

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: P533229

Luminaire Tested: **GALN-SA8C-827-U-SLR-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533229
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-SA8C-827-U-SLR-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 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: 23071 lumens
Efficiency: N/A
Efficacy: 53.8 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

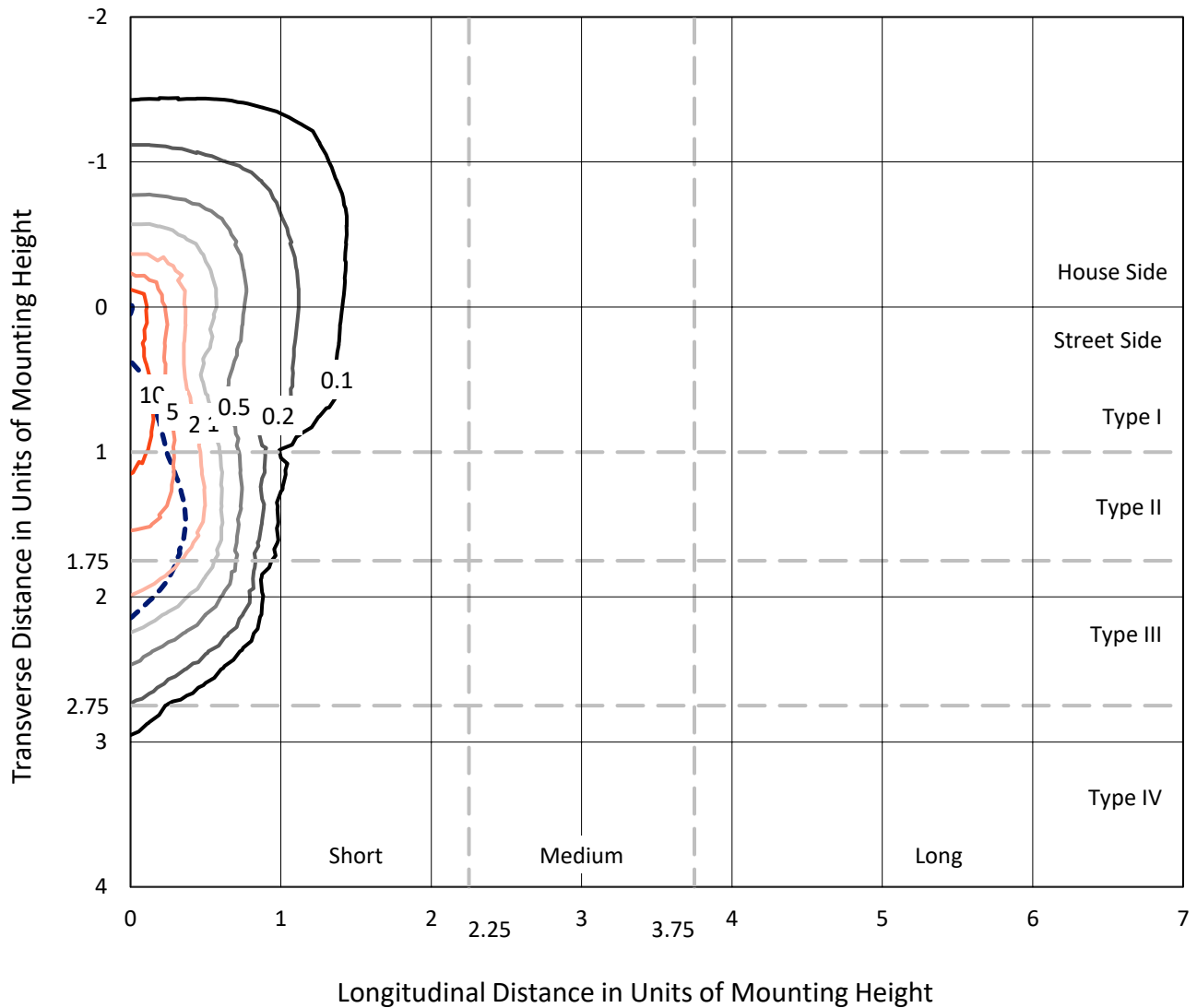
Input Watts (W): 429
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

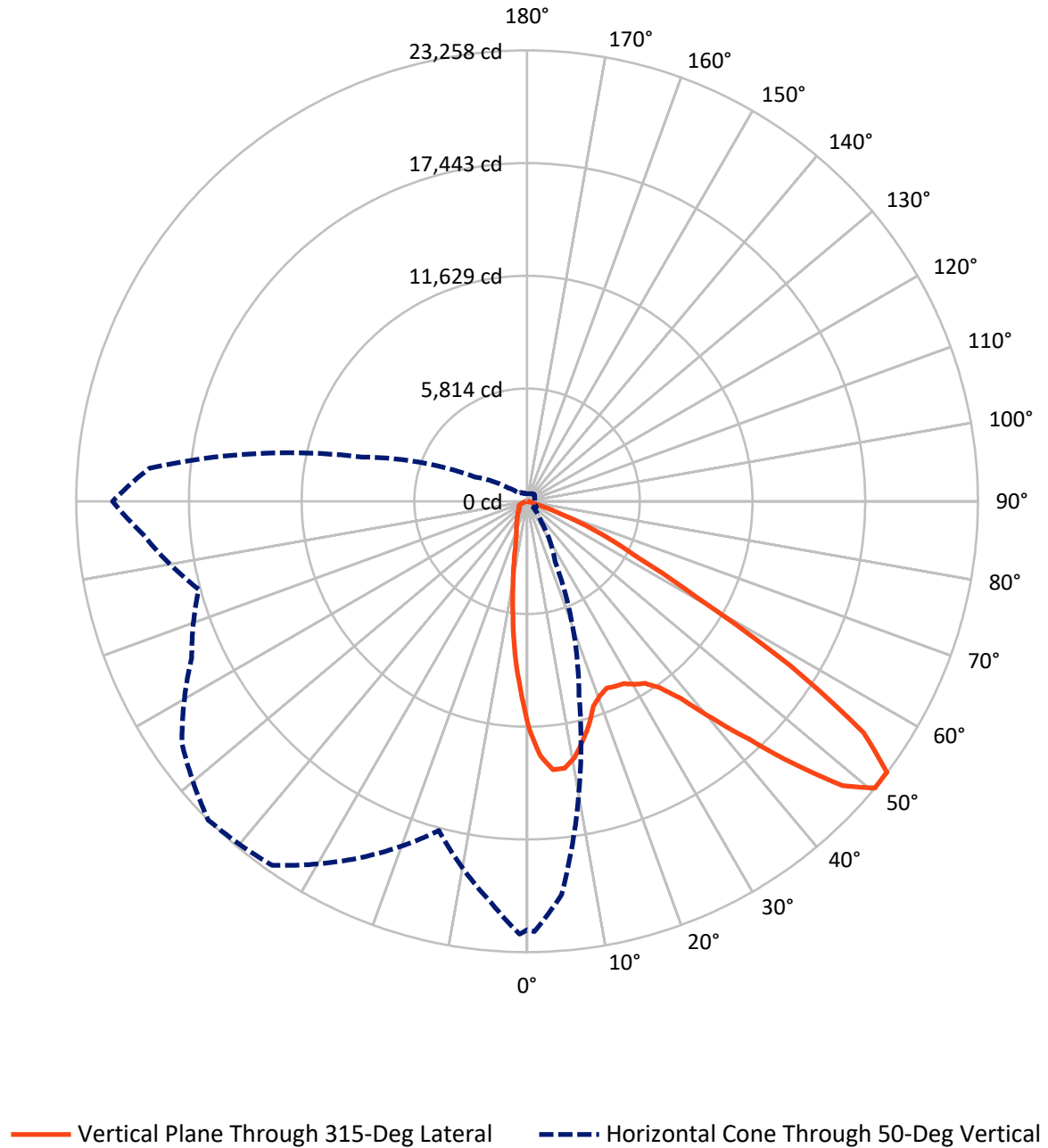
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18.7 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	4621.1	0.0	4621.1
	% Fixture	20.0	0.0	20.0
Street Side	Lumens	18449.9	0.0	18449.9
	% Fixture	80.0	0.0	80.0
Total	Lumens	23071.0	0.0	23071.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	852.8	3.7
10°-20°	1694.9	7.3
20°-30°	2546.3	11.0
30°-40°	3821.9	16.6
40°-50°	5371.4	23.3
50°-60°	5794.0	25.1
60°-70°	2690.1	11.7
70°-80°	253.1	1.1
80°-90°	46.7	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°	23071.0	100.0
0°-180°	23071.0	100.0

Coefficient of Utilization



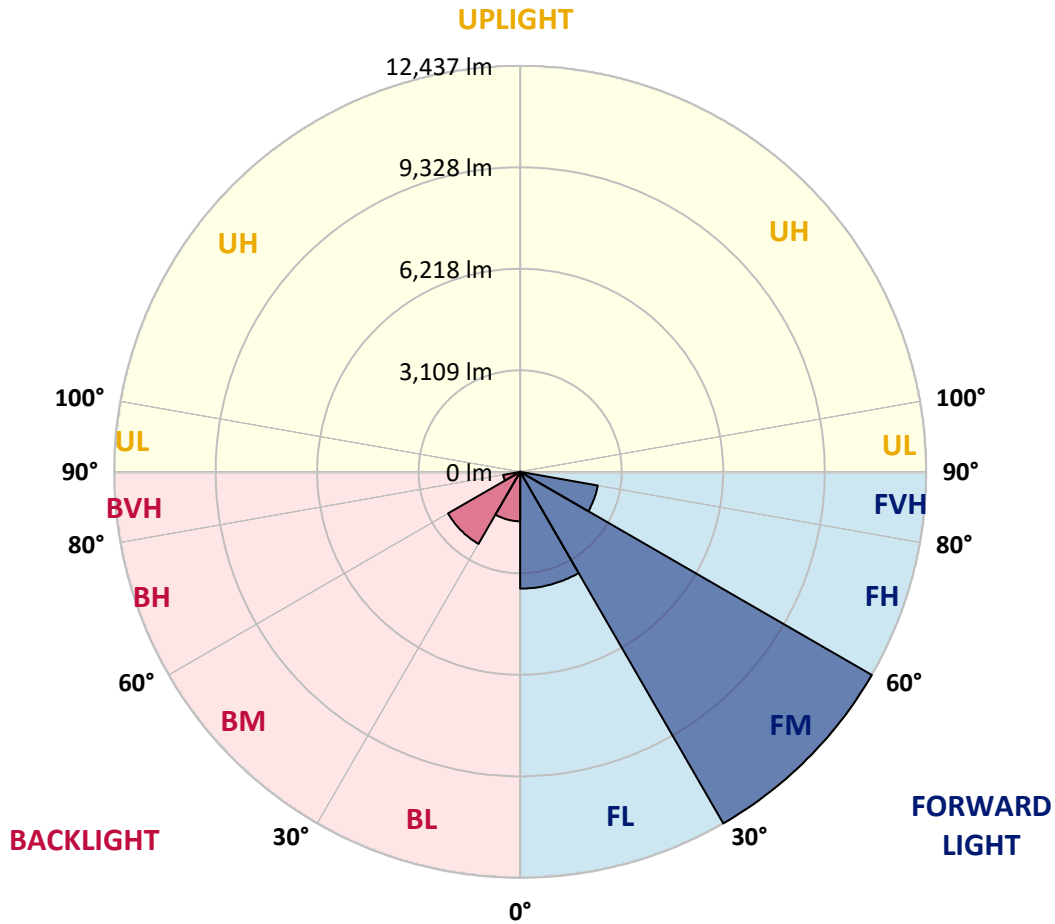
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3579.3	15.5			
FM (30°-60°)	12437.0	53.9			
FH (60°-80°)	2412.6	10.5			G2/5000
FVH (80°-90°)	21.0	0.1			G1/100
BL (0°-30°)	1514.7	6.6	B3/2500		
BM (30°-60°)	2550.2	11.1	B3/5000		
BH (60°-80°)	530.6	2.3	B2/1000		G2/1000
BVH (80°-90°)	25.6	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°	11699.9	11699.9	11699.9	11699.9	11699.9	11699.9	11699.9	11699.9	11699.9	11699.9	11699.9
2.5°	12162.2	11974.6	11736.5	11539.7	11246.7	10656.3	10496.0	10303.8	10143.6	9928.4	9626.3
5°	11059.1	10999.6	10889.7	10148.2	9612.6	8898.5	8312.6	8065.4	7740.4	7474.9	7282.7
7.5°	10216.8	9978.8	9630.9	8884.8	8028.8	7264.4	6614.4	6234.5	5804.2	5657.7	5396.8
10°	9315.1	9370.0	8857.3	7809.1	6774.6	6156.6	5753.8	5387.6	4998.6	4742.2	4371.4
12.5°	9026.7	8848.2	8454.5	7159.1	6275.7	5698.9	5209.1	4755.9	4344.0	3932.0	3575.0
15°	9214.4	8939.7	8390.4	7021.8	5891.1	5172.5	4559.1	3945.7	3565.8	3039.4	2668.6
17.5°	9887.2	9667.5	8930.6	7168.3	5694.3	4669.0	3758.1	3126.4	2545.0	2069.0	1881.3
20°	11008.7	10697.4	9772.8	7355.9	5401.4	4060.2	3048.6	2270.4	1721.1	1519.7	1414.4
22.5°	12107.3	11937.9	10770.7	7717.5	5140.5	3520.0	2288.7	1528.9	1286.3	1249.6	1181.0
25°	14199.2	13691.1	12295.0	8372.1	4939.0	3011.9	1725.7	1231.3	1089.4	1062.0	1071.1
27.5°	15444.2	15018.5	13704.8	8807.0	4714.8	2622.9	1460.2	1130.6	1034.5	975.0	952.1
30°	16638.9	16144.6	14405.2	9063.3	4234.1	2210.9	1295.4	1084.9	1062.0	975.0	947.5
32.5°	17559.0	17073.8	15416.8	9447.8	4037.3	1945.4	1066.5	846.8	787.3	778.2	860.6
35°	18968.9	18451.6	16281.9	9658.4	3886.2	1808.1	924.6	755.3	686.6	659.1	663.7
37.5°	20282.6	19930.1	17083.0	9740.8	3726.0	1766.9	828.5	677.5	618.0	599.6	595.1
40°	21381.2	20593.8	17842.8	9827.7	3657.4	1689.1	769.0	618.0	576.8	549.3	549.3
42.5°	21884.7	21083.6	18694.2	9777.4	3639.1	1565.5	769.0	567.6	535.6	508.1	503.5
45°	21774.8	21449.8	19074.1	9754.5	3639.1	1441.9	700.3	553.9	508.1	471.5	462.3
47.5°	22058.6	21632.9	19550.2	9850.6	3565.8	1354.9	590.5	581.3	480.6	434.9	425.7
50°	22109.0	22191.4	20378.7	10349.6	3405.6	1245.1	462.3	572.2	462.3	393.7	384.5
52°	22438.6	21925.9	20630.5	10615.1	3236.2	1162.7	389.1	489.8	444.0	366.2	357.0
52.5°	21985.4	22319.5	20690.0	10711.2	3254.6	1107.7	375.3	480.6	434.9	366.2	343.3
55°	21477.3	21797.7	20447.4	10917.2	2984.5	869.7	293.0	347.9	393.7	320.4	306.7
57.5°	18666.8	18991.7	17769.6	9997.1	2430.6	613.4	242.6	260.9	347.9	297.5	283.8
60°	16593.2	16359.7	14913.3	8340.1	1725.7	343.3	192.3	201.4	379.9	274.6	270.1
62.5°	15165.0	14666.1	12464.3	6440.4	1052.8	228.9	151.1	155.6	293.0	256.3	256.3
65°	11219.3	10660.8	8280.6	3895.4	517.2	160.2	114.4	123.6	183.1	219.7	219.7
67.5°	6403.8	6188.7	4000.7	1757.7	215.1	100.7	87.0	96.1	141.9	178.5	169.4
70°	2943.3	2641.2	1538.0	370.8	100.7	68.7	68.7	77.8	114.4	132.7	123.6
72.5°	860.6	814.8	375.3	59.5	41.2	41.2	45.8	59.5	87.0	100.7	91.5
75°	64.1	41.2	27.5	18.3	18.3	27.5	36.6	59.5	87.0	96.1	77.8
77.5°	4.6	9.2	4.6	4.6	13.7	27.5	41.2	73.2	114.4	119.0	87.0
80°	4.6	4.6	0.0	4.6	13.7	27.5	45.8	82.4	128.2	137.3	73.2
82.5°	0.0	0.0	0.0	4.6	18.3	36.6	54.9	87.0	119.0	146.5	77.8
85°	0.0	0.0	0.0	4.6	27.5	50.4	64.1	22.9	13.7	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°	11699.9	11699.9	11699.9	11699.9	11699.9	11699.9	11699.9	11699.9	11699.9	11699.9	11699.9
2.5°	9841.5	9722.5	9676.7	9717.9	9704.1	9690.4	9942.2	9887.2	9878.1	9960.5	9942.2
5°	7388.0	7177.4	7754.2	7520.7	7763.3	7909.8	7937.3	7951.0	8120.4	7941.8	8175.3
7.5°	5264.0	5319.0	5314.4	5470.0	5749.2	5996.4	6142.9	6028.5	6019.3	5996.4	5895.7
10°	4206.7	4110.5	4092.2	4055.6	4142.6	4353.1	4531.7	4389.8	4289.0	4426.4	4385.2
12.5°	3437.6	3304.9	3231.7	3085.2	3089.8	3231.7	3231.7	3231.7	3332.4	3410.2	3469.7
15°	2636.6	2526.7	2526.7	2380.3	2348.2	2352.8	2426.0	2435.2	2595.4	2641.2	2664.1
17.5°	1844.7	1785.2	1853.9	1913.4	1876.7	1885.9	1913.4	1922.5	1945.4	1927.1	1972.9
20°	1419.0	1409.8	1428.2	1533.4	1611.3	1657.0	1625.0	1579.2	1551.7	1487.7	1487.7
22.5°	1203.9	1222.2	1254.2	1341.2	1441.9	1469.4	1432.7	1327.5	1245.1	1235.9	1240.5
25°	1071.1	1089.4	1139.8	1194.7	1249.6	1295.4	1258.8	1181.0	1135.2	1094.0	1094.0
27.5°	988.7	997.9	1025.3	1066.5	1112.3	1148.9	1135.2	1094.0	1043.7	1025.3	984.1
30°	924.6	938.4	970.4	979.6	1020.8	1039.1	1016.2	1007.0	975.0	952.1	938.4
32.5°	892.6	888.0	910.9	920.1	924.6	938.4	910.9	924.6	920.1	883.4	869.7
35°	672.9	709.5	769.0	819.4	833.1	851.4	846.8	828.5	778.2	737.0	686.6
37.5°	604.2	627.1	659.1	700.3	755.3	778.2	769.0	723.2	663.7	636.3	627.1
40°	558.4	572.2	599.6	627.1	682.0	723.2	691.2	650.0	604.2	581.3	567.6
42.5°	517.2	521.8	535.6	563.0	604.2	668.3	613.4	558.4	540.1	526.4	517.2
45°	471.5	471.5	489.8	503.5	549.3	608.8	553.9	503.5	494.4	485.2	480.6
47.5°	434.9	439.4	448.6	466.9	503.5	544.7	508.1	466.9	444.0	439.4	430.3
50°	389.1	393.7	412.0	430.3	476.1	498.9	476.1	430.3	407.4	393.7	393.7
52°	352.5	366.2	384.5	421.1	453.2	489.8	462.3	412.0	384.5	370.8	361.6
52.5°	347.9	357.0	375.3	416.5	453.2	485.2	457.7	407.4	375.3	366.2	357.0
55°	311.3	325.0	357.0	407.4	448.6	485.2	448.6	402.8	357.0	334.2	325.0
57.5°	297.5	306.7	347.9	412.0	444.0	485.2	448.6	402.8	357.0	315.8	306.7
60°	283.8	302.1	347.9	398.2	439.4	489.8	453.2	398.2	347.9	297.5	297.5
62.5°	270.1	283.8	343.3	389.1	421.1	471.5	434.9	389.1	334.2	283.8	279.2
65°	233.4	256.3	302.1	325.0	361.6	407.4	370.8	338.7	293.0	251.8	247.2
67.5°	178.5	187.7	224.3	251.8	274.6	315.8	297.5	256.3	224.3	192.3	192.3
70°	123.6	132.7	160.2	173.9	196.8	219.7	206.0	173.9	151.1	132.7	128.2
72.5°	87.0	91.5	100.7	109.9	119.0	128.2	123.6	100.7	87.0	82.4	77.8
75°	68.7	77.8	82.4	77.8	73.2	68.7	68.7	59.5	50.4	45.8	45.8
77.5°	68.7	73.2	68.7	59.5	50.4	45.8	41.2	36.6	27.5	22.9	27.5
80°	59.5	59.5	59.5	50.4	45.8	41.2	36.6	32.0	27.5	22.9	22.9
82.5°	64.1	64.1	59.5	50.4	50.4	41.2	41.2	36.6	32.0	22.9	22.9
85°	0.0	0.0	0.0	9.2	22.9	41.2	41.2	36.6	32.0	27.5	27.5
87.5°	0.0	0.0	0.0	0.0	4.6	9.2	18.3	22.9	27.5	27.5	27.5
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°	11699.9	11699.9	11699.9	11699.9	11699.9	11699.9	11699.9	11699.9	11699.9	11699.9	11699.9
2.5°	10107.0	10280.9	10610.5	10940.1	11141.5	11379.5	11809.8	12038.6	12336.2	12482.6	12771.0
5°	8143.2	8555.2	8701.7	9077.0	9479.9	9882.7	10523.5	11228.4	11814.3	12217.2	12739.0
7.5°	5941.5	6037.6	6605.2	6857.0	7516.1	8248.5	9122.8	10010.8	10752.4	11411.5	11809.8
10°	4453.8	4806.3	5163.3	5644.0	6174.9	6930.2	7767.9	8747.5	9708.7	10367.9	10871.4
12.5°	3579.5	3858.8	4334.8	4852.1	5506.6	6005.6	6847.8	7818.2	9063.3	9708.7	10372.5
15°	2709.8	3066.9	3607.0	4142.6	4833.8	5360.2	6211.6	7433.7	9035.8	9923.9	10496.0
17.5°	2009.5	2252.1	2737.3	3336.9	4041.9	4783.4	5932.3	7392.5	9342.5	10399.9	10990.4
20°	1538.0	1620.4	1927.1	2462.7	3227.1	4197.5	5479.2	7571.1	10248.9	11558.0	12157.6
22.5°	1245.1	1281.7	1400.7	1771.5	2513.0	3684.8	5264.0	7694.7	11269.6	12945.0	13746.0
25°	1084.9	1075.7	1153.5	1313.7	1963.7	3204.2	4989.4	8161.6	12519.3	14574.5	15293.2
27.5°	988.7	988.7	1025.3	1139.8	1629.6	2892.9	4815.5	8495.7	13778.1	16007.3	16396.3
30°	938.4	947.5	1052.8	1089.4	1354.9	2522.2	4527.1	8834.4	14981.9	16922.8	17458.3
32.5°	869.7	833.1	810.2	901.8	1139.8	2188.0	4238.7	8976.3	15956.9	18044.2	18502.0
35°	668.3	650.0	677.5	746.1	979.6	1904.2	3918.3	9136.5	17078.4	19344.2	19435.8
37.5°	604.2	599.6	618.0	677.5	823.9	1657.0	3689.4	9095.3	17934.4	20419.9	20172.7
40°	558.4	558.4	572.2	622.5	737.0	1483.1	3451.4	9058.7	18762.9	21628.3	20905.1
42.5°	521.8	521.8	544.7	576.8	700.3	1368.7	3272.9	9008.4	19458.6	22369.9	21335.4
45°	471.5	485.2	521.8	553.9	709.5	1290.8	3140.1	8816.1	19696.7	22360.7	21129.4
47.5°	434.9	453.2	489.8	535.6	640.8	1267.9	3048.6	8646.8	19614.3	21811.4	20484.0
50°	393.7	416.5	466.9	544.7	544.7	1222.2	2952.4	8797.8	19554.8	21385.7	19866.0
52°	366.2	384.5	448.6	531.0	476.1	1126.0	2892.9	9090.8	19797.4	21330.8	19591.4
52.5°	361.6	375.3	434.9	521.8	453.2	1107.7	2851.7	9159.4	19875.2	21193.5	19779.1
55°	320.4	338.7	398.2	407.4	370.8	910.9	2719.0	9315.1	19490.7	20923.4	19600.5
57.5°	302.1	311.3	352.5	334.2	320.4	686.6	2339.1	9072.5	17311.8	18584.4	18236.5
60°	279.2	288.4	329.6	260.9	270.1	480.6	1757.7	7877.8	13901.6	15485.4	16112.5
62.5°	270.1	265.5	311.3	210.6	228.9	347.9	1240.5	6403.8	10711.2	12748.1	13833.0
65°	238.0	233.4	224.3	178.5	196.8	270.1	741.5	4179.2	7548.2	9644.6	10239.7
67.5°	183.1	192.3	164.8	141.9	164.8	210.6	412.0	1872.2	3959.5	5785.9	6266.5
70°	128.2	137.3	132.7	123.6	146.5	173.9	238.0	640.8	1638.7	3039.4	3350.7
72.5°	77.8	96.1	100.7	105.3	128.2	151.1	169.4	206.0	434.9	1075.7	1336.6
75°	45.8	64.1	77.8	91.5	105.3	128.2	141.9	146.5	151.1	201.4	325.0
77.5°	32.0	45.8	68.7	87.0	105.3	128.2	151.1	160.2	151.1	141.9	151.1
80°	27.5	45.8	64.1	82.4	109.9	132.7	151.1	151.1	146.5	128.2	137.3
82.5°	27.5	45.8	68.7	87.0	105.3	128.2	146.5	151.1	137.3	128.2	132.7
85°	32.0	50.4	73.2	91.5	114.4	105.3	96.1	77.8	73.2	59.5	64.1
87.5°	32.0	45.8	45.8	50.4	54.9	54.9	54.9	50.4	41.2	36.6	36.6
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°	11699.9	11699.9	11699.9	11699.9	11699.9	11699.9	11699.9	11699.9	11699.9	11699.9
2.5°	12784.8	13150.9	13137.2	13146.4	13091.4	12720.7	12542.2	12089.0	12217.2	12162.2
5°	13274.5	13636.2	13947.4	13910.8	13489.7	12986.2	12240.0	11535.1	11342.9	11059.1
7.5°	12784.8	13654.5	13942.8	13901.6	13279.1	12633.7	11443.6	10738.6	10404.5	10216.8
10°	12006.6	13013.6	13370.7	13443.9	13022.8	12043.2	10949.2	9818.6	9640.1	9315.1
12.5°	11562.6	12295.0	12514.7	12711.5	12565.0	11832.7	10573.9	9489.0	9241.8	9026.7
15°	11201.0	11635.8	11727.4	11951.7	12038.6	11645.0	10770.7	9846.0	9237.2	9214.4
17.5°	11535.1	11356.6	11022.4	11091.1	11365.8	11649.6	11278.8	10551.0	9960.5	9887.2
20°	12089.0	11301.7	10546.4	10715.8	10944.6	11814.3	12047.8	11535.1	11196.4	11008.7
22.5°	12725.2	11397.8	10395.3	10477.7	10912.6	12185.1	13292.9	13009.0	12377.4	12107.3
25°	13901.6	11663.3	10514.4	10569.3	11164.3	12702.4	14418.9	14629.5	14254.1	14199.2
27.5°	15050.6	12349.9	10775.3	10651.7	11292.5	13205.9	15100.9	16231.6	15572.4	15444.2
30°	15636.5	12908.3	11164.3	10953.8	11823.5	13512.6	15512.9	17275.2	16698.5	16638.9
32.5°	16533.7	13416.4	11466.5	11196.4	12121.0	13892.5	16281.9	18415.0	17856.5	17559.0
35°	16909.0	13970.3	12130.2	11814.3	12972.4	14423.5	16675.6	19431.2	19257.2	18968.9
37.5°	17632.3	14565.4	12912.9	12894.6	14002.4	15114.7	17385.1	20813.6	20781.5	20282.6
40°	17691.8	15215.4	14148.8	14725.6	15595.3	16318.5	18007.6	21198.1	21719.9	21381.2
42.5°	17783.3	16355.1	16286.5	16762.5	17508.7	17353.0	18030.5	21289.6	22086.1	21884.7
45°	17824.5	17494.9	18460.8	19339.6	19650.9	18707.9	17815.3	21115.7	22278.3	21774.8
47.5°	17494.9	18474.5	20218.5	21916.7	22008.3	19541.0	17723.8	20937.2	22392.8	22058.6
50°	17540.7	19087.9	21738.2	23257.9	22923.8	20278.0	17581.9	20827.3	22333.3	22109.0
52°	17430.8	19101.6	21953.3	23230.4	22997.0	19870.6	17339.3	20406.2	22278.3	22438.6
52.5°	17554.4	19019.2	21729.0	23248.8	22946.6	20072.0	17307.3	20639.6	22310.4	21985.4
55°	17128.7	18039.6	20415.3	21060.7	21015.0	18218.2	16323.1	19866.0	21472.7	21477.3
57.5°	15480.9	15636.5	16011.8	15998.1	15787.5	14322.8	13961.2	18268.5	19142.8	18666.8
60°	13640.7	11448.1	10436.5	10024.6	9791.1	9553.1	12349.9	16712.2	16794.6	16593.2
62.5°	11786.9	7937.3	6591.5	6477.1	6532.0	7401.7	11937.9	16094.2	15599.9	15165.0
65°	9511.9	5785.9	4788.0	4636.9	5172.5	6110.9	9662.9	12340.7	11580.9	11219.3
67.5°	5973.5	4220.4	3236.2	2952.4	3597.9	4206.7	6348.9	7754.2	6902.8	6403.8
70°	3542.9	2357.4	1464.8	1313.7	1478.5	2242.9	3556.7	3867.9	3199.6	2943.3
72.5°	1396.1	865.1	407.4	347.9	361.6	787.3	1309.1	1277.1	965.8	860.6
75°	375.3	260.9	141.9	114.4	96.1	146.5	210.6	137.3	50.4	64.1
77.5°	173.9	155.6	123.6	96.1	73.2	54.9	27.5	9.2	9.2	4.6
80°	151.1	132.7	114.4	96.1	73.2	45.8	22.9	4.6	4.6	4.6
82.5°	141.9	123.6	105.3	87.0	68.7	45.8	22.9	4.6	0.0	0.0
85°	59.5	77.8	87.0	82.4	73.2	45.8	22.9	4.6	0.0	0.0
87.5°	32.0	27.5	22.9	18.3	13.7	9.2	9.2	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)