

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: P452707

Luminaire Tested: **GALN-SA3C-830-U-T3R-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P452707
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-9)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA3C-830-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13057 lumens
Efficiency: N/A
Efficacy: 81.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G3

Input Watts (W): 160
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

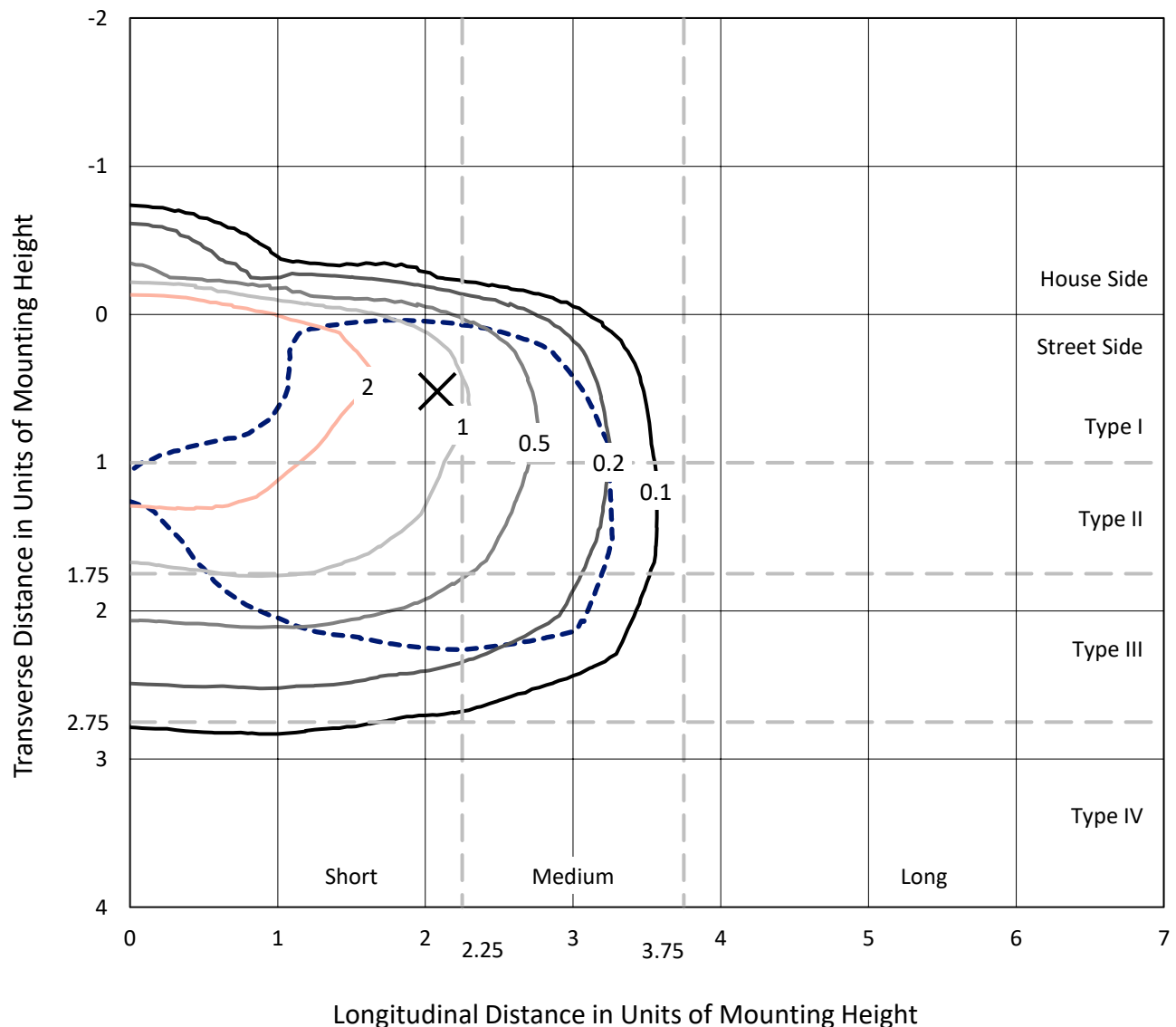


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

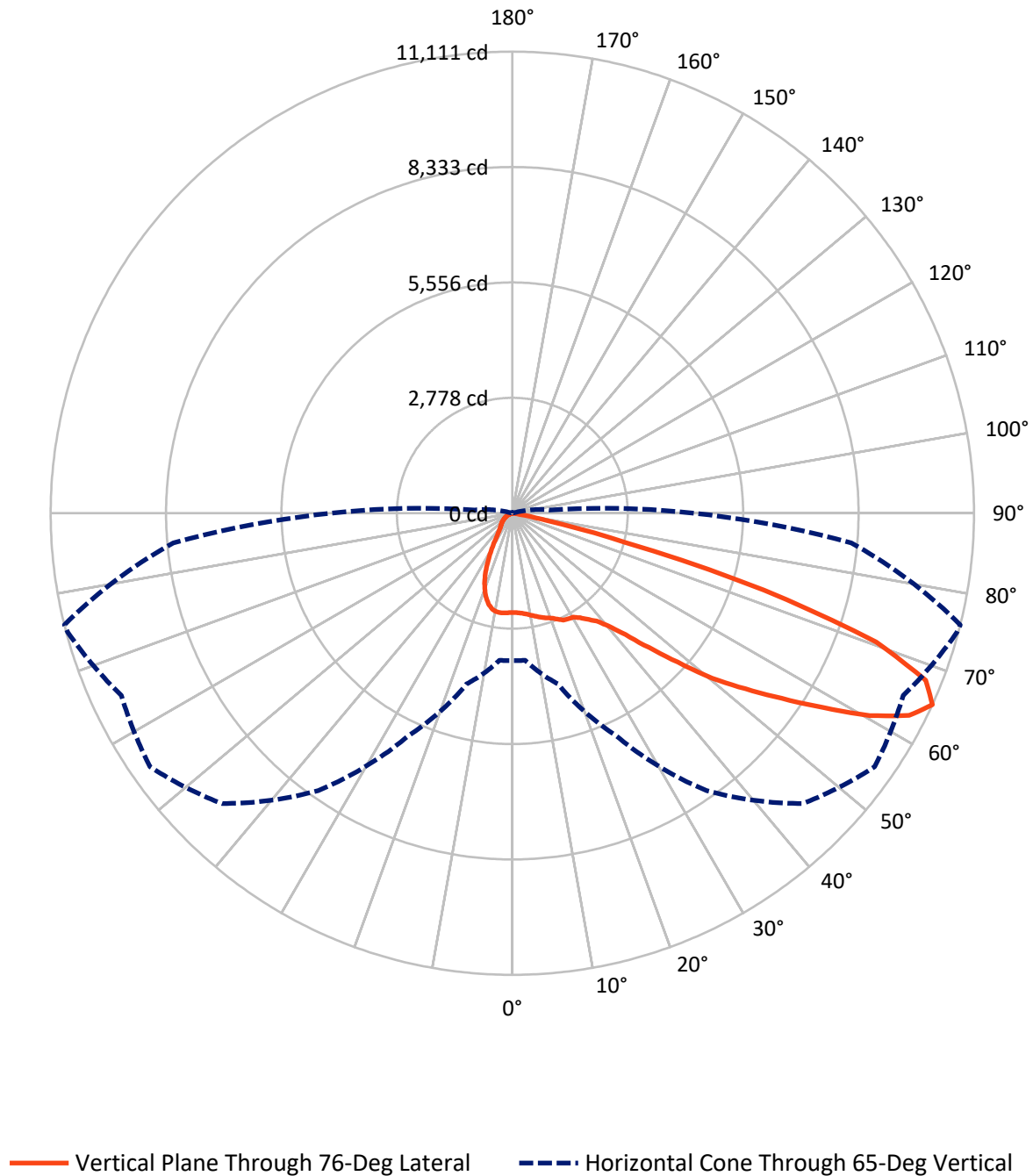


Based on 25 foot mounting height. Maximum calculated value = 4 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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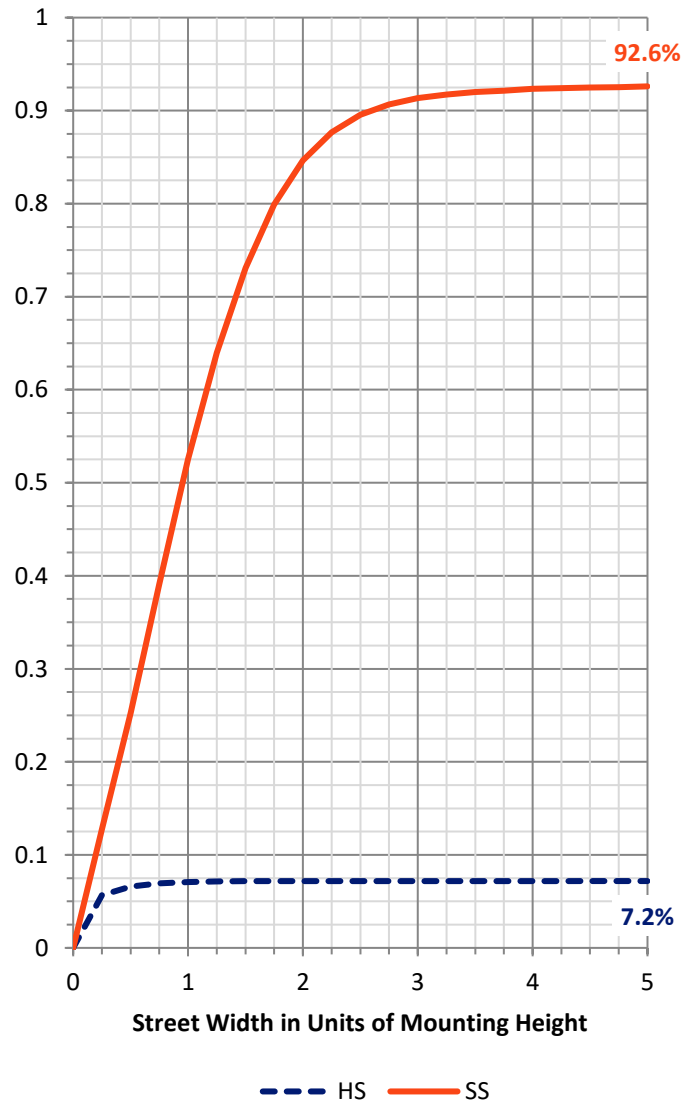
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	943.0	0.0	943.0
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	12114.0	0.0	12114.0
	% Fixture	92.8	0.0	92.8
Total	Lumens	13057.0	0.0	13057.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	196.8	1.5
10°-20°	438.1	3.4
20°-30°	706.0	5.4
30°-40°	1227.5	9.4
40°-50°	2028.4	15.5
50°-60°	3133.4	24.0
60°-70°	3826.3	29.3
70°-80°	1452.2	11.1
80°-90°	48.5	0.4
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°	13057.0	100.0
0°-180°	13057.0	100.0

Coefficient of Utilization



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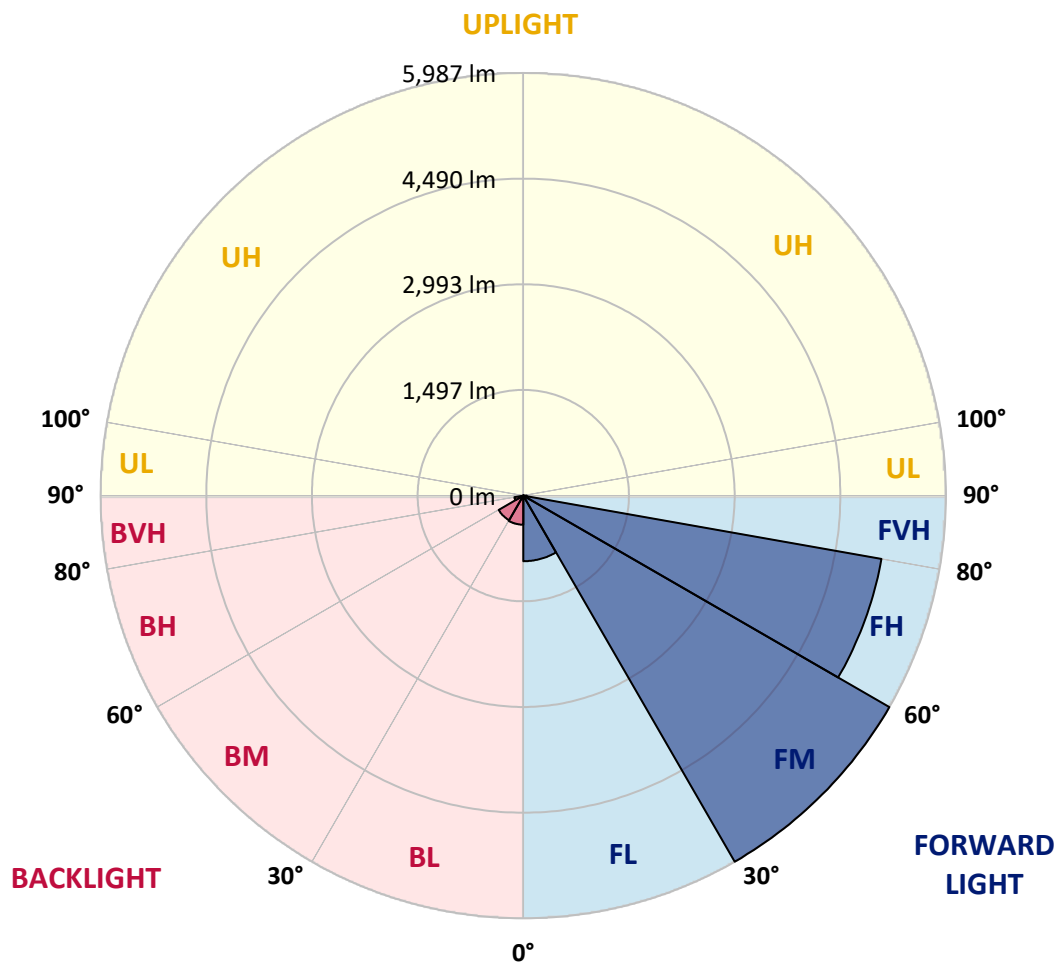
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	928.8	7.1			
FM	(30°-60°)	5986.8	45.9			
FH	(60°-80°)	5150.5	39.4			G3/7500
FVH	(80°-90°)	47.8	0.4			G1/100
BL	(0°-30°)	412.0	3.2	B1/500		
BM	(30°-60°)	402.4	3.1	B1/1000		
BH	(60°-80°)	127.9	1.0	B1/500		G1/500
BVH	(80°-90°)	0.7	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 III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2388.5	2388.5	2388.5	2388.5	2388.5	2388.5	2388.5	2388.5	2388.5	2388.5	2388.5
2.5°	2282.5	2283.4	2289.0	2302.8	2324.0	2341.5	2356.3	2380.2	2396.8	2398.7	2404.2
5°	2124.9	2113.8	2124.9	2160.8	2193.1	2242.0	2301.9	2361.8	2415.3	2419.0	2444.8
7.5°	1947.9	1957.1	1974.6	2011.5	2072.3	2147.0	2233.7	2340.6	2442.0	2451.2	2501.9
10°	1768.1	1788.4	1817.0	1873.2	1958.0	2054.8	2172.8	2325.9	2484.4	2497.3	2584.9
12.5°	1602.2	1611.4	1646.4	1722.0	1827.1	1963.6	2126.7	2317.6	2531.4	2547.1	2673.4
15°	1475.0	1487.0	1517.4	1585.6	1702.7	1877.8	2088.9	2314.8	2577.5	2599.6	2761.9
17.5°	1451.0	1458.4	1471.3	1517.4	1619.7	1809.6	2054.8	2313.9	2621.8	2648.5	2843.9
20°	1549.6	1543.2	1530.3	1525.7	1581.9	1757.1	2029.9	2321.2	2664.2	2694.6	2930.6
22.5°	1796.7	1805.0	1729.4	1640.0	1621.6	1748.8	2026.3	2356.3	2731.5	2767.4	3027.4
25°	2321.2	2257.6	2139.6	1925.8	1764.4	1799.5	2067.7	2439.2	2809.8	2849.5	3115.0
27.5°	2901.1	2881.7	2698.3	2346.1	2045.6	1906.4	2141.5	2502.9	2835.6	2876.2	3164.7
30°	3470.8	3493.9	3283.7	2894.6	2454.0	2104.6	2210.6	2526.8	2858.7	2901.1	3228.4
32.5°	3999.0	4026.7	3842.3	3457.0	2935.2	2447.5	2329.5	2619.9	2955.5	2998.8	3334.4
35°	4414.8	4418.5	4279.3	3972.3	3460.7	2864.2	2586.7	2783.1	3086.4	3137.1	3446.8
37.5°	4796.4	4790.9	4627.7	4363.2	3898.6	3278.1	2910.3	2971.2	3235.7	3288.3	3609.1
40°	5079.5	5083.1	5030.6	4781.7	4306.9	3660.7	3166.6	3147.2	3486.5	3568.5	3845.1
42.5°	5268.4	5302.5	5328.4	5202.1	4820.4	4131.8	3560.2	3524.3	3921.6	3989.8	4178.8
45°	5421.5	5482.3	5611.4	5604.9	5313.6	4709.8	4100.4	4026.7	4538.3	4611.1	4603.8
47.5°	5533.0	5594.8	5808.6	5937.7	5777.3	5270.3	4779.8	4716.2	5274.9	5354.2	5073.0
50°	5590.2	5663.9	5936.8	6186.6	6139.6	5810.5	5554.2	5557.9	6164.5	6241.0	5616.9
52.5°	5456.5	5552.4	6005.0	6454.9	6546.1	6327.7	6279.7	6401.4	6956.4	7021.8	6108.3
55°	5029.7	5150.4	5911.9	6683.5	7017.2	6937.9	7103.9	7289.2	7822.0	7864.4	6612.5
57.5°	4759.6	4887.7	5637.2	6878.0	7583.2	7704.9	7967.6	8103.2	8715.3	8823.1	7191.4
60°	4531.9	4632.4	5411.3	6919.5	8158.5	8643.4	8898.7	9038.8	9817.8	9887.9	7828.4
62.5°	4153.0	4268.2	5029.7	6630.0	8447.9	9394.7	9923.8	9861.1	10670.5	10719.4	8219.3
65°	3543.6	3553.8	4255.3	5902.7	8149.3	9882.4	10643.8	10381.1	11078.0	11111.2	8188.9
67.5°	2644.8	2742.5	3273.5	4639.7	6883.5	9465.7	10877.0	10394.9	10820.8	10728.6	7539.0
70°	1703.6	1778.3	2218.9	3217.3	4963.3	7899.4	10103.6	9682.3	9497.0	9292.4	6170.9
72.5°	786.3	882.2	1318.3	1838.2	2943.5	5627.0	8201.8	7866.2	6835.6	6330.4	3922.5
75°	342.9	366.9	650.8	969.8	1380.0	2975.8	5407.6	4883.1	3087.3	2820.0	1569.9
77.5°	209.3	224.9	341.1	519.9	542.1	1133.9	2913.1	2130.4	954.1	841.7	425.9
80°	142.0	159.5	248.0	271.9	185.3	316.2	1093.3	568.8	192.7	184.4	91.3
82.5°	69.1	87.6	183.5	152.1	80.2	101.4	318.0	121.7	56.2	52.5	32.3
85°	10.1	17.5	103.2	99.6	36.0	24.0	56.2	30.4	19.4	18.4	14.7
87.5°	0.0	0.0	35.0	15.7	3.7	3.7	6.5	6.5	7.4	6.5	7.4
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°	2388.5	2388.5	2388.5	2388.5	2388.5	2388.5	2388.5	2388.5	2388.5	2388.5	2388.5
2.5°	2407.0	2411.6	2394.1	2369.2	2342.4	2315.7	2277.9	2243.8	2223.5	2235.5	2206.0
5°	2450.3	2446.6	2400.5	2324.9	2224.5	2103.7	1983.8	1881.5	1848.3	1798.6	1793.0
7.5°	2510.2	2500.1	2402.4	2229.1	2002.3	1775.5	1554.3	1407.7	1323.8	1252.8	1254.7
10°	2594.1	2564.6	2381.2	2060.4	1687.0	1345.0	1062.9	869.3	785.4	758.7	737.5
12.5°	2680.8	2623.6	2322.2	1832.7	1313.7	919.1	646.2	528.2	476.6	460.0	458.2
15°	2758.2	2667.9	2218.9	1558.9	955.0	587.2	440.6	401.9	395.5	396.4	395.5
17.5°	2834.7	2702.9	2076.0	1268.5	649.0	421.3	378.9	369.7	372.4	376.1	375.2
20°	2898.3	2710.3	1893.5	968.0	459.1	369.7	355.8	354.0	356.8	359.5	359.5
22.5°	2967.5	2715.8	1676.9	670.2	375.2	343.9	336.5	336.5	340.2	343.9	344.8
25°	3019.1	2685.4	1417.8	481.2	330.9	319.0	315.3	316.2	319.9	321.7	320.8
27.5°	3027.4	2599.6	1143.1	368.7	300.5	288.5	284.9	288.5	283.9	286.7	284.9
30°	3034.8	2490.9	864.7	310.7	272.9	254.4	248.9	243.4	239.7	235.1	234.2
32.5°	3057.8	2362.7	631.5	279.3	247.1	226.8	213.9	198.2	186.2	182.5	181.6
35°	3068.0	2208.8	463.7	254.4	224.0	201.9	178.8	156.7	139.2	132.7	137.4
37.5°	3106.7	2059.4	359.5	236.0	203.7	176.1	146.6	118.9	102.3	98.6	100.5
40°	3186.0	1897.2	301.4	220.3	186.2	152.1	116.2	89.4	78.4	74.7	73.7
42.5°	3313.2	1735.9	268.3	205.6	168.7	128.1	91.3	70.1	60.8	58.1	58.1
45°	3468.0	1581.0	245.2	189.9	150.3	103.2	71.9	56.2	50.7	48.9	48.9
47.5°	3671.8	1445.5	225.9	174.2	130.0	82.0	58.1	48.9	45.2	46.1	47.0
50°	3878.3	1345.0	204.7	156.7	106.9	67.3	49.8	43.3	42.4	43.3	43.3
52.5°	4034.1	1286.0	176.1	132.7	83.9	56.2	44.2	40.6	39.6	37.8	37.8
55°	4244.2	1273.1	140.1	107.9	66.4	47.0	39.6	36.9	34.1	32.3	31.3
57.5°	4514.4	1287.8	107.9	83.9	51.6	38.7	35.0	30.4	26.7	23.0	23.0
60°	4682.1	1254.7	83.9	64.5	37.8	31.3	26.7	22.1	17.5	14.7	13.8
62.5°	4628.7	1114.5	66.4	47.9	26.7	23.0	17.5	14.7	10.1	7.4	6.5
65°	4353.0	899.7	53.5	33.2	19.4	13.8	9.2	9.2	4.6	0.9	0.0
67.5°	3810.1	666.5	42.4	22.1	11.1	6.5	4.6	2.8	0.0	0.0	0.0
70°	3101.1	481.2	33.2	13.8	6.5	4.6	1.8	0.9	0.0	0.0	0.0
72.5°	1969.1	275.6	25.8	8.3	4.6	1.8	0.0	0.0	0.0	0.0	0.0
75°	761.5	107.9	17.5	5.5	1.8	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	215.7	50.7	10.1	2.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	56.2	22.1	5.5	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	26.7	9.2	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	15.7	3.7	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	7.4	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)