

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: P530109

Luminaire Tested: **GALN-SA5B-740-U-SLR-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P530109
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-SA5B-740-U-SLR-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 4000K, 800mA 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: 15754 lumens
Efficiency: N/A
Efficacy: 77.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G1

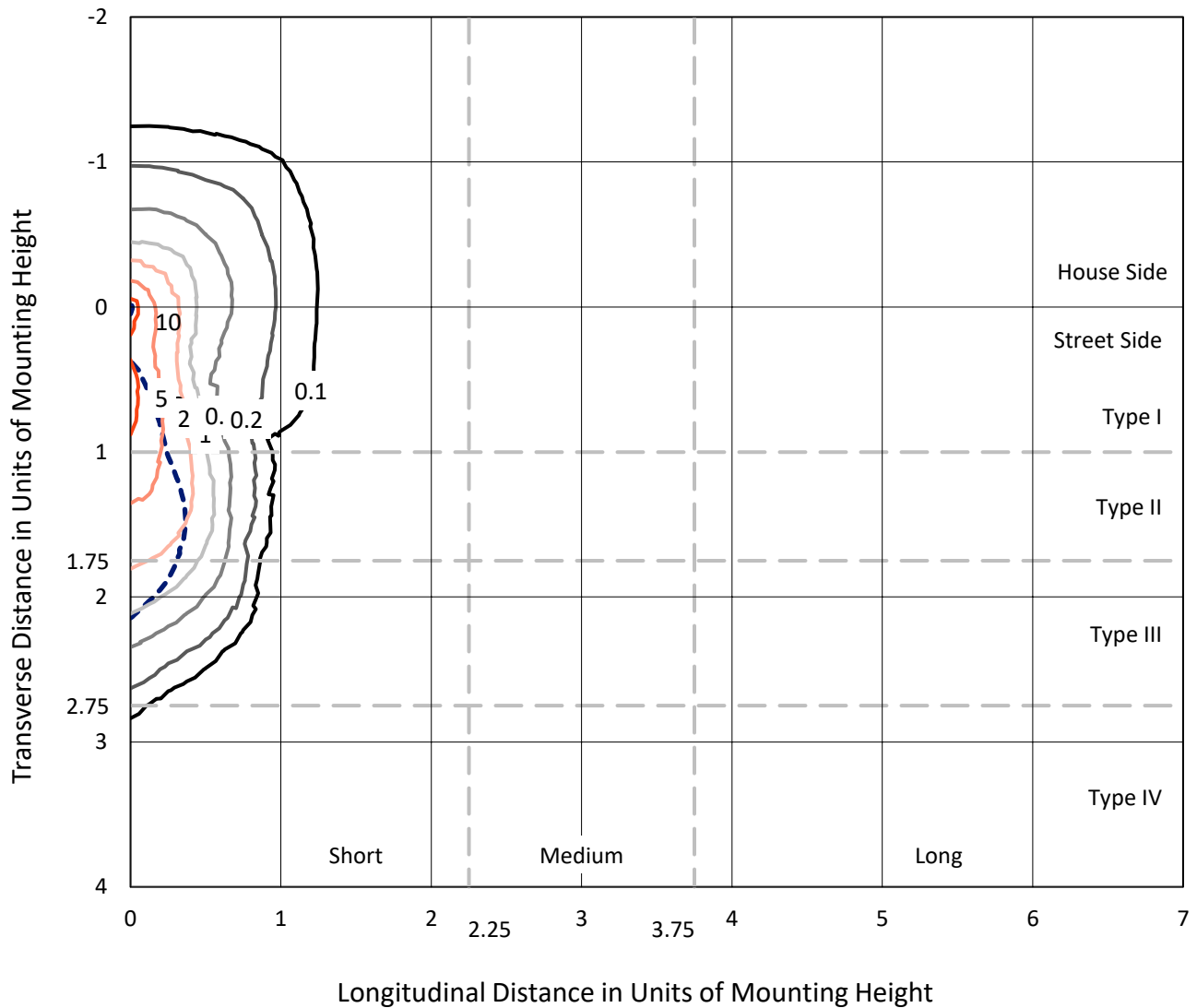
Input Watts (W): 204
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

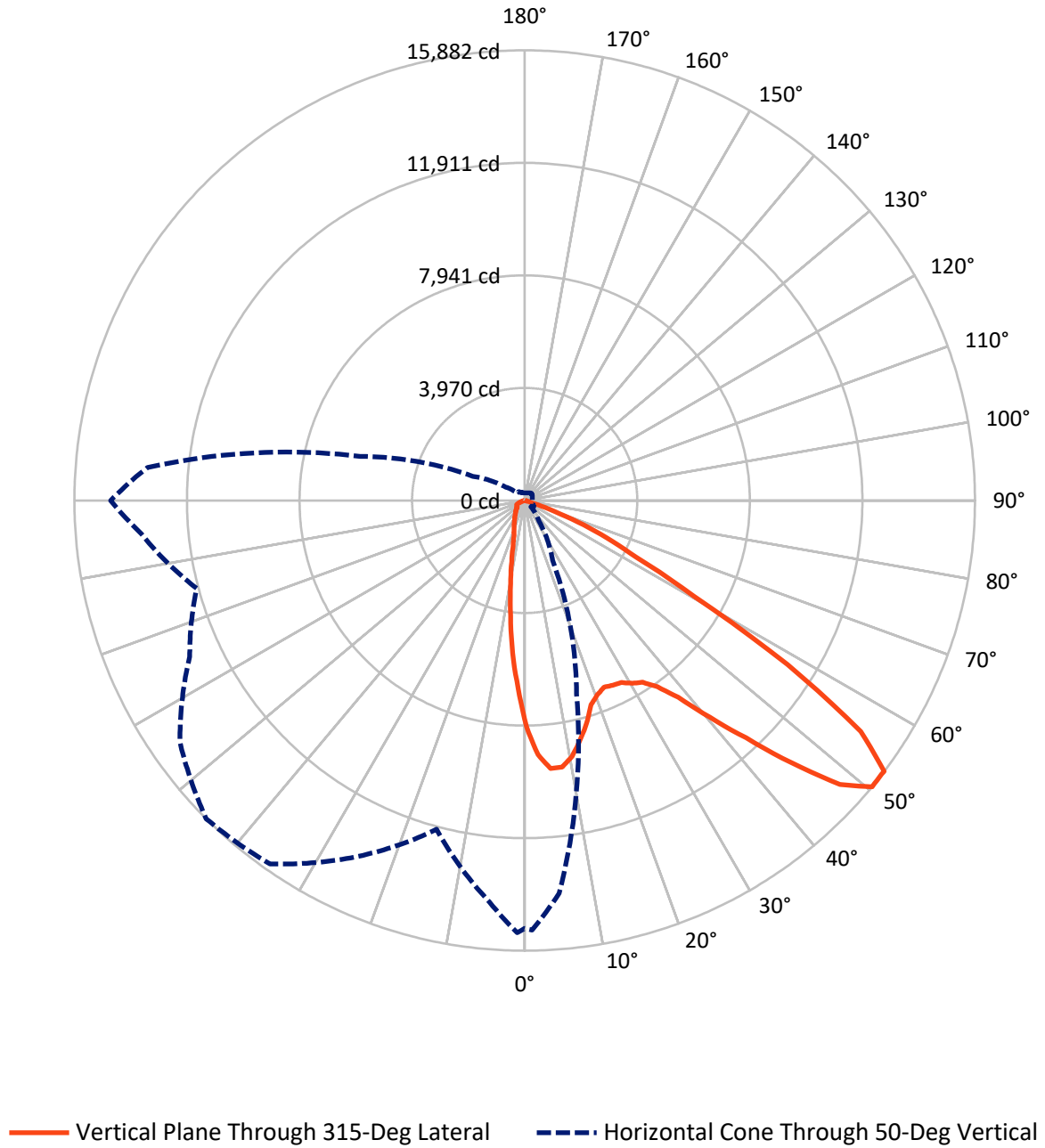
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.8 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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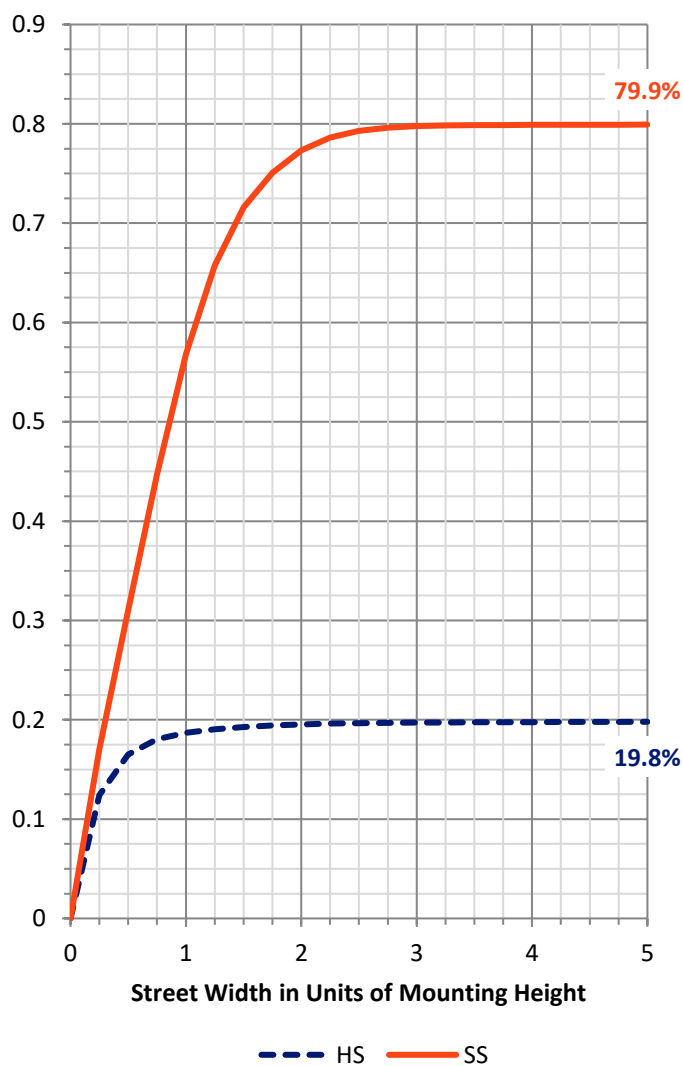
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3155.5	0.0	3155.5
	% Fixture	20.0	0.0	20.0
Street Side	Lumens	12598.5	0.0	12598.5
	% Fixture	80.0	0.0	80.0
Total	Lumens	15754.0	0.0	15754.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	582.3	3.7
10°-20°	1157.4	7.3
20°-30°	1738.7	11.0
30°-40°	2609.8	16.6
40°-50°	3667.8	23.3
50°-60°	3956.4	25.1
60°-70°	1836.9	11.7
70°-80°	172.8	1.1
80°-90°	31.9	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°	15754.0	100.0
0°-180°	15754.0	100.0

Coefficient of Utilization

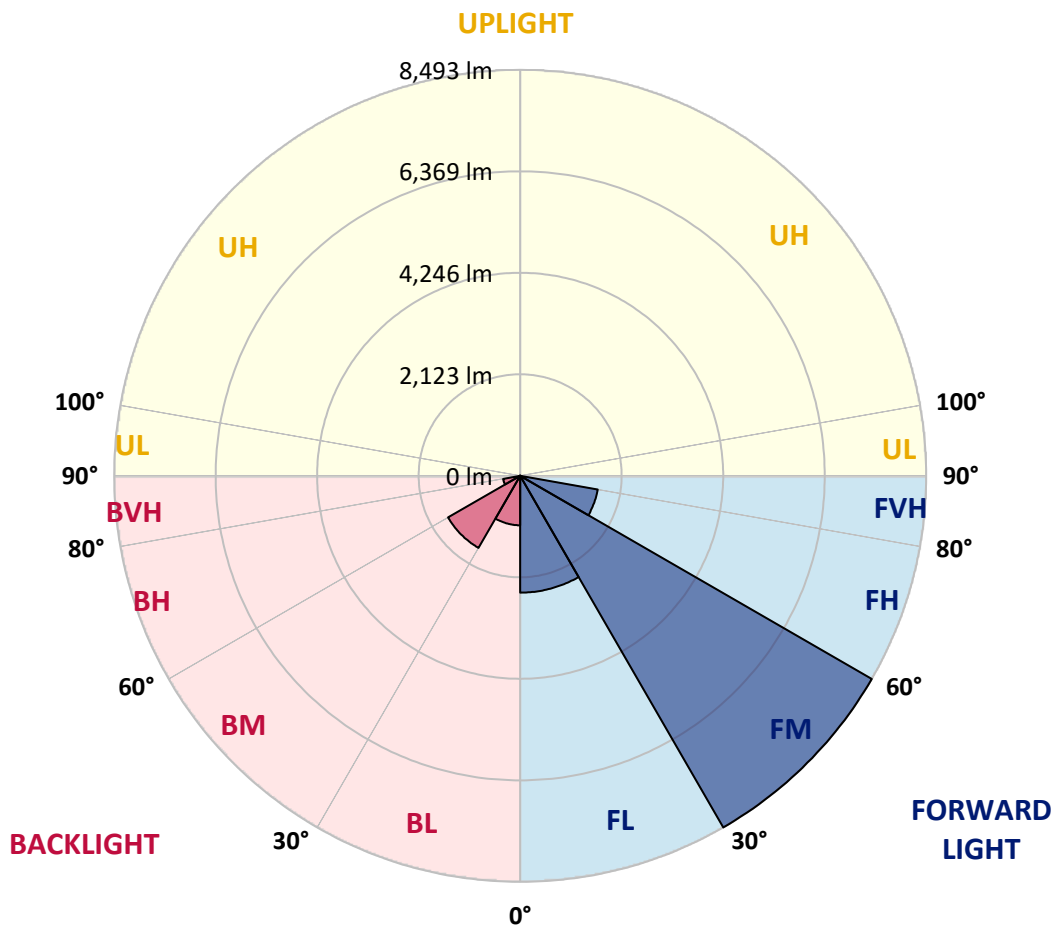


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2444.1	15.5			
FM (30°-60°)	8492.6	53.9			
FH (60°-80°)	1647.4	10.5			G1/1800
FVH (80°-90°)	14.4	0.1			G1/100
BL (0°-30°)	1034.3	6.6	B3/2500		
BM (30°-60°)	1741.4	11.1	B2/2500		
BH (60°-80°)	362.3	2.3	B1/500		G1/500
BVH (80°-90°)	17.5	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-G1
 Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	7989.3	7989.3	7989.3	7989.3	7989.3	7989.3	7989.3	7989.3	7989.3	7989.3	7989.3
2.5°	8305.0	8176.8	8014.3	7879.9	7679.8	7276.6	7167.2	7035.9	6926.5	6779.6	6573.3
5°	7551.7	7511.0	7436.0	6929.7	6563.9	6076.3	5676.3	5507.5	5285.5	5104.3	4973.0
7.5°	6976.5	6814.0	6576.5	6067.0	5482.5	4960.5	4516.6	4257.2	3963.4	3863.4	3685.2
10°	6360.8	6398.3	6048.2	5332.4	4626.0	4204.1	3929.0	3678.9	3413.3	3238.2	2985.0
12.5°	6163.9	6042.0	5773.1	4888.6	4285.3	3891.5	3557.0	3247.6	2966.3	2685.0	2441.2
15°	6292.0	6104.5	5729.4	4794.8	4022.8	3532.0	3113.2	2694.3	2434.9	2075.5	1822.3
17.5°	6751.5	6601.5	6098.2	4894.8	3888.4	3188.2	2566.2	2134.8	1737.9	1412.8	1284.7
20°	7517.3	7304.7	6673.3	5023.0	3688.3	2772.5	2081.7	1550.3	1175.3	1037.7	965.8
22.5°	8267.5	8151.8	7354.7	5269.9	3510.1	2403.7	1562.8	1044.0	878.3	853.3	806.4
25°	9695.9	9348.9	8395.6	5716.9	3372.6	2056.7	1178.4	840.8	743.9	725.2	731.4
27.5°	10546.1	10255.4	9358.3	6013.8	3219.5	1791.0	997.1	772.0	706.4	665.8	650.1
30°	11361.9	11024.3	9836.5	6188.9	2891.3	1509.7	884.6	740.8	725.2	665.8	647.0
32.5°	11990.1	11658.8	10527.3	6451.4	2756.9	1328.4	728.3	578.3	537.6	531.4	587.6
35°	12952.9	12599.7	11118.1	6595.2	2653.7	1234.6	631.4	515.7	468.9	450.1	453.2
37.5°	13849.9	13609.3	11665.1	6651.5	2544.3	1206.5	565.7	462.6	422.0	409.5	406.3
40°	14600.1	14062.5	12183.9	6710.9	2497.4	1153.4	525.1	422.0	393.8	375.1	375.1
42.5°	14943.9	14396.9	12765.3	6676.5	2484.9	1069.0	525.1	387.6	365.7	347.0	343.8
45°	14868.9	14647.0	13024.8	6660.8	2484.9	984.6	478.2	378.2	347.0	321.9	315.7
47.5°	15062.7	14772.0	13349.8	6726.5	2434.9	925.2	403.2	397.0	328.2	296.9	290.7
50°	15097.1	15153.3	13915.6	7067.2	2325.5	850.2	315.7	390.7	315.7	268.8	262.6
52°	15322.1	14972.1	14087.5	7248.5	2209.9	793.9	265.7	334.4	303.2	250.1	243.8
52.5°	15012.7	15240.9	14128.1	7314.1	2222.4	756.4	256.3	328.2	296.9	250.1	234.4
55°	14665.7	14884.5	13962.5	7454.8	2037.9	593.9	200.0	237.6	268.8	218.8	209.4
57.5°	12746.6	12968.5	12133.9	6826.5	1659.7	418.8	165.7	178.2	237.6	203.2	193.8
60°	11330.6	11171.2	10183.5	5695.0	1178.4	234.4	131.3	137.5	259.4	187.5	184.4
62.5°	10355.4	10014.7	8511.3	4397.8	718.9	156.3	103.1	106.3	200.0	175.0	175.0
65°	7661.1	7279.7	5654.4	2660.0	353.2	109.4	78.1	84.4	125.0	150.0	150.0
67.5°	4372.8	4225.9	2731.9	1200.3	146.9	68.8	59.4	65.6	96.9	121.9	115.7
70°	2009.8	1803.5	1050.2	253.2	68.8	46.9	46.9	53.1	78.1	90.6	84.4
72.5°	587.6	556.4	256.3	40.6	28.1	28.1	31.3	40.6	59.4	68.8	62.5
75°	43.8	28.1	18.8	12.5	12.5	18.8	25.0	40.6	59.4	65.6	53.1
77.5°	3.1	6.3	3.1	3.1	9.4	18.8	28.1	50.0	78.1	81.3	59.4
80°	3.1	3.1	0.0	3.1	9.4	18.8	31.3	56.3	87.5	93.8	50.0
82.5°	0.0	0.0	0.0	3.1	12.5	25.0	37.5	59.4	81.3	100.0	53.1
85°	0.0	0.0	0.0	3.1	18.8	34.4	43.8	15.6	9.4	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°	7989.3	7989.3	7989.3	7989.3	7989.3	7989.3	7989.3	7989.3	7989.3	7989.3	7989.3
2.5°	6720.2	6639.0	6607.7	6635.8	6626.5	6617.1	6789.0	6751.5	6745.2	6801.5	6789.0
5°	5044.9	4901.1	5294.9	5135.5	5301.2	5401.2	5419.9	5429.3	5545.0	5423.1	5582.5
7.5°	3594.5	3632.1	3628.9	3735.2	3925.9	4094.7	4194.7	4116.5	4110.3	4094.7	4025.9
10°	2872.5	2806.9	2794.4	2769.4	2828.7	2972.5	3094.4	2997.5	2928.8	3022.5	2994.4
12.5°	2347.4	2256.7	2206.7	2106.7	2109.8	2206.7	2206.7	2206.7	2275.5	2328.6	2369.3
15°	1800.4	1725.4	1725.4	1625.4	1603.5	1606.6	1656.6	1662.9	1772.3	1803.5	1819.2
17.5°	1259.7	1219.0	1265.9	1306.5	1281.5	1287.8	1306.5	1312.8	1328.4	1315.9	1347.2
20°	969.0	962.7	975.2	1047.1	1100.2	1131.5	1109.6	1078.4	1059.6	1015.8	1015.8
22.5°	822.1	834.6	856.4	915.8	984.6	1003.3	978.3	906.5	850.2	843.9	847.1
25°	731.4	743.9	778.3	815.8	853.3	884.6	859.6	806.4	775.2	747.0	747.0
27.5°	675.1	681.4	700.2	728.3	759.5	784.5	775.2	747.0	712.7	700.2	672.0
30°	631.4	640.8	662.6	668.9	697.0	709.5	693.9	687.7	665.8	650.1	640.8
32.5°	609.5	606.4	622.0	628.3	631.4	640.8	622.0	631.4	628.3	603.3	593.9
35°	459.5	484.5	525.1	559.5	568.9	581.4	578.3	565.7	531.4	503.2	468.9
37.5°	412.6	428.2	450.1	478.2	515.7	531.4	525.1	493.9	453.2	434.5	428.2
40°	381.3	390.7	409.5	428.2	465.7	493.9	472.0	443.8	412.6	397.0	387.6
42.5°	353.2	356.3	365.7	384.5	412.6	456.4	418.8	381.3	368.8	359.5	353.2
45°	321.9	321.9	334.4	343.8	375.1	415.7	378.2	343.8	337.6	331.3	328.2
47.5°	296.9	300.1	306.3	318.8	343.8	372.0	347.0	318.8	303.2	300.1	293.8
50°	265.7	268.8	281.3	293.8	325.1	340.7	325.1	293.8	278.2	268.8	268.8
52°	240.7	250.1	262.6	287.6	309.4	334.4	315.7	281.3	262.6	253.2	246.9
52.5°	237.6	243.8	256.3	284.4	309.4	331.3	312.6	278.2	256.3	250.1	243.8
55°	212.5	221.9	243.8	278.2	306.3	331.3	306.3	275.1	243.8	228.2	221.9
57.5°	203.2	209.4	237.6	281.3	303.2	331.3	306.3	275.1	243.8	215.7	209.4
60°	193.8	206.3	237.6	271.9	300.1	334.4	309.4	271.9	237.6	203.2	203.2
62.5°	184.4	193.8	234.4	265.7	287.6	321.9	296.9	265.7	228.2	193.8	190.7
65°	159.4	175.0	206.3	221.9	246.9	278.2	253.2	231.3	200.0	171.9	168.8
67.5°	121.9	128.2	153.2	171.9	187.5	215.7	203.2	175.0	153.2	131.3	131.3
70°	84.4	90.6	109.4	118.8	134.4	150.0	140.7	118.8	103.1	90.6	87.5
72.5°	59.4	62.5	68.8	75.0	81.3	87.5	84.4	68.8	59.4	56.3	53.1
75°	46.9	53.1	56.3	53.1	50.0	46.9	46.9	40.6	34.4	31.3	31.3
77.5°	46.9	50.0	46.9	40.6	34.4	31.3	28.1	25.0	18.8	15.6	18.8
80°	40.6	40.6	40.6	34.4	31.3	28.1	25.0	21.9	18.8	15.6	15.6
82.5°	43.8	43.8	40.6	34.4	34.4	28.1	28.1	25.0	21.9	15.6	15.6
85°	0.0	0.0	0.0	6.3	15.6	28.1	28.1	25.0	21.9	18.8	18.8
87.5°	0.0	0.0	0.0	0.0	3.1	6.3	12.5	15.6	18.8	18.8	18.8
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°	7989.3	7989.3	7989.3	7989.3	7989.3	7989.3	7989.3	7989.3	7989.3	7989.3	7989.3
2.5°	6901.5	7020.3	7245.3	7470.4	7607.9	7770.5	8064.3	8220.6	8423.7	8523.8	8720.7
5°	5560.6	5841.9	5941.9	6198.2	6473.3	6748.4	7186.0	7667.3	8067.4	8342.5	8698.8
7.5°	4057.1	4122.8	4510.4	4682.3	5132.4	5632.5	6229.5	6835.9	7342.2	7792.3	8064.3
10°	3041.3	3282.0	3525.8	3854.0	4216.6	4732.3	5304.3	5973.2	6629.6	7079.7	7423.5
12.5°	2444.3	2635.0	2960.0	3313.2	3760.2	4100.9	4676.0	5338.7	6188.9	6629.6	7082.8
15°	1850.4	2094.2	2463.0	2828.7	3300.7	3660.2	4241.6	5076.1	6170.1	6776.5	7167.2
17.5°	1372.2	1537.8	1869.2	2278.6	2760.0	3266.3	4050.9	5048.0	6379.5	7101.6	7504.8
20°	1050.2	1106.5	1315.9	1681.6	2203.6	2866.3	3741.5	5169.9	6998.4	7892.4	8301.8
22.5°	850.2	875.2	956.5	1209.6	1716.0	2516.2	3594.5	5254.3	7695.4	8839.5	9386.4
25°	740.8	734.5	787.7	897.1	1340.9	2188.0	3407.0	5573.1	8548.8	9952.2	10442.9
27.5°	675.1	675.1	700.2	778.3	1112.7	1975.4	3288.2	5801.3	9408.3	10930.5	11196.2
30°	640.8	647.0	718.9	743.9	925.2	1722.3	3091.3	6032.6	10230.4	11555.7	11921.4
32.5°	593.9	568.9	553.2	615.8	778.3	1494.1	2894.4	6129.5	10896.2	12321.5	12634.0
35°	456.4	443.8	462.6	509.5	668.9	1300.3	2675.6	6238.9	11661.9	13209.2	13271.7
37.5°	412.6	409.5	422.0	462.6	562.6	1131.5	2519.3	6210.7	12246.5	13943.7	13774.9
40°	381.3	381.3	390.7	425.1	503.2	1012.7	2356.8	6185.7	12812.2	14768.9	14275.0
42.5°	356.3	356.3	372.0	393.8	478.2	934.6	2234.9	6151.4	13287.3	15275.2	14568.8
45°	321.9	331.3	356.3	378.2	484.5	881.4	2144.2	6020.1	13449.8	15269.0	14428.2
47.5°	296.9	309.4	334.4	365.7	437.6	865.8	2081.7	5904.4	13393.6	14893.9	13987.5
50°	268.8	284.4	318.8	372.0	372.0	834.6	2016.1	6007.6	13352.9	14603.2	13565.5
52°	250.1	262.6	306.3	362.6	325.1	768.9	1975.4	6207.6	13518.6	14565.7	13378.0
52.5°	246.9	256.3	296.9	356.3	309.4	756.4	1947.3	6254.5	13571.7	14471.9	13506.1
55°	218.8	231.3	271.9	278.2	253.2	622.0	1856.7	6360.8	13309.2	14287.5	13384.2
57.5°	206.3	212.5	240.7	228.2	218.8	468.9	1597.2	6195.1	11821.4	12690.3	12452.7
60°	190.7	196.9	225.0	178.2	184.4	328.2	1200.3	5379.3	9492.7	10574.2	11002.4
62.5°	184.4	181.3	212.5	143.8	156.3	237.6	847.1	4372.8	7314.1	8705.0	9445.8
65°	162.5	159.4	153.2	121.9	134.4	184.4	506.4	2853.8	5154.3	6585.8	6992.2
67.5°	125.0	131.3	112.5	96.9	112.5	143.8	281.3	1278.4	2703.7	3950.9	4279.1
70°	87.5	93.8	90.6	84.4	100.0	118.8	162.5	437.6	1119.0	2075.5	2288.0
72.5°	53.1	65.6	68.8	71.9	87.5	103.1	115.7	140.7	296.9	734.5	912.7
75°	31.3	43.8	53.1	62.5	71.9	87.5	96.9	100.0	103.1	137.5	221.9
77.5°	21.9	31.3	46.9	59.4	71.9	87.5	103.1	109.4	103.1	96.9	103.1
80°	18.8	31.3	43.8	56.3	75.0	90.6	103.1	103.1	100.0	87.5	93.8
82.5°	18.8	31.3	46.9	59.4	71.9	87.5	100.0	103.1	93.8	87.5	90.6
85°	21.9	34.4	50.0	62.5	78.1	71.9	65.6	53.1	50.0	40.6	43.8
87.5°	21.9	31.3	31.3	34.4	37.5	37.5	37.5	34.4	28.1	25.0	25.0
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°	7989.3	7989.3	7989.3	7989.3	7989.3	7989.3	7989.3	7989.3	7989.3	7989.3
2.5°	8730.1	8980.1	8970.7	8977.0	8939.5	8686.3	8564.4	8254.9	8342.5	8305.0
5°	9064.5	9311.4	9524.0	9499.0	9211.4	8867.6	8358.1	7876.7	7745.5	7551.7
7.5°	8730.1	9323.9	9520.9	9492.7	9067.6	8626.9	7814.2	7332.9	7104.7	6976.5
10°	8198.7	8886.3	9130.1	9180.2	8892.6	8223.7	7476.7	6704.6	6582.7	6360.8
12.5°	7895.5	8395.6	8545.6	8680.0	8580.0	8079.9	7220.3	6479.6	6310.8	6163.9
15°	7648.6	7945.5	8008.0	8161.2	8220.6	7951.8	7354.7	6723.4	6307.6	6292.0
17.5°	7876.7	7754.8	7526.7	7573.5	7761.1	7954.9	7701.7	7204.7	6801.5	6751.5
20°	8254.9	7717.3	7201.6	7317.2	7473.5	8067.4	8226.8	7876.7	7645.4	7517.3
22.5°	8689.4	7783.0	7098.4	7154.7	7451.6	8320.6	9077.0	8883.2	8451.9	8267.5
25°	9492.7	7964.3	7179.7	7217.2	7623.6	8673.8	9845.9	9989.7	9733.4	9695.9
27.5°	10277.3	8433.1	7357.9	7273.5	7711.1	9017.6	10311.7	11083.7	10633.6	10546.1
30°	10677.4	8814.4	7623.6	7479.8	8073.7	9227.0	10593.0	11796.4	11402.5	11361.9
32.5°	11290.0	9161.4	7829.9	7645.4	8276.8	9486.5	11118.1	12574.7	12193.3	11990.1
35°	11546.3	9539.6	8283.1	8067.4	8858.2	9849.0	11386.9	13268.6	13149.8	12952.9
37.5°	12040.2	9945.9	8817.6	8805.1	9561.5	10321.0	11871.4	14212.5	14190.6	13849.9
40°	12080.8	10389.8	9661.5	10055.3	10649.2	11143.1	12296.5	14475.1	14831.4	14600.1
42.5°	12143.3	11168.1	11121.2	11446.3	11955.8	11849.5	12312.1	14537.6	15081.5	14943.9
45°	12171.4	11946.4	12605.9	13206.0	13418.6	12774.7	12165.2	14418.8	15212.7	14868.9
47.5°	11946.4	12615.3	13806.2	14965.8	15028.3	13343.6	12102.7	14296.9	15290.9	15062.7
50°	11977.6	13034.1	14843.9	15881.6	15653.5	13846.8	12005.8	14221.9	15250.2	15097.1
52°	11902.6	13043.5	14990.8	15862.9	15703.5	13568.6	11840.1	13934.3	15212.7	15322.1
52.5°	11987.0	12987.2	14837.7	15875.4	15669.1	13706.2	11818.2	14093.7	15234.6	15012.7
55°	11696.3	12318.3	13940.6	14381.3	14350.0	12440.2	11146.2	13565.5	14662.6	14665.7
57.5°	10571.1	10677.4	10933.7	10924.3	10780.5	9780.3	9533.4	12474.6	13071.6	12746.6
60°	9314.6	7817.4	7126.6	6845.3	6685.9	6523.3	8433.1	11411.9	11468.2	11330.6
62.5°	8048.7	5419.9	4501.0	4422.9	4460.4	5054.2	8151.8	10989.9	10652.4	10355.4
65°	6495.2	3950.9	3269.5	3166.3	3532.0	4172.8	6598.3	8426.9	7908.0	7661.1
67.5°	4079.0	2881.9	2209.9	2016.1	2456.8	2872.5	4335.3	5294.9	4713.5	4372.8
70°	2419.3	1609.7	1000.2	897.1	1009.6	1531.6	2428.7	2641.2	2184.9	2009.8
72.5°	953.3	590.8	278.2	237.6	246.9	537.6	893.9	872.1	659.5	587.6
75°	256.3	178.2	96.9	78.1	65.6	100.0	143.8	93.8	34.4	43.8
77.5°	118.8	106.3	84.4	65.6	50.0	37.5	18.8	6.3	6.3	3.1
80°	103.1	90.6	78.1	65.6	50.0	31.3	15.6	3.1	3.1	3.1
82.5°	96.9	84.4	71.9	59.4	46.9	31.3	15.6	3.1	0.0	0.0
85°	40.6	53.1	59.4	56.3	50.0	31.3	15.6	3.1	0.0	0.0
87.5°	21.9	18.8	15.6	12.5	9.4	6.3	6.3	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)