

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: P530445

Luminaire Tested: **GALN-SA5C-830-U-SLL-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P530445
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-SA5C-830-U-SLL-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3000K, 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: 15467 lumens
Efficiency: N/A
Efficacy: 57.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G1

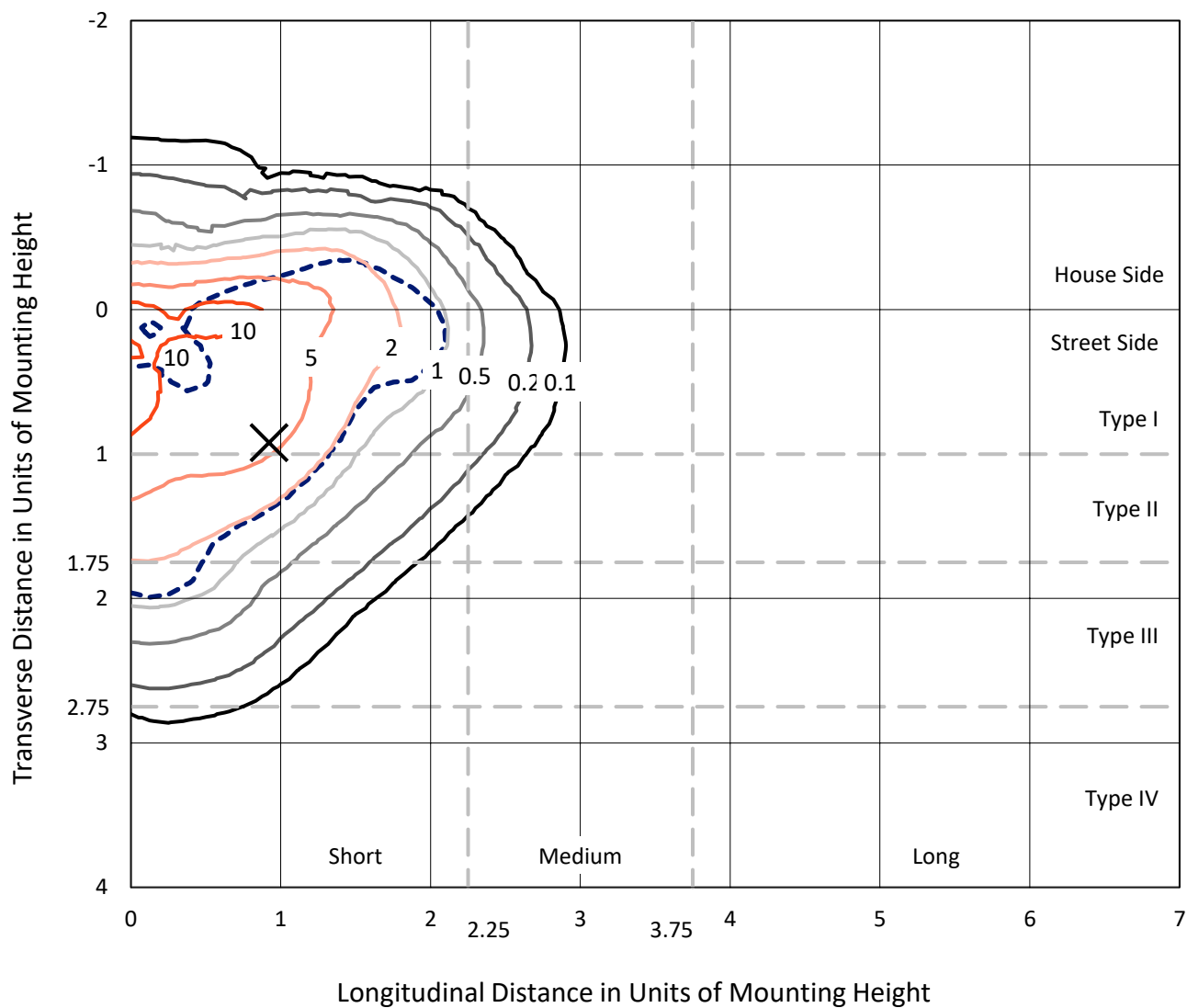
Input Watts (W): 269
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

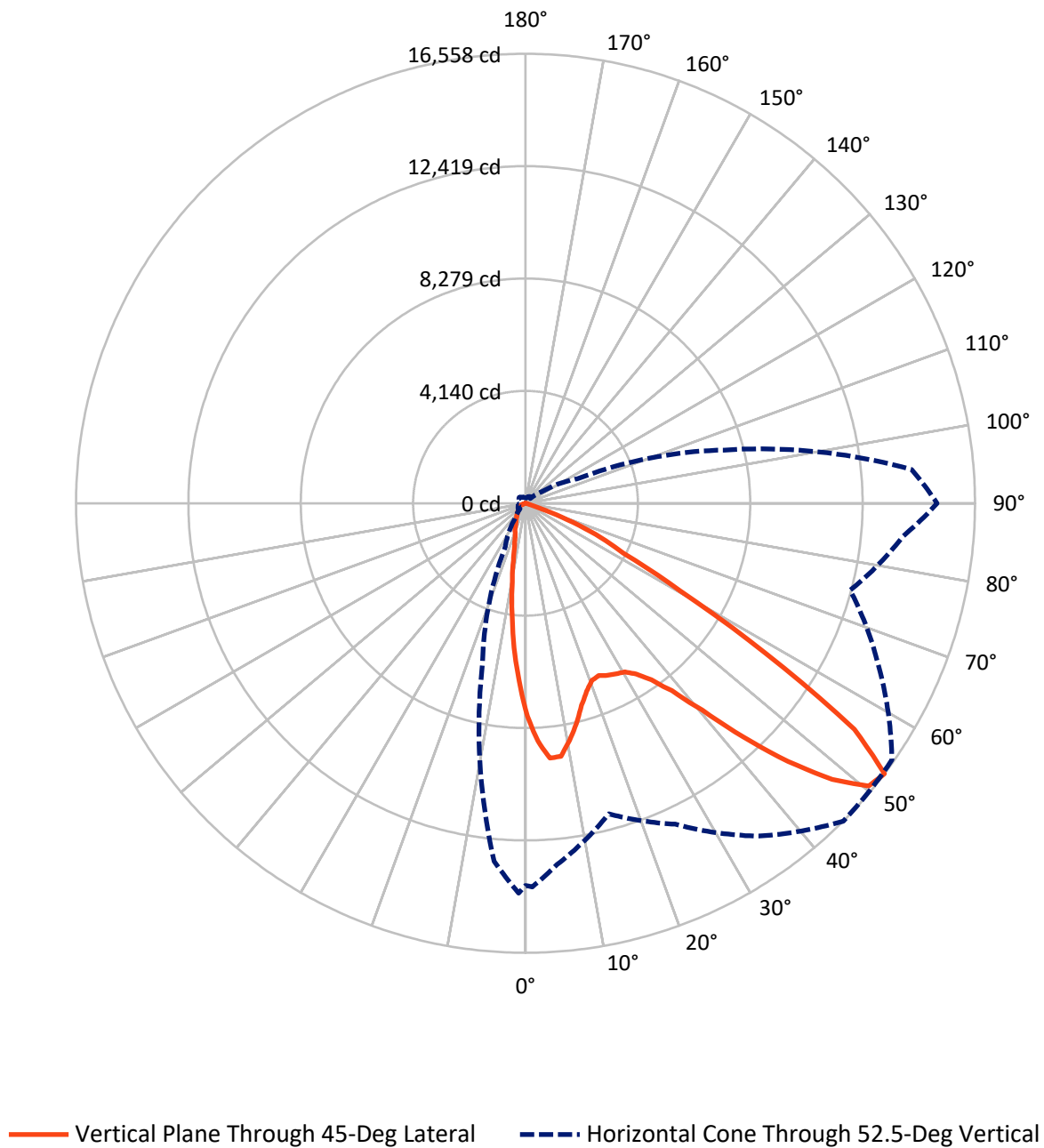
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.6 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	3139.0	0.0	3139.0
	% Fixture	20.3	0.0	20.3
Street Side	Lumens	12328.0	0.0	12328.0
	% Fixture	79.7	0.0	79.7
Total	Lumens	15467.0	0.0	15467.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	571.9	3.7
10°-20°	1128.4	7.3
20°-30°	1717.3	11.1
30°-40°	2566.7	16.6
40°-50°	3655.2	23.6
50°-60°	3929.2	25.4
60°-70°	1741.1	11.3
70°-80°	140.9	0.9
80°-90°	16.4	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°	15467.0	100.0
0°-180°	15467.0	100.0

Coefficient of Utilization



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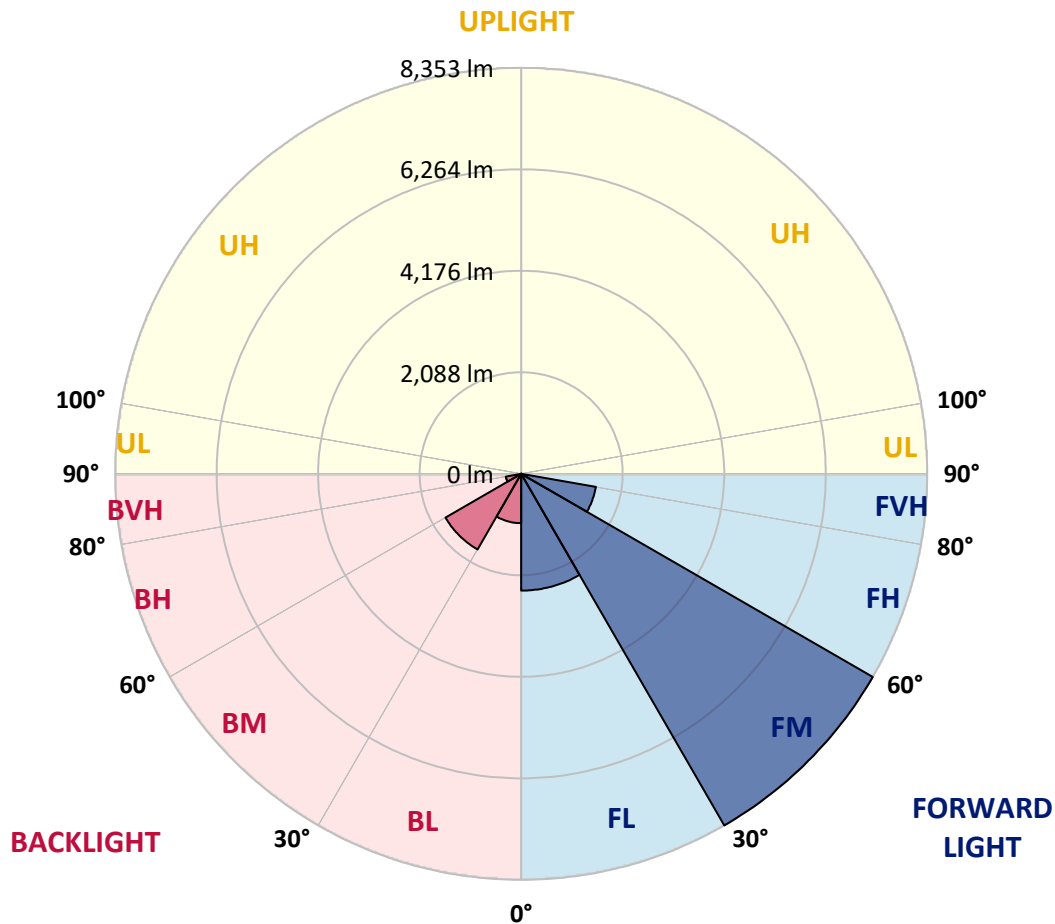
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2402.3	15.5			
FM	(30°-60°)	8352.7	54.0			
FH	(60°-80°)	1560.8	10.1			G1/1800
FVH	(80°-90°)	12.2	0.1			G1/100
BL	(0°-30°)	1015.3	6.6	B3/2500		
BM	(30°-60°)	1798.3	11.6	B2/2500		
BH	(60°-80°)	321.2	2.1	B1/500		G1/500
BVH	(80°-90°)	4.3	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	7842.5	7842.5	7842.5	7842.5	7842.5	7842.5	7842.5	7842.5	7842.5	7842.5	7842.5
2.5°	8298.8	8323.1	8457.0	8624.3	8712.5	8913.3	8773.4	8809.9	8733.8	8466.1	8256.2
5°	8046.3	8043.3	8213.6	8627.3	9019.8	9418.3	9430.5	9217.5	8843.3	8432.7	7845.5
7.5°	7285.8	7404.4	7580.9	8241.0	8968.1	9266.2	9409.2	9159.7	8584.8	7997.6	7361.8
10°	6710.8	6771.7	7069.8	7866.8	8399.2	8797.7	8885.9	8742.9	8301.8	7568.7	6856.9
12.5°	6379.2	6409.7	6759.5	7428.8	7991.5	8286.6	8329.2	8396.1	8079.8	7392.3	6537.4
15°	6382.3	6406.6	6878.1	7437.9	7660.0	7580.9	7720.8	7717.8	7854.7	7358.8	6805.1
17.5°	6841.6	6869.0	7294.9	7571.7	7474.4	7288.8	7279.7	7419.6	7708.6	7775.6	7209.7
20°	7632.6	7696.5	8009.8	7994.6	7447.0	7072.8	6969.4	7075.9	7748.2	8128.4	8025.0
22.5°	8697.3	8785.5	9004.6	8584.8	7571.7	6926.8	6893.4	7100.2	8009.8	8916.3	8949.8
25°	9932.4	10081.5	10187.9	9649.5	8015.9	7179.3	7021.1	7377.0	8362.7	9771.2	10127.1
27.5°	10750.7	10905.9	10881.5	10111.9	8314.0	7246.2	7112.4	7444.0	8669.9	9975.0	10741.6
30°	11389.6	11483.9	11654.2	10361.3	8612.1	7434.8	7206.7	7726.9	8770.3	10327.9	11483.9
32.5°	12134.9	12198.7	12210.9	10802.4	9071.5	7672.1	7498.7	8079.8	9214.5	10665.5	12141.0
35°	12886.3	12980.6	12782.8	11347.0	9354.4	8113.2	7985.5	8691.2	9570.4	11015.4	12865.0
37.5°	13701.5	13750.2	13293.9	11572.1	9759.0	8831.2	8761.2	9351.4	10187.9	11648.1	13668.1
40°	14386.0	14431.6	13838.4	11848.9	10184.9	9835.1	10014.5	10610.8	11027.5	12058.8	14069.6
42.5°	14766.3	14872.7	14021.0	11696.8	11039.7	10972.8	11769.8	11979.7	12001.0	12174.4	14428.6
45°	14869.7	14821.0	13719.8	11821.5	11788.1	12843.7	13567.7	13844.5	12968.4	12387.4	14519.9
47.5°	14392.1	14456.0	13275.6	11712.0	12770.7	14261.3	15198.2	15712.4	13689.4	12201.8	14294.7
50°	14005.7	13923.6	13132.7	11632.9	13035.3	14930.5	16375.5	16491.1	14352.5	12429.9	14048.3
52.5°	14081.8	14133.5	13360.8	11842.8	13041.4	14970.1	16558.1	16479.0	14373.8	12378.2	13960.1
55°	14243.0	14014.9	13263.5	11380.4	12168.3	13865.8	14696.3	14574.6	13266.5	11827.6	13744.1
57.5°	12290.0	12642.9	12195.7	10160.6	9987.2	10446.5	10431.3	10805.5	9895.9	10178.8	12512.1
60°	9975.0	10035.8	10203.1	8691.2	6911.6	6753.4	6534.4	6297.1	6659.1	8703.4	11380.4
62.5°	8773.4	8700.4	9296.6	7906.4	4879.5	4085.5	4049.0	4195.0	5138.1	8301.8	10674.7
65°	6376.2	6467.5	6899.4	6135.9	3662.7	3118.1	3063.4	3495.4	4158.5	6653.0	8146.7
67.5°	3893.9	4070.3	4109.9	3784.4	2485.4	1974.3	1895.2	2287.6	3002.5	4304.5	4776.1
70°	1797.9	2010.8	2211.6	2065.6	1438.9	812.2	766.6	961.3	1515.0	2476.3	2534.1
72.5°	544.5	547.6	766.6	800.1	465.4	182.5	161.2	212.9	514.1	818.3	860.9
75°	39.5	42.6	103.4	118.6	88.2	45.6	48.7	57.8	109.5	182.5	136.9
77.5°	3.0	3.0	3.0	15.2	27.4	30.4	39.5	45.6	57.8	66.9	60.8
80°	3.0	0.0	3.0	12.2	21.3	30.4	36.5	42.6	45.6	51.7	45.6
82.5°	0.0	0.0	0.0	9.1	21.3	30.4	33.5	45.6	51.7	60.8	51.7
85°	0.0	0.0	0.0	9.1	21.3	33.5	30.4	15.2	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°	7842.5	7842.5	7842.5	7842.5	7842.5	7842.5	7842.5	7842.5	7842.5	7842.5	7842.5
2.5°	8292.7	8174.1	7903.3	7766.4	7444.0	7398.3	7082.0	7030.3	6923.8	6866.0	6726.0
5°	7587.0	7444.0	7002.9	6631.7	6199.8	5898.6	5667.4	5457.5	5335.8	5223.3	5275.0
7.5°	7012.0	6595.2	6105.5	5484.9	4986.0	4663.5	4310.6	4021.6	3851.3	3735.7	3763.1
10°	6409.7	6138.9	5457.5	4760.9	4158.5	3930.4	3653.5	3431.5	3191.1	2984.3	2886.9
12.5°	6221.1	5819.5	4964.7	4255.9	3799.6	3577.5	3261.1	3005.6	2698.3	2445.8	2357.6
15°	6254.5	5868.2	4830.8	4073.3	3534.9	3151.6	2774.4	2458.0	2120.3	1943.9	1852.6
17.5°	6799.1	6129.8	4919.0	3881.7	3166.8	2634.4	2169.0	1767.4	1515.0	1332.4	1292.9
20°	7468.3	6695.6	5107.7	3741.8	2865.6	2096.0	1584.9	1238.1	1028.2	997.8	988.7
22.5°	8447.9	7620.4	5512.3	3647.5	2497.5	1633.6	1086.0	900.5	842.7	836.6	839.6
25°	9816.8	8779.4	5953.4	3568.4	2220.7	1259.4	888.3	763.6	745.3	736.2	751.4
27.5°	10410.0	9479.1	6187.6	3398.0	1968.2	1134.7	876.1	757.5	705.8	690.6	699.7
30°	11143.1	9944.6	6555.7	3106.0	1597.1	933.9	818.3	824.4	800.1	724.0	699.7
32.5°	12116.6	10525.6	6741.3	2899.1	1426.7	772.7	599.3	550.6	614.5	626.7	648.0
35°	12740.2	11115.8	6835.6	2777.4	1338.5	660.1	508.0	462.4	447.2	450.2	462.4
37.5°	13899.3	11912.8	6954.2	2649.7	1271.6	575.0	459.4	416.8	395.5	395.5	407.6
40°	14592.9	12545.5	7115.4	2579.7	1204.7	523.2	416.8	380.3	362.0	362.0	368.1
42.5°	14766.3	12858.9	7060.7	2555.3	1128.6	511.1	380.3	352.9	331.6	328.5	325.5
45°	15076.6	13336.5	7069.8	2528.0	1049.5	465.4	359.0	328.5	298.1	295.1	292.0
47.5°	15417.3	13680.2	7088.1	2421.5	973.5	389.4	374.2	304.2	267.7	261.6	261.6
50°	15125.2	13954.0	7246.2	2315.0	876.1	316.4	368.1	286.0	237.3	228.2	231.2
52.5°	15161.7	14276.5	7580.9	2166.0	754.4	252.5	298.1	270.7	216.0	200.8	203.8
55°	14577.7	13935.8	7626.5	2007.8	590.2	194.7	228.2	237.3	182.5	176.4	176.4
57.5°	12548.6	11800.2	6729.1	1627.5	389.4	161.2	164.3	206.9	158.2	152.1	155.1
60°	10738.6	9473.0	5414.9	1073.9	243.4	127.8	118.6	209.9	139.9	136.9	146.0
62.5°	9789.4	7784.7	4106.8	666.2	167.3	97.3	82.1	170.4	121.7	121.7	133.9
65°	7072.8	5229.3	2388.0	349.8	118.6	76.1	60.8	97.3	100.4	103.4	109.5
67.5°	4380.6	2640.5	1006.9	170.4	79.1	51.7	39.5	60.8	66.9	66.9	73.0
70°	2162.9	1052.6	334.6	97.3	60.8	42.6	27.4	33.5	33.5	30.4	33.5
72.5°	669.3	316.4	85.2	60.8	42.6	27.4	15.2	12.2	6.1	0.0	3.0
75°	76.1	60.8	54.8	42.6	27.4	12.2	3.0	0.0	0.0	0.0	0.0
77.5°	45.6	51.7	51.7	42.6	27.4	9.1	0.0	0.0	0.0	0.0	0.0
80°	36.5	39.5	42.6	39.5	24.3	12.2	0.0	0.0	0.0	0.0	0.0
82.5°	45.6	51.7	57.8	51.7	33.5	15.2	6.1	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	9.1	3.0	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°	7842.5	7842.5	7842.5	7842.5	7842.5	7842.5	7842.5	7842.5	7842.5	7842.5	7842.5
2.5°	6668.2	6601.3	6695.6	6555.7	6552.6	6555.7	6516.1	6479.6	6537.4	6692.6	6707.8
5°	5089.4	5232.4	5278.0	5427.1	5344.9	5223.3	5247.6	5165.5	5366.2	5454.5	5384.5
7.5°	3705.3	3696.1	4003.4	4021.6	4061.2	4064.2	4058.1	3896.9	3732.6	3769.1	3878.7
10°	2874.8	2719.6	2868.7	2853.5	2950.8	2923.4	2963.0	2789.6	2847.4	2847.4	2917.4
12.5°	2342.4	2178.1	2150.8	2111.2	2150.8	2166.0	2181.2	2147.7	2245.1	2290.7	2339.4
15°	1788.7	1697.5	1673.1	1597.1	1609.3	1651.9	1688.4	1703.6	1673.1	1743.1	1749.2
17.5°	1299.0	1295.9	1311.1	1308.1	1295.9	1286.8	1283.8	1244.2	1232.0	1238.1	1262.5
20°	985.6	1010.0	1061.7	1113.4	1140.8	1107.3	1061.7	994.8	967.4	973.5	976.5
22.5°	842.7	879.2	949.1	1006.9	1034.3	973.5	891.3	833.5	821.4	818.3	815.3
25°	763.6	806.2	857.9	876.1	873.1	836.6	775.7	751.4	745.3	739.2	711.8
27.5°	721.0	736.2	745.3	766.6	775.7	751.4	736.2	699.7	693.6	693.6	675.3
30°	696.6	687.5	699.7	684.5	696.6	678.4	681.4	681.4	666.2	672.3	672.3
32.5°	648.0	651.0	651.0	620.6	629.7	608.4	629.7	648.0	651.0	654.0	678.4
35°	474.6	529.3	556.7	556.7	565.8	550.6	547.6	526.3	498.9	471.5	459.4
37.5°	416.8	438.1	474.6	495.9	511.1	498.9	471.5	438.1	422.8	410.7	398.5
40°	371.1	389.4	413.7	438.1	468.5	453.3	410.7	395.5	377.2	377.2	365.0
42.5°	334.6	343.8	359.0	395.5	428.9	398.5	368.1	355.9	346.8	343.8	340.7
45°	301.2	304.2	319.4	349.8	389.4	359.0	328.5	313.3	316.4	319.4	316.4
47.5°	270.7	276.8	286.0	322.5	346.8	331.6	298.1	289.0	289.0	289.0	292.0
50°	234.2	249.5	267.7	298.1	316.4	307.3	279.9	267.7	261.6	261.6	264.7
52.5°	209.9	222.1	246.4	282.9	307.3	292.0	264.7	246.4	234.2	231.2	237.3
55°	182.5	203.8	243.4	270.7	304.2	289.0	258.6	237.3	216.0	212.9	212.9
57.5°	164.3	197.7	234.2	267.7	295.1	282.9	258.6	231.2	203.8	200.8	200.8
60°	155.1	191.7	228.2	258.6	295.1	276.8	255.5	225.1	194.7	194.7	191.7
62.5°	146.0	179.5	216.0	246.4	282.9	267.7	246.4	216.0	185.6	185.6	179.5
65°	121.7	155.1	179.5	206.9	246.4	231.2	209.9	188.6	164.3	158.2	161.2
67.5°	85.2	106.5	130.8	158.2	182.5	176.4	167.3	152.1	130.8	127.8	124.7
70°	42.6	57.8	79.1	106.5	127.8	121.7	115.6	103.4	91.3	88.2	88.2
72.5°	6.1	18.3	33.5	48.7	66.9	70.0	66.9	63.9	60.8	57.8	60.8
75°	0.0	0.0	0.0	12.2	27.4	33.5	39.5	45.6	45.6	39.5	48.7
77.5°	0.0	0.0	0.0	0.0	3.0	15.2	30.4	39.5	48.7	42.6	57.8
80°	0.0	0.0	0.0	0.0	3.0	18.3	30.4	42.6	48.7	42.6	60.8
82.5°	0.0	0.0	0.0	0.0	3.0	21.3	30.4	39.5	45.6	42.6	54.8
85°	0.0	0.0	0.0	0.0	9.1	18.3	12.2	6.1	3.0	3.0	9.1
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°	7842.5	7842.5	7842.5	7842.5	7842.5	7842.5	7842.5	7842.5	7842.5	7842.5
2.5°	6793.0	7009.0	7240.2	7328.4	7602.2	7809.0	7949.0	8250.1	8295.8	8298.8
5°	5457.5	5567.0	5962.5	6148.0	6555.7	6872.1	7209.7	7696.5	8022.0	8046.3
7.5°	3878.7	4182.9	4350.2	4833.9	5335.8	5831.7	6333.6	6899.4	7276.7	7285.8
10°	3121.2	3318.9	3617.0	3979.0	4401.9	4906.9	5576.1	6233.2	6616.5	6710.8
12.5°	2512.8	2859.6	3200.3	3574.4	3896.9	4277.2	4998.1	5874.3	6190.6	6379.2
15°	1934.8	2251.1	2652.7	3090.8	3455.8	3963.8	4785.2	5786.0	6318.4	6382.3
17.5°	1426.7	1709.7	2080.8	2494.5	3042.1	3763.1	4821.7	6233.2	6735.2	6841.6
20°	1025.2	1189.5	1481.5	1962.1	2658.8	3528.8	4858.2	6686.5	7450.1	7632.6
22.5°	812.2	879.2	1070.8	1496.7	2229.8	3282.4	5116.8	7553.5	8432.7	8697.3
25°	705.8	742.3	833.5	1180.3	1959.1	3258.1	5530.5	8593.9	9740.7	9932.4
27.5°	681.4	687.5	766.6	1083.0	1813.1	3096.8	5688.7	9333.1	10556.0	10750.7
30°	717.9	815.3	821.4	915.7	1542.3	2777.4	5770.8	10048.0	11246.6	11389.6
32.5°	620.6	590.2	611.5	708.8	1356.8	2591.9	5926.0	10671.6	12034.5	12134.9
35°	432.0	453.3	501.9	614.5	1186.4	2397.2	5965.5	11359.1	12782.8	12886.3
37.5°	398.5	410.7	450.2	523.2	1043.4	2287.6	5910.8	11861.1	13558.6	13701.5
40°	371.1	386.3	407.6	474.6	937.0	2166.0	5834.7	12314.3	14033.1	14386.0
42.5°	349.8	362.0	380.3	453.3	845.7	2044.3	5728.2	12953.2	14459.0	14766.3
45°	325.5	343.8	365.0	441.1	794.0	1962.1	5649.1	12913.6	14705.4	14869.7
47.5°	301.2	331.6	355.9	410.7	778.8	1922.6	5682.6	12764.6	14504.6	14392.1
50°	276.8	316.4	359.0	340.7	742.3	1843.5	5722.2	12968.4	14027.0	14005.7
52.5°	255.5	301.2	334.6	279.9	660.1	1767.4	6105.5	13236.1	14364.7	14081.8
55°	225.1	270.7	267.7	225.1	535.4	1709.7	6406.6	13242.2	14136.6	14243.0
57.5°	203.8	240.3	209.9	188.6	395.5	1429.8	5916.8	11103.6	12101.4	12290.0
60°	188.6	234.2	158.2	149.1	258.6	1031.3	5165.5	8600.0	9619.1	9975.0
62.5°	173.4	222.1	124.7	121.7	179.5	733.1	4246.7	7197.6	8289.7	8773.4
65°	152.1	158.2	100.4	94.3	127.8	395.5	2585.8	4955.6	6196.7	6376.2
67.5°	124.7	121.7	82.1	76.1	85.2	191.7	1140.8	2482.3	3592.7	3893.9
70°	100.4	100.4	70.0	60.8	60.8	88.2	298.1	988.7	1624.5	1797.9
72.5°	73.0	76.1	54.8	48.7	45.6	42.6	48.7	197.7	425.9	544.5
75°	63.9	66.9	54.8	42.6	33.5	27.4	21.3	18.3	24.3	39.5
77.5°	70.0	70.0	57.8	39.5	30.4	21.3	12.2	6.1	6.1	3.0
80°	88.2	91.3	76.1	51.7	36.5	24.3	15.2	6.1	3.0	3.0
82.5°	94.3	103.4	85.2	63.9	45.6	27.4	15.2	3.0	0.0	0.0
85°	24.3	39.5	66.9	57.8	45.6	27.4	15.2	3.0	0.0	0.0
87.5°	0.0	3.0	9.1	9.1	12.2	12.2	9.1	3.0	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

(END OF REPORT)