

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: P458965

Luminaire Tested: **GALN-SA4D-735-U-T2-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458965
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-11)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA4D-735-U-T2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21311 lumens
Efficiency: N/A
Efficacy: 87.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G3

Input Watts (W): 245
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: 24 FT



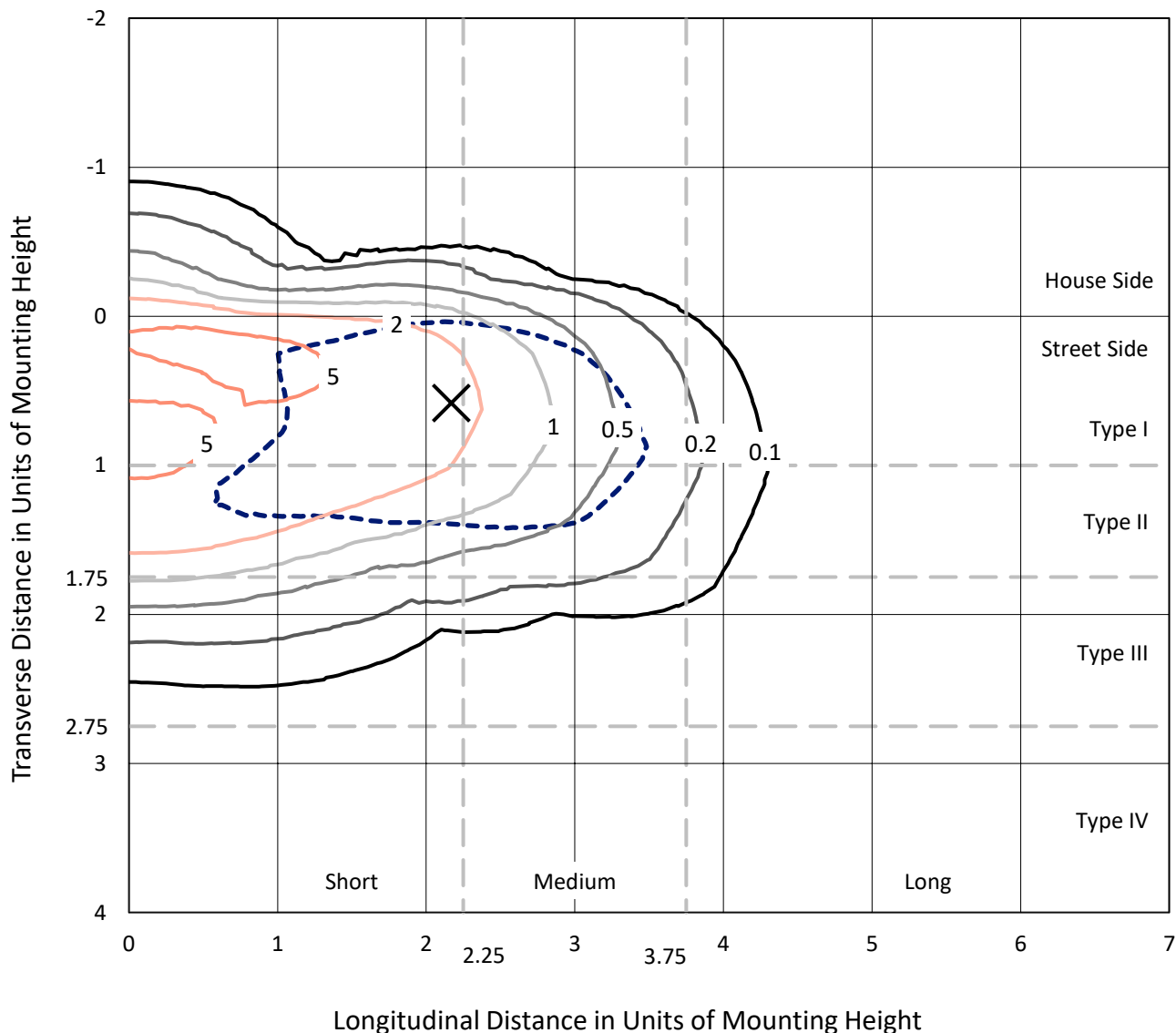
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

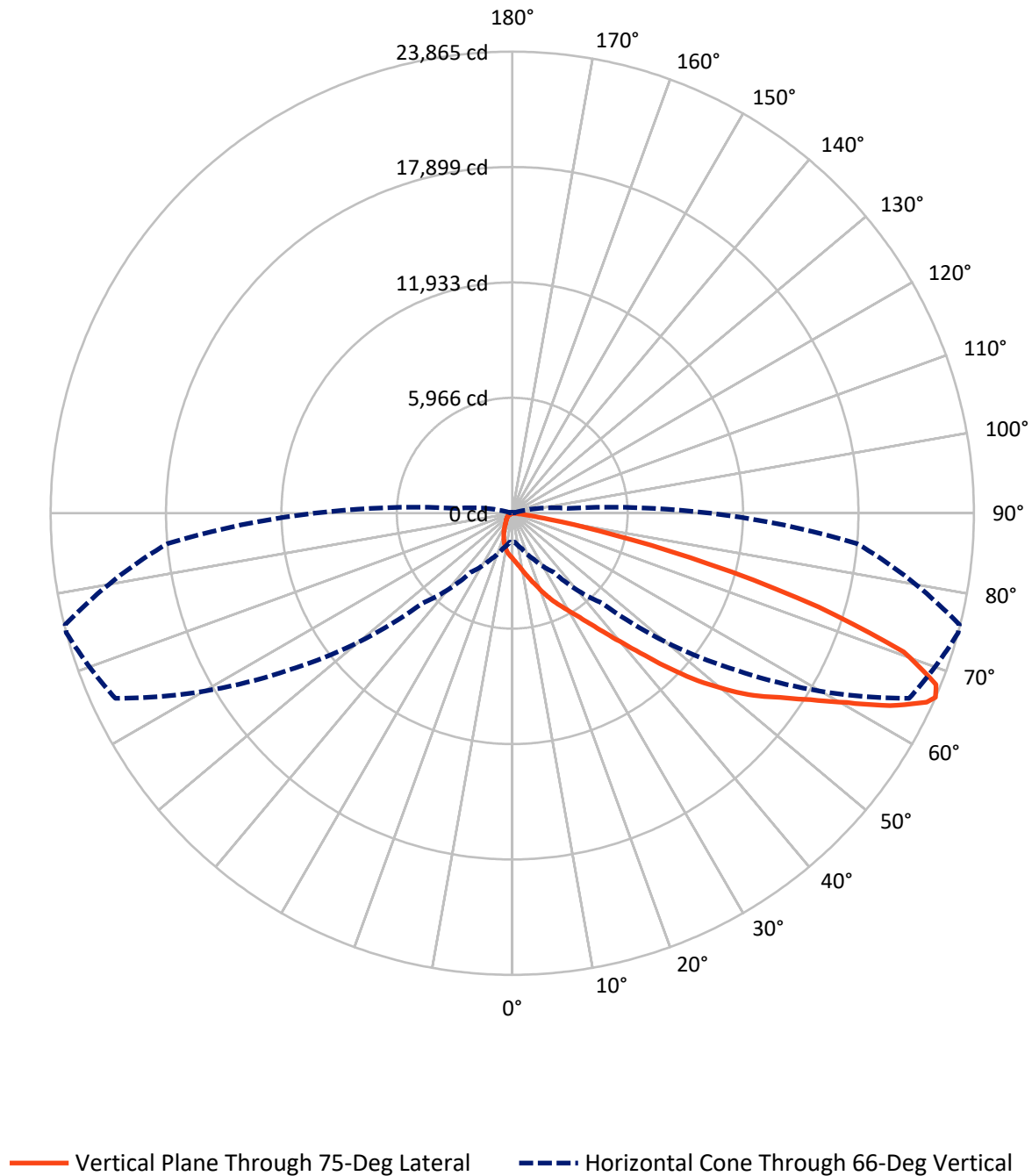
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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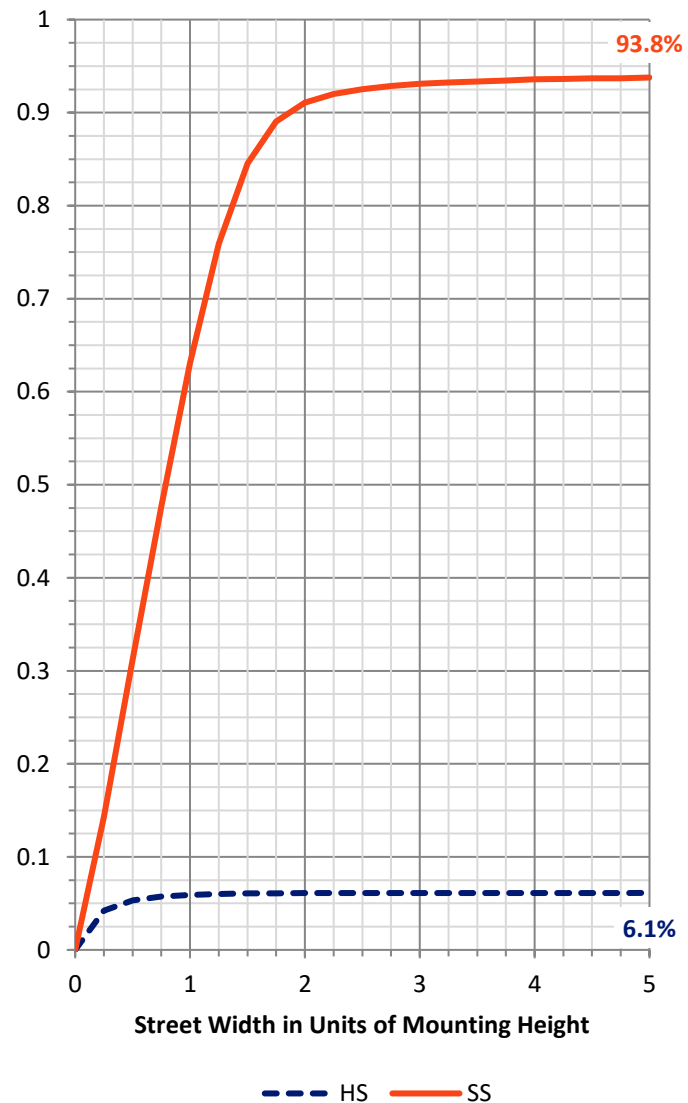
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1315.7	0.0	1315.7
	% Fixture	6.2	0.0	6.2
Street Side	Lumens	19995.4	0.0	19995.4
	% Fixture	93.8	0.0	93.8
Total	Lumens	21311.0	0.0	21311.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	224.8	1.1
10°-20°	661.6	3.1
20°-30°	1142.4	5.4
30°-40°	2060.6	9.7
40°-50°	3722.5	17.5
50°-60°	5803.4	27.2
60°-70°	5513.0	25.9
70°-80°	2066.2	9.7
80°-90°	116.6	0.5
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°	21311.0	100.0
0°-180°	21311.0	100.0



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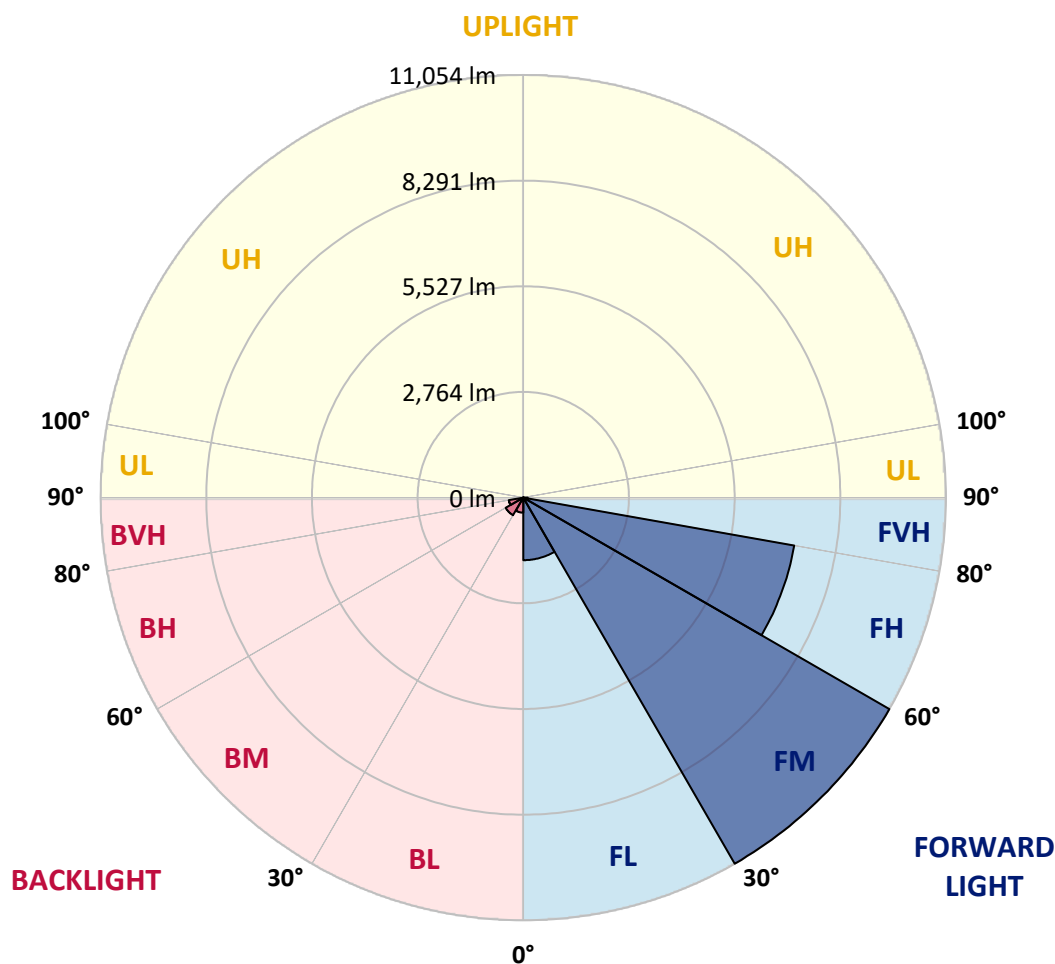
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1635.8	7.7			
FM	(30°-60°)	11054.0	51.9			
FH	(60°-80°)	7195.0	33.8			G3/7500
FVH	(80°-90°)	110.6	0.5			G2/225
BL	(0°-30°)	392.9	1.8	B1/500		
BM	(30°-60°)	532.5	2.5	B1/1000		
BH	(60°-80°)	384.2	1.8	B1/500		G1/500
BVH	(80°-90°)	6.0	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2330.6	2330.6	2330.6	2330.6	2330.6	2330.6	2330.6	2330.6	2330.6	2330.6	2330.6
2.5°	2784.4	2749.7	2760.8	2745.0	2708.8	2655.2	2607.9	2540.1	2472.4	2461.4	2385.7
5°	3151.5	3142.1	3129.5	3083.8	3058.6	2976.6	2878.9	2762.3	2622.1	2596.9	2459.8
7.5°	3402.1	3397.4	3403.7	3380.0	3358.0	3283.9	3179.9	3020.8	2803.3	2789.1	2560.6
10°	3484.0	3496.6	3520.3	3558.1	3592.8	3569.1	3490.3	3291.8	3038.1	2997.1	2675.7
12.5°	3436.8	3450.9	3507.7	3608.5	3720.4	3785.0	3753.5	3608.5	3287.1	3254.0	2804.9
15°	3315.4	3332.8	3413.1	3569.1	3769.2	3952.0	4030.8	3926.8	3577.0	3523.4	2960.9
17.5°	3135.8	3161.0	3276.0	3482.5	3756.6	4071.8	4294.0	4259.3	3885.9	3835.4	3131.1
20°	3000.3	3019.2	3116.9	3353.2	3703.1	4138.0	4544.5	4642.2	4267.2	4180.5	3331.2
22.5°	3090.1	3096.4	3129.5	3271.3	3606.9	4155.3	4765.1	5040.9	4672.2	4595.0	3539.2
25°	3529.7	3466.7	3433.6	3402.1	3586.5	4139.6	4965.3	5456.9	5075.6	4993.6	3745.6
27.5°	4223.1	4194.7	4027.7	3803.9	3761.4	4160.0	5097.6	5850.8	5455.3	5367.1	3947.3
30°	4977.9	4929.0	4826.6	4498.8	4169.5	4305.0	5193.7	6233.8	5904.4	5787.8	4131.7
32.5°	5671.2	5702.7	5549.9	5212.7	4831.3	4613.9	5318.2	6651.3	6419.7	6274.7	4346.0
35°	6479.6	6542.6	6307.8	5984.8	5538.8	5171.7	5560.9	7122.5	7073.6	6890.9	4676.9
37.5°	7300.6	7338.4	7195.0	6741.2	6339.3	5880.8	6017.9	7704.0	7878.9	7722.9	5072.4
40°	7990.7	8042.7	7937.2	7533.8	7105.2	6701.8	6681.3	8337.4	8836.9	8676.2	5661.8
42.5°	8518.6	8558.0	8561.2	8276.0	7889.9	7707.1	7527.5	9145.8	10037.7	9851.7	6345.6
45°	9185.2	9241.9	9208.8	9015.0	8726.6	8693.5	8600.6	10122.8	11474.8	11240.0	7232.8
47.5°	10215.7	10253.6	10171.6	9943.1	9650.0	9702.0	9646.9	11217.9	12940.2	12738.6	8151.5
50°	10931.1	10994.2	11110.8	11202.2	10989.4	10797.2	10633.3	12240.6	14331.7	14150.4	9090.6
52.5°	10923.3	11027.3	11396.0	11856.1	12321.0	12262.7	11791.5	13370.4	15660.0	15436.3	9973.1
55°	10187.4	10389.1	10931.1	11747.4	13034.8	13676.1	13461.8	14678.3	16807.2	16655.9	10995.7
57.5°	8668.3	8791.2	9544.5	10685.3	12636.1	14341.1	15396.9	16451.1	18182.8	18111.9	12584.1
60°	5830.4	5885.5	6854.6	8264.9	10757.8	13677.7	16815.1	18595.7	19876.8	19842.1	14438.8
62.5°	3340.6	3364.3	4067.1	5256.8	7655.1	11591.4	16934.8	21241.4	21908.0	21926.9	16585.0
65°	1798.0	1810.6	2377.8	3085.4	4658.0	8261.8	15228.3	22691.1	23549.9	23586.2	17915.0
66°	1552.1	1492.3	1892.5	2630.0	3706.2	6575.7	14148.9	22639.1	23865.1	23825.7	17867.7
67.5°	1180.3	1233.8	1511.2	2021.7	2746.6	4675.3	11681.2	21632.2	23625.6	23502.7	17141.3
70°	844.6	866.7	1076.3	1441.8	1870.4	2565.4	7464.4	17967.0	21473.1	21307.6	14933.6
72.5°	545.2	568.9	762.7	1043.2	1352.0	1400.9	4179.0	12981.2	16555.1	16531.4	11246.3
75°	389.2	411.3	504.2	746.9	1016.4	866.7	2012.3	8748.7	10524.6	10453.7	6957.0
77.5°	282.1	293.1	337.2	488.5	726.4	620.9	932.9	4672.2	5239.4	5486.8	3074.3
80°	162.3	171.8	234.8	297.8	491.6	423.9	445.9	1875.2	1933.5	1840.5	961.2
82.5°	80.4	91.4	140.2	203.3	307.3	285.2	204.9	564.1	595.6	579.9	242.7
85°	18.9	23.6	78.8	133.9	149.7	127.6	99.3	165.5	204.9	200.1	93.0
87.5°	1.6	3.2	28.4	23.6	25.2	42.5	34.7	42.5	66.2	61.5	33.1
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°	2330.6	2330.6	2330.6	2330.6	2330.6	2330.6	2330.6	2330.6	2330.6	2330.6	2330.6
2.5°	2351.1	2321.1	2234.4	2149.4	2078.4	2004.4	1936.6	1897.2	1881.5	1864.1	1872.0
5°	2384.1	2311.7	2136.7	1985.5	1837.4	1711.3	1610.4	1545.8	1514.3	1509.6	1501.7
7.5°	2428.3	2303.8	2032.7	1796.4	1602.6	1462.3	1347.3	1254.3	1226.0	1200.7	1180.3
10°	2481.8	2289.6	1903.5	1597.8	1391.4	1214.9	1063.6	953.3	896.6	880.9	891.9
12.5°	2538.6	2262.8	1768.0	1415.0	1177.1	951.8	811.5	756.4	740.6	734.3	735.9
15°	2595.3	2229.7	1626.2	1238.6	937.6	759.5	694.9	680.7	674.4	671.3	668.1
17.5°	2647.3	2176.1	1467.0	1066.8	759.5	649.2	625.6	613.0	600.4	595.6	587.8
20°	2708.8	2114.7	1323.6	874.6	642.9	587.8	559.4	535.8	516.9	504.2	502.7
22.5°	2767.1	2035.9	1174.0	724.9	586.2	527.9	482.2	457.0	434.9	419.2	423.9
25°	2798.6	1939.8	1040.0	631.9	534.2	468.0	417.6	386.1	362.4	354.5	353.0
27.5°	2798.6	1821.6	909.2	578.3	486.9	414.4	362.4	332.5	316.7	305.7	307.3
30°	2776.5	1690.8	787.9	537.3	445.9	367.2	318.3	291.5	278.9	271.0	269.5
32.5°	2759.2	1566.3	683.9	497.9	403.4	326.2	283.6	263.2	250.5	242.7	242.7
35°	2786.0	1459.2	603.5	458.5	364.0	294.7	256.9	237.9	225.3	219.0	217.5
37.5°	2856.9	1361.5	542.1	416.0	327.8	267.9	237.9	215.9	203.3	195.4	192.2
40°	3031.8	1306.3	496.4	376.6	293.1	245.8	215.9	195.4	179.6	171.8	170.2
42.5°	3312.3	1307.9	452.2	340.4	266.3	226.9	197.0	173.3	156.0	148.1	146.5
45°	3734.6	1367.8	417.6	305.7	242.7	206.4	176.5	151.3	135.5	127.6	127.6
47.5°	4240.4	1484.4	387.6	275.8	220.6	187.5	156.0	130.8	115.0	108.7	108.7
50°	4788.8	1635.7	357.7	244.2	201.7	167.0	133.9	113.5	100.8	96.1	96.1
52.5°	5348.2	1818.4	327.8	219.0	181.2	145.0	115.0	100.8	89.8	86.7	85.1
55°	6082.5	2051.7	296.2	192.2	159.2	124.5	102.4	88.2	75.6	70.9	69.3
57.5°	7212.3	2403.1	261.6	168.6	130.8	104.0	88.2	74.1	59.9	52.0	50.4
60°	8575.4	2831.7	225.3	148.1	105.6	85.1	70.9	56.7	44.1	34.7	33.1
62.5°	9851.7	3104.3	190.7	124.5	83.5	64.6	50.4	42.5	31.5	22.1	20.5
65°	10415.9	3012.9	157.6	100.8	66.2	45.7	33.1	29.9	18.9	9.5	7.9
66°	10228.3	2877.4	145.0	91.4	59.9	39.4	28.4	25.2	14.2	4.7	4.7
67.5°	9675.2	2557.5	126.1	78.8	52.0	31.5	22.1	18.9	7.9	1.6	0.0
70°	8290.1	2069.0	99.3	58.3	37.8	22.1	12.6	9.5	4.7	0.0	0.0
72.5°	6367.7	1541.1	78.8	44.1	26.8	12.6	6.3	3.2	4.7	0.0	0.0
75°	3901.6	880.9	61.5	33.1	17.3	7.9	4.7	0.0	4.7	1.6	0.0
77.5°	1731.8	395.5	41.0	22.1	12.6	6.3	3.2	0.0	3.2	1.6	0.0
80°	438.1	129.2	23.6	15.8	9.5	4.7	1.6	0.0	3.2	3.2	1.6
82.5°	119.8	47.3	17.3	12.6	7.9	4.7	1.6	0.0	3.2	3.2	3.2
85°	47.3	22.1	15.8	12.6	9.5	4.7	1.6	0.0	3.2	3.2	3.2
87.5°	22.1	15.8	15.8	14.2	11.0	4.7	1.6	0.0	3.2	1.6	3.2
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)