	16.0	18.5	19.6	19.6
87.5°	28.3	24.6	20.9	17.3	14.7	14.7	14.7	14.7	16.0	18.5	18.5
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)