

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: P451420

Luminaire Tested: **GALN-SA2B-740-U-SLL-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P451420
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-21)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA2B-740-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR LEFT OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8218 lumens
Efficiency: N/A
Efficacy: 100.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

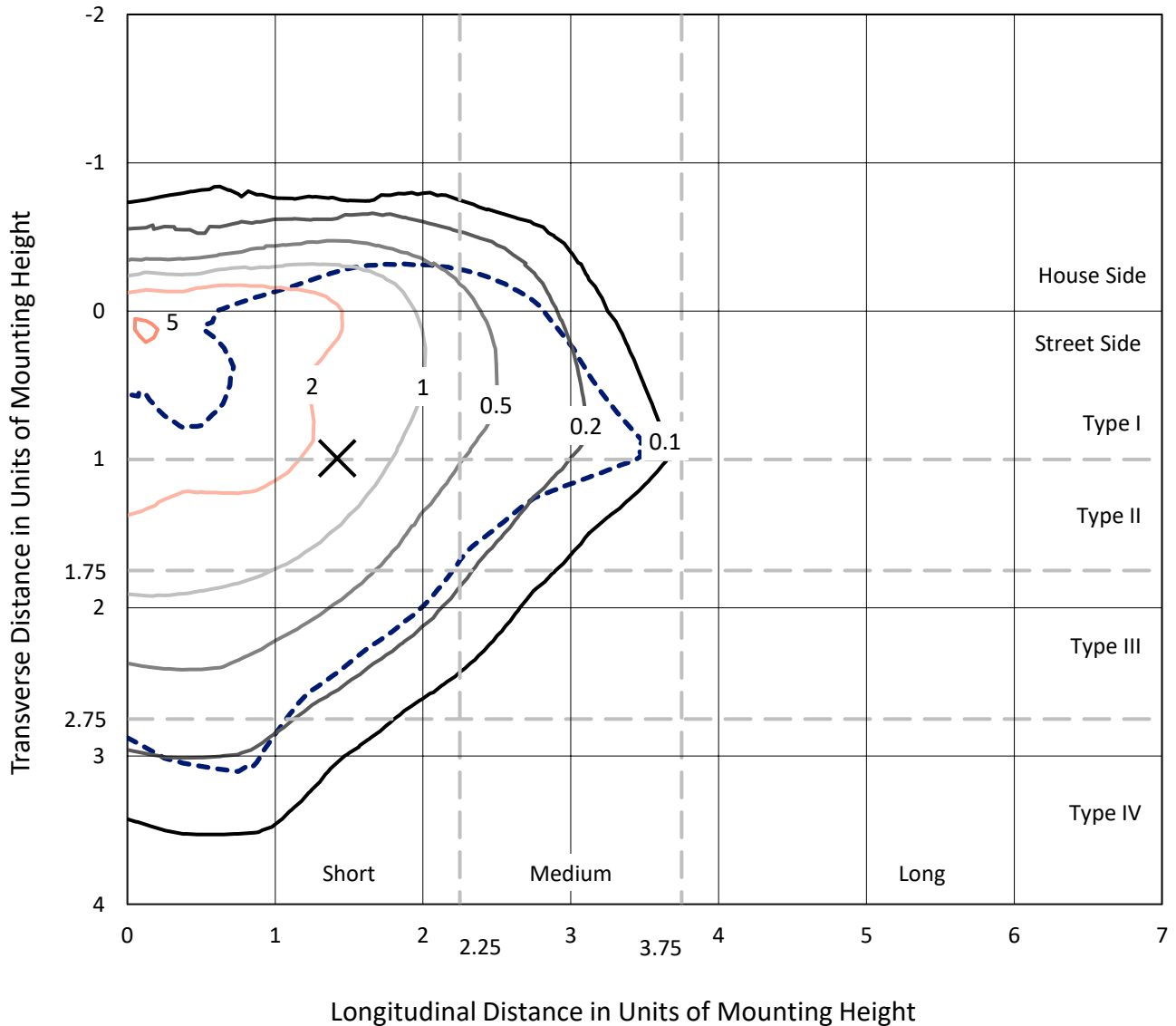
Input Watts (W): 82
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

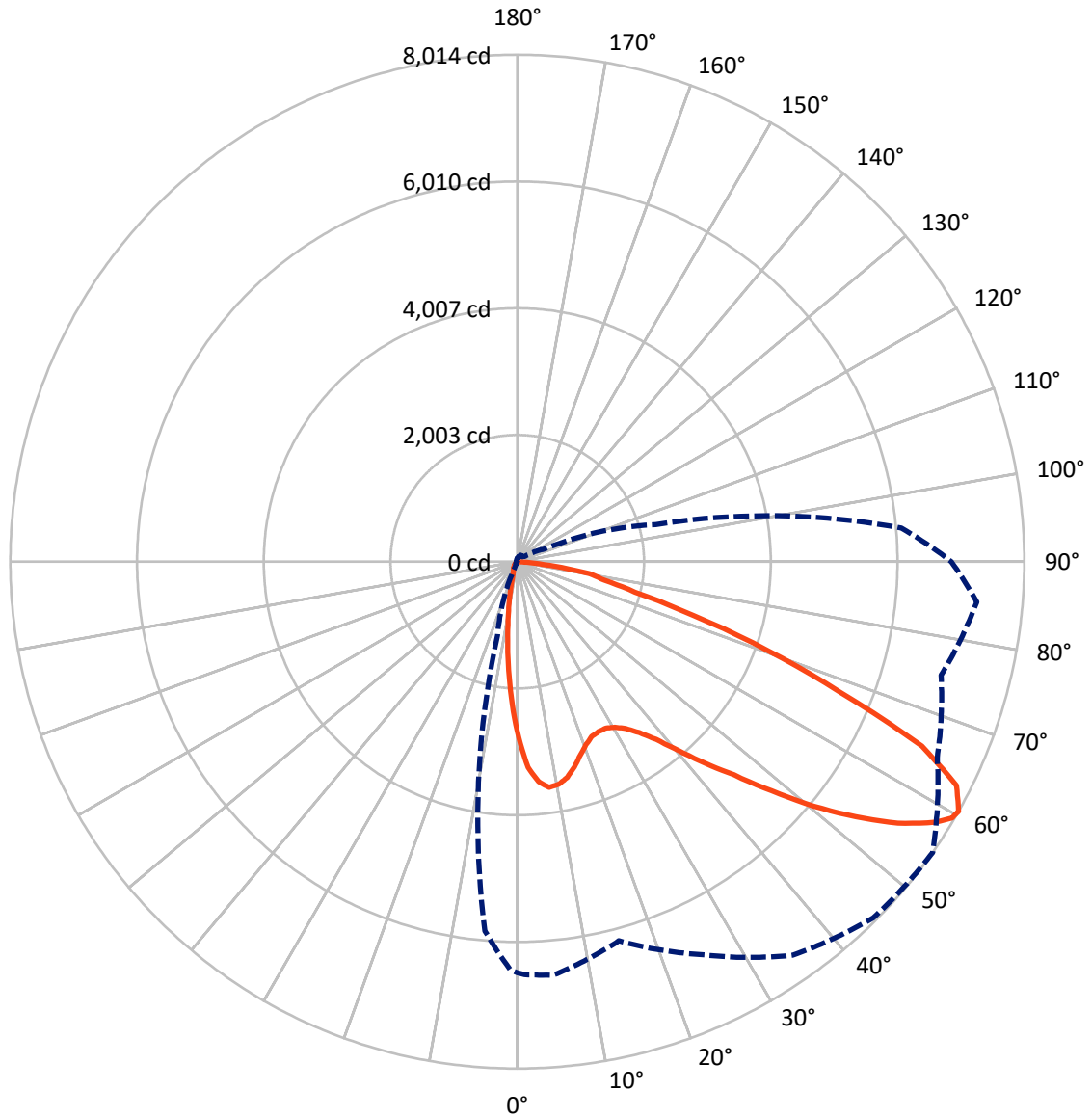
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.7 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 60-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1219.6	0.0	1219.6
	% Fixture	14.8	0.0	14.8
Street Side	Lumens	6998.4	0.0	6998.4
	% Fixture	85.2	0.0	85.2
Total	Lumens	8218.0	0.0	8218.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	206.1	2.5
10°-20°	405.8	4.9
20°-30°	600.6	7.3
30°-40°	895.3	10.9
40°-50°	1311.1	16.0
50°-60°	1892.9	23.0
60°-70°	1991.2	24.2
70°-80°	819.1	10.0
80°-90°	95.9	1.2
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°	8218.0	100.0
0°-180°	8218.0	100.0

Coefficient of Utilization



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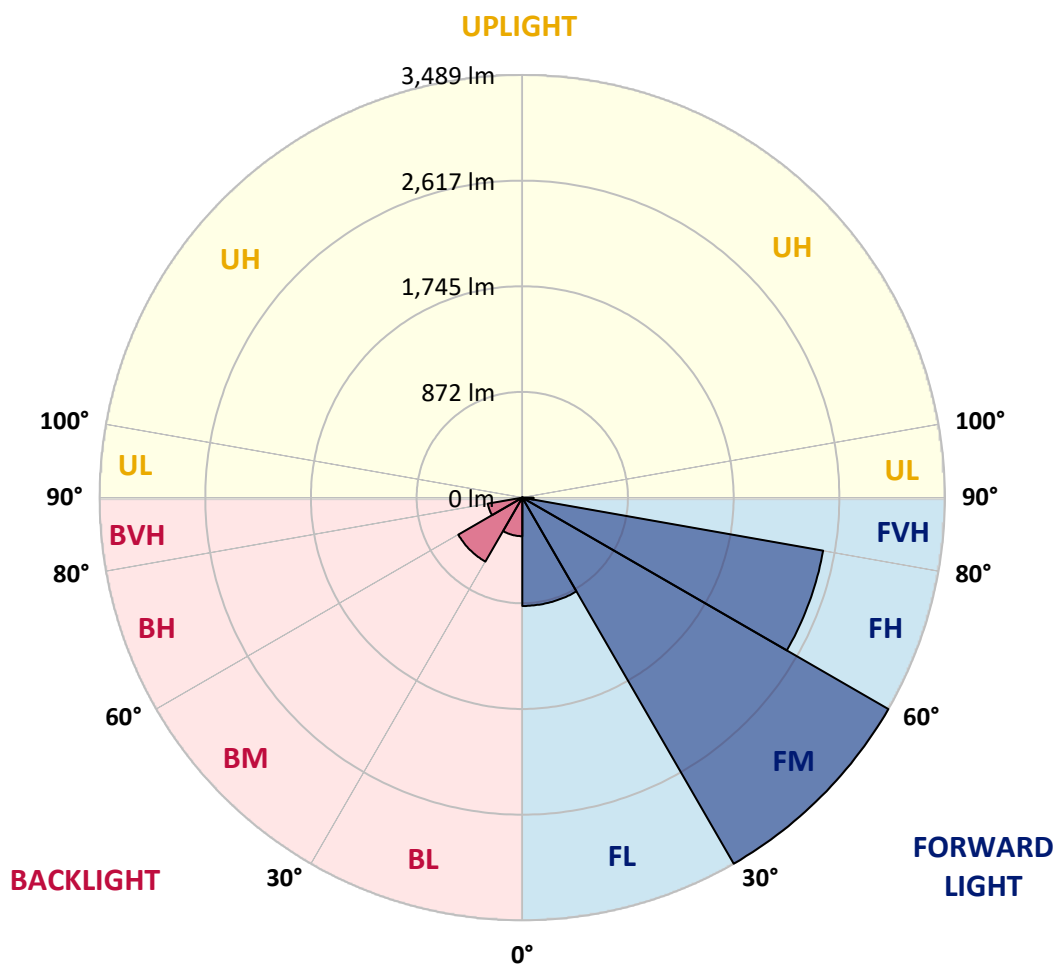
CATALOG NUMBER: GALN-SA2B-740-U-SLL-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	894.2	10.9			
FM (30°-60°)	3489.4	42.5			
FH (60°-80°)	2521.7	30.7			G2/5000
FVH (80°-90°)	93.1	1.1			G1/100
BL (0°-30°)	318.2	3.9	B1/500		
BM (30°-60°)	609.9	7.4	B1/1000		
BH (60°-80°)	288.7	3.5	B1/500		G1/500
BVH (80°-90°)	2.8	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-G2

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	2782.6	2782.6	2782.6	2782.6	2782.6	2782.6	2782.6	2782.6	2782.6	2782.6	2782.6
2.5°	3040.0	3035.0	3079.9	3153.3	3227.3	3265.9	3258.3	3255.1	3193.8	3148.8	3054.6
5°	3033.7	3059.6	3140.0	3338.6	3489.2	3561.9	3583.4	3492.9	3373.4	3200.1	2986.3
7.5°	2852.2	2884.4	3015.4	3326.0	3593.5	3751.7	3746.0	3601.1	3354.4	3086.2	2781.3
10°	2627.0	2664.9	2818.6	3195.6	3542.9	3751.7	3763.0	3579.6	3272.8	2928.7	2608.0
12.5°	2468.2	2513.1	2683.3	3074.2	3412.6	3618.2	3631.5	3498.6	3211.5	2868.0	2513.8
15°	2414.4	2456.8	2629.5	3012.8	3274.1	3384.8	3381.6	3367.7	3187.4	2882.5	2518.8
17.5°	2506.8	2541.6	2736.4	3040.7	3144.4	3133.0	3149.5	3216.5	3192.5	3004.6	2678.2
20°	2745.3	2780.7	2990.1	3126.1	3045.1	2973.0	2980.6	3092.5	3239.3	3234.2	2927.4
22.5°	3073.6	3133.7	3323.4	3291.8	3031.8	2873.7	2857.9	3003.4	3319.0	3498.6	3264.0
25°	3489.2	3549.9	3697.9	3556.2	3097.0	2850.3	2835.7	2976.2	3415.8	3756.7	3642.9
27.5°	3838.3	3884.5	4031.9	3813.7	3193.1	2860.4	2836.4	2979.9	3494.2	3976.2	3962.3
30°	4117.9	4152.1	4238.7	3933.8	3276.0	2904.7	2876.8	3035.6	3529.0	4083.1	4221.0
32.5°	4343.1	4400.7	4427.9	4062.2	3394.9	2988.2	2940.7	3142.5	3613.8	4215.3	4492.4
35°	4600.5	4667.0	4632.2	4185.0	3551.8	3118.5	3060.3	3315.8	3742.2	4337.4	4807.4
37.5°	4926.9	5003.5	4867.5	4314.0	3717.5	3314.6	3287.4	3559.4	3937.0	4512.0	5145.2
40°	5264.7	5309.0	5095.8	4470.9	3921.2	3599.8	3625.8	3921.2	4191.9	4721.4	5504.5
42.5°	5528.5	5570.2	5330.5	4602.4	4129.3	3938.3	4046.4	4357.6	4484.2	4935.8	5772.7
45°	5730.3	5765.7	5493.1	4746.0	4410.1	4428.5	4632.8	4807.4	4777.0	5066.7	5979.5
47.5°	5887.2	5917.5	5618.3	4900.4	4830.8	5028.1	5340.6	5414.6	5080.7	5208.4	6166.7
50°	5951.7	5960.5	5657.5	5097.1	5308.4	5792.3	6118.0	6073.1	5428.6	5365.9	6366.0
52.5°	6035.8	6033.9	5769.5	5284.3	5757.5	6475.4	6800.6	6698.7	5822.0	5601.9	6589.9
55°	6256.6	6259.1	6009.2	5550.0	6140.2	7027.0	7374.9	7300.9	6237.0	6000.4	6851.2
57.5°	6524.8	6534.3	6350.2	5860.6	6505.8	7426.8	7803.8	7775.3	6798.0	6443.8	7097.9
59°	6559.6	6578.5	6511.5	6079.4	6722.8	7549.5	7950.5	7978.4	7098.5	6736.0	7231.3
60°	6496.3	6527.9	6558.3	6203.4	6849.9	7593.8	7959.4	8013.8	7324.3	6934.7	7292.0
62.5°	6220.5	6270.5	6422.9	6584.9	7008.7	7455.9	7676.6	7790.5	7603.9	7456.5	7297.7
65°	5859.3	5885.3	6105.4	6652.5	6700.6	6811.9	6880.3	7026.4	7268.0	7657.7	7036.5
67.5°	5267.3	5343.8	5613.3	6259.7	5791.6	5660.1	5643.0	5497.5	6125.0	7178.2	6392.6
70°	4351.3	4385.5	4717.6	5131.9	4370.9	4168.5	4249.5	4195.1	4747.9	6179.4	5145.2
72.5°	3290.5	3367.7	3692.2	4090.7	2974.3	2711.7	2935.0	2914.8	3566.3	4966.2	3534.7
75°	2341.1	2391.0	2804.7	3201.3	2083.0	1764.8	1845.2	1920.4	2489.7	3921.2	2088.7
77.5°	1608.6	1651.6	1962.2	2117.1	1519.4	1455.5	1331.5	1404.3	1631.3	2326.5	1136.7
80°	970.3	968.4	1172.7	1210.7	1058.3	1229.0	1031.1	1157.6	986.1	995.6	440.3
82.5°	630.0	623.7	717.3	781.8	588.9	619.3	415.6	599.0	642.7	277.7	139.2
85°	282.1	294.1	344.7	454.8	258.1	137.3	84.8	184.1	273.9	139.8	0.0
87.5°	29.1	22.8	60.7	110.7	35.4	3.8	12.7	6.3	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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2782.6	2782.6	2782.6	2782.6	2782.6	2782.6	2782.6	2782.6	2782.6	2782.6	2782.6
2.5°	3010.9	2974.3	2864.8	2762.4	2674.4	2566.9	2497.3	2387.9	2321.5	2301.2	2304.4
5°	2890.1	2784.5	2576.4	2410.0	2224.7	2119.0	1958.4	1804.0	1720.5	1689.5	1675.6
7.5°	2637.1	2523.9	2272.8	2011.5	1812.9	1627.6	1508.0	1372.0	1279.0	1202.5	1189.2
10°	2449.2	2300.6	1989.4	1708.5	1551.6	1412.5	1292.9	1156.9	1047.5	960.2	936.2
12.5°	2336.6	2170.3	1823.0	1587.7	1439.1	1296.1	1140.5	983.0	871.0	776.8	733.1
15°	2316.4	2123.5	1776.2	1501.0	1317.6	1144.9	938.1	767.9	652.8	563.6	536.4
17.5°	2438.5	2207.6	1769.2	1410.6	1158.8	914.0	699.0	557.9	428.2	378.3	358.7
20°	2656.1	2356.3	1768.6	1305.6	995.6	704.0	490.9	363.7	311.2	287.2	275.8
22.5°	2952.7	2558.7	1802.1	1215.1	826.1	519.3	350.4	289.7	259.3	239.7	235.3
25°	3315.2	2858.5	1884.4	1153.8	696.4	407.4	289.1	248.0	222.7	213.8	210.0
27.5°	3637.2	3145.7	1974.8	1090.5	603.5	360.6	268.2	227.1	206.8	199.9	194.2
30°	3914.9	3406.3	2018.5	1007.0	528.8	330.2	272.0	242.9	216.3	195.5	186.0
32.5°	4146.4	3606.2	2046.9	931.1	465.6	270.1	215.1	187.9	175.8	168.3	161.9
35°	4436.1	3822.5	2029.9	888.1	433.3	246.1	196.1	161.9	141.7	126.5	120.2
37.5°	4739.7	4038.8	2000.1	852.7	418.7	228.4	186.6	153.7	131.6	115.8	107.5
40°	5054.1	4239.4	1965.3	819.8	405.5	217.0	180.9	146.8	124.6	107.5	98.7
42.5°	5341.9	4434.8	1951.4	798.3	384.0	218.9	176.5	143.6	117.7	99.9	92.4
45°	5574.7	4620.2	1970.4	786.9	360.6	215.7	177.7	139.8	112.0	94.9	87.3
47.5°	5823.3	4882.0	2031.8	775.5	337.8	200.5	187.2	139.2	109.4	91.7	83.5
50°	6112.3	5217.3	2172.2	747.7	310.0	184.1	199.3	138.5	106.3	87.9	79.7
52.5°	6497.6	5598.1	2317.0	699.0	269.5	168.3	190.4	136.6	99.9	83.5	75.3
55°	6843.6	5999.1	2439.7	641.4	218.2	145.5	171.4	128.4	89.2	75.9	68.3
57.5°	6986.5	6225.6	2436.0	561.7	174.6	127.8	141.1	117.7	77.8	67.1	60.7
59°	6934.0	6197.1	2354.4	502.9	159.4	118.3	117.0	116.4	72.7	60.7	55.7
60°	6860.0	6093.4	2266.4	473.8	149.9	112.0	107.5	115.1	68.3	56.9	51.9
62.5°	6576.6	5663.2	1974.8	424.4	137.3	94.9	86.0	97.4	60.7	49.3	44.9
65°	6166.1	5002.2	1671.8	410.5	133.5	78.4	71.5	69.6	51.9	41.7	38.0
67.5°	5365.3	4233.0	1354.3	401.0	134.7	65.8	62.6	52.5	43.0	34.8	32.3
70°	4295.7	3300.7	1108.9	390.3	136.0	53.8	52.5	41.7	34.8	29.1	26.6
72.5°	2609.9	1956.5	872.9	339.0	132.2	43.0	46.8	31.6	25.3	20.9	19.6
75°	1613.6	1339.1	541.5	263.8	87.3	31.6	32.9	19.6	17.1	13.3	13.3
77.5°	934.9	845.7	193.6	94.9	38.6	19.0	14.5	10.1	9.5	5.7	5.7
80°	387.8	310.6	67.1	32.3	20.9	8.9	3.2	0.6	0.0	0.0	0.0
82.5°	113.2	100.6	18.3	14.5	6.3	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	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



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CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	2782.6	2782.6	2782.6	2782.6	2782.6	2782.6	2782.6	2782.6	2782.6	2782.6	2782.6
2.5°	2250.6	2229.7	2220.3	2252.5	2222.8	2260.7	2231.6	2244.3	2281.6	2298.1	2340.4
5°	1684.5	1663.0	1652.9	1701.6	1699.0	1723.1	1720.5	1742.7	1761.7	1719.3	1762.9
7.5°	1173.4	1158.8	1182.9	1220.8	1261.3	1248.0	1248.0	1218.3	1228.4	1222.1	1220.2
10°	892.5	842.6	829.9	828.6	843.8	847.0	829.9	788.8	804.0	808.4	835.0
12.5°	702.1	663.5	604.7	578.2	571.2	576.9	520.6	484.5	501.6	491.5	517.4
15°	503.5	471.9	437.1	407.4	399.1	387.8	326.4	283.4	278.3	280.2	284.6
17.5°	359.3	337.8	337.8	306.2	289.1	254.9	223.9	204.9	203.0	204.9	208.1
20°	265.0	253.7	252.4	244.2	225.2	202.4	180.9	177.1	175.8	179.0	180.3
22.5°	228.4	216.3	206.2	205.6	187.9	168.9	158.8	153.7	154.3	155.6	158.8
25°	204.3	191.7	180.9	174.6	161.9	148.6	139.2	136.6	136.6	138.5	139.2
27.5°	187.2	171.4	161.9	153.1	141.7	130.3	122.1	120.2	118.9	120.2	123.3
30°	175.2	159.4	147.4	134.1	125.2	114.5	107.5	105.0	104.4	105.0	107.5
32.5°	149.9	140.4	130.9	118.9	108.2	101.2	93.6	89.2	89.2	90.5	93.0
35°	113.2	108.2	107.5	104.4	95.5	87.9	79.1	74.6	74.6	77.2	78.4
37.5°	99.9	90.5	89.2	87.9	84.1	74.0	65.8	62.0	61.4	63.3	65.8
40°	91.1	80.3	74.6	73.4	74.0	62.6	53.8	50.0	50.0	50.6	53.1
42.5°	84.1	71.5	61.4	60.1	62.6	52.5	43.6	39.9	39.9	39.9	43.0
45°	78.4	63.9	51.9	45.5	49.3	43.0	35.4	31.6	30.4	31.6	32.9
47.5°	74.6	58.2	45.5	36.7	36.7	34.2	28.5	24.0	22.8	23.4	25.3
50°	71.5	53.1	38.6	29.7	26.6	27.2	21.5	18.3	17.1	17.1	19.0
52.5°	66.4	48.1	33.5	25.3	20.2	18.3	15.8	13.3	12.7	13.3	14.5
55°	60.1	43.6	29.1	20.9	15.8	12.7	11.4	9.5	8.9	9.5	11.4
57.5°	53.1	36.7	23.4	16.4	10.8	8.2	7.6	6.3	5.1	5.7	7.0
59°	48.7	32.9	20.2	13.3	8.2	5.7	5.7	4.4	3.2	3.8	5.7
60°	46.8	30.4	17.1	11.4	7.0	4.4	4.4	3.2	1.9	2.5	4.4
62.5°	39.9	25.3	13.3	7.0	3.2	0.6	1.9	0.6	0.0	0.6	1.9
65°	33.5	20.2	8.9	3.2	0.0	0.0	0.0	0.0	0.0	0.0	0.6
67.5°	27.8	15.2	4.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	22.1	10.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	15.2	5.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	9.5	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	3.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	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



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CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	2782.6	2782.6	2782.6	2782.6	2782.6	2782.6	2782.6	2782.6	2782.6	2782.6
2.5°	2343.0	2433.4	2489.1	2594.1	2701.6	2784.5	2888.2	2981.2	3019.8	3040.0
5°	1807.2	1933.1	2040.0	2200.0	2348.7	2529.6	2713.0	2929.3	3012.2	3033.7
7.5°	1268.3	1396.7	1508.6	1694.0	1905.9	2148.1	2422.7	2697.2	2818.0	2852.2
10°	915.9	1053.2	1189.8	1375.2	1573.2	1835.7	2121.6	2461.3	2600.4	2627.0
12.5°	578.2	725.5	947.6	1176.5	1385.9	1597.2	1896.4	2265.8	2419.5	2468.2
15°	335.3	445.3	612.9	911.5	1177.8	1457.4	1783.8	2192.4	2364.5	2414.4
17.5°	224.6	262.5	377.6	606.0	957.7	1328.4	1755.3	2252.5	2442.9	2506.8
20°	189.1	206.2	246.7	369.4	737.6	1213.2	1762.9	2415.7	2665.6	2745.3
22.5°	166.4	182.2	208.1	265.7	514.9	1070.3	1799.0	2649.1	2971.7	3073.6
25°	146.8	162.6	185.3	220.1	346.0	905.2	1878.0	2990.7	3377.2	3489.2
27.5°	130.3	144.9	164.5	194.2	266.3	721.1	1948.3	3323.4	3747.2	3838.3
30°	115.1	127.1	146.1	168.9	221.4	556.0	1983.7	3614.4	4016.7	4117.9
32.5°	99.9	111.3	129.7	148.0	182.2	423.8	1959.0	3828.2	4278.6	4343.1
35°	85.4	97.4	112.6	129.7	157.5	342.2	1835.7	4068.6	4549.9	4600.5
37.5°	73.4	83.5	99.3	112.6	142.3	273.9	1686.4	4284.9	4854.2	4926.9
40°	62.0	72.1	87.9	99.9	130.9	215.7	1551.6	4525.3	5174.9	5264.7
42.5°	50.6	62.6	76.5	96.1	112.6	164.5	1388.4	4720.1	5415.9	5528.5
45°	40.5	53.8	68.9	95.5	98.0	125.2	1230.9	4871.9	5629.1	5730.3
47.5°	32.3	45.5	66.4	89.2	80.3	99.3	1141.1	5030.7	5806.2	5887.2
50°	25.9	38.0	69.6	78.4	67.1	84.1	1138.6	5207.8	5897.9	5951.7
52.5°	20.9	31.0	58.8	60.1	56.9	74.0	1206.9	5407.0	5991.5	6035.8
55°	17.7	25.9	38.6	44.3	51.2	67.1	1258.1	5713.8	6214.8	6256.6
57.5°	13.9	22.1	29.7	35.4	45.5	61.4	1265.1	5950.4	6497.6	6524.8
59°	12.0	19.0	26.6	31.6	41.7	57.6	1236.6	5965.0	6515.9	6559.6
60°	10.1	17.1	23.4	29.7	38.6	54.4	1205.6	5859.3	6447.6	6496.3
62.5°	7.6	13.3	17.1	24.0	31.6	46.8	1058.9	5490.5	6186.3	6220.5
65°	5.1	9.5	12.7	17.7	24.7	40.5	862.8	5012.3	5782.8	5859.3
67.5°	3.2	7.0	10.1	13.3	20.2	34.2	614.8	4298.2	5217.9	5267.3
70°	1.9	4.4	7.6	10.8	15.8	27.2	365.0	3397.4	4341.2	4351.3
72.5°	1.3	3.2	5.1	7.6	12.7	24.7	177.1	2214.6	3169.7	3290.5
75°	0.6	1.9	3.2	5.7	10.1	20.2	84.8	1479.5	2306.3	2341.1
77.5°	0.0	0.6	1.9	3.8	7.6	15.8	49.3	971.6	1572.5	1608.6
80°	0.0	0.0	1.3	3.2	5.7	10.1	29.7	573.1	952.6	970.3
82.5°	0.0	0.0	0.6	2.5	3.8	7.6	15.2	251.8	623.7	630.0
85°	0.0	0.0	0.6	2.5	3.2	5.1	5.7	34.2	277.1	282.1
87.5°	0.0	0.0	0.6	3.2	3.2	3.2	3.2	1.9	23.4	29.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)