

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: P459076

Luminaire Tested: **GALN-SA5D-735-U-SLL-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P459076
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-SA5D-735-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3500K, 1200mA 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: 25917 lumens
Efficiency: N/A
Efficacy: 83.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

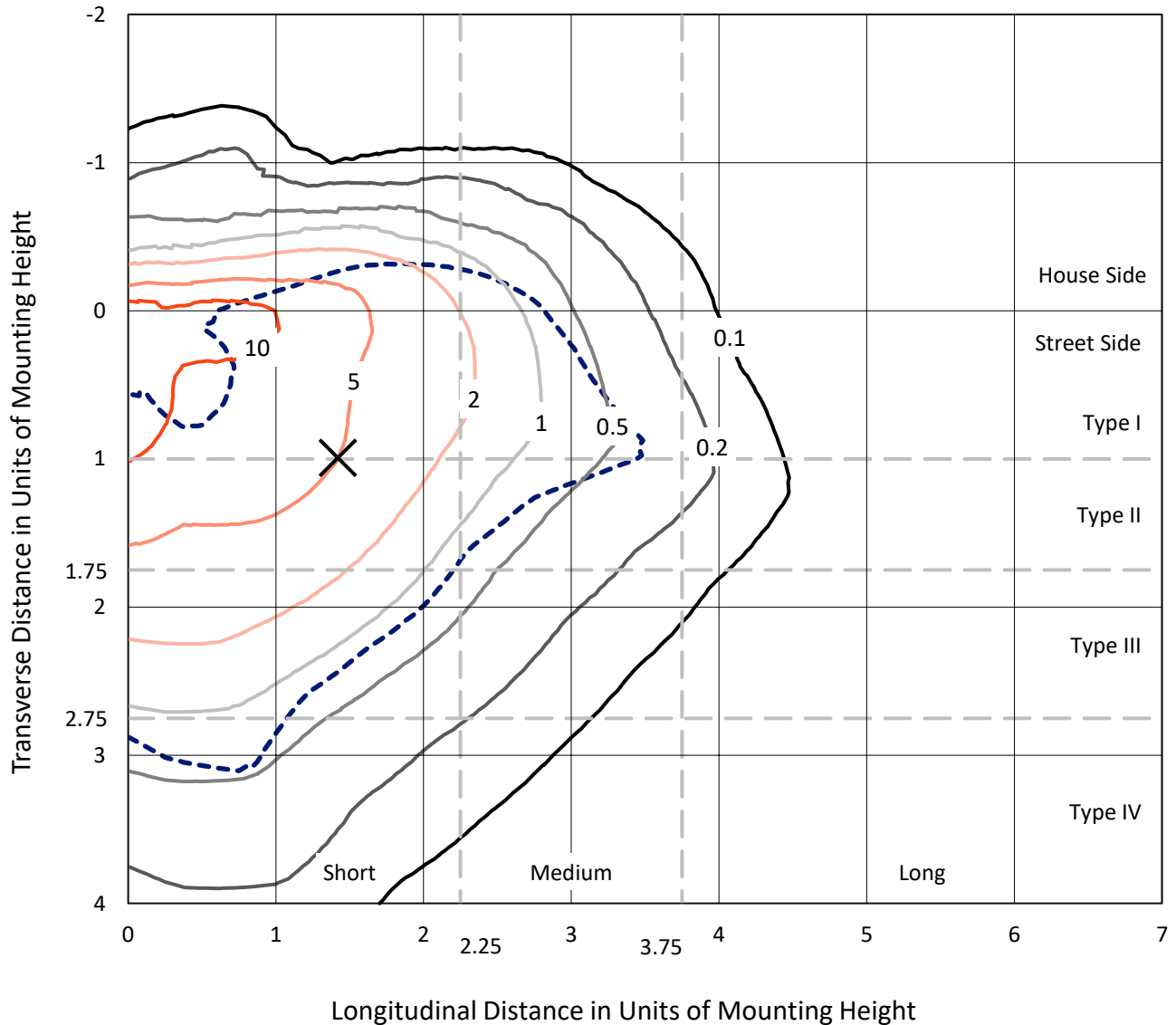
Input Watts (W): 309
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

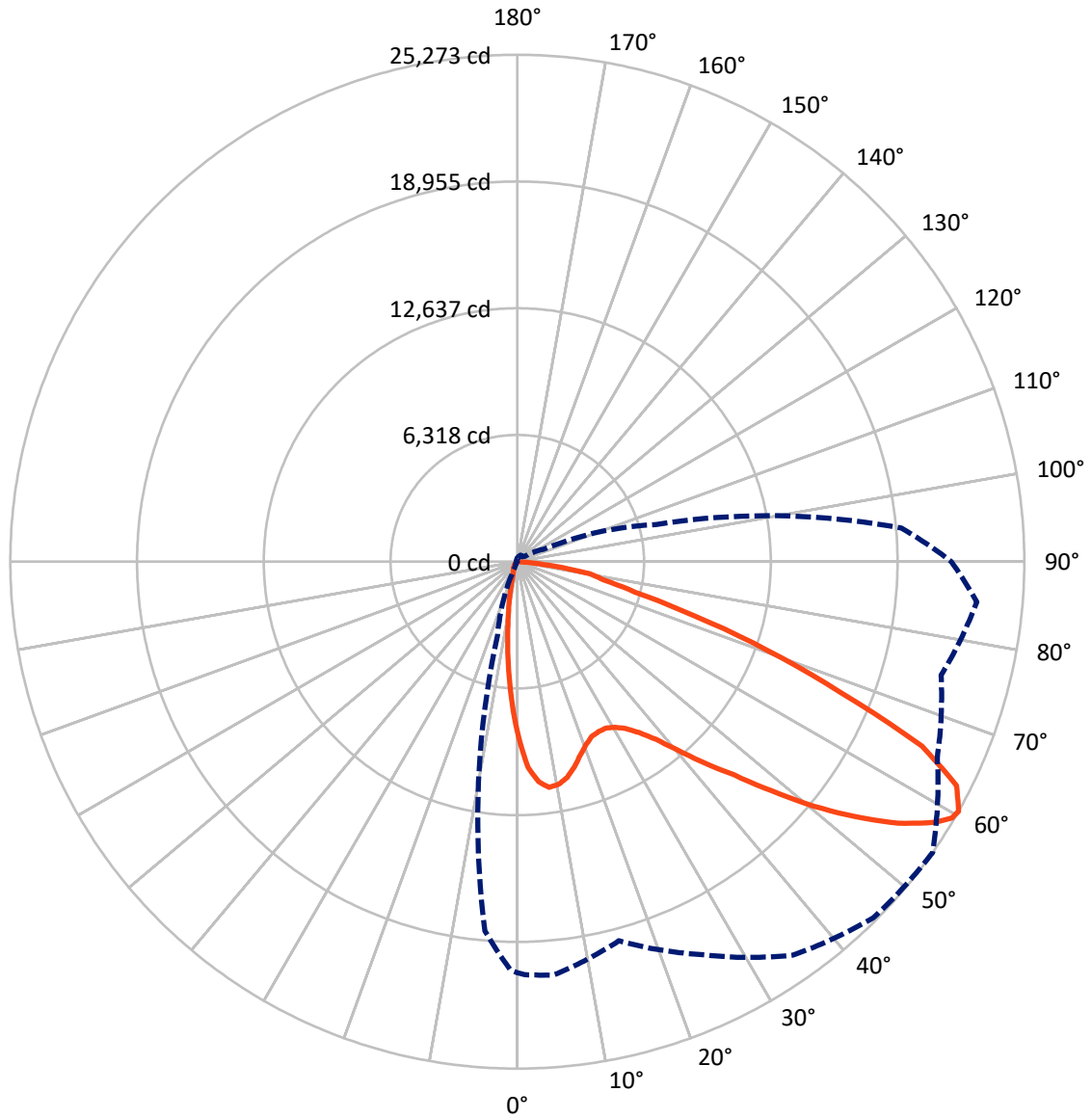
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18.1 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	3846.3	0.0	3846.3
	% Fixture	14.8	0.0	14.8
Street Side	Lumens	22070.7	0.0	22070.7
	% Fixture	85.2	0.0	85.2
Total	Lumens	25917.0	0.0	25917.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	649.8	2.5
10°-20°	1279.7	4.9
20°-30°	1894.1	7.3
30°-40°	2823.4	10.9
40°-50°	4134.9	16.0
50°-60°	5969.5	23.0
60°-70°	6279.7	24.2
70°-80°	2583.2	10.0
80°-90°	302.6	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°	25917.0	100.0
0°-180°	25917.0	100.0

Coefficient of Utilization



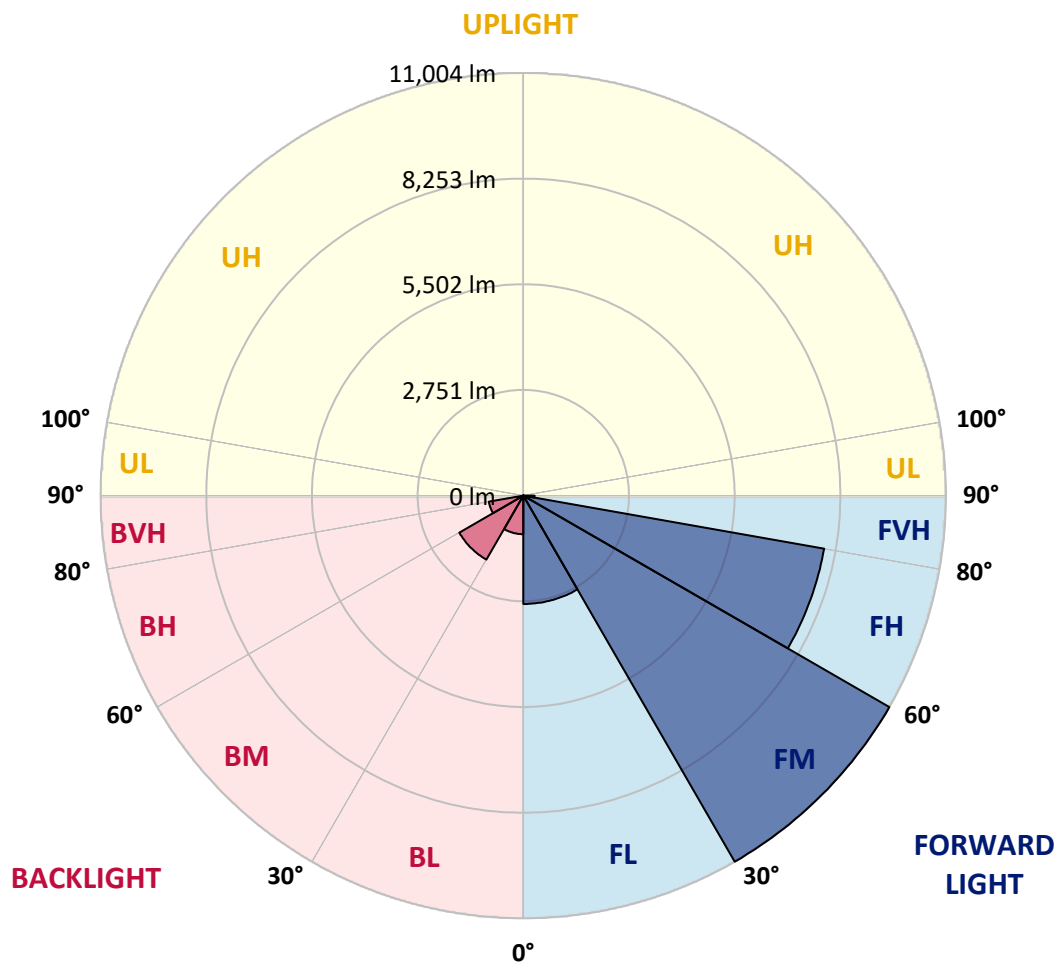
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2820.1	10.9			
FM	(30°-60°)	11004.4	42.5			
FH	(60°-80°)	7952.5	30.7			G4/12000
FVH	(80°-90°)	293.7	1.1			G3/500
BL	(0°-30°)	1003.5	3.9	B3/2500		
BM	(30°-60°)	1923.5	7.4	B2/2500		
BH	(60°-80°)	910.4	3.5	B2/1000		G2/1000
BVH	(80°-90°)	8.9	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	8775.4	8775.4	8775.4	8775.4	8775.4	8775.4	8775.4	8775.4	8775.4	8775.4	8775.4
2.5°	9587.3	9571.4	9713.0	9944.4	10177.8	10299.5	10275.6	10265.6	10072.1	9930.5	9633.2
5°	9567.4	9649.2	9902.5	10528.9	11003.7	11233.1	11300.9	11015.7	10638.6	10092.0	9417.8
7.5°	8994.9	9096.6	9509.5	10489.0	11332.8	11831.6	11813.6	11356.8	10578.8	9733.0	8771.4
10°	8284.7	8404.4	8889.1	10078.1	11173.3	11831.6	11867.5	11289.0	10321.4	9236.2	8224.8
12.5°	7784.0	7925.6	8462.2	9695.1	10762.3	11410.6	11452.5	11033.6	10127.9	9044.7	7927.6
15°	7614.4	7748.1	8292.7	9501.6	10325.4	10674.5	10664.6	10620.7	10052.1	9090.6	7943.6
17.5°	7905.7	8015.4	8629.8	9589.3	9916.5	9880.6	9932.4	10143.9	10068.1	9475.6	8446.3
20°	8657.7	8769.4	9429.7	9858.6	9603.3	9375.9	9399.8	9752.9	10215.7	10199.8	9232.2
22.5°	9693.1	9882.6	10481.0	10381.3	9561.4	9062.7	9012.8	9471.6	10467.1	11033.6	10293.5
25°	11003.7	11195.2	11662.0	11215.1	9766.9	8988.9	8943.0	9385.9	10772.3	11847.5	11488.4
27.5°	12104.9	12250.5	12715.3	12027.1	10070.1	9020.8	8945.0	9397.8	11019.7	12539.7	12495.9
30°	12986.6	13094.3	13367.6	12406.1	10331.4	9160.4	9072.7	9573.4	11129.4	12876.9	13311.8
32.5°	13696.8	13878.3	13964.1	12811.0	10706.5	9423.8	9274.1	9910.5	11396.7	13293.8	14167.6
35°	14508.7	14718.1	14608.4	13198.0	11201.2	9834.7	9651.2	10457.1	11801.6	13678.8	15161.0
37.5°	15538.0	15779.4	15350.5	13605.0	11723.8	10453.1	10367.3	11225.1	12416.1	14229.4	16226.3
40°	16603.3	16742.9	16070.7	14099.7	12366.2	11352.8	11434.6	12366.2	13220.0	14889.7	17359.3
42.5°	17435.1	17566.8	16810.8	14514.7	13022.5	12420.0	12761.2	13742.6	14141.6	15566.0	18205.2
45°	18071.5	18183.2	17323.4	14967.5	13908.2	13966.1	14610.4	15161.0	15065.2	15978.9	18857.5
47.5°	18566.2	18662.0	17718.4	15454.2	15234.8	15857.2	16842.7	17076.1	16022.8	16425.7	19448.0
50°	18769.7	18797.6	17842.1	16074.6	16740.9	18267.0	19294.4	19152.7	17120.0	16922.5	20076.4
52.5°	19035.0	19029.0	18195.2	16665.1	18157.3	20421.5	21446.8	21125.7	18360.8	17666.6	20782.5
55°	19731.2	19739.2	18951.2	17503.0	19364.2	22161.0	23258.2	23024.8	19669.4	18923.3	21606.4
57.5°	20577.1	20607.0	20026.5	18482.5	20517.2	23421.7	24610.7	24520.9	21438.8	20321.7	22384.4
59°	20686.8	20746.6	20535.2	19172.7	21201.5	23808.8	25073.5	25161.3	22386.4	21243.3	22805.3
60°	20487.3	20587.0	20682.8	19563.7	21602.4	23948.4	25101.4	25273.0	23098.6	21869.7	22996.8
62.5°	19617.5	19775.1	20255.9	20766.6	22103.1	23513.5	24209.7	24568.8	23980.3	23515.5	23014.8
65°	18478.5	18560.3	19254.5	20980.0	21131.6	21482.7	21698.2	22159.0	22921.0	24149.9	22190.9
67.5°	16611.3	16852.6	17702.5	19741.2	18265.0	17850.1	17796.2	17337.4	19316.3	22637.8	20160.1
70°	13722.7	13830.4	14877.7	16184.4	13784.5	13146.2	13401.5	13230.0	14973.5	19487.9	16226.3
72.5°	10377.3	10620.7	11644.0	12900.8	9379.9	8552.0	9256.2	9192.4	11247.1	15661.7	11147.3
75°	7383.0	7540.6	8845.2	10096.0	6569.1	5565.7	5819.0	6056.4	7851.8	12366.2	6587.1
77.5°	5072.9	5208.6	6188.1	6676.8	4791.7	4590.2	4199.2	4428.6	5144.8	7337.1	3584.8
80°	3060.1	3054.1	3698.5	3818.2	3337.4	3876.0	3251.6	3650.6	3110.0	3139.9	1388.4
82.5°	1986.9	1966.9	2262.2	2465.7	1857.2	1953.0	1310.6	1889.1	2026.8	875.7	438.9
85°	889.7	927.6	1087.2	1434.3	813.9	432.9	267.3	580.5	863.8	440.9	0.0
87.5°	91.8	71.8	191.5	349.1	111.7	12.0	39.9	19.9	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°	8775.4	8775.4	8775.4	8775.4	8775.4	8775.4	8775.4	8775.4	8775.4	8775.4	8775.4
2.5°	9495.6	9379.9	9034.8	8711.6	8434.3	8095.2	7875.7	7530.6	7321.2	7257.3	7267.3
5°	9114.6	8781.4	8125.1	7600.4	7016.0	6682.8	6176.1	5689.4	5426.0	5328.3	5284.4
7.5°	8316.6	7959.5	7167.6	6343.7	5717.3	5132.8	4755.8	4326.9	4033.6	3792.2	3750.4
10°	7724.1	7255.3	6273.9	5388.1	4893.4	4454.5	4077.5	3648.6	3303.5	3028.2	2952.4
12.5°	7369.0	6844.4	5749.2	5007.1	4538.3	4087.5	3596.7	3100.0	2746.9	2449.7	2312.1
15°	7305.2	6696.8	5601.6	4733.8	4155.3	3610.7	2958.4	2421.8	2058.7	1777.4	1691.6
17.5°	7690.2	6962.1	5579.6	4448.6	3654.6	2882.6	2204.3	1759.5	1350.5	1192.9	1131.1
20°	8376.5	7430.9	5577.7	4117.4	3139.9	2220.3	1548.0	1147.0	981.5	905.7	869.8
22.5°	9312.0	8069.2	5683.4	3832.1	2605.3	1637.8	1105.2	913.6	817.9	756.1	742.1
25°	10455.1	9014.8	5942.7	3638.6	2196.3	1284.7	911.7	782.0	702.2	674.3	662.3
27.5°	11470.5	9920.5	6228.0	3439.2	1903.1	1137.1	845.8	716.2	652.3	630.4	612.4
30°	12346.2	10742.4	6365.6	3175.8	1667.7	1041.3	857.8	766.0	682.2	616.4	586.5
32.5°	13076.4	11372.7	6455.4	2936.4	1468.2	851.8	678.3	592.5	554.6	530.6	510.7
35°	13990.0	12055.0	6401.5	2800.8	1366.5	776.0	618.4	510.7	446.9	399.0	379.0
37.5°	14947.5	12737.2	6307.8	2689.1	1320.6	720.1	588.5	484.8	414.9	365.1	339.1
40°	15939.0	13369.6	6198.1	2585.3	1278.7	684.2	570.5	462.8	393.0	339.1	311.2
42.5°	16846.7	13986.0	6154.2	2517.5	1210.9	690.2	556.6	452.8	371.0	315.2	291.3
45°	17580.8	14570.5	6214.0	2481.6	1137.1	680.3	560.6	440.9	353.1	299.2	275.3
47.5°	18364.8	15396.4	6407.5	2445.7	1065.3	632.4	590.5	438.9	345.1	289.3	263.3
50°	19276.4	16453.7	6850.4	2357.9	977.5	580.5	628.4	436.9	335.1	277.3	251.4
52.5°	20491.3	17654.6	7307.2	2204.3	849.8	530.6	600.5	430.9	315.2	263.3	237.4
55°	21582.5	18919.3	7694.2	2022.8	688.2	458.8	540.6	405.0	281.3	239.4	215.4
57.5°	22033.3	19633.5	7682.2	1771.4	550.6	403.0	444.9	371.0	245.4	211.5	191.5
59°	21867.7	19543.7	7424.9	1585.9	502.7	373.0	369.1	367.1	229.4	191.5	175.5
60°	21634.3	19216.6	7147.6	1494.2	472.8	353.1	339.1	363.1	215.4	179.5	163.6
62.5°	20740.6	17860.1	6228.0	1338.6	432.9	299.2	271.3	307.2	191.5	155.6	141.6
65°	19446.0	15775.4	5272.4	1294.7	420.9	247.4	225.4	219.4	163.6	131.7	119.7
67.5°	16920.5	13349.7	4271.0	1264.7	424.9	207.5	197.5	165.6	135.7	109.7	101.7
70°	13547.1	10409.2	3497.0	1230.8	428.9	169.6	165.6	131.7	109.7	91.8	83.8
72.5°	8230.8	6170.1	2752.9	1069.2	416.9	135.7	147.6	99.7	79.8	65.8	61.8
75°	5088.9	4223.1	1707.6	831.9	275.3	99.7	103.7	61.8	53.9	41.9	41.9
77.5°	2948.4	2667.1	610.4	299.2	121.7	59.8	45.9	31.9	29.9	18.0	18.0
80°	1222.9	979.5	211.5	101.7	65.8	27.9	10.0	2.0	0.0	0.0	0.0
82.5°	357.1	317.2	57.9	45.9	19.9	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°	8775.4	8775.4	8775.4	8775.4	8775.4	8775.4	8775.4	8775.4	8775.4	8775.4	8775.4
2.5°	7097.7	7031.9	7002.0	7103.7	7010.0	7129.7	7037.9	7077.8	7195.5	7247.4	7381.0
5°	5312.3	5244.5	5212.6	5366.2	5358.2	5434.0	5426.0	5495.9	5555.7	5422.1	5559.7
7.5°	3700.5	3654.6	3730.4	3850.1	3977.8	3935.9	3935.9	3842.1	3874.0	3854.1	3848.1
10°	2814.8	2657.2	2617.3	2613.3	2661.2	2671.1	2617.3	2487.6	2535.5	2549.4	2633.2
12.5°	2214.3	2092.6	1907.1	1823.3	1801.4	1819.3	1641.8	1528.1	1581.9	1550.0	1631.8
15°	1587.9	1488.2	1378.5	1284.7	1258.8	1222.9	1029.4	893.7	877.7	883.7	897.7
17.5°	1133.1	1065.3	1065.3	965.5	911.7	803.9	706.2	646.3	640.4	646.3	656.3
20°	835.8	799.9	796.0	770.0	710.2	638.4	570.5	558.6	554.6	564.5	568.5
22.5°	720.1	682.2	650.3	648.3	592.5	532.6	500.7	484.8	486.7	490.7	500.7
25°	644.3	604.4	570.5	550.6	510.7	468.8	438.9	430.9	430.9	436.9	438.9
27.5°	590.5	540.6	510.7	482.8	446.9	410.9	385.0	379.0	375.0	379.0	389.0
30°	552.6	502.7	464.8	422.9	395.0	361.1	339.1	331.1	329.2	331.1	339.1
32.5°	472.8	442.9	412.9	375.0	341.1	319.2	295.2	281.3	281.3	285.3	293.2
35°	357.1	341.1	339.1	329.2	301.2	277.3	249.4	235.4	235.4	243.4	247.4
37.5°	315.2	285.3	281.3	277.3	265.3	233.4	207.5	195.5	193.5	199.5	207.5
40°	287.3	253.3	235.4	231.4	233.4	197.5	169.6	157.6	157.6	159.6	167.6
42.5°	265.3	225.4	193.5	189.5	197.5	165.6	137.6	125.7	125.7	125.7	135.7
45°	247.4	201.5	163.6	143.6	155.6	135.7	111.7	99.7	95.8	99.7	103.7
47.5°	235.4	183.5	143.6	115.7	115.7	107.7	89.8	75.8	71.8	73.8	79.8
50°	225.4	167.6	121.7	93.8	83.8	85.8	67.8	57.9	53.9	53.9	59.8
52.5°	209.5	151.6	105.7	79.8	63.8	57.9	49.9	41.9	39.9	41.9	45.9
55°	189.5	137.6	91.8	65.8	49.9	39.9	35.9	29.9	27.9	29.9	35.9
57.5°	167.6	115.7	73.8	51.9	33.9	25.9	23.9	19.9	16.0	18.0	21.9
59°	153.6	103.7	63.8	41.9	25.9	18.0	18.0	14.0	10.0	12.0	18.0
60°	147.6	95.8	53.9	35.9	21.9	14.0	14.0	10.0	6.0	8.0	14.0
62.5°	125.7	79.8	41.9	21.9	10.0	2.0	6.0	2.0	0.0	2.0	6.0
65°	105.7	63.8	27.9	10.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0
67.5°	87.8	47.9	14.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	69.8	31.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	47.9	18.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	29.9	6.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	12.0	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°	8775.4	8775.4	8775.4	8775.4	8775.4	8775.4	8775.4	8775.4	8775.4	8775.4
2.5°	7389.0	7674.3	7849.8	8181.0	8520.1	8781.4	9108.6	9401.8	9523.5	9587.3
5°	5699.3	6096.3	6433.4	6938.2	7406.9	7977.5	8556.0	9238.2	9499.6	9567.4
7.5°	3999.7	4404.7	4757.8	5342.3	6010.5	6774.6	7640.3	8506.1	8887.1	8994.9
10°	2888.6	3321.5	3752.3	4336.8	4961.2	5789.1	6690.8	7762.0	8200.9	8284.7
12.5°	1823.3	2288.1	2988.3	3710.5	4370.8	5037.0	5980.6	7145.6	7630.4	7784.0
15°	1057.3	1404.4	1933.0	2874.6	3714.4	4596.2	5625.5	6914.2	7456.8	7614.4
17.5°	708.2	827.9	1190.9	1911.1	3020.2	4189.2	5535.8	7103.7	7704.2	7905.7
20°	596.5	650.3	778.0	1165.0	2326.0	3826.2	5559.7	7618.4	8406.4	8657.7
22.5°	524.7	574.5	656.3	837.8	1623.8	3375.3	5673.4	8354.5	9371.9	9693.1
25°	462.8	512.7	584.5	694.2	1091.2	2854.7	5922.8	9431.7	10650.6	11003.7
27.5°	410.9	456.8	518.7	612.4	839.8	2274.1	6144.2	10481.0	11817.6	12104.9
30°	363.1	401.0	460.8	532.6	698.2	1753.5	6255.9	11398.7	12667.4	12986.6
32.5°	315.2	351.1	408.9	466.8	574.5	1336.6	6178.1	12072.9	13493.3	13696.8
35°	269.3	307.2	355.1	408.9	496.7	1079.2	5789.1	12831.0	14349.1	14508.7
37.5°	231.4	263.3	313.2	355.1	448.8	863.8	5318.3	13513.2	15308.6	15538.0
40°	195.5	227.4	277.3	315.2	412.9	680.3	4893.4	14271.3	16320.0	16603.3
42.5°	159.6	197.5	241.4	303.2	355.1	518.7	4378.7	14885.7	17080.1	17435.1
45°	127.7	169.6	217.4	301.2	309.2	395.0	3882.0	15364.5	17752.3	18071.5
47.5°	101.7	143.6	209.5	281.3	253.3	313.2	3598.7	15865.2	18310.9	18566.2
50°	81.8	119.7	219.4	247.4	211.5	265.3	3590.8	16423.7	18600.1	18769.7
52.5°	65.8	97.7	185.5	189.5	179.5	233.4	3806.2	17052.1	18895.4	19035.0
55°	55.9	81.8	121.7	139.6	161.6	211.5	3967.8	18019.6	19599.6	19731.2
57.5°	43.9	69.8	93.8	111.7	143.6	193.5	3989.7	18765.7	20491.3	20577.1
59°	37.9	59.8	83.8	99.7	131.7	181.5	3900.0	18811.6	20549.1	20686.8
60°	31.9	53.9	73.8	93.8	121.7	171.6	3802.2	18478.5	20333.7	20487.3
62.5°	23.9	41.9	53.9	75.8	99.7	147.6	3339.4	17315.5	19509.8	19617.5
65°	16.0	29.9	39.9	55.9	77.8	127.7	2721.0	15807.3	18237.1	18478.5
67.5°	10.0	21.9	31.9	41.9	63.8	107.7	1939.0	13555.1	16455.7	16611.3
70°	6.0	14.0	23.9	33.9	49.9	85.8	1151.0	10714.4	13690.8	13722.7
72.5°	4.0	10.0	16.0	23.9	39.9	77.8	558.6	6984.0	9996.3	10377.3
75°	2.0	6.0	10.0	18.0	31.9	63.8	267.3	4666.0	7273.3	7383.0
77.5°	0.0	2.0	6.0	12.0	23.9	49.9	155.6	3064.1	4959.2	5072.9
80°	0.0	0.0	4.0	10.0	18.0	31.9	93.8	1807.4	3004.3	3060.1
82.5°	0.0	0.0	2.0	8.0	12.0	23.9	47.9	794.0	1966.9	1986.9
85°	0.0	0.0	2.0	8.0	10.0	16.0	18.0	107.7	873.8	889.7
87.5°	0.0	0.0	2.0	10.0	10.0	10.0	10.0	6.0	73.8	91.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)