

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: P452232

Luminaire Tested: **GALN-SA3A-830-U-SLL-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P452232
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-SA3A-830-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3000K, 615mA 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: 7791 lumens
Efficiency: N/A
Efficacy: 83.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

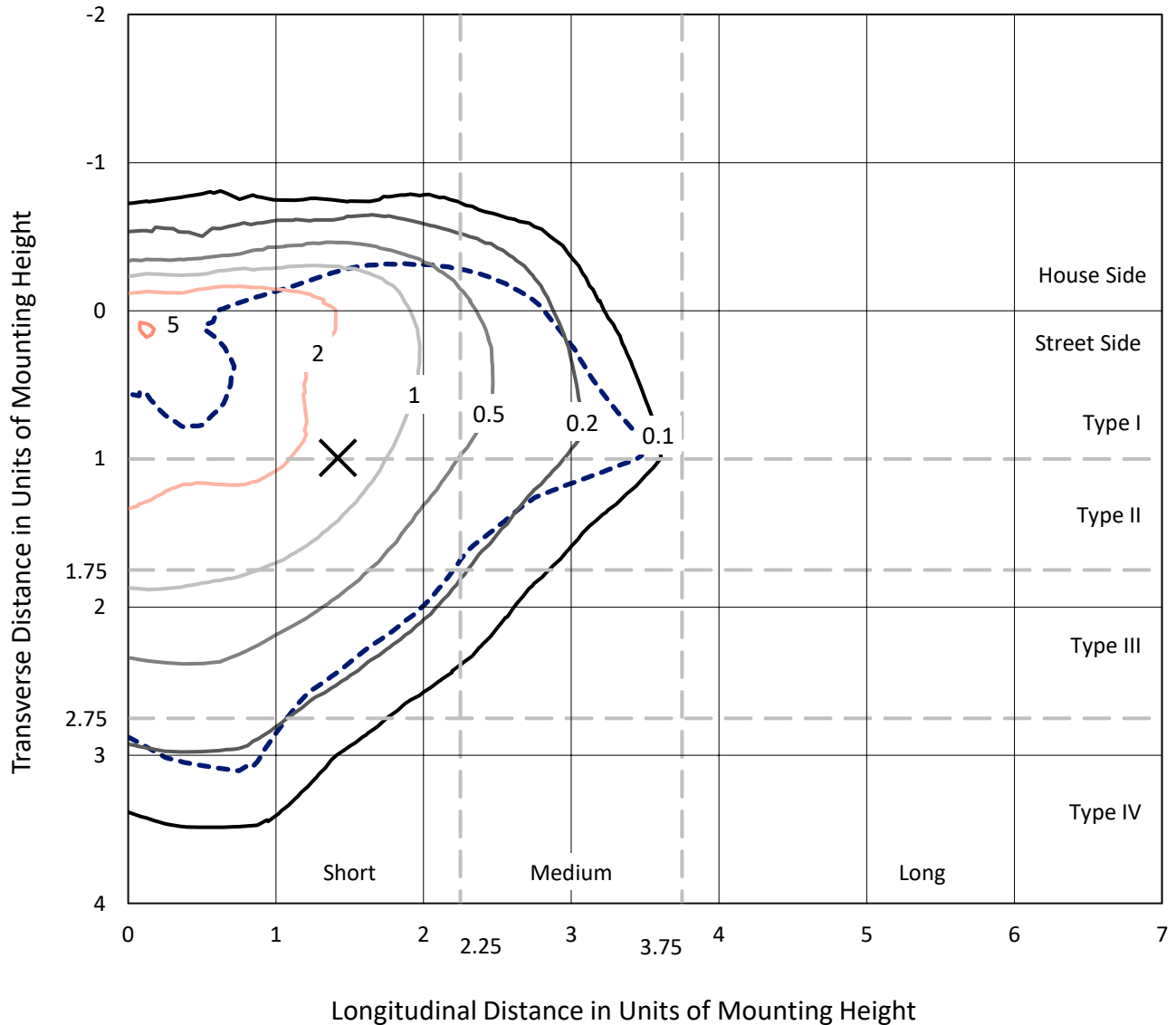
Input Watts (W): 93
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

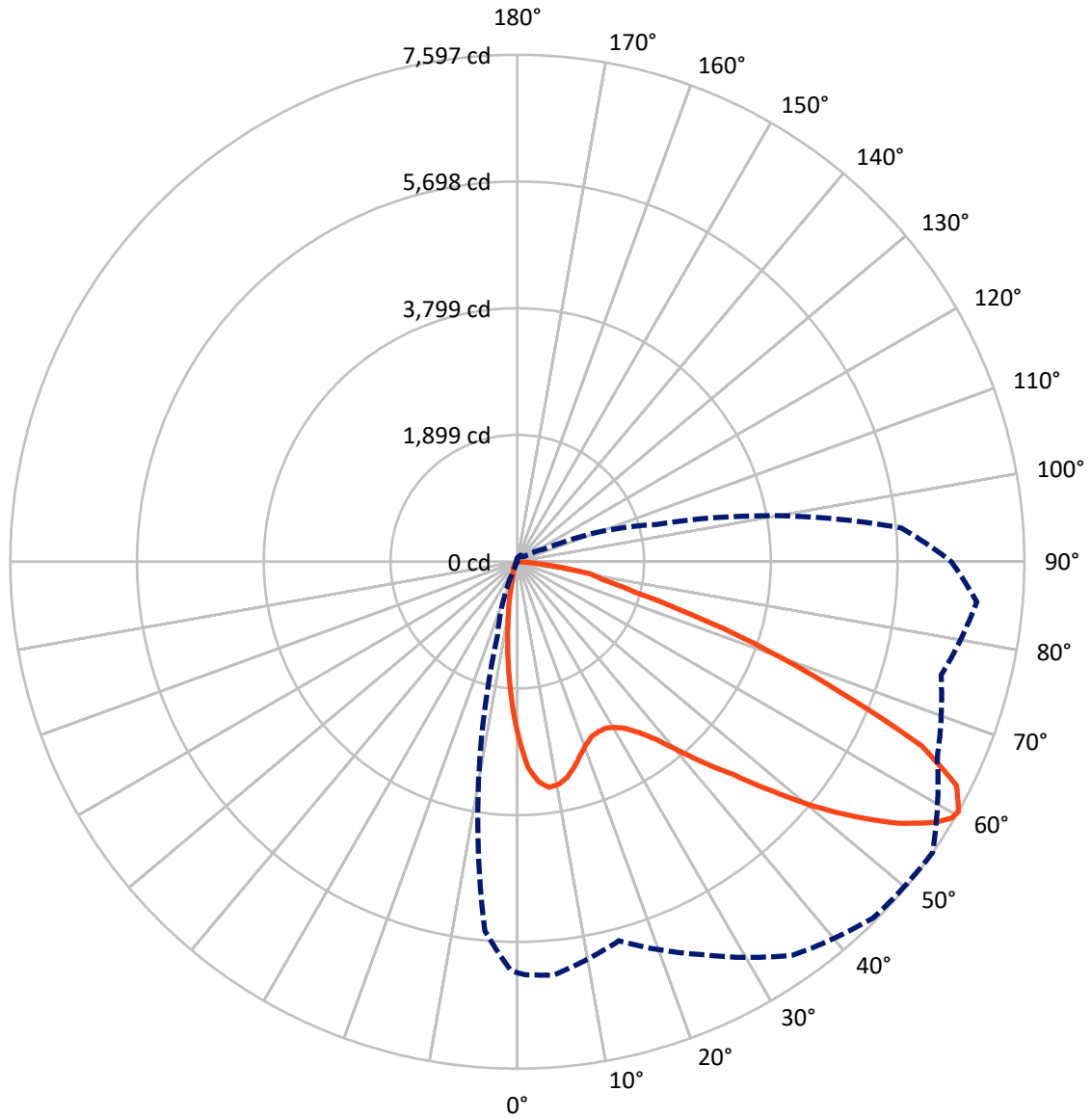
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.4 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	1156.3	0.0	1156.3
	% Fixture	14.8	0.0	14.8
Street Side	Lumens	6634.8	0.0	6634.8
	% Fixture	85.2	0.0	85.2
Total	Lumens	7791.0	0.0	7791.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	195.3	2.5
10°-20°	384.7	4.9
20°-30°	569.4	7.3
30°-40°	848.8	10.9
40°-50°	1243.0	16.0
50°-60°	1794.5	23.0
60°-70°	1887.8	24.2
70°-80°	776.6	10.0
80°-90°	91.0	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°	7791.0	100.0
0°-180°	7791.0	100.0

Coefficient of Utilization



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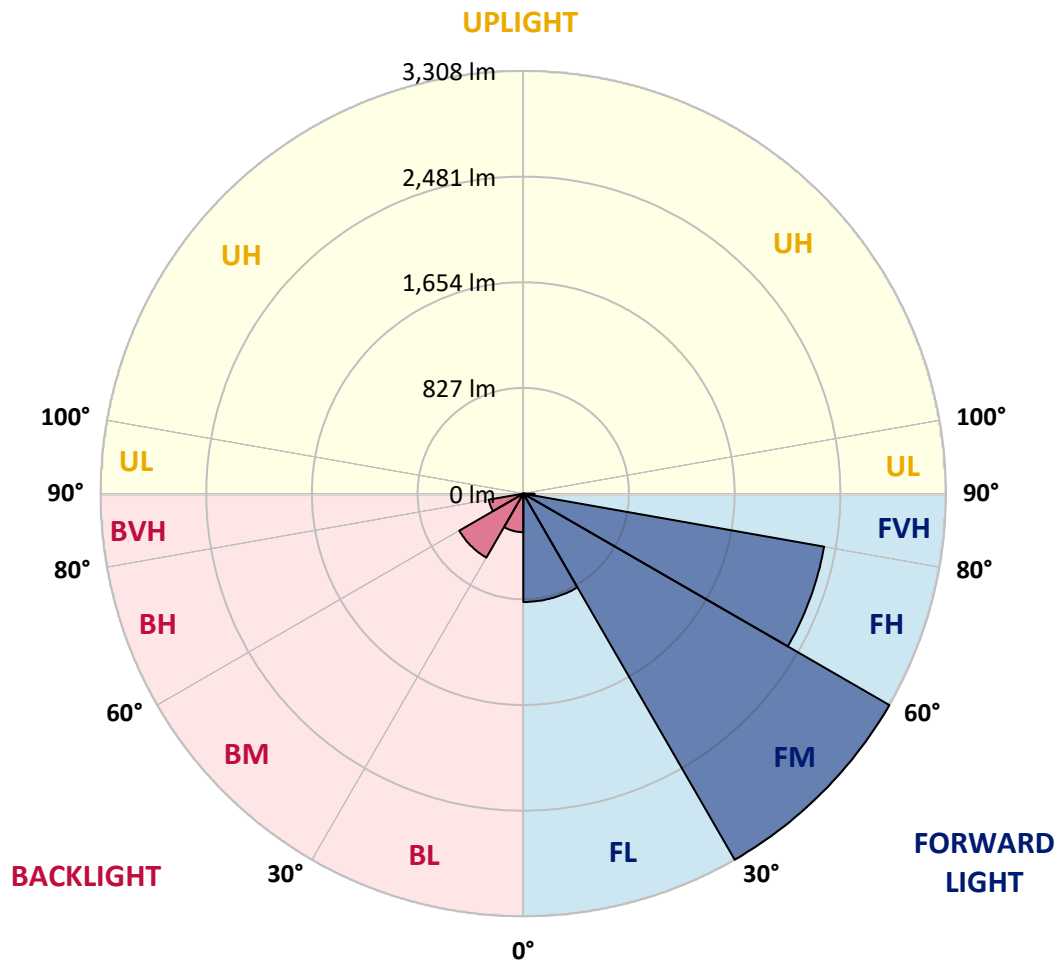
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	847.8	10.9			
FM (30°-60°)	3308.1	42.5			
FH (60°-80°)	2390.6	30.7			G2/5000
FVH (80°-90°)	88.3	1.1			G1/100
BL (0°-30°)	301.7	3.9	B1/500		
BM (30°-60°)	578.2	7.4	B1/1000		
BH (60°-80°)	273.7	3.5	B1/500		G1/500
BVH (80°-90°)	2.7	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-G2

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	2638.0	2638.0	2638.0	2638.0	2638.0	2638.0	2638.0	2638.0	2638.0	2638.0	2638.0
2.5°	2882.1	2877.3	2919.9	2989.4	3059.6	3096.2	3089.0	3086.0	3027.8	2985.2	2895.9
5°	2876.1	2900.7	2976.8	3165.1	3307.9	3376.8	3397.2	3311.5	3198.1	3033.8	2831.1
7.5°	2704.0	2734.6	2858.7	3153.1	3406.8	3556.7	3551.3	3414.0	3180.1	2925.9	2636.8
10°	2490.5	2526.5	2672.2	3029.6	3358.8	3556.7	3567.5	3393.6	3102.8	2776.5	2472.5
12.5°	2340.0	2382.5	2543.9	2914.5	3235.3	3430.2	3442.8	3316.9	3044.6	2719.0	2383.1
15°	2289.0	2329.2	2492.9	2856.3	3104.0	3208.9	3205.9	3192.7	3021.8	2732.8	2387.9
17.5°	2376.5	2409.5	2594.2	2882.7	2981.0	2970.2	2985.8	3049.4	3026.6	2848.5	2539.1
20°	2602.6	2636.2	2834.7	2963.6	2886.9	2818.5	2825.7	2931.9	3071.0	3066.2	2775.3
22.5°	2913.9	2970.8	3150.7	3120.8	2874.3	2724.4	2709.4	2847.3	3146.5	3316.9	3094.4
25°	3307.9	3365.4	3505.8	3371.4	2936.1	2702.2	2688.4	2821.5	3238.3	3561.5	3453.6
27.5°	3638.9	3682.7	3822.4	3615.5	3027.2	2711.8	2689.0	2825.1	3312.7	3769.6	3756.4
30°	3903.9	3936.3	4018.5	3729.4	3105.8	2753.8	2727.4	2877.9	3345.6	3871.0	4001.7
32.5°	4117.4	4172.0	4197.8	3851.2	3218.5	2832.9	2787.9	2979.2	3426.0	3996.3	4259.0
35°	4361.5	4424.5	4391.5	3967.5	3367.2	2956.4	2901.3	3143.5	3547.7	4112.0	4557.6
37.5°	4670.9	4743.5	4614.6	4089.8	3524.3	3142.3	3116.6	3374.4	3732.4	4277.5	4877.8
40°	4991.2	5033.1	4831.1	4238.6	3717.4	3412.8	3437.4	3717.4	3974.1	4476.0	5218.5
42.5°	5241.2	5280.8	5053.5	4363.3	3914.7	3733.6	3836.2	4131.2	4251.2	4679.3	5472.7
45°	5432.5	5466.1	5207.7	4499.4	4181.0	4198.4	4392.1	4557.6	4528.8	4803.5	5668.8
47.5°	5581.3	5610.0	5326.4	4645.8	4579.8	4766.9	5063.1	5133.3	4816.7	4937.8	5846.3
50°	5642.4	5650.8	5363.6	4832.3	5032.6	5491.3	5800.1	5757.6	5146.5	5087.1	6035.2
52.5°	5722.2	5720.4	5469.7	5009.8	5458.3	6139.0	6447.2	6350.7	5519.5	5310.8	6247.5
55°	5931.5	5933.9	5697.0	5261.6	5821.1	6661.9	6991.7	6921.6	5912.9	5688.6	6495.2
57.5°	6185.7	6194.7	6020.2	5556.1	6167.8	7040.9	7398.3	7371.3	6444.8	6109.0	6729.1
59°	6218.7	6236.7	6173.1	5763.6	6373.4	7157.2	7537.4	7563.8	6729.7	6386.0	6855.6
60°	6158.8	6188.7	6217.5	5881.1	6494.0	7199.2	7545.8	7597.4	6943.7	6574.3	6913.2
62.5°	5897.3	5944.7	6089.2	6242.7	6644.5	7068.5	7277.8	7385.7	7208.8	7069.1	6918.6
65°	5554.9	5579.5	5788.2	6306.9	6352.5	6458.0	6522.8	6661.3	6890.4	7259.8	6670.9
67.5°	4993.6	5066.1	5321.6	5934.5	5490.7	5366.0	5349.8	5211.9	5806.7	6805.2	6060.4
70°	4125.2	4157.6	4472.4	4865.2	4143.8	3951.9	4028.7	3977.1	4501.2	5858.3	4877.8
72.5°	3119.6	3192.7	3500.4	3878.2	2819.7	2570.8	2782.5	2763.3	3381.0	4708.1	3351.0
75°	2219.4	2266.8	2659.0	3035.0	1974.8	1673.1	1749.3	1820.6	2360.4	3717.4	1980.2
77.5°	1525.0	1565.8	1860.2	2007.1	1440.4	1379.9	1262.3	1331.3	1546.6	2205.6	1077.6
80°	919.9	918.1	1111.8	1147.8	1003.3	1165.2	977.5	1097.4	934.9	943.9	417.4
82.5°	597.3	591.3	680.0	741.2	558.3	587.1	394.0	567.9	609.3	263.3	131.9
85°	267.5	278.9	326.8	431.2	244.7	130.1	80.4	174.5	259.7	132.5	0.0
87.5°	27.6	21.6	57.6	104.9	33.6	3.6	12.0	6.0	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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2638.0	2638.0	2638.0	2638.0	2638.0	2638.0	2638.0	2638.0	2638.0	2638.0	2638.0
2.5°	2854.5	2819.7	2716.0	2618.8	2535.5	2433.5	2367.6	2263.8	2200.8	2181.7	2184.6
5°	2740.0	2639.8	2442.5	2284.8	2109.1	2008.9	1856.6	1710.3	1631.1	1601.8	1588.6
7.5°	2500.1	2392.7	2154.7	1907.0	1718.7	1543.0	1429.6	1300.7	1212.6	1140.0	1127.4
10°	2322.0	2181.1	1886.0	1619.7	1471.0	1339.1	1225.8	1096.8	993.1	910.3	887.5
12.5°	2215.2	2057.5	1728.3	1505.2	1364.3	1228.8	1081.2	931.9	825.8	736.4	695.0
15°	2196.0	2013.1	1683.9	1423.1	1249.1	1085.4	889.3	728.0	618.9	534.3	508.5
17.5°	2311.8	2092.9	1677.3	1337.3	1098.6	866.5	662.7	528.9	406.0	358.6	340.0
20°	2518.1	2233.8	1676.7	1237.7	943.9	667.4	465.4	344.8	295.0	272.3	261.5
22.5°	2799.3	2425.7	1708.5	1152.0	783.2	492.3	332.2	274.7	245.9	227.3	223.1
25°	3142.9	2710.0	1786.5	1093.8	660.3	386.2	274.1	235.1	211.1	202.7	199.1
27.5°	3448.2	2982.2	1872.2	1033.9	572.1	341.8	254.3	215.3	196.1	189.5	184.1
30°	3711.4	3229.3	1913.6	954.7	501.3	313.0	257.9	230.3	205.1	185.3	176.3
32.5°	3930.9	3418.8	1940.6	882.7	441.4	256.1	203.9	178.1	166.7	159.5	153.5
35°	4205.6	3623.9	1924.4	842.0	410.8	233.3	185.9	153.5	134.3	119.9	113.9
37.5°	4493.4	3829.0	1896.2	808.4	397.0	216.5	176.9	145.7	124.7	109.7	101.9
40°	4791.5	4019.1	1863.2	777.2	384.4	205.7	171.5	139.1	118.1	101.9	93.6
42.5°	5064.3	4204.4	1850.0	756.8	364.0	207.5	167.3	136.1	111.5	94.8	87.6
45°	5285.0	4380.1	1868.0	746.0	341.8	204.5	168.5	132.5	106.1	90.0	82.8
47.5°	5520.7	4628.4	1926.2	735.2	320.2	190.1	177.5	131.9	103.7	87.0	79.2
50°	5794.7	4946.2	2059.3	708.8	293.8	174.5	188.9	131.3	100.7	83.4	75.6
52.5°	6160.0	5307.2	2196.6	662.7	255.5	159.5	180.5	129.5	94.8	79.2	71.4
55°	6488.0	5687.4	2313.0	608.1	206.9	137.9	162.5	121.7	84.6	72.0	64.8
57.5°	6623.5	5902.1	2309.4	532.5	165.5	121.1	133.7	111.5	73.8	63.6	57.6
59°	6573.7	5875.1	2232.0	476.7	151.1	112.1	110.9	110.3	69.0	57.6	52.8
60°	6503.6	5776.8	2148.7	449.2	142.1	106.1	101.9	109.1	64.8	54.0	49.2
62.5°	6234.9	5369.0	1872.2	402.4	130.1	90.0	81.6	92.4	57.6	46.8	42.6
65°	5845.7	4742.3	1585.0	389.2	126.5	74.4	67.8	66.0	49.2	39.6	36.0
67.5°	5086.5	4013.1	1283.9	380.2	127.7	62.4	59.4	49.8	40.8	33.0	30.6
70°	4072.5	3129.2	1051.2	370.0	128.9	51.0	49.8	39.6	33.0	27.6	25.2
72.5°	2474.3	1854.8	827.6	321.4	125.3	40.8	44.4	30.0	24.0	19.8	18.6
75°	1529.8	1269.5	513.3	250.1	82.8	30.0	31.2	18.6	16.2	12.6	12.6
77.5°	886.3	801.8	183.5	90.0	36.6	18.0	13.8	9.6	9.0	5.4	5.4
80°	367.6	294.4	63.6	30.6	19.8	8.4	3.0	0.6	0.0	0.0	0.0
82.5°	107.3	95.3	17.4	13.8	6.0	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):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	2638.0	2638.0	2638.0	2638.0	2638.0	2638.0	2638.0	2638.0	2638.0	2638.0	2638.0
2.5°	2133.7	2113.9	2104.9	2135.5	2107.3	2143.3	2115.7	2127.7	2163.1	2178.7	2218.8
5°	1597.0	1576.6	1567.0	1613.2	1610.8	1633.5	1631.1	1652.1	1670.1	1629.9	1671.3
7.5°	1112.4	1098.6	1121.4	1157.4	1195.8	1183.2	1183.2	1155.0	1164.6	1158.6	1156.8
10°	846.2	798.8	786.8	785.6	800.0	803.0	786.8	747.8	762.2	766.4	791.6
12.5°	665.6	629.1	573.3	548.1	541.5	546.9	493.5	459.4	475.5	466.0	490.5
15°	477.3	447.4	414.4	386.2	378.4	367.6	309.4	268.7	263.9	265.7	269.9
17.5°	340.6	320.2	320.2	290.2	274.1	241.7	212.3	194.3	192.5	194.3	197.3
20°	251.3	240.5	239.3	231.5	213.5	191.9	171.5	167.9	166.7	169.7	170.9
22.5°	216.5	205.1	195.5	194.9	178.1	160.1	150.5	145.7	146.3	147.5	150.5
25°	193.7	181.7	171.5	165.5	153.5	140.9	131.9	129.5	129.5	131.3	131.9
27.5°	177.5	162.5	153.5	145.1	134.3	123.5	115.7	113.9	112.7	113.9	116.9
30°	166.1	151.1	139.7	127.1	118.7	108.5	101.9	99.5	98.9	99.5	101.9
32.5°	142.1	133.1	124.1	112.7	102.5	95.9	88.8	84.6	84.6	85.8	88.2
35°	107.3	102.5	101.9	98.9	90.6	83.4	75.0	70.8	70.8	73.2	74.4
37.5°	94.8	85.8	84.6	83.4	79.8	70.2	62.4	58.8	58.2	60.0	62.4
40°	86.4	76.2	70.8	69.6	70.2	59.4	51.0	47.4	47.4	48.0	50.4
42.5°	79.8	67.8	58.2	57.0	59.4	49.8	41.4	37.8	37.8	37.8	40.8
45°	74.4	60.6	49.2	43.2	46.8	40.8	33.6	30.0	28.8	30.0	31.2
47.5°	70.8	55.2	43.2	34.8	34.8	32.4	27.0	22.8	21.6	22.2	24.0
50°	67.8	50.4	36.6	28.2	25.2	25.8	20.4	17.4	16.2	16.2	18.0
52.5°	63.0	45.6	31.8	24.0	19.2	17.4	15.0	12.6	12.0	12.6	13.8
55°	57.0	41.4	27.6	19.8	15.0	12.0	10.8	9.0	8.4	9.0	10.8
57.5°	50.4	34.8	22.2	15.6	10.2	7.8	7.2	6.0	4.8	5.4	6.6
59°	46.2	31.2	19.2	12.6	7.8	5.4	5.4	4.2	3.0	3.6	5.4
60°	44.4	28.8	16.2	10.8	6.6	4.2	4.2	3.0	1.8	2.4	4.2
62.5°	37.8	24.0	12.6	6.6	3.0	0.6	1.8	0.6	0.0	0.6	1.8
65°	31.8	19.2	8.4	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6
67.5°	26.4	14.4	4.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	21.0	9.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	14.4	5.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	9.0	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	3.6	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°	2638.0	2638.0	2638.0	2638.0	2638.0	2638.0	2638.0	2638.0	2638.0	2638.0
2.5°	2221.2	2307.0	2359.8	2459.3	2561.3	2639.8	2738.2	2826.3	2862.9	2882.1
5°	1713.3	1832.6	1934.0	2085.7	2226.6	2398.1	2572.0	2777.1	2855.7	2876.1
7.5°	1202.4	1324.1	1430.2	1606.0	1806.8	2036.5	2296.8	2557.1	2671.6	2704.0
10°	868.3	998.5	1128.0	1303.7	1491.4	1740.3	2011.3	2333.4	2465.3	2490.5
12.5°	548.1	687.8	898.3	1115.4	1313.9	1514.2	1797.9	2148.1	2293.8	2340.0
15°	317.8	422.2	581.1	864.1	1116.6	1381.7	1691.1	2078.5	2241.6	2289.0
17.5°	212.9	248.9	358.0	574.5	907.9	1259.3	1664.1	2135.5	2316.0	2376.5
20°	179.3	195.5	233.9	350.2	699.2	1150.2	1671.3	2290.2	2527.1	2602.6
22.5°	157.7	172.7	197.3	251.9	488.1	1014.7	1705.5	2511.5	2817.3	2913.9
25°	139.1	154.1	175.7	208.7	328.0	858.1	1780.5	2835.3	3201.7	3307.9
27.5°	123.5	137.3	155.9	184.1	252.5	683.6	1847.0	3150.7	3552.5	3638.9
30°	109.1	120.5	138.5	160.1	209.9	527.1	1880.6	3426.6	3808.0	3903.9
32.5°	94.8	105.5	122.9	140.3	172.7	401.8	1857.2	3629.3	4056.3	4117.4
35°	81.0	92.4	106.7	122.9	149.3	324.4	1740.3	3857.2	4313.5	4361.5
37.5°	69.6	79.2	94.2	106.7	134.9	259.7	1598.8	4062.3	4602.0	4670.9
40°	58.8	68.4	83.4	94.8	124.1	204.5	1471.0	4290.1	4906.0	4991.2
42.5°	48.0	59.4	72.6	91.2	106.7	155.9	1316.3	4474.8	5134.5	5241.2
45°	38.4	51.0	65.4	90.6	93.0	118.7	1167.0	4618.8	5336.6	5432.5
47.5°	30.6	43.2	63.0	84.6	76.2	94.2	1081.8	4769.3	5504.5	5581.3
50°	24.6	36.0	66.0	74.4	63.6	79.8	1079.4	4937.2	5591.5	5642.4
52.5°	19.8	29.4	55.8	57.0	54.0	70.2	1144.2	5126.1	5680.2	5722.2
55°	16.8	24.6	36.6	42.0	48.6	63.6	1192.8	5416.9	5891.9	5931.5
57.5°	13.2	21.0	28.2	33.6	43.2	58.2	1199.4	5641.2	6160.0	6185.7
59°	11.4	18.0	25.2	30.0	39.6	54.6	1172.4	5655.0	6177.3	6218.7
60°	9.6	16.2	22.2	28.2	36.6	51.6	1143.0	5554.9	6112.6	6158.8
62.5°	7.2	12.6	16.2	22.8	30.0	44.4	1003.9	5205.3	5864.9	5897.3
65°	4.8	9.0	12.0	16.8	23.4	38.4	818.0	4751.9	5482.3	5554.9
67.5°	3.0	6.6	9.6	12.6	19.2	32.4	582.9	4074.9	4946.8	4993.6
70°	1.8	4.2	7.2	10.2	15.0	25.8	346.0	3220.9	4115.6	4125.2
72.5°	1.2	3.0	4.8	7.2	12.0	23.4	167.9	2099.5	3005.0	3119.6
75°	0.6	1.8	3.0	5.4	9.6	19.2	80.4	1402.7	2186.4	2219.4
77.5°	0.0	0.6	1.8	3.6	7.2	15.0	46.8	921.1	1490.8	1525.0
80°	0.0	0.0	1.2	3.0	5.4	9.6	28.2	543.3	903.1	919.9
82.5°	0.0	0.0	0.6	2.4	3.6	7.2	14.4	238.7	591.3	597.3
85°	0.0	0.0	0.6	2.4	3.0	4.8	5.4	32.4	262.7	267.5
87.5°	0.0	0.0	0.6	3.0	3.0	3.0	3.0	1.8	22.2	27.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)