

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: P534165

Luminaire Tested: **GALN-SA9C-827-U-SLR-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P534165
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-25)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9C-827-U-SLR-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25902 lumens
Efficiency: N/A
Efficacy: 53.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G2

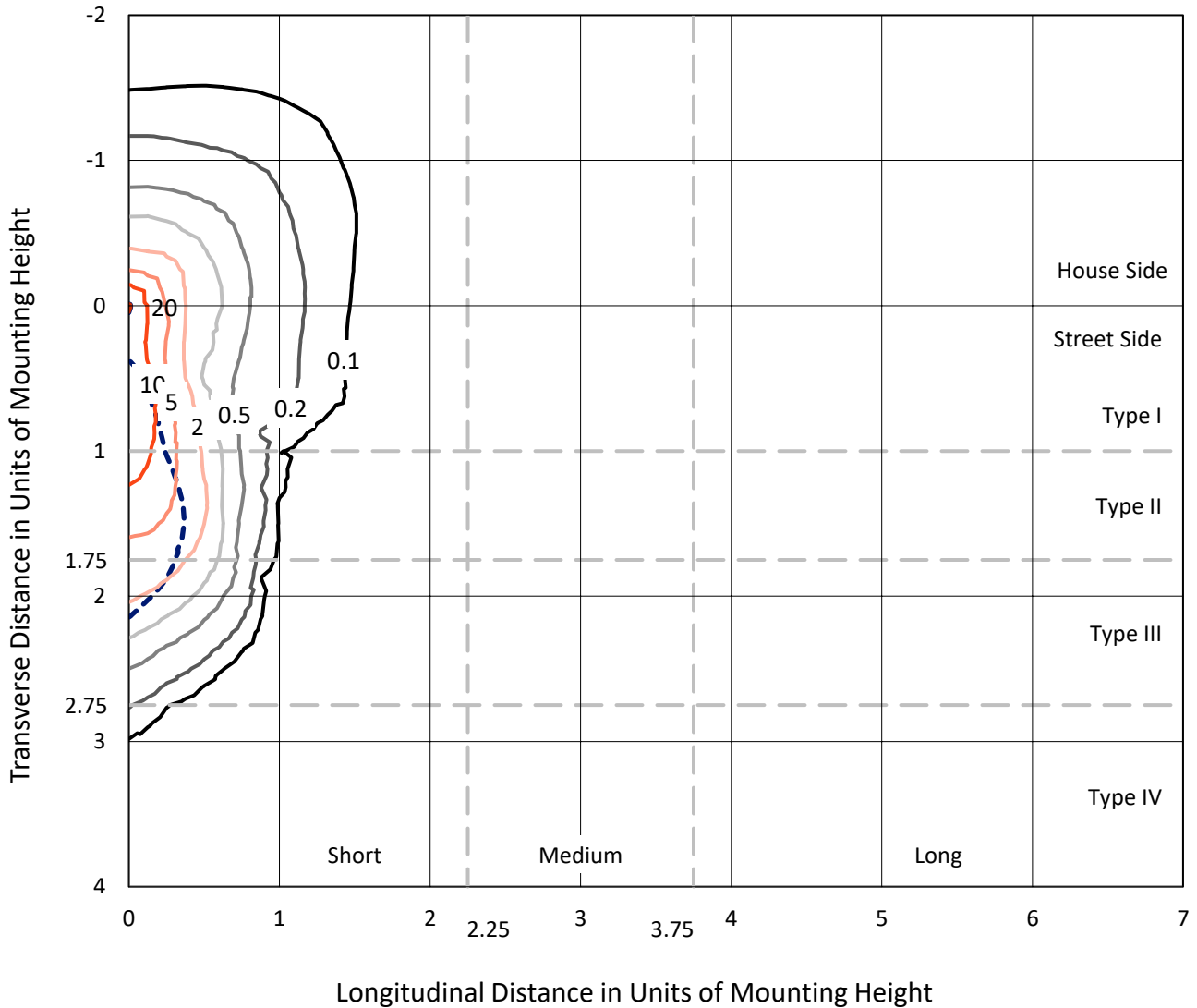
Input Watts (W): 481
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

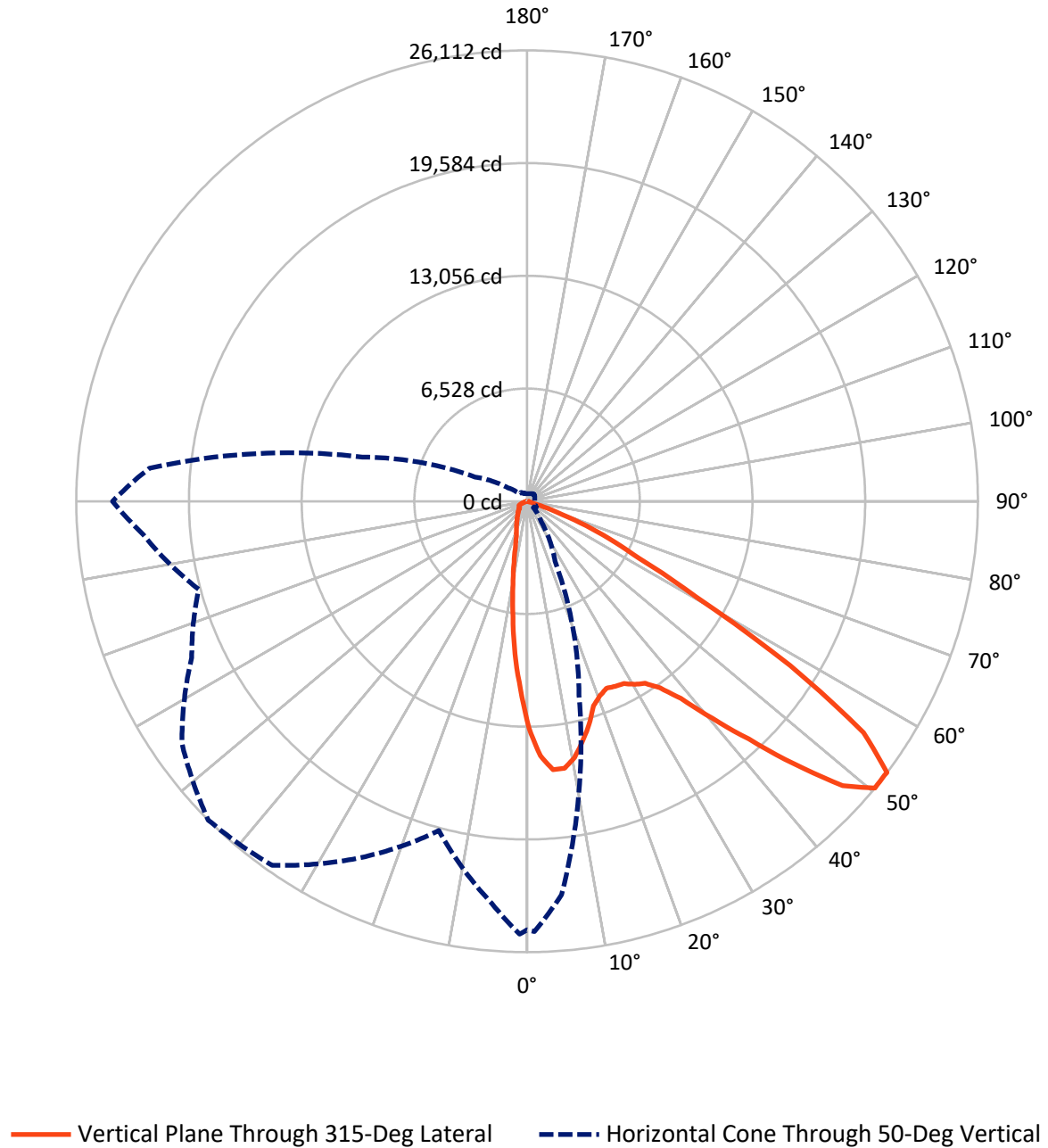
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 21 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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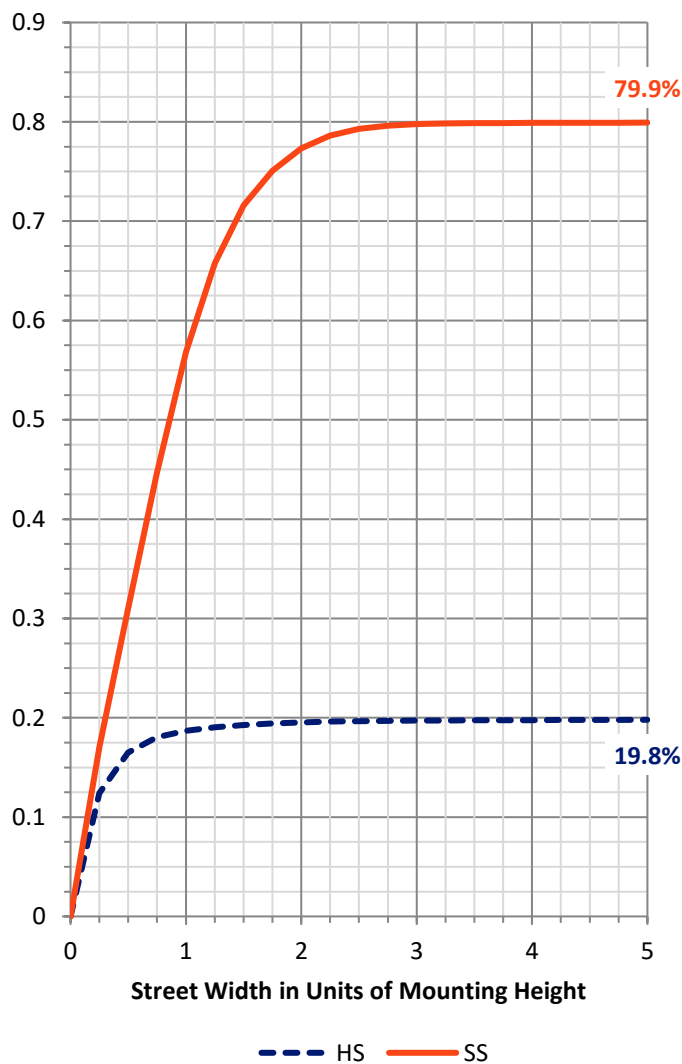
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5188.2	0.0	5188.2
	% Fixture	20.0	0.0	20.0
Street Side	Lumens	20713.8	0.0	20713.8
	% Fixture	80.0	0.0	80.0
Total	Lumens	25902.0	0.0	25902.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	957.4	3.7
10°-20°	1902.9	7.3
20°-30°	2858.7	11.0
30°-40°	4290.8	16.6
40°-50°	6030.5	23.3
50°-60°	6504.9	25.1
60°-70°	3020.2	11.7
70°-80°	284.2	1.1
80°-90°	52.4	0.2
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°	25902.0	100.0
0°-180°	25902.0	100.0

Coefficient of Utilization

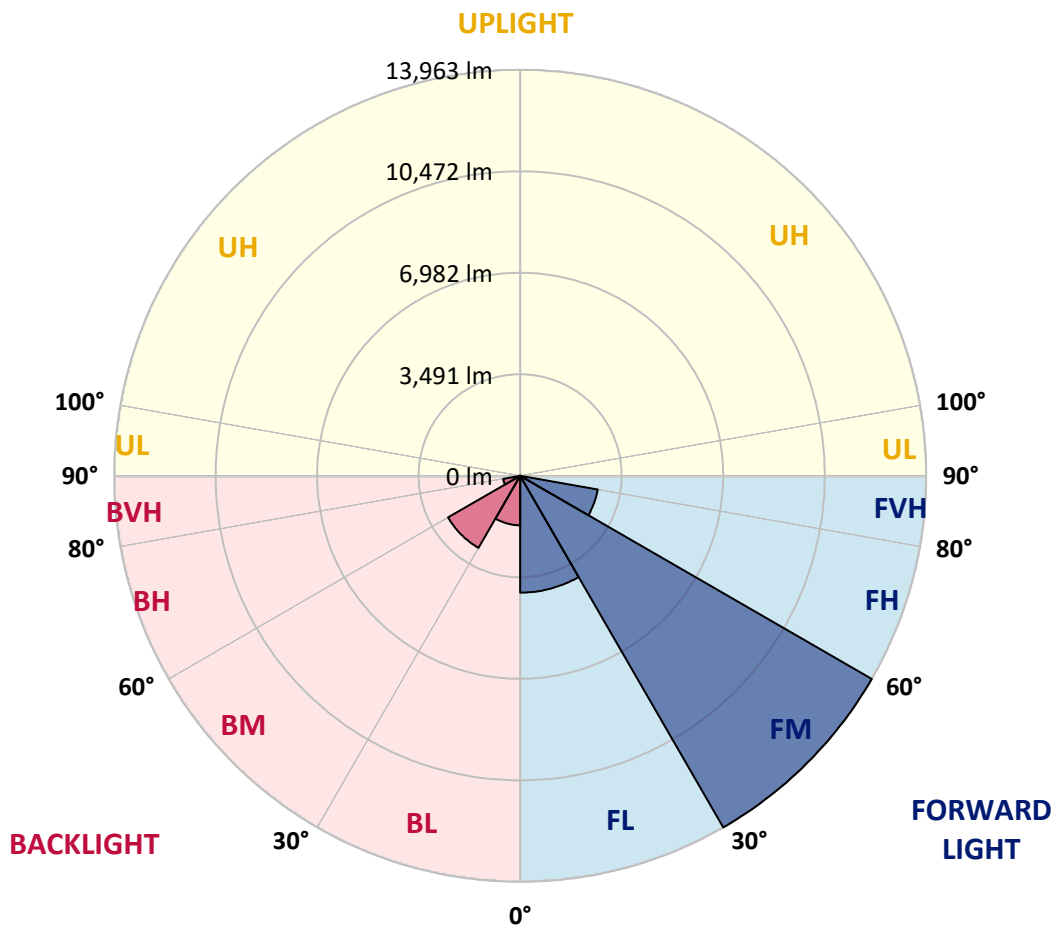


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4018.5	15.5			
FM (30°-60°)	13963.1	53.9			
FH (60°-80°)	2708.6	10.5			G2/5000
FVH (80°-90°)	23.6	0.1			G1/100
BL (0°-30°)	1700.5	6.6	B3/2500		
BM (30°-60°)	2863.1	11.1	B3/5000		
BH (60°-80°)	595.7	2.3	B2/1000		G2/1000
BVH (80°-90°)	28.8	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2
 Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	13135.6	13135.6	13135.6	13135.6	13135.6	13135.6	13135.6	13135.6	13135.6	13135.6	13135.6
2.5°	13654.6	13443.9	13176.7	12955.7	12626.8	11963.9	11784.0	11568.1	11388.3	11146.7	10807.6
5°	12416.1	12349.3	12226.0	11393.4	10792.1	9990.4	9332.6	9055.1	8690.2	8392.2	8176.3
7.5°	11470.5	11203.3	10812.7	9975.0	9014.0	8155.8	7426.0	6999.5	6516.4	6351.9	6059.0
10°	10458.1	10519.8	9944.2	8767.3	7605.9	6912.1	6459.9	6048.7	5611.9	5324.1	4907.9
12.5°	10134.3	9933.9	9491.9	8037.6	7045.7	6398.2	5848.3	5339.5	4877.0	4414.5	4013.6
15°	10345.0	10036.7	9420.0	7883.4	6614.0	5807.2	5118.6	4429.9	4003.4	3412.4	2996.1
17.5°	11100.5	10853.8	10026.4	8047.9	6393.1	5241.9	4219.2	3510.0	2857.3	2322.9	2112.2
20°	12359.6	12010.1	10972.0	8258.6	6064.2	4558.4	3422.7	2549.0	1932.3	1706.2	1588.0
22.5°	13593.0	13402.8	12092.3	8664.5	5771.2	3952.0	2569.6	1716.5	1444.1	1403.0	1325.9
25°	15941.5	15371.1	13803.7	9399.4	5545.1	3381.5	1937.4	1382.4	1223.1	1192.3	1202.6
27.5°	17339.4	16861.4	15386.5	9887.7	5293.3	2944.7	1639.4	1269.4	1161.4	1094.6	1068.9
30°	18680.7	18125.7	16172.8	10175.4	4753.7	2482.2	1454.4	1218.0	1192.3	1094.6	1063.8
32.5°	19713.6	19168.9	17308.5	10607.1	4532.7	2184.1	1197.4	950.7	883.9	873.6	966.2
35°	21296.5	20715.8	18279.8	10843.5	4363.1	2030.0	1038.1	848.0	770.9	740.0	745.2
37.5°	22771.4	22375.7	19179.2	10936.0	4183.2	1983.7	930.2	760.6	693.8	673.2	668.1
40°	24004.8	23120.9	20032.3	11033.7	4106.2	1896.3	863.4	693.8	647.5	616.7	616.7
42.5°	24570.1	23670.8	20988.1	10977.2	4085.6	1757.6	863.4	637.3	601.3	570.4	565.3
45°	24446.8	24081.9	21414.7	10951.5	4085.6	1618.8	786.3	621.8	570.4	529.3	519.1
47.5°	24765.4	24287.5	21949.2	11059.4	4003.4	1521.2	662.9	652.7	539.6	488.2	477.9
50°	24821.9	24914.4	22879.3	11619.5	3823.5	1397.8	519.1	642.4	519.1	442.0	431.7
52°	25191.9	24616.4	23162.0	11917.6	3633.4	1305.3	436.8	549.9	498.5	411.1	400.9
52.5°	24683.2	25058.3	23228.8	12025.5	3653.9	1243.7	421.4	539.6	488.2	411.1	385.4
55°	24112.7	24472.5	22956.4	12256.8	3350.7	976.4	328.9	390.6	442.0	359.7	344.3
57.5°	20957.3	21322.2	19950.0	11223.8	2728.9	688.6	272.4	292.9	390.6	334.0	318.6
60°	18629.3	18367.2	16743.2	9363.5	1937.4	385.4	215.8	226.1	426.5	308.3	303.2
62.5°	17025.9	16465.7	13993.8	7230.7	1182.0	257.0	169.6	174.7	328.9	287.8	287.8
65°	12596.0	11969.0	9296.7	4373.4	580.7	179.9	128.5	138.8	205.6	246.7	246.7
67.5°	7189.6	6948.1	4491.6	1973.4	241.5	113.1	97.6	107.9	159.3	200.4	190.1
70°	3304.5	2965.3	1726.7	416.3	113.1	77.1	77.1	87.4	128.5	149.0	138.8
72.5°	966.2	914.8	421.4	66.8	46.3	46.3	51.4	66.8	97.6	113.1	102.8
75°	71.9	46.3	30.8	20.6	20.6	30.8	41.1	66.8	97.6	107.9	87.4
77.5°	5.1	10.3	5.1	5.1	15.4	30.8	46.3	82.2	128.5	133.6	97.6
80°	5.1	5.1	0.0	5.1	15.4	30.8	51.4	92.5	143.9	154.2	82.2
82.5°	0.0	0.0	0.0	5.1	20.6	41.1	61.7	97.6	133.6	164.5	87.4
85°	0.0	0.0	0.0	5.1	30.8	56.5	71.9	25.7	15.4	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°	13135.6	13135.6	13135.6	13135.6	13135.6	13135.6	13135.6	13135.6	13135.6	13135.6	13135.6
2.5°	11049.1	10915.5	10864.1	10910.3	10894.9	10879.5	11162.2	11100.5	11090.2	11182.7	11162.2
5°	8294.5	8058.1	8705.7	8443.6	8715.9	8880.4	8911.2	8926.6	9116.8	8916.4	9178.5
7.5°	5910.0	5971.7	5966.5	6141.2	6454.7	6732.2	6896.7	6768.2	6757.9	6732.2	6619.2
10°	4722.8	4614.9	4594.4	4553.3	4650.9	4887.3	5087.7	4928.4	4815.4	4969.5	4923.3
12.5°	3859.5	3710.4	3628.2	3463.8	3468.9	3628.2	3628.2	3628.2	3741.3	3828.6	3895.4
15°	2960.1	2836.8	2836.8	2672.3	2636.4	2641.5	2723.7	2734.0	2913.9	2965.3	2991.0
17.5°	2071.1	2004.3	2081.3	2148.2	2107.0	2117.3	2148.2	2158.4	2184.1	2163.6	2215.0
20°	1593.1	1582.8	1603.4	1721.6	1809.0	1860.4	1824.4	1773.0	1742.2	1670.2	1670.2
22.5°	1351.6	1372.1	1408.1	1505.8	1618.8	1649.7	1608.5	1490.3	1397.8	1387.6	1392.7
25°	1202.6	1223.1	1279.6	1341.3	1403.0	1454.4	1413.3	1325.9	1274.5	1228.2	1228.2
27.5°	1110.0	1120.3	1151.2	1197.4	1248.8	1289.9	1274.5	1228.2	1171.7	1151.2	1104.9
30°	1038.1	1053.5	1089.5	1099.8	1146.0	1166.6	1140.9	1130.6	1094.6	1068.9	1053.5
32.5°	1002.1	997.0	1022.7	1033.0	1038.1	1053.5	1022.7	1038.1	1033.0	991.8	976.4
35°	755.4	796.6	863.4	919.9	935.3	955.9	950.7	930.2	873.6	827.4	770.9
37.5°	678.4	704.1	740.0	786.3	848.0	873.6	863.4	812.0	745.2	714.3	704.1
40°	627.0	642.4	673.2	704.1	765.7	812.0	776.0	729.8	678.4	652.7	637.3
42.5°	580.7	585.9	601.3	632.1	678.4	750.3	688.6	627.0	606.4	591.0	580.7
45°	529.3	529.3	549.9	565.3	616.7	683.5	621.8	565.3	555.0	544.7	539.6
47.5°	488.2	493.4	503.6	524.2	565.3	611.6	570.4	524.2	498.5	493.4	483.1
50°	436.8	442.0	462.5	483.1	534.5	560.2	534.5	483.1	457.4	442.0	442.0
52°	395.7	411.1	431.7	472.8	508.8	549.9	519.1	462.5	431.7	416.3	406.0
52.5°	390.6	400.9	421.4	467.7	508.8	544.7	513.9	457.4	421.4	411.1	400.9
55°	349.5	364.9	400.9	457.4	503.6	544.7	503.6	452.2	400.9	375.2	364.9
57.5°	334.0	344.3	390.6	462.5	498.5	544.7	503.6	452.2	400.9	354.6	344.3
60°	318.6	339.2	390.6	447.1	493.4	549.9	508.8	447.1	390.6	334.0	334.0
62.5°	303.2	318.6	385.4	436.8	472.8	529.3	488.2	436.8	375.2	318.6	313.5
65°	262.1	287.8	339.2	364.9	406.0	457.4	416.3	380.3	328.9	282.7	277.5
67.5°	200.4	210.7	251.8	282.7	308.3	354.6	334.0	287.8	251.8	215.8	215.8
70°	138.8	149.0	179.9	195.3	221.0	246.7	231.3	195.3	169.6	149.0	143.9
72.5°	97.6	102.8	113.1	123.3	133.6	143.9	138.8	113.1	97.6	92.5	87.4
75°	77.1	87.4	92.5	87.4	82.2	77.1	77.1	66.8	56.5	51.4	51.4
77.5°	77.1	82.2	77.1	66.8	56.5	51.4	46.3	41.1	30.8	25.7	30.8
80°	66.8	66.8	66.8	56.5	51.4	46.3	41.1	36.0	30.8	25.7	25.7
82.5°	71.9	71.9	66.8	56.5	56.5	46.3	46.3	41.1	36.0	25.7	25.7
85°	0.0	0.0	0.0	10.3	25.7	46.3	46.3	41.1	36.0	30.8	30.8
87.5°	0.0	0.0	0.0	0.0	5.1	10.3	20.6	25.7	30.8	30.8	30.8
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°	13135.6	13135.6	13135.6	13135.6	13135.6	13135.6	13135.6	13135.6	13135.6	13135.6	13135.6
2.5°	11347.2	11542.5	11912.5	12282.5	12508.6	12775.8	13258.9	13515.9	13849.9	14014.4	14338.1
5°	9142.5	9605.0	9769.5	10190.9	10643.1	11095.4	11814.8	12606.3	13264.1	13716.3	14302.2
7.5°	6670.6	6778.5	7415.7	7698.4	8438.4	9260.7	10242.3	11239.2	12071.8	12811.8	13258.9
10°	5000.4	5396.1	5796.9	6336.5	6932.7	7780.6	8721.1	9820.8	10900.1	11640.1	12205.4
12.5°	4018.8	4332.3	4866.7	5447.5	6182.4	6742.5	7688.1	8777.6	10175.4	10900.1	11645.2
15°	3042.4	3443.2	4049.6	4650.9	5426.9	6017.9	6973.8	8345.9	10144.6	11141.6	11784.0
17.5°	2256.1	2528.4	3073.2	3746.4	4537.8	5370.4	6660.3	8299.7	10488.9	11676.1	12339.0
20°	1726.7	1819.2	2163.6	2764.8	3623.1	4712.6	6151.5	8500.1	11506.5	12976.3	13649.5
22.5°	1397.8	1439.0	1572.6	1988.8	2821.4	4137.0	5910.0	8638.9	12652.5	14533.4	15432.8
25°	1218.0	1207.7	1295.1	1474.9	2204.7	3597.4	5601.6	9163.0	14055.5	16362.9	17169.8
27.5°	1110.0	1110.0	1151.2	1279.6	1829.5	3247.9	5406.3	9538.2	15468.7	17971.5	18408.3
30°	1053.5	1063.8	1182.0	1223.1	1521.2	2831.7	5082.6	9918.5	16820.3	18999.3	19600.6
32.5°	976.4	935.3	909.6	1012.4	1279.6	2456.5	4758.8	10077.8	17915.0	20258.4	20772.3
35°	750.3	729.8	760.6	837.7	1099.8	2137.9	4399.1	10257.7	19174.0	21717.9	21820.7
37.5°	678.4	673.2	693.8	760.6	925.0	1860.4	4142.1	10211.4	20135.1	22925.6	22648.1
40°	627.0	627.0	642.4	698.9	827.4	1665.1	3874.9	10170.3	21065.2	24282.3	23470.3
42.5°	585.9	585.9	611.6	647.5	786.3	1536.6	3674.5	10113.8	21846.4	25114.9	23953.4
45°	529.3	544.7	585.9	621.8	796.6	1449.2	3525.4	9897.9	22113.6	25104.6	23722.2
47.5°	488.2	508.8	549.9	601.3	719.5	1423.5	3422.7	9707.8	22021.1	24487.9	22997.5
50°	442.0	467.7	524.2	611.6	611.6	1372.1	3314.7	9877.4	21954.3	24009.9	22303.8
52°	411.1	431.7	503.6	596.1	534.5	1264.2	3247.9	10206.3	22226.7	23948.3	21995.4
52.5°	406.0	421.4	488.2	585.9	508.8	1243.7	3201.7	10283.4	22314.0	23794.1	22206.1
55°	359.7	380.3	447.1	457.4	416.3	1022.7	3052.6	10458.1	21882.4	23490.9	22005.7
57.5°	339.2	349.5	395.7	375.2	359.7	770.9	2626.1	10185.7	19436.1	20864.8	20474.2
60°	313.5	323.8	370.0	292.9	303.2	539.6	1973.4	8844.4	15607.5	17385.6	18089.7
62.5°	303.2	298.1	349.5	236.4	257.0	390.6	1392.7	7189.6	12025.5	14312.4	15530.4
65°	267.2	262.1	251.8	200.4	221.0	303.2	832.5	4692.0	8474.4	10828.1	11496.2
67.5°	205.6	215.8	185.0	159.3	185.0	236.4	462.5	2101.9	4445.3	6495.8	7035.4
70°	143.9	154.2	149.0	138.8	164.5	195.3	267.2	719.5	1839.8	3412.4	3761.8
72.5°	87.4	107.9	113.1	118.2	143.9	169.6	190.1	231.3	488.2	1207.7	1500.6
75°	51.4	71.9	87.4	102.8	118.2	143.9	159.3	164.5	169.6	226.1	364.9
77.5°	36.0	51.4	77.1	97.6	118.2	143.9	169.6	179.9	169.6	159.3	169.6
80°	30.8	51.4	71.9	92.5	123.3	149.0	169.6	169.6	164.5	143.9	154.2
82.5°	30.8	51.4	77.1	97.6	118.2	143.9	164.5	169.6	154.2	143.9	149.0
85°	36.0	56.5	82.2	102.8	128.5	118.2	107.9	87.4	82.2	66.8	71.9
87.5°	36.0	51.4	51.4	56.5	61.7	61.7	61.7	56.5	46.3	41.1	41.1
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°	13135.6	13135.6	13135.6	13135.6	13135.6	13135.6	13135.6	13135.6	13135.6	13135.6
2.5°	14353.5	14764.7	14749.3	14759.5	14697.9	14281.6	14081.2	13572.4	13716.3	13654.6
5°	14903.4	15309.4	15658.9	15617.8	15145.0	14579.7	13742.0	12950.6	12734.7	12416.1
7.5°	14353.5	15330.0	15653.7	15607.5	14908.6	14184.0	12847.8	12056.4	11681.2	11470.5
10°	13479.9	14610.5	15011.4	15093.6	14620.8	13521.0	12292.8	11023.4	10823.0	10458.1
12.5°	12981.4	13803.7	14050.3	14271.3	14106.9	13284.6	11871.4	10653.4	10375.9	10134.3
15°	12575.4	13063.6	13166.4	13418.2	13515.9	13073.9	12092.3	11054.2	10370.7	10345.0
17.5°	12950.6	12750.1	12375.0	12452.1	12760.4	13079.0	12662.8	11845.7	11182.7	11100.5
20°	13572.4	12688.5	11840.5	12030.7	12287.6	13264.1	13526.2	12950.6	12570.3	12359.6
22.5°	14286.7	12796.4	11670.9	11763.4	12251.7	13680.3	14924.0	14605.4	13896.2	13593.0
25°	15607.5	13094.5	11804.5	11866.2	12534.3	14261.0	16188.2	16424.6	16003.2	15941.5
27.5°	16897.4	13865.3	12097.5	11958.7	12678.2	14826.3	16953.9	18223.3	17483.3	17339.4
30°	17555.2	14492.3	12534.3	12297.9	13274.3	15170.7	17416.5	19395.0	18747.5	18680.7
32.5°	18562.5	15062.7	12873.5	12570.3	13608.4	15597.2	18279.8	20674.7	20047.7	19713.6
35°	18983.9	15684.6	13618.7	13264.1	14564.3	16193.4	18721.8	21815.5	21620.3	21296.5
37.5°	19795.9	16352.7	14497.4	14476.9	15720.6	16969.4	19518.4	23367.6	23331.6	22771.4
40°	19862.7	17082.4	15885.0	16532.5	17509.0	18320.9	20217.3	23799.2	24385.1	24004.8
42.5°	19965.5	18362.1	18285.0	18819.4	19657.1	19482.4	20243.0	23902.0	24796.2	24570.1
45°	20011.7	19641.7	20726.1	21712.8	22062.2	21003.6	20001.4	23706.7	25012.1	24446.8
47.5°	19641.7	20741.5	22699.5	24606.1	24708.9	21938.9	19898.7	23506.3	25140.6	24765.4
50°	19693.1	21430.1	24405.7	26111.8	25736.7	22766.3	19739.3	23383.0	25073.7	24821.9
52°	19569.8	21445.5	24647.2	26081.0	25818.9	22308.9	19467.0	22910.2	25012.1	25191.9
52.5°	19708.5	21353.0	24395.4	26101.6	25762.4	22535.0	19431.0	23172.3	25048.0	24683.2
55°	19230.6	20253.3	22920.5	23645.1	23593.7	20453.7	18326.1	22303.8	24107.6	24112.7
57.5°	17380.5	17555.2	17976.6	17961.2	17724.8	16080.3	15674.3	20510.2	21491.8	20957.3
60°	15314.6	12852.9	11717.2	11254.7	10992.6	10725.3	13865.3	18762.9	18855.4	18629.3
62.5°	13233.2	8911.2	7400.3	7271.8	7333.5	8309.9	13402.8	18069.1	17514.1	17025.9
65°	10679.1	6495.8	5375.5	5205.9	5807.2	6860.7	10848.7	13855.1	13002.0	12596.0
67.5°	6706.5	4738.3	3633.4	3314.7	4039.3	4722.8	7128.0	8705.7	7749.8	7189.6
70°	3977.7	2646.6	1644.5	1474.9	1659.9	2518.2	3993.1	4342.6	3592.2	3304.5
72.5°	1567.4	971.3	457.4	390.6	406.0	883.9	1469.8	1433.8	1084.4	966.2
75°	421.4	292.9	159.3	128.5	107.9	164.5	236.4	154.2	56.5	71.9
77.5°	195.3	174.7	138.8	107.9	82.2	61.7	30.8	10.3	10.3	5.1
80°	169.6	149.0	128.5	107.9	82.2	51.4	25.7	5.1	5.1	5.1
82.5°	159.3	138.8	118.2	97.6	77.1	51.4	25.7	5.1	0.0	0.0
85°	66.8	87.4	97.6	92.5	82.2	51.4	25.7	5.1	0.0	0.0
87.5°	36.0	30.8	25.7	20.6	15.4	10.3	10.3	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

(END OF REPORT)