

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: P529327

Luminaire Tested: **GALN-SA4C-727-U-SLL-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529327
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-23)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4C-727-U-SLL-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR LEFT OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12858 lumens
Efficiency: N/A
Efficacy: 60.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G1

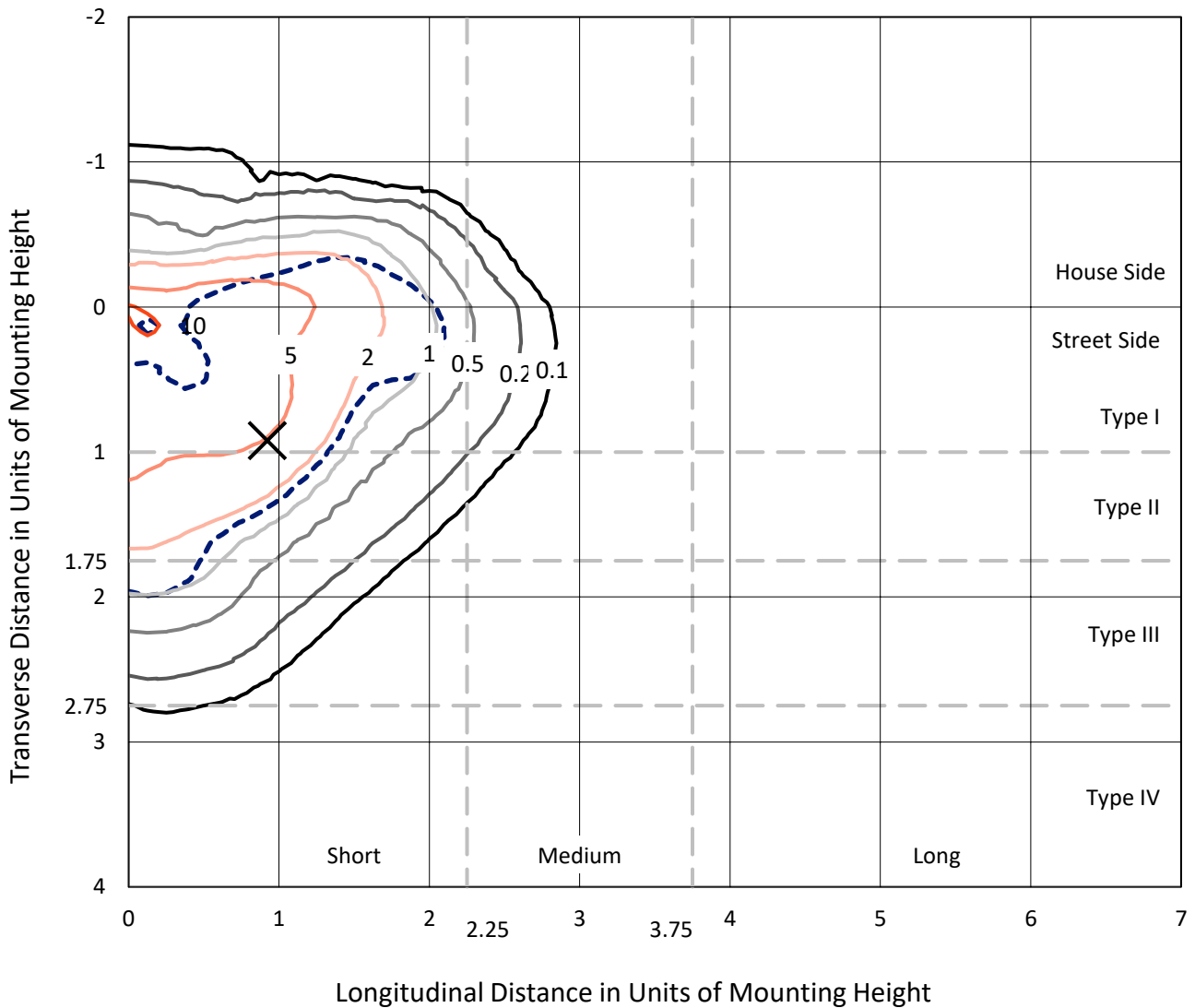
Input Watts (W): 213
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

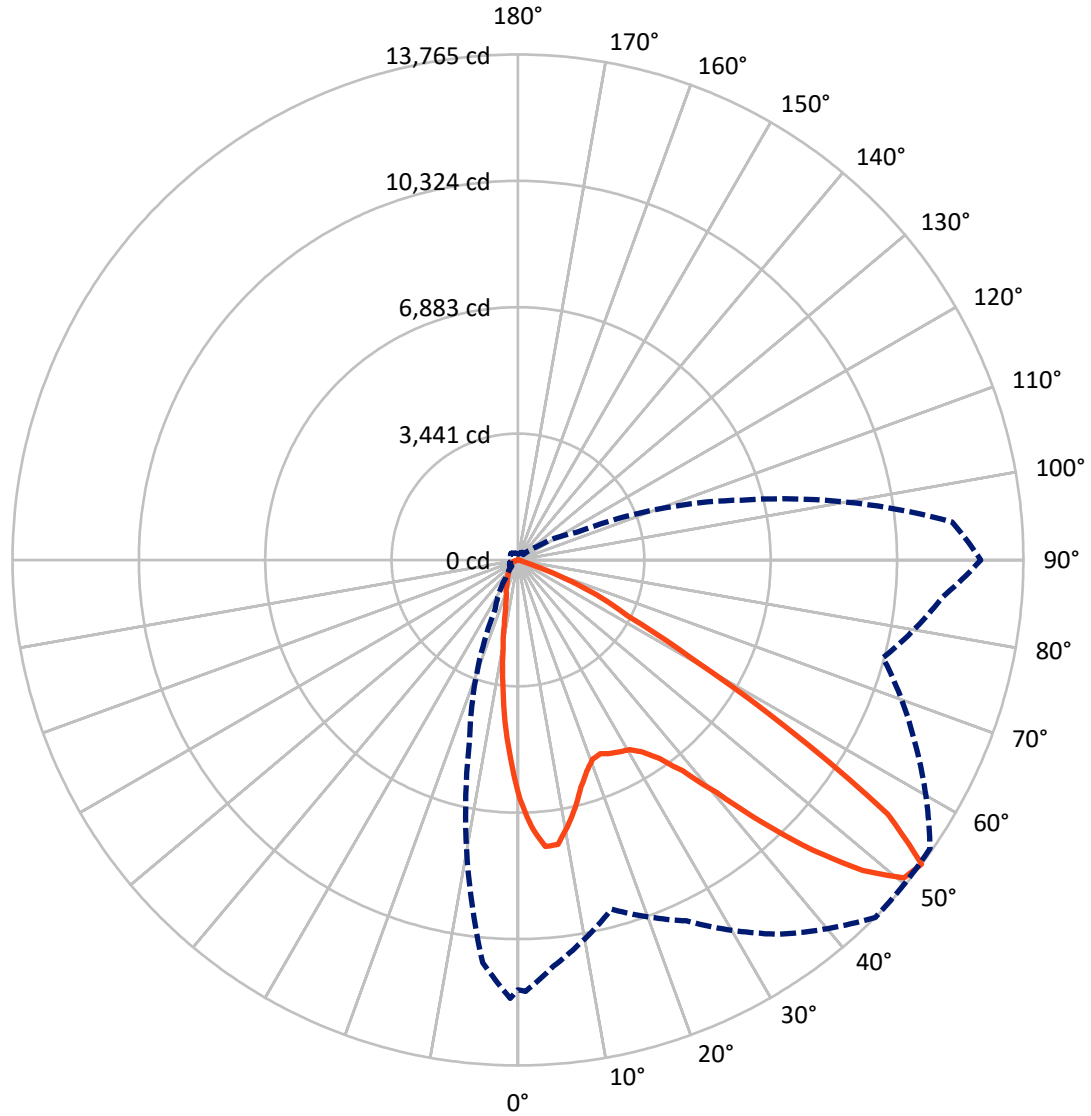
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.3 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 52.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2609.5	0.0	2609.5
	% Fixture	20.3	0.0	20.3
Street Side	Lumens	10248.5	0.0	10248.5
	% Fixture	79.7	0.0	79.7
Total	Lumens	12858.0	0.0	12858.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	475.5	3.7
10°-20°	938.1	7.3
20°-30°	1427.6	11.1
30°-40°	2133.7	16.6
40°-50°	3038.6	23.6
50°-60°	3266.4	25.4
60°-70°	1447.4	11.3
70°-80°	117.1	0.9
80°-90°	13.6	0.1
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°	12858.0	100.0
0°-180°	12858.0	100.0

Coefficient of Utilization

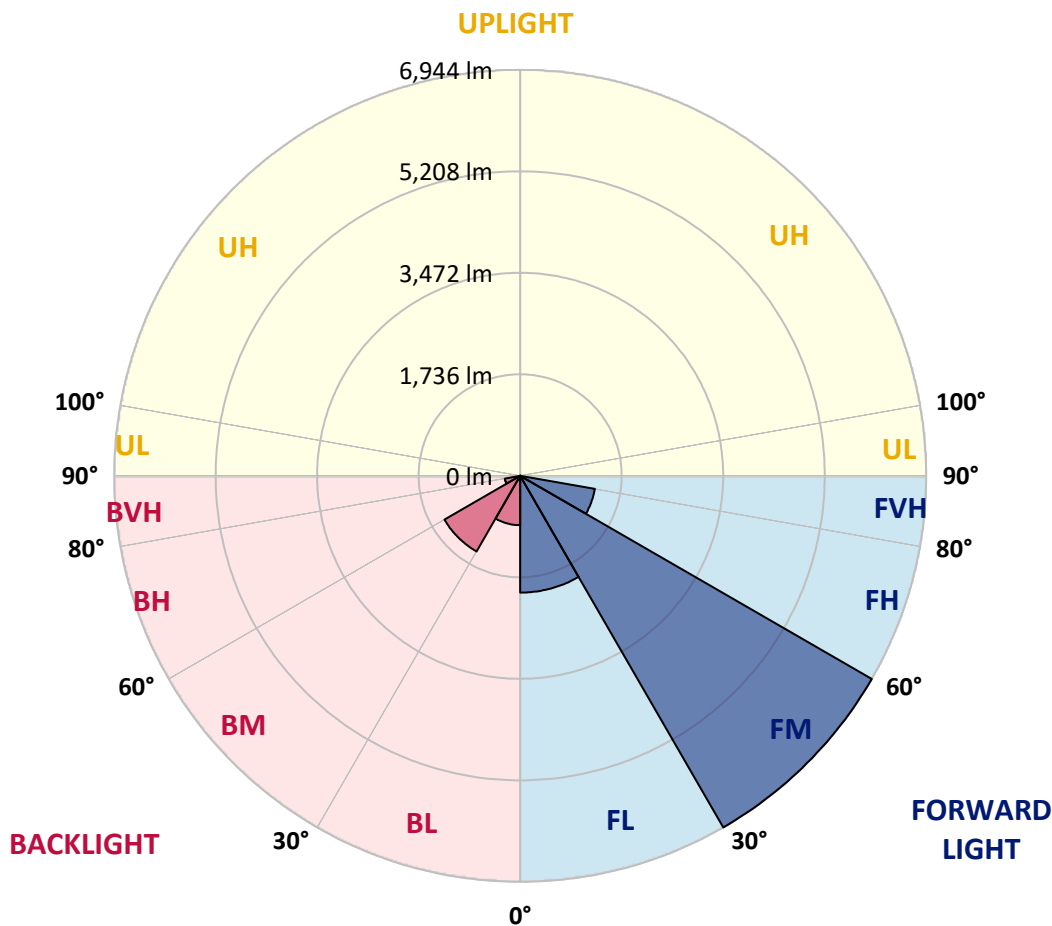


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1997.1	15.5			
FM (30°-60°)	6943.7	54.0			
FH (60°-80°)	1297.5	10.1			G1/1800
FVH (80°-90°)	10.1	0.1			G1/100
BL (0°-30°)	844.0	6.6	B2/1000		
BM (30°-60°)	1495.0	11.6	B2/2500		
BH (60°-80°)	267.0	2.1	B1/500		G1/500
BVH (80°-90°)	3.5	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1
 Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	6519.6	6519.6	6519.6	6519.6	6519.6	6519.6	6519.6	6519.6	6519.6	6519.6	6519.6
2.5°	6898.9	6919.2	7030.4	7169.5	7242.9	7409.8	7293.5	7323.8	7260.6	7038.0	6863.5
5°	6689.0	6686.5	6828.1	7172.1	7498.3	7829.6	7839.7	7662.7	7351.6	7010.2	6522.1
7.5°	6056.8	6155.4	6302.1	6850.9	7455.3	7703.1	7822.0	7614.6	7136.7	6648.6	6120.0
10°	5578.8	5629.4	5877.3	6539.8	6982.4	7313.7	7387.0	7268.2	6901.5	6292.0	5700.2
12.5°	5303.2	5328.5	5619.3	6175.7	6643.5	6888.8	6924.2	6979.9	6716.9	6145.3	5434.7
15°	5305.7	5325.9	5717.9	6183.3	6367.9	6302.1	6418.4	6415.9	6529.7	6117.5	5657.2
17.5°	5687.6	5710.3	6064.4	6294.5	6213.6	6059.3	6051.8	6168.1	6408.3	6464.0	5993.6
20°	6345.1	6398.2	6658.7	6646.1	6190.8	5879.8	5793.8	5882.3	6441.2	6757.3	6671.3
22.5°	7230.2	7303.6	7485.7	7136.7	6294.5	5758.4	5730.6	5902.5	6658.7	7412.3	7440.1
25°	8257.0	8380.9	8469.4	8021.8	6663.8	5968.3	5836.8	6132.7	6952.1	8123.0	8418.8
27.5°	8937.3	9066.2	9046.0	8406.2	6911.6	6023.9	5912.7	6188.3	7207.5	8292.4	8929.7
30°	9468.3	9546.7	9688.4	8613.6	7159.4	6180.7	5991.1	6423.5	7290.9	8585.7	9546.7
32.5°	10087.9	10141.0	10151.2	8980.3	7541.3	6378.0	6233.8	6716.9	7660.2	8866.5	10093.0
35°	10712.6	10791.0	10626.6	9432.9	7776.5	6744.7	6638.5	7225.2	7956.0	9157.3	10694.9
37.5°	11390.3	11430.8	11051.5	9620.1	8112.8	7341.5	7283.3	7774.0	8469.4	9683.3	11362.5
40°	11959.4	11997.3	11504.1	9850.2	8466.9	8176.1	8325.3	8820.9	9167.4	10024.7	11696.3
42.5°	12275.5	12364.0	11655.9	9723.8	9177.5	9121.9	9784.5	9959.0	9976.7	10120.8	11994.8
45°	12361.5	12321.0	11405.5	9827.5	9799.6	10677.2	11279.1	11509.2	10780.9	10297.8	12070.6
47.5°	11964.4	12017.5	11036.3	9736.4	10616.5	11855.7	12634.6	13062.0	11380.2	10143.6	11883.5
50°	11643.2	11575.0	10917.4	9670.7	10836.5	12412.0	13613.3	13709.4	11931.5	10333.2	11678.6
52.5°	11706.5	11749.4	11107.1	9845.2	10841.6	12444.9	13765.0	13699.3	11949.2	10290.3	11605.3
55°	11840.5	11650.8	11026.2	9460.8	10115.8	11526.9	12217.3	12116.1	11028.7	9832.5	11425.7
57.5°	10216.9	10510.3	10138.5	8446.7	8302.5	8684.4	8671.7	8982.8	8226.6	8461.8	10401.5
60°	8292.4	8343.0	8482.1	7225.2	5745.7	5614.2	5432.2	5234.9	5535.8	7235.3	9460.8
62.5°	7293.5	7232.8	7728.4	6572.7	4056.4	3396.4	3366.0	3487.4	4271.4	6901.5	8874.0
65°	5300.7	5376.5	5735.6	5100.9	3044.8	2592.2	2546.6	2905.8	3457.1	5530.8	6772.5
67.5°	3237.0	3383.7	3416.6	3146.0	2066.1	1641.3	1575.5	1901.8	2496.1	3578.4	3970.4
70°	1494.6	1671.6	1838.5	1717.1	1196.2	675.2	637.3	799.1	1259.4	2058.6	2106.6
72.5°	452.7	455.2	637.3	665.1	386.9	151.7	134.0	177.0	427.4	680.3	715.7
75°	32.9	35.4	86.0	98.6	73.3	37.9	40.5	48.0	91.0	151.7	113.8
77.5°	2.5	2.5	2.5	12.6	22.8	25.3	32.9	37.9	48.0	55.6	50.6
80°	2.5	0.0	2.5	10.1	17.7	25.3	30.3	35.4	37.9	43.0	37.9
82.5°	0.0	0.0	0.0	7.6	17.7	25.3	27.8	37.9	43.0	50.6	43.0
85°	0.0	0.0	0.0	7.6	17.7	27.8	25.3	12.6	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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	6519.6	6519.6	6519.6	6519.6	6519.6	6519.6	6519.6	6519.6	6519.6	6519.6	6519.6
2.5°	6893.9	6795.3	6570.2	6456.4	6188.3	6150.4	5887.4	5844.4	5755.9	5707.8	5591.5
5°	6307.2	6188.3	5821.6	5513.1	5154.0	4903.6	4711.4	4536.9	4435.8	4342.2	4385.2
7.5°	5829.2	5482.7	5075.6	4559.7	4144.9	3876.9	3583.5	3343.3	3201.6	3105.5	3128.3
10°	5328.5	5103.4	4536.9	3957.8	3457.1	3267.4	3037.3	2852.6	2652.9	2480.9	2400.0
12.5°	5171.7	4837.9	4127.2	3538.0	3158.6	2974.0	2711.0	2498.6	2243.2	2033.3	1959.9
15°	5199.5	4878.3	4016.0	3386.2	2938.6	2620.0	2306.4	2043.4	1762.7	1616.0	1540.1
17.5°	5652.2	5095.8	4089.3	3226.9	2632.6	2190.1	1803.1	1469.3	1259.4	1107.7	1074.8
20°	6208.5	5566.2	4246.1	3110.6	2382.3	1742.4	1317.6	1029.3	854.8	829.5	821.9
22.5°	7022.9	6335.0	4582.4	3032.2	2076.3	1358.0	902.8	748.6	700.5	695.5	698.0
25°	8160.9	7298.5	4949.1	2966.4	1846.1	1047.0	738.5	634.8	619.6	612.0	624.6
27.5°	8654.0	7880.2	5143.9	2824.8	1636.2	943.3	728.3	629.7	586.7	574.1	581.7
30°	9263.5	8267.1	5449.9	2582.0	1327.7	776.4	680.3	685.3	665.1	601.9	581.7
32.5°	10072.8	8750.1	5604.1	2410.1	1186.1	642.4	498.2	457.7	510.8	521.0	538.7
35°	10591.2	9240.7	5682.5	2308.9	1112.7	548.8	422.3	384.4	371.8	374.3	384.4
37.5°	11554.7	9903.3	5781.2	2202.7	1057.1	478.0	381.9	346.5	328.8	328.8	338.9
40°	12131.3	10429.3	5915.2	2144.5	1001.5	435.0	346.5	316.1	300.9	300.9	306.0
42.5°	12275.5	10689.8	5869.7	2124.3	938.2	424.9	316.1	293.4	275.7	273.1	270.6
45°	12533.4	11086.9	5877.3	2101.5	872.5	386.9	298.4	273.1	247.8	245.3	242.8
47.5°	12816.7	11372.6	5892.4	2013.0	809.3	323.7	311.1	252.9	222.5	217.5	217.5
50°	12573.9	11600.2	6023.9	1924.5	728.3	263.0	306.0	237.7	197.3	189.7	192.2
52.5°	12604.2	11868.3	6302.1	1800.6	627.2	209.9	247.8	225.1	179.6	166.9	169.4
55°	12118.7	11585.1	6340.0	1669.1	490.6	161.9	189.7	197.3	151.7	146.7	146.7
57.5°	10431.9	9809.8	5594.0	1353.0	323.7	134.0	136.6	172.0	131.5	126.4	129.0
60°	8927.2	7875.1	4501.5	892.7	202.3	106.2	98.6	174.5	116.3	113.8	121.4
62.5°	8138.1	6471.6	3414.1	553.8	139.1	80.9	68.3	141.6	101.2	101.2	111.3
65°	5879.8	4347.2	1985.2	290.8	98.6	63.2	50.6	80.9	83.5	86.0	91.0
67.5°	3641.7	2195.1	837.1	141.6	65.8	43.0	32.9	50.6	55.6	55.6	60.7
70°	1798.1	875.0	278.2	80.9	50.6	35.4	22.8	27.8	27.8	25.3	27.8
72.5°	556.4	263.0	70.8	50.6	35.4	22.8	12.6	10.1	5.1	0.0	2.5
75°	63.2	50.6	45.5	35.4	22.8	10.1	2.5	0.0	0.0	0.0	0.0
77.5°	37.9	43.0	43.0	35.4	22.8	7.6	0.0	0.0	0.0	0.0	0.0
80°	30.3	32.9	35.4	32.9	20.2	10.1	0.0	0.0	0.0	0.0	0.0
82.5°	37.9	43.0	48.0	43.0	27.8	12.6	5.1	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	7.6	2.5	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°	6519.6	6519.6	6519.6	6519.6	6519.6	6519.6	6519.6	6519.6	6519.6	6519.6	6519.6
2.5°	5543.4	5487.8	5566.2	5449.9	5447.3	5449.9	5417.0	5386.6	5434.7	5563.7	5576.3
5°	4230.9	4349.8	4387.7	4511.6	4443.3	4342.2	4362.4	4294.1	4461.0	4534.4	4476.2
7.5°	3080.2	3072.7	3328.1	3343.3	3376.1	3378.7	3373.6	3239.6	3103.0	3133.4	3224.4
10°	2389.8	2260.9	2384.8	2372.1	2453.1	2430.3	2463.2	2319.0	2367.1	2367.1	2425.3
12.5°	1947.3	1810.7	1788.0	1755.1	1788.0	1800.6	1813.2	1785.4	1866.4	1904.3	1944.8
15°	1487.0	1411.1	1390.9	1327.7	1337.8	1373.2	1403.6	1416.2	1390.9	1449.1	1454.1
17.5°	1079.9	1077.3	1090.0	1087.4	1077.3	1069.7	1067.2	1034.3	1024.2	1029.3	1049.5
20°	819.4	839.6	882.6	925.6	948.4	920.5	882.6	827.0	804.2	809.3	811.8
22.5°	700.5	730.9	789.0	837.1	859.8	809.3	741.0	692.9	682.8	680.3	677.8
25°	634.8	670.2	713.2	728.3	725.8	695.5	644.9	624.6	619.6	614.5	591.8
27.5°	599.4	612.0	619.6	637.3	644.9	624.6	612.0	581.7	576.6	576.6	561.4
30°	579.1	571.5	581.7	569.0	579.1	564.0	566.5	566.5	553.8	558.9	558.9
32.5°	538.7	541.2	541.2	515.9	523.5	505.8	523.5	538.7	541.2	543.7	564.0
35°	394.5	440.0	462.8	462.8	470.4	457.7	455.2	437.5	414.7	392.0	381.9
37.5°	346.5	364.2	394.5	412.2	424.9	414.7	392.0	364.2	351.5	341.4	331.3
40°	308.5	323.7	343.9	364.2	389.5	376.8	341.4	328.8	313.6	313.6	303.5
42.5°	278.2	285.8	298.4	328.8	356.6	331.3	306.0	295.9	288.3	285.8	283.2
45°	250.4	252.9	265.5	290.8	323.7	298.4	273.1	260.5	263.0	265.5	263.0
47.5°	225.1	230.1	237.7	268.1	288.3	275.7	247.8	240.2	240.2	240.2	242.8
50°	194.7	207.4	222.5	247.8	263.0	255.4	232.7	222.5	217.5	217.5	220.0
52.5°	174.5	184.6	204.8	235.2	255.4	242.8	220.0	204.8	194.7	192.2	197.3
55°	151.7	169.4	202.3	225.1	252.9	240.2	215.0	197.3	179.6	177.0	177.0
57.5°	136.6	164.4	194.7	222.5	245.3	235.2	215.0	192.2	169.4	166.9	166.9
60°	129.0	159.3	189.7	215.0	245.3	230.1	212.4	187.1	161.9	161.9	159.3
62.5°	121.4	149.2	179.6	204.8	235.2	222.5	204.8	179.6	154.3	154.3	149.2
65°	101.2	129.0	149.2	172.0	204.8	192.2	174.5	156.8	136.6	131.5	134.0
67.5°	70.8	88.5	108.7	131.5	151.7	146.7	139.1	126.4	108.7	106.2	103.7
70°	35.4	48.0	65.8	88.5	106.2	101.2	96.1	86.0	75.9	73.3	73.3
72.5°	5.1	15.2	27.8	40.5	55.6	58.2	55.6	53.1	50.6	48.0	50.6
75°	0.0	0.0	0.0	10.1	22.8	27.8	32.9	37.9	37.9	32.9	40.5
77.5°	0.0	0.0	0.0	0.0	2.5	12.6	25.3	32.9	40.5	35.4	48.0
80°	0.0	0.0	0.0	0.0	2.5	15.2	25.3	35.4	40.5	35.4	50.6
82.5°	0.0	0.0	0.0	0.0	2.5	17.7	25.3	32.9	37.9	35.4	45.5
85°	0.0	0.0	0.0	0.0	7.6	15.2	10.1	5.1	2.5	2.5	7.6
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°	6519.6	6519.6	6519.6	6519.6	6519.6	6519.6	6519.6	6519.6	6519.6	6519.6
2.5°	5647.1	5826.7	6018.9	6092.2	6319.8	6491.8	6608.1	6858.5	6896.4	6898.9
5°	4536.9	4628.0	4956.7	5111.0	5449.9	5712.9	5993.6	6398.2	6668.8	6689.0
7.5°	3224.4	3477.3	3616.4	4018.5	4435.8	4848.0	5265.3	5735.6	6049.2	6056.8
10°	2594.7	2759.1	3006.9	3307.9	3659.4	4079.2	4635.5	5181.8	5500.4	5578.8
12.5°	2088.9	2377.2	2660.4	2971.5	3239.6	3555.7	4155.0	4883.4	5146.4	5303.2
15°	1608.4	1871.4	2205.2	2569.4	2872.9	3295.2	3978.0	4810.0	5252.6	5305.7
17.5°	1186.1	1421.3	1729.8	2073.7	2528.9	3128.3	4008.4	5181.8	5599.1	5687.6
20°	852.3	988.8	1231.6	1631.2	2210.3	2933.6	4038.7	5558.6	6193.4	6345.1
22.5°	675.2	730.9	890.2	1244.2	1853.7	2728.7	4253.7	6279.4	7010.2	7230.2
25°	586.7	617.1	692.9	981.2	1628.6	2708.5	4597.6	7144.3	8097.7	8257.0
27.5°	566.5	571.5	637.3	900.3	1507.2	2574.5	4729.1	7758.8	8775.4	8937.3
30°	596.8	677.8	682.8	761.2	1282.2	2308.9	4797.4	8353.1	9349.5	9468.3
32.5°	515.9	490.6	508.3	589.2	1127.9	2154.7	4926.4	8871.5	10004.5	10087.9
35°	359.1	376.8	417.3	510.8	986.3	1992.8	4959.2	9443.1	10626.6	10712.6
37.5°	331.3	341.4	374.3	435.0	867.4	1901.8	4913.7	9860.3	11271.5	11390.3
40°	308.5	321.2	338.9	394.5	778.9	1800.6	4850.5	10237.1	11666.0	11959.4
42.5°	290.8	300.9	316.1	376.8	703.0	1699.4	4762.0	10768.2	12020.0	12275.5
45°	270.6	285.8	303.5	366.7	660.1	1631.2	4696.2	10735.3	12224.9	12361.5
47.5°	250.4	275.7	295.9	341.4	647.4	1598.3	4724.1	10611.4	12058.0	11964.4
50°	230.1	263.0	298.4	283.2	617.1	1532.5	4756.9	10780.9	11660.9	11643.2
52.5°	212.4	250.4	278.2	232.7	548.8	1469.3	5075.6	11003.4	11941.6	11706.5
55°	187.1	225.1	222.5	187.1	445.1	1421.3	5325.9	11008.5	11752.0	11840.5
57.5°	169.4	199.8	174.5	156.8	328.8	1188.6	4918.8	9230.6	10060.1	10216.9
60°	156.8	194.7	131.5	123.9	215.0	857.3	4294.1	7149.3	7996.5	8292.4
62.5°	144.1	184.6	103.7	101.2	149.2	609.5	3530.4	5983.5	6891.4	7293.5
65°	126.4	131.5	83.5	78.4	106.2	328.8	2149.6	4119.6	5151.4	5300.7
67.5°	103.7	101.2	68.3	63.2	70.8	159.3	948.4	2063.6	2986.7	3237.0
70°	83.5	83.5	58.2	50.6	50.6	73.3	247.8	821.9	1350.5	1494.6
72.5°	60.7	63.2	45.5	40.5	37.9	35.4	40.5	164.4	354.1	452.7
75°	53.1	55.6	45.5	35.4	27.8	22.8	17.7	15.2	20.2	32.9
77.5°	58.2	58.2	48.0	32.9	25.3	17.7	10.1	5.1	5.1	2.5
80°	73.3	75.9	63.2	43.0	30.3	20.2	12.6	5.1	2.5	2.5
82.5°	78.4	86.0	70.8	53.1	37.9	22.8	12.6	2.5	0.0	0.0
85°	20.2	32.9	55.6	48.0	37.9	22.8	12.6	2.5	0.0	0.0
87.5°	0.0	2.5	7.6	7.6	10.1	10.1	7.6	2.5	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

(END OF REPORT)