

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: P451391

Luminaire Tested: **GALN-SA2B-730-U-SLL-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P451391
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-730-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3000K, 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: 7484 lumens
Efficiency: N/A
Efficacy: 91.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

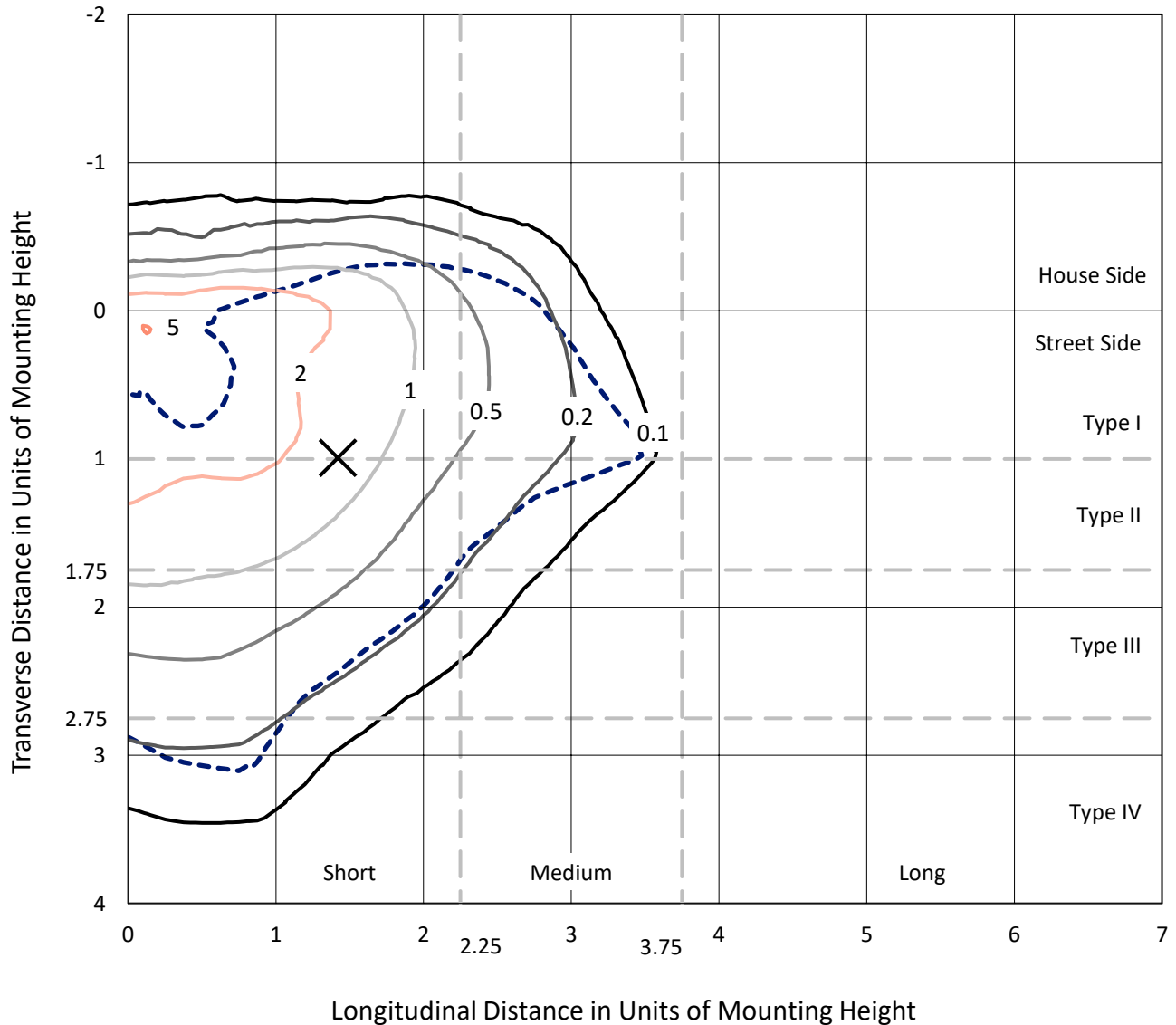
Input Watts (W): 82
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

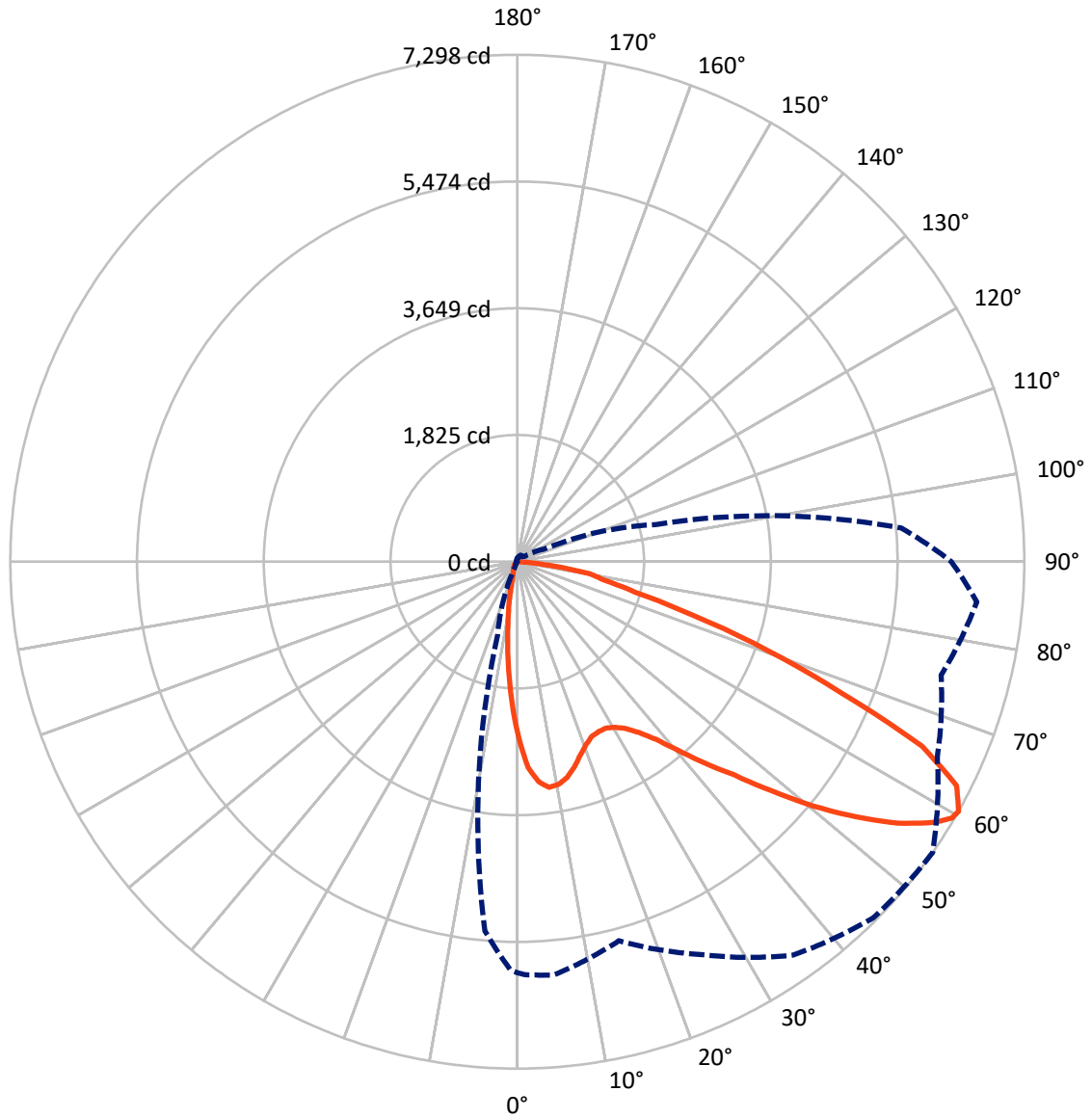
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.2 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	1110.7	0.0	1110.7
	% Fixture	14.8	0.0	14.8
Street Side	Lumens	6373.3	0.0	6373.3
	% Fixture	85.2	0.0	85.2
Total	Lumens	7484.0	0.0	7484.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	187.7	2.5
10°-20°	369.5	4.9
20°-30°	547.0	7.3
30°-40°	815.3	10.9
40°-50°	1194.0	16.0
50°-60°	1723.8	23.0
60°-70°	1813.4	24.2
70°-80°	746.0	10.0
80°-90°	87.4	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°	7484.0	100.0
0°-180°	7484.0	100.0

Coefficient of Utilization



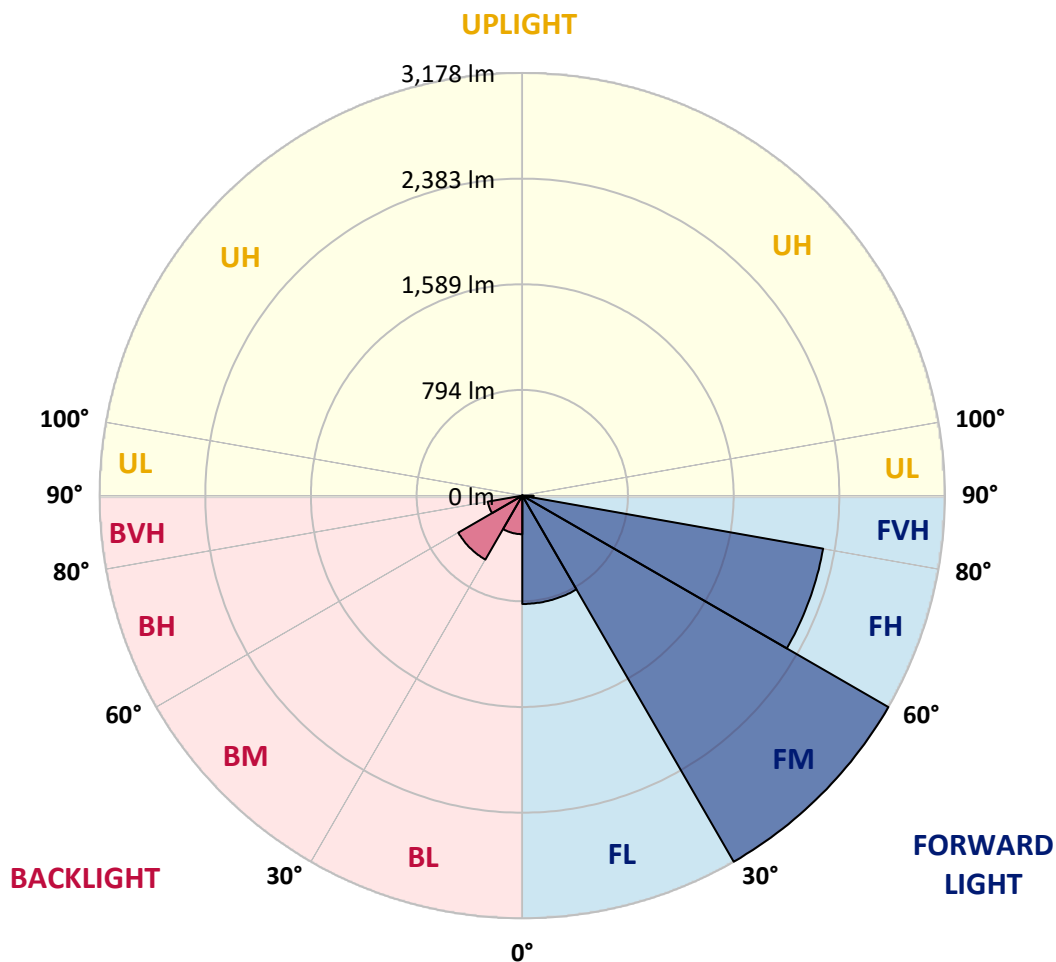
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	814.4	10.9			
FM (30°-60°)	3177.7	42.5			
FH (60°-80°)	2296.4	30.7			G2/5000
FVH (80°-90°)	84.8	1.1			G1/100
BL (0°-30°)	289.8	3.9	B1/500		
BM (30°-60°)	555.4	7.4	B1/1000		
BH (60°-80°)	262.9	3.5	B1/500		G1/500
BVH (80°-90°)	2.6	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°	2534.1	2534.1	2534.1	2534.1	2534.1	2534.1	2534.1	2534.1	2534.1	2534.1	2534.1
2.5°	2768.5	2763.9	2804.8	2871.6	2939.0	2974.2	2967.3	2964.4	2908.5	2867.6	2781.8
5°	2762.8	2786.4	2859.5	3040.4	3177.5	3243.8	3263.3	3181.0	3072.1	2914.3	2719.6
7.5°	2597.4	2626.8	2746.0	3028.9	3272.6	3416.6	3411.4	3279.5	3054.8	2810.6	2532.9
10°	2392.4	2426.9	2566.9	2910.2	3226.5	3416.6	3426.9	3259.9	2980.5	2667.1	2375.1
12.5°	2247.8	2288.7	2443.6	2799.6	3107.8	3295.0	3307.1	3186.2	2924.6	2611.8	2289.2
15°	2198.8	2237.4	2394.7	2743.7	2981.7	3082.5	3079.6	3066.9	2902.7	2625.1	2293.8
17.5°	2282.9	2314.6	2492.0	2769.1	2863.6	2853.2	2868.2	2929.2	2907.3	2736.3	2439.0
20°	2500.1	2532.3	2723.0	2846.9	2773.1	2707.5	2714.4	2816.3	2950.0	2945.4	2666.0
22.5°	2799.0	2853.8	3026.6	2997.8	2761.0	2617.0	2602.6	2735.1	3022.6	3186.2	2972.4
25°	3177.5	3232.8	3367.6	3238.6	2820.4	2595.7	2582.5	2710.3	3110.7	3421.2	3317.5
27.5°	3495.5	3537.5	3671.8	3473.0	2907.9	2604.9	2583.0	2713.8	3182.1	3621.1	3608.4
30°	3750.1	3781.2	3860.1	3582.5	2983.4	2645.2	2619.9	2764.5	3213.8	3718.4	3844.0
32.5°	3955.2	4007.6	4032.4	3699.4	3091.7	2721.3	2678.1	2861.8	3291.0	3838.8	4091.1
35°	4189.6	4250.1	4218.4	3811.2	3234.5	2839.9	2786.9	3019.7	3407.9	3950.0	4378.0
37.5°	4486.9	4556.6	4432.7	3928.7	3385.5	3018.5	2993.8	3241.5	3585.4	4109.0	4685.6
40°	4794.5	4834.8	4640.7	4071.5	3571.0	3278.3	3301.9	3571.0	3817.5	4299.7	5012.8
42.5°	5034.7	5072.7	4854.4	4191.4	3760.5	3586.5	3685.0	3968.4	4083.6	4494.9	5257.1
45°	5218.5	5250.7	5002.5	4322.1	4016.2	4033.0	4219.0	4378.0	4350.4	4614.2	5445.4
47.5°	5361.3	5389.0	5116.5	4462.7	4399.3	4579.1	4863.6	4931.0	4626.9	4743.2	5616.0
50°	5420.1	5428.2	5152.2	4641.8	4834.2	5274.9	5571.6	5530.7	4943.7	4886.7	5797.4
52.5°	5496.7	5495.0	5254.2	4812.4	5243.2	5897.1	6193.2	6100.4	5302.0	5101.5	6001.3
55°	5697.8	5700.1	5472.5	5054.3	5591.8	6399.4	6716.2	6648.8	5679.9	5464.4	6239.2
57.5°	5942.0	5950.6	5783.0	5337.1	5924.7	6763.5	7106.8	7080.9	6190.9	5868.3	6463.9
59°	5973.7	5991.0	5929.9	5536.5	6122.3	6875.2	7240.4	7265.8	6464.5	6134.4	6585.4
60°	5916.1	5944.9	5972.5	5649.4	6238.1	6915.5	7248.5	7298.0	6670.1	6315.3	6640.8
62.5°	5664.9	5710.4	5849.3	5996.7	6382.7	6789.9	6991.0	7094.7	6924.7	6790.5	6645.9
65°	5336.0	5359.6	5560.1	6058.4	6102.1	6203.5	6265.7	6398.8	6618.9	6973.7	6408.0
67.5°	4796.8	4866.5	5111.9	5700.6	5274.4	5154.5	5139.0	5006.5	5577.9	6537.1	5821.6
70°	3962.7	3993.8	4296.2	4673.5	3980.5	3796.2	3869.9	3820.4	4323.9	5627.5	4685.6
72.5°	2996.6	3066.9	3362.4	3725.3	2708.6	2469.5	2672.9	2654.5	3247.8	4522.6	3219.0
75°	2132.0	2177.5	2554.2	2915.4	1896.9	1607.2	1680.3	1748.9	2267.3	3571.0	1902.1
77.5°	1464.9	1504.1	1786.9	1928.1	1383.7	1325.5	1212.6	1278.8	1485.6	2118.7	1035.2
80°	883.7	881.9	1068.0	1102.6	963.7	1119.3	939.0	1054.2	898.1	906.7	400.9
82.5°	573.7	568.0	653.2	712.0	536.3	564.0	378.5	545.5	585.3	252.9	126.7
85°	256.9	267.9	313.9	414.2	235.0	125.0	77.2	167.6	249.4	127.3	0.0
87.5°	26.5	20.7	55.3	100.8	32.3	3.5	11.5	5.8	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°	2534.1	2534.1	2534.1	2534.1	2534.1	2534.1	2534.1	2534.1	2534.1	2534.1	2534.1
2.5°	2742.0	2708.6	2608.9	2515.6	2435.6	2337.6	2274.3	2174.6	2114.1	2095.7	2098.6
5°	2632.0	2535.8	2346.3	2194.8	2026.0	1929.8	1783.5	1642.9	1566.9	1538.6	1526.0
7.5°	2401.6	2298.5	2069.8	1831.9	1651.0	1482.2	1373.3	1249.5	1164.8	1095.1	1083.0
10°	2230.5	2095.1	1811.7	1555.9	1413.1	1286.3	1177.5	1053.6	953.9	874.5	852.6
12.5°	2127.9	1976.4	1660.2	1445.9	1310.5	1180.3	1038.6	895.2	793.2	707.4	667.6
15°	2109.5	1933.8	1617.6	1367.0	1199.9	1042.7	854.3	699.3	594.5	513.3	488.5
17.5°	2220.7	2010.4	1611.2	1284.6	1055.3	832.4	636.5	508.1	390.0	344.5	326.6
20°	2418.9	2145.8	1610.6	1189.0	906.7	641.1	447.0	331.2	283.4	261.5	251.2
22.5°	2689.0	2330.1	1641.2	1106.6	752.3	472.9	319.1	263.8	236.2	218.3	214.3
25°	3019.1	2603.2	1716.1	1050.7	634.2	371.0	263.3	225.8	202.8	194.7	191.2
27.5°	3312.3	2864.7	1798.4	993.1	549.6	328.4	244.2	206.8	188.4	182.0	176.8
30°	3565.2	3102.1	1838.2	917.1	481.6	300.7	247.7	221.2	197.0	178.0	169.4
32.5°	3776.0	3284.1	1864.1	848.0	424.0	246.0	195.9	171.1	160.1	153.2	147.5
35°	4039.9	3481.1	1848.6	808.8	394.6	224.1	178.6	147.5	129.0	115.2	109.5
37.5°	4316.4	3678.1	1821.5	776.5	381.3	208.0	169.9	140.0	119.8	105.4	97.9
40°	4602.7	3860.7	1789.8	746.6	369.3	197.6	164.8	133.6	113.5	97.9	89.9
42.5°	4864.8	4038.7	1777.1	727.0	349.7	199.3	160.7	130.8	107.1	91.0	84.1
45°	5076.8	4207.5	1794.4	716.6	328.4	196.4	161.9	127.3	102.0	86.4	79.5
47.5°	5303.2	4446.0	1850.3	706.2	307.6	182.6	170.5	126.7	99.7	83.5	76.0
50°	5566.4	4751.3	1978.2	680.9	282.3	167.6	181.5	126.2	96.8	80.1	72.6
52.5°	5917.2	5098.1	2110.1	636.5	245.4	153.2	173.4	124.4	91.0	76.0	68.6
55°	6232.3	5463.3	2221.8	584.1	198.7	132.5	156.1	116.9	81.2	69.1	62.2
57.5°	6362.5	5669.5	2218.4	511.5	159.0	116.4	128.5	107.1	70.9	61.1	55.3
59°	6314.7	5643.6	2144.1	458.0	145.2	107.7	106.6	106.0	66.2	55.3	50.7
60°	6247.3	5549.1	2064.0	431.5	136.5	102.0	97.9	104.8	62.2	51.8	47.2
62.5°	5989.2	5157.4	1798.4	386.5	125.0	86.4	78.3	88.7	55.3	44.9	40.9
65°	5615.4	4555.4	1522.5	373.9	121.5	71.4	65.1	63.4	47.2	38.0	34.6
67.5°	4886.1	3855.0	1233.3	365.2	122.7	59.9	57.0	47.8	39.2	31.7	29.4
70°	3912.0	3005.8	1009.8	355.4	123.9	49.0	47.8	38.0	31.7	26.5	24.2
72.5°	2376.8	1781.7	795.0	308.8	120.4	39.2	42.6	28.8	23.0	19.0	17.9
75°	1469.5	1219.5	493.1	240.2	79.5	28.8	30.0	17.9	15.6	12.1	12.1
77.5°	851.4	770.2	176.3	86.4	35.1	17.3	13.2	9.2	8.6	5.2	5.2
80°	353.1	282.8	61.1	29.4	19.0	8.1	2.9	0.6	0.0	0.0	0.0
82.5°	103.1	91.6	16.7	13.2	5.8	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°	2534.1	2534.1	2534.1	2534.1	2534.1	2534.1	2534.1	2534.1	2534.1	2534.1	2534.1
2.5°	2049.6	2030.6	2021.9	2051.3	2024.3	2058.8	2032.3	2043.8	2077.8	2092.8	2131.4
5°	1534.0	1514.4	1505.2	1549.6	1547.3	1569.2	1566.9	1587.0	1604.3	1565.7	1605.5
7.5°	1068.6	1055.3	1077.2	1111.8	1148.7	1136.6	1136.6	1109.5	1118.7	1112.9	1111.2
10°	812.8	767.3	755.8	754.6	768.5	771.3	755.8	718.3	732.2	736.2	760.4
12.5°	639.4	604.3	550.7	526.5	520.2	525.4	474.1	441.3	456.8	447.6	471.2
15°	458.5	429.7	398.1	371.0	363.5	353.1	297.2	258.1	253.5	255.2	259.2
17.5°	327.2	307.6	307.6	278.8	263.3	232.1	203.9	186.6	184.9	186.6	189.5
20°	241.4	231.0	229.8	222.4	205.1	184.3	164.8	161.3	160.1	163.0	164.2
22.5°	208.0	197.0	187.8	187.2	171.1	153.8	144.6	140.0	140.6	141.7	144.6
25°	186.1	174.5	164.8	159.0	147.5	135.4	126.7	124.4	124.4	126.2	126.7
27.5°	170.5	156.1	147.5	139.4	129.0	118.7	111.2	109.5	108.3	109.5	112.3
30°	159.6	145.2	134.2	122.1	114.1	104.3	97.9	95.6	95.0	95.6	97.9
32.5°	136.5	127.9	119.2	108.3	98.5	92.2	85.3	81.2	81.2	82.4	84.7
35°	103.1	98.5	97.9	95.0	87.0	80.1	72.0	68.0	68.0	70.3	71.4
37.5°	91.0	82.4	81.2	80.1	76.6	67.4	59.9	56.5	55.9	57.6	59.9
40°	83.0	73.2	68.0	66.8	67.4	57.0	49.0	45.5	45.5	46.1	48.4
42.5°	76.6	65.1	55.9	54.7	57.0	47.8	39.7	36.3	36.3	36.3	39.2
45°	71.4	58.2	47.2	41.5	44.9	39.2	32.3	28.8	27.7	28.8	30.0
47.5°	68.0	53.0	41.5	33.4	33.4	31.1	25.9	21.9	20.7	21.3	23.0
50°	65.1	48.4	35.1	27.1	24.2	24.8	19.6	16.7	15.6	15.6	17.3
52.5°	60.5	43.8	30.5	23.0	18.4	16.7	14.4	12.1	11.5	12.1	13.2
55°	54.7	39.7	26.5	19.0	14.4	11.5	10.4	8.6	8.1	8.6	10.4
57.5°	48.4	33.4	21.3	15.0	9.8	7.5	6.9	5.8	4.6	5.2	6.3
59°	44.4	30.0	18.4	12.1	7.5	5.2	5.2	4.0	2.9	3.5	5.2
60°	42.6	27.7	15.6	10.4	6.3	4.0	4.0	2.9	1.7	2.3	4.0
62.5°	36.3	23.0	12.1	6.3	2.9	0.6	1.7	0.6	0.0	0.6	1.7
65°	30.5	18.4	8.1	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.6
67.5°	25.3	13.8	4.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	20.2	9.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	13.8	5.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	8.6	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	3.5	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°	2534.1	2534.1	2534.1	2534.1	2534.1	2534.1	2534.1	2534.1	2534.1	2534.1
2.5°	2133.7	2216.1	2266.8	2362.4	2460.3	2535.8	2630.3	2714.9	2750.1	2768.5
5°	1645.8	1760.4	1857.8	2003.5	2138.9	2303.6	2470.7	2667.7	2743.2	2762.8
7.5°	1155.0	1271.9	1373.9	1542.7	1735.7	1956.3	2206.3	2456.3	2566.3	2597.4
10°	834.1	959.1	1083.6	1252.3	1432.6	1671.7	1932.1	2241.4	2368.2	2392.4
12.5°	526.5	660.7	862.9	1071.5	1262.1	1454.5	1727.0	2063.4	2203.4	2247.8
15°	305.3	405.5	558.2	830.1	1072.6	1327.2	1624.5	1996.6	2153.3	2198.8
17.5°	204.5	239.1	343.9	551.9	872.1	1209.7	1598.5	2051.3	2224.7	2282.9
20°	172.2	187.8	224.7	336.4	671.7	1104.9	1605.5	2200.0	2427.5	2500.1
22.5°	151.5	165.9	189.5	241.9	468.9	974.7	1638.3	2412.5	2706.3	2799.0
25°	133.6	148.0	168.8	200.5	315.1	824.3	1710.3	2723.6	3075.6	3177.5
27.5°	118.7	131.9	149.8	176.8	242.5	656.7	1774.2	3026.6	3412.5	3495.5
30°	104.8	115.8	133.1	153.8	201.6	506.4	1806.5	3291.6	3657.9	3750.1
32.5°	91.0	101.4	118.1	134.8	165.9	386.0	1784.0	3486.3	3896.4	3955.2
35°	77.8	88.7	102.5	118.1	143.4	311.6	1671.7	3705.2	4143.6	4189.6
37.5°	66.8	76.0	90.4	102.5	129.6	249.4	1535.8	3902.2	4420.6	4486.9
40°	56.5	65.7	80.1	91.0	119.2	196.4	1413.1	4121.1	4712.7	4794.5
42.5°	46.1	57.0	69.7	87.6	102.5	149.8	1264.4	4298.5	4932.2	5034.7
45°	36.9	49.0	62.8	87.0	89.3	114.1	1121.0	4436.8	5126.3	5218.5
47.5°	29.4	41.5	60.5	81.2	73.2	90.4	1039.2	4581.4	5287.6	5361.3
50°	23.6	34.6	63.4	71.4	61.1	76.6	1036.9	4742.7	5371.1	5420.1
52.5°	19.0	28.2	53.6	54.7	51.8	67.4	1099.1	4924.1	5456.4	5496.7
55°	16.1	23.6	35.1	40.3	46.7	61.1	1145.8	5203.5	5659.7	5697.8
57.5°	12.7	20.2	27.1	32.3	41.5	55.9	1152.1	5418.9	5917.2	5942.0
59°	10.9	17.3	24.2	28.8	38.0	52.4	1126.2	5432.2	5933.9	5973.7
60°	9.2	15.6	21.3	27.1	35.1	49.5	1098.0	5336.0	5871.7	5916.1
62.5°	6.9	12.1	15.6	21.9	28.8	42.6	964.3	5000.1	5633.8	5664.9
65°	4.6	8.6	11.5	16.1	22.5	36.9	785.7	4564.7	5266.3	5336.0
67.5°	2.9	6.3	9.2	12.1	18.4	31.1	559.9	3914.3	4751.9	4796.8
70°	1.7	4.0	6.9	9.8	14.4	24.8	332.4	3094.0	3953.5	3962.7
72.5°	1.2	2.9	4.6	6.9	11.5	22.5	161.3	2016.8	2886.6	2996.6
75°	0.6	1.7	2.9	5.2	9.2	18.4	77.2	1347.4	2100.3	2132.0
77.5°	0.0	0.6	1.7	3.5	6.9	14.4	44.9	884.8	1432.1	1464.9
80°	0.0	0.0	1.2	2.9	5.2	9.2	27.1	521.9	867.5	883.7
82.5°	0.0	0.0	0.6	2.3	3.5	6.9	13.8	229.3	568.0	573.7
85°	0.0	0.0	0.6	2.3	2.9	4.6	5.2	31.1	252.3	256.9
87.5°	0.0	0.0	0.6	2.9	2.9	2.9	2.9	1.7	21.3	26.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)