

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: P454407

Luminaire Tested: **GALN-SA5C-730-U-SLL-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P454407
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-SA5C-730-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3000K, 1050mA 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: 23027 lumens
Efficiency: N/A
Efficacy: 85.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

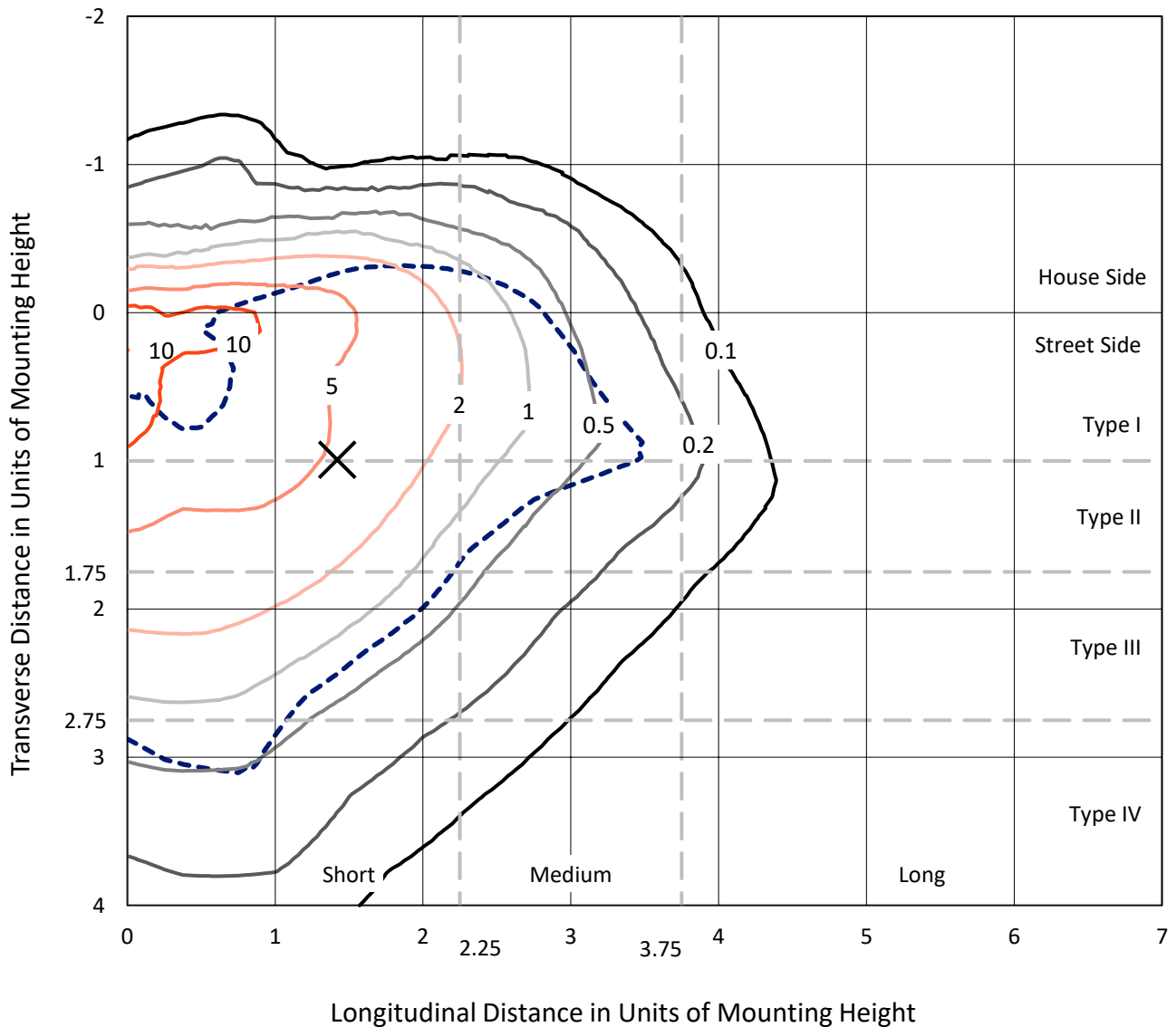
Input Watts (W): 269
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

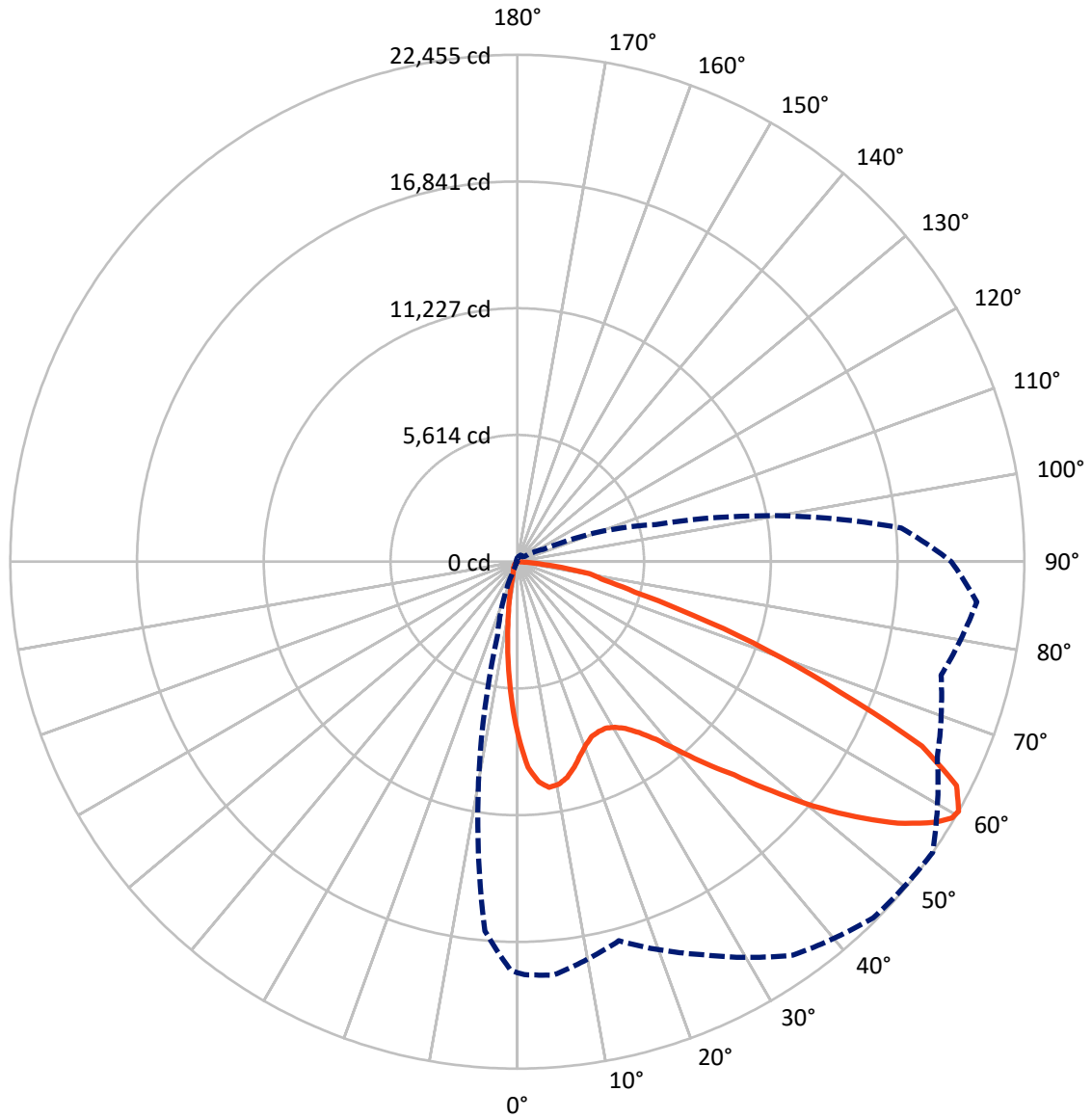
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.1 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	3417.4	0.0	3417.4
	% Fixture	14.8	0.0	14.8
Street Side	Lumens	19609.6	0.0	19609.6
	% Fixture	85.2	0.0	85.2
Total	Lumens	23027.0	0.0	23027.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	577.4	2.5
10°-20°	1137.0	4.9
20°-30°	1682.9	7.3
30°-40°	2508.6	10.9
40°-50°	3673.8	16.0
50°-60°	5303.9	23.0
60°-70°	5579.4	24.2
70°-80°	2295.2	10.0
80°-90°	268.8	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°	23027.0	100.0
0°-180°	23027.0	100.0

Coefficient of Utilization



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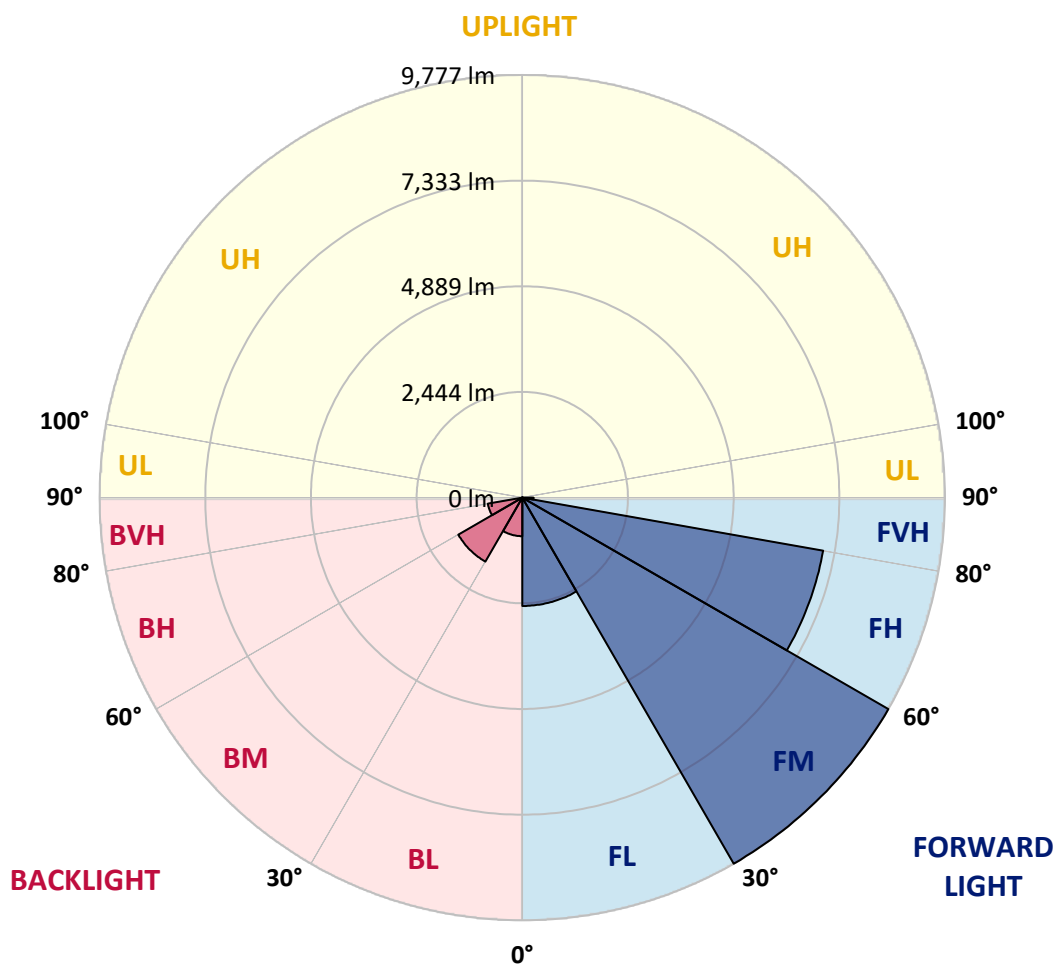
CATALOG NUMBER: GALN-SA5C-730-U-SLL-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2505.7	10.9			
FM	(30°-60°)	9777.3	42.5			
FH	(60°-80°)	7065.7	30.7			G3/7500
FVH	(80°-90°)	260.9	1.1			G3/500
BL	(0°-30°)	891.6	3.9	B2/1000		
BM	(30°-60°)	1709.0	7.4	B2/2500		
BH	(60°-80°)	808.9	3.5	B2/1000		G2/1000
BVH	(80°-90°)	7.9	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-G3

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	7796.9	7796.9	7796.9	7796.9	7796.9	7796.9	7796.9	7796.9	7796.9	7796.9	7796.9
2.5°	8518.3	8504.1	8629.9	8835.5	9042.9	9151.0	9129.7	9120.9	8949.0	8823.1	8559.0
5°	8500.5	8573.2	8798.3	9354.8	9776.7	9980.5	10040.8	9787.3	9452.3	8966.7	8367.6
7.5°	7991.8	8082.2	8449.1	9319.4	10069.1	10512.2	10496.3	10090.4	9399.1	8647.6	7793.3
10°	7360.9	7467.2	7897.9	8954.3	9927.3	10512.2	10544.1	10030.1	9170.5	8206.3	7307.7
12.5°	6916.0	7041.8	7518.6	8614.0	9562.2	10138.2	10175.5	9803.3	8998.6	8036.2	7043.6
15°	6765.3	6884.1	7368.0	8442.0	9174.0	9484.2	9475.4	9436.4	8931.2	8076.9	7057.8
17.5°	7024.1	7121.6	7667.5	8520.0	8810.7	8778.8	8824.9	9012.8	8945.4	8419.0	7504.4
20°	7692.3	7791.6	8378.2	8759.3	8532.4	8330.4	8351.6	8665.4	9076.6	9062.4	8202.8
22.5°	8612.2	8780.6	9312.3	9223.7	8495.2	8052.1	8007.8	8415.5	9299.9	9803.3	9145.7
25°	9776.7	9946.8	10361.6	9964.5	8677.8	7986.5	7945.8	8339.2	9571.1	10526.4	10207.4
27.5°	10755.0	10884.4	11297.4	10685.9	8947.2	8014.9	7947.5	8349.9	9790.9	11141.4	11102.4
30°	11538.5	11634.2	11877.0	11022.7	9179.4	8139.0	8061.0	8505.8	9888.3	11441.0	11827.4
32.5°	12169.4	12330.7	12406.9	11382.5	9512.6	8372.9	8240.0	8805.4	10125.8	11811.4	12587.7
35°	12890.8	13076.9	12979.4	11726.3	9952.1	8738.0	8575.0	9291.0	10485.6	12153.5	13470.4
37.5°	13805.4	14019.8	13638.8	12087.9	10416.5	9287.5	9211.3	9973.4	11031.5	12642.7	14416.9
40°	14751.9	14875.9	14278.6	12527.5	10987.2	10086.8	10159.5	10987.2	11745.8	13229.3	15423.6
42.5°	15491.0	15607.9	14936.2	12896.1	11570.4	11035.1	11338.2	12210.2	12564.7	13830.2	16175.1
45°	16056.4	16155.6	15391.7	13298.5	12357.3	12408.7	12981.2	13470.4	13385.3	14197.1	16754.7
47.5°	16495.9	16581.0	15742.6	13730.9	13536.0	14089.0	14964.5	15171.9	14236.1	14594.1	17279.3
50°	16676.7	16701.5	15852.5	14282.2	14874.2	16230.1	17142.9	17017.0	15210.9	15035.4	17837.6
52.5°	16912.4	16907.1	16166.2	14806.8	16132.6	18144.3	19055.3	18769.9	16313.4	15696.6	18465.1
55°	17531.0	17538.1	16838.0	15551.2	17204.9	19689.8	20664.7	20457.3	17476.1	16813.2	19197.1
57.5°	18282.5	18309.1	17793.3	16421.5	18229.3	20810.0	21866.4	21786.6	19048.2	18055.6	19888.3
59°	18380.0	18433.2	18245.3	17034.7	18837.3	21153.8	22277.6	22355.5	19890.1	18874.5	20262.3
60°	18202.8	18291.4	18376.5	17382.1	19193.5	21277.9	22302.4	22454.8	20522.9	19431.0	20432.5
62.5°	17430.0	17570.0	17997.2	18450.9	19638.4	20891.5	21510.1	21829.1	21306.3	20893.3	20448.4
65°	16417.9	16490.6	17107.4	18640.5	18775.3	19087.2	19278.6	19688.0	20365.1	21456.9	19716.4
67.5°	14758.9	14973.4	15728.5	17539.9	16228.3	15859.6	15811.8	15404.1	17162.3	20113.4	17912.1
70°	12192.5	12288.2	13218.7	14379.6	12247.4	11680.3	11907.1	11754.7	13303.8	17314.8	14416.9
72.5°	9220.1	9436.4	10345.6	11462.2	8333.9	7598.4	8224.0	8167.3	9992.9	13915.3	9904.3
75°	6559.7	6699.8	7858.9	8970.2	5836.6	4945.1	5170.2	5381.1	6976.2	10987.2	5852.5
77.5°	4507.3	4627.8	5498.0	5932.3	4257.4	4078.3	3730.9	3934.8	4571.1	6519.0	3185.0
80°	2718.9	2713.6	3286.1	3392.4	2965.3	3443.8	2889.0	3243.5	2763.2	2789.8	1233.6
82.5°	1765.3	1747.6	2009.9	2190.7	1650.1	1735.2	1164.5	1678.5	1800.8	778.1	389.9
85°	790.5	824.2	966.0	1274.4	723.1	384.6	237.5	515.8	767.5	391.7	0.0
87.5°	81.5	63.8	170.2	310.2	99.3	10.6	35.4	17.7	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°	7796.9	7796.9	7796.9	7796.9	7796.9	7796.9	7796.9	7796.9	7796.9	7796.9	7796.9
2.5°	8436.7	8333.9	8027.3	7740.2	7493.8	7192.5	6997.5	6690.9	6504.8	6448.1	6456.9
5°	8098.2	7802.2	7219.1	6752.9	6233.6	5937.6	5487.4	5054.9	4821.0	4734.1	4695.1
7.5°	7389.2	7072.0	6368.3	5636.3	5079.8	4560.4	4225.5	3844.4	3583.8	3369.4	3332.2
10°	6862.8	6446.3	5574.3	4787.3	4347.7	3957.8	3622.8	3241.8	2935.1	2690.5	2623.2
12.5°	6547.3	6081.2	5108.1	4448.8	4032.3	3631.7	3195.7	2754.3	2440.6	2176.5	2054.2
15°	6490.6	5950.0	4977.0	4206.0	3692.0	3208.1	2628.5	2151.7	1829.1	1579.2	1503.0
17.5°	6832.7	6185.7	4957.5	3952.5	3247.1	2561.1	1958.5	1563.3	1199.9	1059.9	1005.0
20°	7442.4	6602.3	4955.7	3658.3	2789.8	1972.7	1375.4	1019.1	872.0	804.7	772.8
22.5°	8273.7	7169.4	5049.6	3404.8	2314.8	1455.2	981.9	811.8	726.7	671.7	659.3
25°	9289.3	8009.6	5280.0	3232.9	1951.4	1141.4	810.0	694.8	623.9	599.1	588.4
27.5°	10191.4	8814.2	5533.5	3055.7	1690.9	1010.3	751.5	636.3	579.6	560.1	544.1
30°	10969.5	9544.5	5655.8	2821.7	1481.7	925.2	762.1	680.6	606.2	547.7	521.1
32.5°	11618.2	10104.6	5735.6	2609.0	1304.5	756.8	602.6	526.4	492.7	471.5	453.7
35°	12430.0	10710.7	5687.7	2488.5	1214.1	689.5	549.5	453.7	397.0	354.5	336.8
37.5°	13280.7	11316.9	5604.4	2389.2	1173.3	639.8	522.9	430.7	368.7	324.4	301.3
40°	14161.6	11878.8	5506.9	2297.1	1136.1	607.9	506.9	411.2	349.2	301.3	276.5
42.5°	14968.1	12426.4	5467.9	2236.8	1075.9	613.3	494.5	402.3	329.7	280.0	258.8
45°	15620.3	12945.8	5521.1	2204.9	1010.3	604.4	498.1	391.7	313.7	265.9	244.6
47.5°	16316.9	13679.5	5693.0	2173.0	946.5	561.9	524.6	389.9	306.6	257.0	234.0
50°	17126.9	14618.9	6086.5	2095.0	868.5	515.8	558.3	388.2	297.8	246.4	223.3
52.5°	18206.3	15685.9	6492.4	1958.5	755.1	471.5	533.5	382.8	280.0	234.0	210.9
55°	19175.8	16809.6	6836.2	1797.2	611.5	407.7	480.3	359.8	249.9	212.7	191.4
57.5°	19576.4	17444.2	6825.6	1573.9	489.2	358.0	395.2	329.7	218.0	187.9	170.2
59°	19429.3	17364.4	6596.9	1409.1	446.7	331.4	327.9	326.1	203.8	170.2	156.0
60°	19221.9	17073.7	6350.6	1327.5	420.1	313.7	301.3	322.6	191.4	159.5	145.3
62.5°	18427.9	15868.5	5533.5	1189.3	384.6	265.9	241.0	273.0	170.2	138.2	125.8
65°	17277.6	14016.3	4684.5	1150.3	374.0	219.8	200.3	195.0	145.3	117.0	106.3
67.5°	15033.7	11861.0	3794.8	1123.7	377.5	184.3	175.5	147.1	120.5	97.5	90.4
70°	12036.5	9248.5	3107.1	1093.6	381.1	150.7	147.1	117.0	97.5	81.5	74.4
72.5°	7313.0	5482.1	2445.9	950.0	370.4	120.5	131.2	88.6	70.9	58.5	54.9
75°	4521.4	3752.2	1517.2	739.1	244.6	88.6	92.2	54.9	47.9	37.2	37.2
77.5°	2619.6	2369.7	542.4	265.9	108.1	53.2	40.8	28.4	26.6	16.0	16.0
80°	1086.5	870.3	187.9	90.4	58.5	24.8	8.9	1.8	0.0	0.0	0.0
82.5°	317.3	281.8	51.4	40.8	17.7	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°	7796.9	7796.9	7796.9	7796.9	7796.9	7796.9	7796.9	7796.9	7796.9	7796.9	7796.9
2.5°	6306.3	6247.8	6221.2	6311.6	6228.3	6334.6	6253.1	6288.5	6393.1	6439.2	6558.0
5°	4720.0	4659.7	4631.3	4767.8	4760.7	4828.1	4821.0	4883.0	4936.2	4817.4	4939.7
7.5°	3287.8	3247.1	3314.4	3420.8	3534.2	3497.0	3497.0	3413.7	3442.0	3424.3	3419.0
10°	2500.9	2360.9	2325.4	2321.9	2364.4	2373.3	2325.4	2210.2	2252.7	2265.2	2339.6
12.5°	1967.4	1859.3	1694.4	1620.0	1600.5	1616.4	1458.7	1357.7	1405.5	1377.2	1449.8
15°	1410.8	1322.2	1224.7	1141.4	1118.4	1086.5	914.6	794.0	779.9	785.2	797.6
17.5°	1006.7	946.5	946.5	857.9	810.0	714.3	627.4	574.3	568.9	574.3	583.1
20°	742.6	710.7	707.2	684.2	631.0	567.2	506.9	496.3	492.7	501.6	505.1
22.5°	639.8	606.2	577.8	576.0	526.4	473.2	444.9	430.7	432.5	436.0	444.9
25°	572.5	537.0	506.9	489.2	453.7	416.5	389.9	382.8	382.8	388.2	389.9
27.5°	524.6	480.3	453.7	428.9	397.0	365.1	342.1	336.8	333.2	336.8	345.6
30°	491.0	446.7	413.0	375.8	350.9	320.8	301.3	294.2	292.4	294.2	301.3
32.5°	420.1	393.5	366.9	333.2	303.1	283.6	262.3	249.9	249.9	253.5	260.5
35°	317.3	303.1	301.3	292.4	267.6	246.4	221.6	209.1	209.1	216.2	219.8
37.5°	280.0	253.5	249.9	246.4	235.7	207.4	184.3	173.7	171.9	177.2	184.3
40°	255.2	225.1	209.1	205.6	207.4	175.5	150.7	140.0	140.0	141.8	148.9
42.5°	235.7	200.3	171.9	168.4	175.5	147.1	122.3	111.7	111.7	111.7	120.5
45°	219.8	179.0	145.3	127.6	138.2	120.5	99.3	88.6	85.1	88.6	92.2
47.5°	209.1	163.1	127.6	102.8	102.8	95.7	79.8	67.4	63.8	65.6	70.9
50°	200.3	148.9	108.1	83.3	74.4	76.2	60.3	51.4	47.9	47.9	53.2
52.5°	186.1	134.7	93.9	70.9	56.7	51.4	44.3	37.2	35.4	37.2	40.8
55°	168.4	122.3	81.5	58.5	44.3	35.4	31.9	26.6	24.8	26.6	31.9
57.5°	148.9	102.8	65.6	46.1	30.1	23.0	21.3	17.7	14.2	16.0	19.5
59°	136.5	92.2	56.7	37.2	23.0	16.0	16.0	12.4	8.9	10.6	16.0
60°	131.2	85.1	47.9	31.9	19.5	12.4	12.4	8.9	5.3	7.1	12.4
62.5°	111.7	70.9	37.2	19.5	8.9	1.8	5.3	1.8	0.0	1.8	5.3
65°	93.9	56.7	24.8	8.9	0.0	0.0	0.0	0.0	0.0	0.0	1.8
67.5°	78.0	42.5	12.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	62.0	28.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	42.5	16.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	26.6	5.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	10.6	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°	7796.9	7796.9	7796.9	7796.9	7796.9	7796.9	7796.9	7796.9	7796.9	7796.9
2.5°	6565.0	6818.5	6974.5	7268.7	7570.0	7802.2	8092.9	8353.4	8461.5	8518.3
5°	5063.8	5416.5	5716.1	6164.5	6581.0	7087.9	7601.9	8208.1	8440.3	8500.5
7.5°	3553.7	3913.5	4227.2	4746.5	5340.3	6019.1	6788.4	7557.6	7896.1	7991.8
10°	2566.5	2951.1	3333.9	3853.2	4408.0	5143.6	5944.7	6896.5	7286.4	7360.9
12.5°	1620.0	2033.0	2655.1	3296.7	3883.4	4475.4	5313.7	6348.8	6779.5	6916.0
15°	939.4	1247.8	1717.5	2554.1	3300.2	4083.7	4998.2	6143.2	6625.3	6765.3
17.5°	629.2	735.6	1058.1	1698.0	2683.4	3722.1	4918.5	6311.6	6845.1	7024.1
20°	530.0	577.8	691.2	1035.1	2066.6	3399.5	4939.7	6768.9	7469.0	7692.3
22.5°	466.1	510.5	583.1	744.4	1442.8	2998.9	5040.8	7422.9	8326.8	8612.2
25°	411.2	455.5	519.3	616.8	969.5	2536.3	5262.3	8380.0	9463.0	9776.7
27.5°	365.1	405.9	460.8	544.1	746.2	2020.6	5459.1	9312.3	10499.8	10755.0
30°	322.6	356.3	409.4	473.2	620.3	1558.0	5558.3	10127.6	11254.9	11538.5
32.5°	280.0	311.9	363.3	414.7	510.5	1187.5	5489.2	10726.7	11988.7	12169.4
35°	239.3	273.0	315.5	363.3	441.3	958.9	5143.6	11400.2	12749.0	12890.8
37.5°	205.6	234.0	278.3	315.5	398.8	767.5	4725.3	12006.4	13601.6	13805.4
40°	173.7	202.1	246.4	280.0	366.9	604.4	4347.7	12679.9	14500.2	14751.9
42.5°	141.8	175.5	214.5	269.4	315.5	460.8	3890.5	13225.8	15175.5	15491.0
45°	113.4	150.7	193.2	267.6	274.7	350.9	3449.1	13651.2	15772.8	16056.4
47.5°	90.4	127.6	186.1	249.9	225.1	278.3	3197.4	14096.1	16269.0	16495.9
50°	72.7	106.3	195.0	219.8	187.9	235.7	3190.4	14592.3	16526.1	16676.7
52.5°	58.5	86.8	164.8	168.4	159.5	207.4	3381.8	15150.7	16788.4	16912.4
55°	49.6	72.7	108.1	124.1	143.6	187.9	3525.3	16010.3	17414.0	17531.0
57.5°	39.0	62.0	83.3	99.3	127.6	171.9	3544.8	16673.2	18206.3	18282.5
59°	33.7	53.2	74.4	88.6	117.0	161.3	3465.1	16713.9	18257.7	18380.0
60°	28.4	47.9	65.6	83.3	108.1	152.4	3378.2	16417.9	18066.3	18202.8
62.5°	21.3	37.2	47.9	67.4	88.6	131.2	2967.0	15384.6	17334.3	17430.0
65°	14.2	26.6	35.4	49.6	69.1	113.4	2417.6	14044.7	16203.5	16417.9
67.5°	8.9	19.5	28.4	37.2	56.7	95.7	1722.8	12043.6	14620.7	14758.9
70°	5.3	12.4	21.3	30.1	44.3	76.2	1022.7	9519.7	12164.1	12192.5
72.5°	3.5	8.9	14.2	21.3	35.4	69.1	496.3	6205.2	8881.6	9220.1
75°	1.8	5.3	8.9	16.0	28.4	56.7	237.5	4145.7	6462.2	6559.7
77.5°	0.0	1.8	5.3	10.6	21.3	44.3	138.2	2722.4	4406.2	4507.3
80°	0.0	0.0	3.5	8.9	16.0	28.4	83.3	1605.8	2669.3	2718.9
82.5°	0.0	0.0	1.8	7.1	10.6	21.3	42.5	705.4	1747.6	1765.3
85°	0.0	0.0	1.8	7.1	8.9	14.2	16.0	95.7	776.3	790.5
87.5°	0.0	0.0	1.8	8.9	8.9	8.9	8.9	5.3	65.6	81.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)