

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: P530291

Luminaire Tested: **GALN-SA5C-730-U-SLR-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P530291
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-SA5C-730-U-SLR-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3000K, 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: 17726 lumens
Efficiency: N/A
Efficacy: 65.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G2

Input Watts (W): 269
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

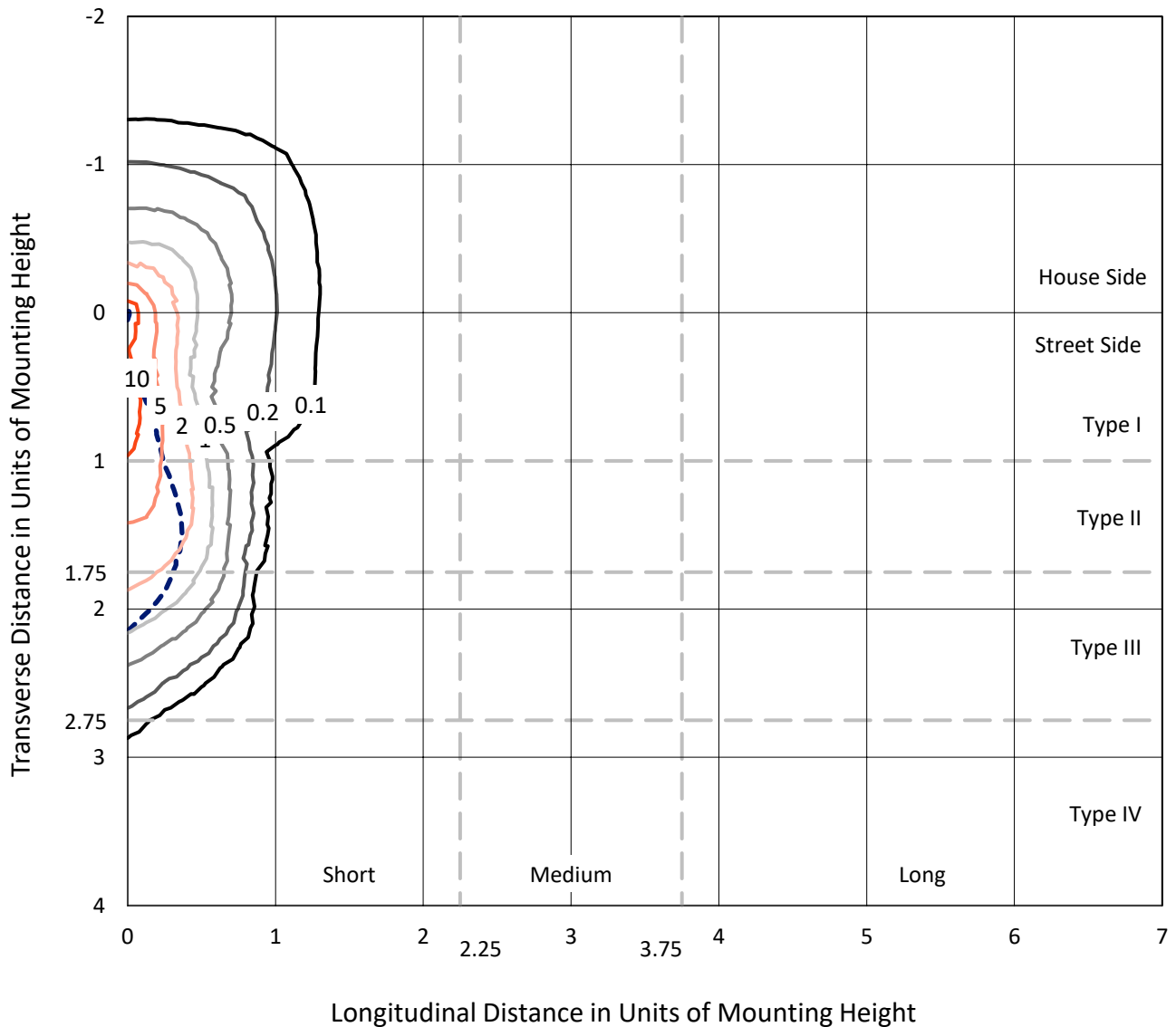




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Iso-Footcandle Lines of Horizontal Illumination

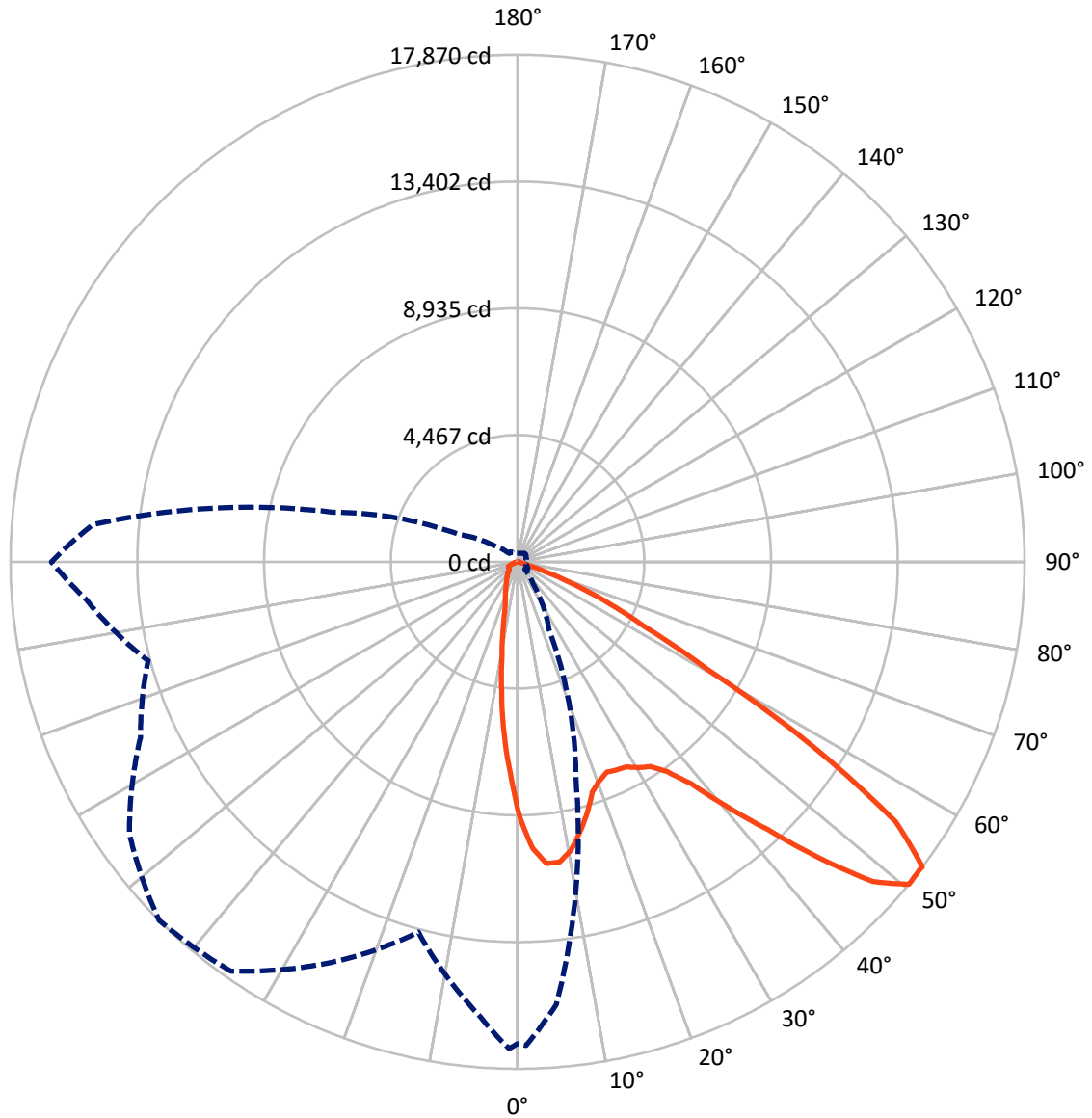
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.4 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 315-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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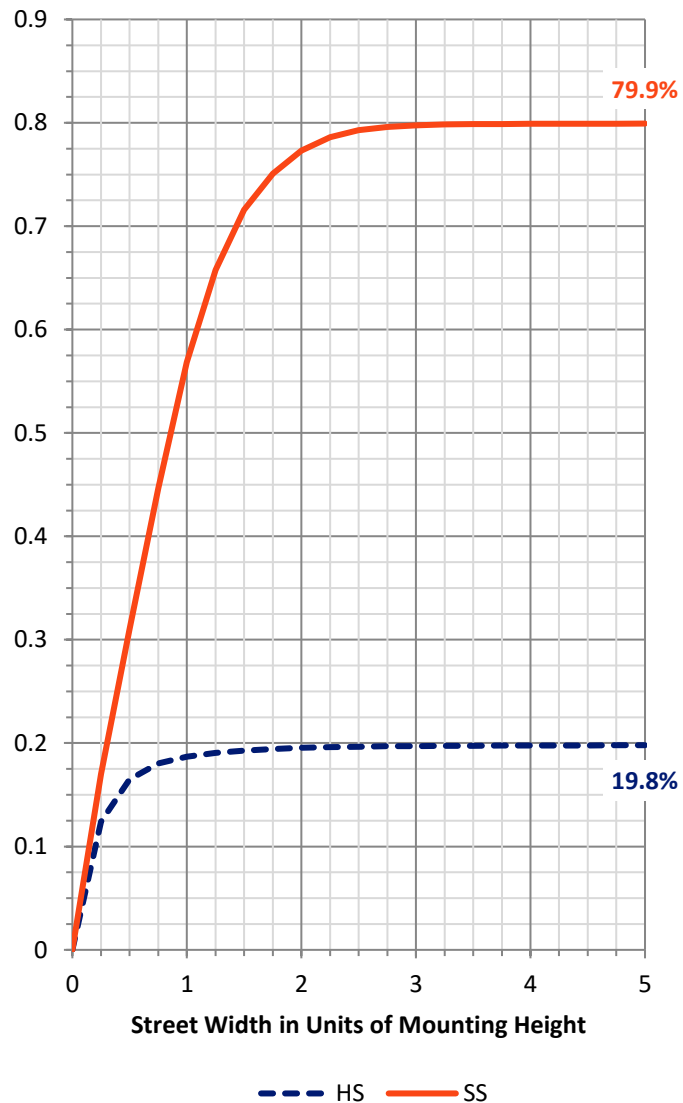
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3550.5	0.0	3550.5
	% Fixture	20.0	0.0	20.0
Street Side	Lumens	14175.5	0.0	14175.5
	% Fixture	80.0	0.0	80.0
Total	Lumens	17726.0	0.0	17726.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	655.2	3.7
10°-20°	1302.2	7.3
20°-30°	1956.3	11.0
30°-40°	2936.4	16.6
40°-50°	4126.9	23.3
50°-60°	4451.6	25.1
60°-70°	2066.9	11.7
70°-80°	194.5	1.1
80°-90°	35.8	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°	17726.0	100.0
0°-180°	17726.0	100.0

Coefficient of Utilization



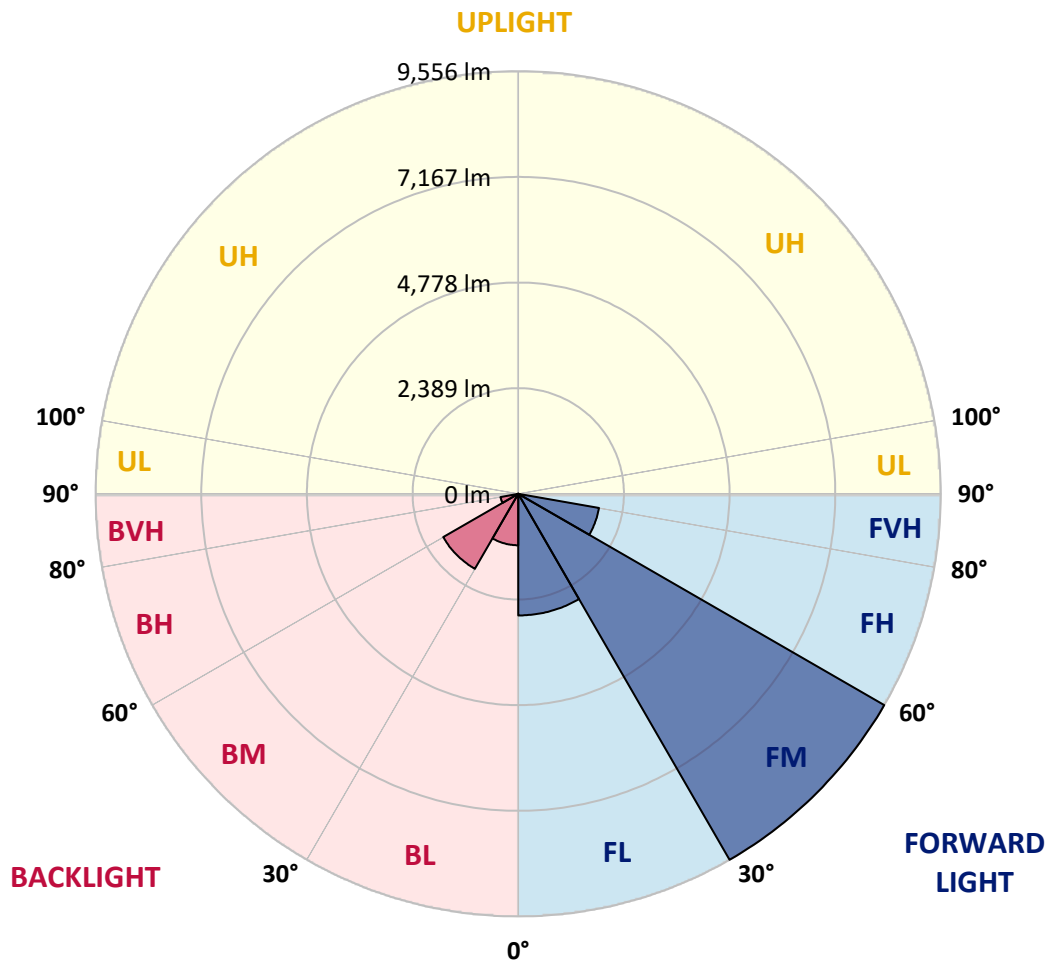
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2750.0	15.5			
FM (30°-60°)	9555.6	53.9			
FH (60°-80°)	1853.7	10.5			G2/5000
FVH (80°-90°)	16.1	0.1			G1/100
BL (0°-30°)	1163.8	6.6	B3/2500		
BM (30°-60°)	1959.4	11.1	B2/2500		
BH (60°-80°)	407.7	2.3	B1/500		G1/500
BVH (80°-90°)	19.7	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°	8989.3	8989.3	8989.3	8989.3	8989.3	8989.3	8989.3	8989.3	8989.3	8989.3	8989.3
2.5°	9344.5	9200.3	9017.5	8866.2	8641.1	8187.5	8064.4	7916.6	7793.6	7628.3	7396.1
5°	8496.9	8451.2	8366.8	7797.1	7385.6	6836.9	6386.8	6196.9	5947.2	5743.2	5595.5
7.5°	7849.8	7666.9	7399.7	6826.4	6168.7	5581.4	5082.0	4790.1	4459.5	4346.9	4146.5
10°	7157.0	7199.2	6805.3	5999.9	5205.1	4730.3	4420.8	4139.4	3840.5	3643.6	3358.7
12.5°	6935.4	6798.3	6495.8	5500.5	4821.7	4378.6	4002.3	3654.1	3337.6	3021.1	2746.7
15°	7079.6	6868.6	6446.6	5395.0	4526.3	3974.2	3502.9	3031.6	2739.7	2335.3	2050.4
17.5°	7596.6	7427.8	6861.6	5507.5	4375.1	3587.3	2887.4	2402.1	1955.4	1589.7	1445.5
20°	8458.3	8219.1	7508.7	5651.7	4150.0	3119.5	2342.3	1744.4	1322.4	1167.6	1086.7
22.5°	9302.3	9172.2	8275.4	5929.6	3949.5	2704.5	1758.5	1174.7	988.3	960.1	907.4
25°	10909.6	10519.2	9446.5	6432.5	3794.8	2314.2	1325.9	946.1	837.0	815.9	823.0
27.5°	11866.2	11539.1	10529.7	6766.6	3622.5	2015.2	1121.9	868.7	794.8	749.1	731.5
30°	12784.1	12404.3	11067.8	6963.6	3253.2	1698.7	995.3	833.5	815.9	749.1	728.0
32.5°	13491.0	13118.2	11845.1	7259.0	3101.9	1494.7	819.4	650.6	604.9	597.9	661.2
35°	14574.2	14176.8	12509.8	7420.8	2985.9	1389.2	710.4	580.3	527.5	506.4	510.0
37.5°	15583.6	15312.8	13125.2	7484.1	2862.8	1357.5	636.6	520.5	474.8	460.7	457.2
40°	16427.7	15822.7	13709.1	7550.9	2810.0	1297.8	590.8	474.8	443.1	422.0	422.0
42.5°	16814.5	16199.1	14363.2	7512.2	2796.0	1202.8	590.8	436.1	411.5	390.4	386.9
45°	16730.1	16480.4	14655.1	7494.6	2796.0	1107.8	538.1	425.6	390.4	362.2	355.2
47.5°	16948.2	16621.1	15020.9	7568.5	2739.7	1041.0	453.7	446.7	369.3	334.1	327.1
50°	16986.9	17050.2	15657.4	7951.8	2616.6	956.6	355.2	439.6	355.2	302.5	295.4
52°	17240.1	16846.2	15850.9	8155.8	2486.5	893.3	298.9	376.3	341.1	281.4	274.3
52.5°	16891.9	17148.6	15896.6	8229.7	2500.5	851.1	288.4	369.3	334.1	281.4	263.8
55°	16501.5	16747.7	15710.2	8387.9	2293.0	668.2	225.1	267.3	302.5	246.2	235.6
57.5°	14342.1	14591.8	13652.8	7681.0	1867.5	471.3	186.4	200.5	267.3	228.6	218.1
60°	12748.9	12569.6	11458.2	6407.9	1325.9	263.8	147.7	154.7	291.9	211.0	207.5
62.5°	11651.6	11268.3	9576.6	4948.3	808.9	175.8	116.1	119.6	225.1	196.9	196.9
65°	8620.0	8191.0	6362.2	2992.9	397.4	123.1	87.9	95.0	140.7	168.8	168.8
67.5°	4920.2	4754.9	3073.8	1350.5	165.3	77.4	66.8	73.9	109.0	137.2	130.1
70°	2261.4	2029.3	1181.7	284.9	77.4	52.8	52.8	59.8	87.9	102.0	95.0
72.5°	661.2	626.0	288.4	45.7	31.7	31.7	35.2	45.7	66.8	77.4	70.3
75°	49.2	31.7	21.1	14.1	14.1	21.1	28.1	45.7	66.8	73.9	59.8
77.5°	3.5	7.0	3.5	3.5	10.6	21.1	31.7	56.3	87.9	91.4	66.8
80°	3.5	3.5	0.0	3.5	10.6	21.1	35.2	63.3	98.5	105.5	56.3
82.5°	0.0	0.0	0.0	3.5	14.1	28.1	42.2	66.8	91.4	112.5	59.8
85°	0.0	0.0	0.0	3.5	21.1	38.7	49.2	17.6	10.6	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°	8989.3	8989.3	8989.3	8989.3	8989.3	8989.3	8989.3	8989.3	8989.3	8989.3	8989.3
2.5°	7561.4	7470.0	7434.8	7466.5	7455.9	7445.4	7638.8	7596.6	7589.6	7652.9	7638.8
5°	5676.4	5514.6	5957.7	5778.3	5964.7	6077.3	6098.4	6108.9	6239.1	6101.9	6281.3
7.5°	4044.5	4086.7	4083.2	4202.8	4417.3	4607.2	4719.7	4631.8	4624.8	4607.2	4529.8
10°	3232.1	3158.2	3144.2	3116.0	3182.8	3344.6	3481.8	3372.8	3295.4	3400.9	3369.2
12.5°	2641.2	2539.2	2483.0	2370.4	2373.9	2483.0	2483.0	2483.0	2560.3	2620.1	2665.8
15°	2025.8	1941.4	1941.4	1828.8	1804.2	1807.7	1864.0	1871.0	1994.1	2029.3	2046.9
17.5°	1417.3	1371.6	1424.4	1470.1	1441.9	1449.0	1470.1	1477.1	1494.7	1480.6	1515.8
20°	1090.3	1083.2	1097.3	1178.2	1238.0	1273.1	1248.5	1213.3	1192.2	1143.0	1143.0
22.5°	925.0	939.0	963.6	1030.5	1107.8	1128.9	1100.8	1019.9	956.6	949.6	953.1
25°	823.0	837.0	875.7	917.9	960.1	995.3	967.2	907.4	872.2	840.6	840.6
27.5°	759.7	766.7	787.8	819.4	854.6	882.8	872.2	840.6	801.9	787.8	756.1
30°	710.4	721.0	745.6	752.6	784.3	798.3	780.8	773.7	749.1	731.5	721.0
32.5°	685.8	682.3	699.9	706.9	710.4	721.0	699.9	710.4	706.9	678.8	668.2
35°	517.0	545.1	590.8	629.5	640.1	654.2	650.6	636.6	597.9	566.2	527.5
37.5°	464.2	481.8	506.4	538.1	580.3	597.9	590.8	555.7	510.0	488.9	481.8
40°	429.1	439.6	460.7	481.8	524.0	555.7	531.1	499.4	464.2	446.7	436.1
42.5°	397.4	400.9	411.5	432.6	464.2	513.5	471.3	429.1	415.0	404.4	397.4
45°	362.2	362.2	376.3	386.9	422.0	467.8	425.6	386.9	379.8	372.8	369.3
47.5°	334.1	337.6	344.7	358.7	386.9	418.5	390.4	358.7	341.1	337.6	330.6
50°	298.9	302.5	316.5	330.6	365.8	383.3	365.8	330.6	313.0	302.5	302.5
52°	270.8	281.4	295.4	323.6	348.2	376.3	355.2	316.5	295.4	284.9	277.8
52.5°	267.3	274.3	288.4	320.0	348.2	372.8	351.7	313.0	288.4	281.4	274.3
55°	239.2	249.7	274.3	313.0	344.7	372.8	344.7	309.5	274.3	256.7	249.7
57.5°	228.6	235.6	267.3	316.5	341.1	372.8	344.7	309.5	274.3	242.7	235.6
60°	218.1	232.1	267.3	306.0	337.6	376.3	348.2	306.0	267.3	228.6	228.6
62.5°	207.5	218.1	263.8	298.9	323.6	362.2	334.1	298.9	256.7	218.1	214.5
65°	179.4	196.9	232.1	249.7	277.8	313.0	284.9	260.3	225.1	193.4	189.9
67.5°	137.2	144.2	172.3	193.4	211.0	242.7	228.6	196.9	172.3	147.7	147.7
70°	95.0	102.0	123.1	133.6	151.2	168.8	158.3	133.6	116.1	102.0	98.5
72.5°	66.8	70.3	77.4	84.4	91.4	98.5	95.0	77.4	66.8	63.3	59.8
75°	52.8	59.8	63.3	59.8	56.3	52.8	52.8	45.7	38.7	35.2	35.2
77.5°	52.8	56.3	52.8	45.7	38.7	35.2	31.7	28.1	21.1	17.6	21.1
80°	45.7	45.7	45.7	38.7	35.2	31.7	28.1	24.6	21.1	17.6	17.6
82.5°	49.2	49.2	45.7	38.7	38.7	31.7	31.7	28.1	24.6	17.6	17.6
85°	0.0	0.0	0.0	7.0	17.6	31.7	31.7	28.1	24.6	21.1	21.1
87.5°	0.0	0.0	0.0	0.0	3.5	7.0	14.1	17.6	21.1	21.1	21.1
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):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	8989.3	8989.3	8989.3	8989.3	8989.3	8989.3	8989.3	8989.3	8989.3	8989.3	8989.3
2.5°	7765.4	7899.1	8152.3	8405.5	8560.2	8743.1	9073.7	9249.6	9478.2	9590.7	9812.3
5°	6256.6	6573.2	6685.7	6974.1	7283.6	7593.1	8085.5	8627.1	9077.2	9386.7	9787.7
7.5°	4565.0	4638.9	5075.0	5268.4	5774.8	6337.5	7009.3	7691.6	8261.3	8767.7	9073.7
10°	3422.0	3692.8	3967.1	4336.4	4744.4	5324.7	5968.3	6720.9	7459.4	7965.9	8352.7
12.5°	2750.3	2964.8	3330.5	3728.0	4230.9	4614.2	5261.4	6006.9	6963.6	7459.4	7969.4
15°	2082.0	2356.4	2771.4	3182.8	3713.9	4118.3	4772.5	5711.5	6942.5	7624.7	8064.4
17.5°	1543.9	1730.3	2103.1	2563.9	3105.5	3675.2	4558.0	5679.9	7178.1	7990.5	8444.2
20°	1181.7	1245.0	1480.6	1892.1	2479.4	3225.0	4209.8	5817.0	7874.4	8880.3	9341.0
22.5°	956.6	984.7	1076.2	1361.1	1930.8	2831.1	4044.5	5912.0	8658.7	9945.9	10561.4
25°	833.5	826.5	886.3	1009.4	1508.8	2461.9	3833.5	6270.7	9618.8	11198.0	11750.1
27.5°	759.7	759.7	787.8	875.7	1252.0	2222.7	3699.8	6527.5	10586.0	12298.8	12597.7
30°	721.0	728.0	808.9	837.0	1041.0	1937.8	3478.3	6787.7	11511.0	13002.2	13413.6
32.5°	668.2	640.1	622.5	692.8	875.7	1681.1	3256.7	6896.7	12260.1	13863.8	14215.5
35°	513.5	499.4	520.5	573.3	752.6	1463.0	3010.5	7019.8	13121.7	14862.6	14933.0
37.5°	464.2	460.7	474.8	520.5	633.1	1273.1	2834.7	6988.2	13779.4	15689.1	15499.2
40°	429.1	429.1	439.6	478.3	566.2	1139.5	2651.8	6960.0	14416.0	16617.6	16061.9
42.5°	400.9	400.9	418.5	443.1	538.1	1051.6	2514.6	6921.4	14950.5	17187.3	16392.5
45°	362.2	372.8	400.9	425.6	545.1	991.8	2412.6	6773.6	15133.4	17180.3	16234.2
47.5°	334.1	348.2	376.3	411.5	492.4	974.2	2342.3	6643.5	15070.1	16758.3	15738.3
50°	302.5	320.0	358.7	418.5	418.5	939.0	2268.4	6759.6	15024.4	16431.2	15263.5
52°	281.4	295.4	344.7	408.0	365.8	865.2	2222.7	6984.7	15210.8	16389.0	15052.5
52.5°	277.8	288.4	334.1	400.9	348.2	851.1	2191.1	7037.4	15270.6	16283.5	15196.7
55°	246.2	260.3	306.0	313.0	284.9	699.9	2089.1	7157.0	14975.2	16076.0	15059.6
57.5°	232.1	239.2	270.8	256.7	246.2	527.5	1797.2	6970.6	13301.1	14278.8	14011.5
60°	214.5	221.6	253.2	200.5	207.5	369.3	1350.5	6052.7	10681.0	11897.8	12379.7
62.5°	207.5	204.0	239.2	161.8	175.8	267.3	953.1	4920.2	8229.7	9794.7	10628.2
65°	182.9	179.4	172.3	137.2	151.2	207.5	569.7	3211.0	5799.4	7410.2	7867.4
67.5°	140.7	147.7	126.6	109.0	126.6	161.8	316.5	1438.4	3042.2	4445.4	4814.7
70°	98.5	105.5	102.0	95.0	112.5	133.6	182.9	492.4	1259.1	2335.3	2574.4
72.5°	59.8	73.9	77.4	80.9	98.5	116.1	130.1	158.3	334.1	826.5	1026.9
75°	35.2	49.2	59.8	70.3	80.9	98.5	109.0	112.5	116.1	154.7	249.7
77.5°	24.6	35.2	52.8	66.8	80.9	98.5	116.1	123.1	116.1	109.0	116.1
80°	21.1	35.2	49.2	63.3	84.4	102.0	116.1	116.1	112.5	98.5	105.5
82.5°	21.1	35.2	52.8	66.8	80.9	98.5	112.5	116.1	105.5	98.5	102.0
85°	24.6	38.7	56.3	70.3	87.9	80.9	73.9	59.8	56.3	45.7	49.2
87.5°	24.6	35.2	35.2	38.7	42.2	42.2	42.2	38.7	31.7	28.1	28.1
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°	8989.3	8989.3	8989.3	8989.3	8989.3	8989.3	8989.3	8989.3	8989.3	8989.3
2.5°	9822.8	10104.2	10093.6	10100.7	10058.5	9773.6	9636.4	9288.3	9386.7	9344.5
5°	10199.1	10477.0	10716.1	10688.0	10364.4	9977.6	9404.3	8862.7	8715.0	8496.9
7.5°	9822.8	10491.1	10712.6	10681.0	10202.7	9706.8	8792.4	8250.8	7994.0	7849.8
10°	9225.0	9998.7	10273.0	10329.3	10005.7	9253.1	8412.5	7543.9	7406.7	7157.0
12.5°	8883.8	9446.5	9615.3	9766.6	9654.0	9091.3	8124.1	7290.6	7100.7	6935.4
15°	8606.0	8940.1	9010.4	9182.7	9249.6	8947.1	8275.4	7565.0	7097.2	7079.6
17.5°	8862.7	8725.5	8468.8	8521.6	8732.6	8950.6	8665.8	8106.6	7652.9	7596.6
20°	9288.3	8683.3	8103.0	8233.2	8409.0	9077.2	9256.6	8862.7	8602.5	8458.3
22.5°	9777.1	8757.2	7987.0	8050.3	8384.4	9362.1	10213.2	9995.2	9509.8	9302.3
25°	10681.0	8961.2	8078.4	8120.6	8577.8	9759.5	11078.4	11240.2	10951.8	10909.6
27.5°	11563.7	9488.7	8278.9	8183.9	8676.3	10146.4	11602.4	12471.1	11964.7	11866.2
30°	12013.9	9917.8	8577.8	8416.1	9084.3	10382.0	11918.9	13273.0	12829.8	12784.1
32.5°	12703.2	10308.2	8810.0	8602.5	9312.9	10673.9	12509.8	14148.7	13719.6	13491.0
35°	12991.6	10733.7	9319.9	9077.2	9967.0	11081.9	12812.2	14929.4	14795.8	14574.2
37.5°	13547.3	11190.9	9921.3	9907.2	10758.3	11613.0	13357.4	15991.6	15966.9	15583.6
40°	13593.0	11690.3	10870.9	11314.0	11982.2	12537.9	13835.7	16287.0	16687.9	16427.7
42.5°	13663.3	12566.1	12513.3	12879.1	13452.3	13332.7	13853.3	16357.3	16969.3	16814.5
45°	13695.0	13441.8	14183.8	14859.1	15098.3	14373.8	13688.0	16223.7	17117.0	16730.1
47.5°	13441.8	14194.4	15534.4	16839.1	16909.5	15013.8	13617.6	16086.5	17204.9	16948.2
50°	13476.9	14665.7	16702.0	17869.6	17612.9	15580.1	13508.6	16002.1	17159.2	16986.9
52°	13392.5	14676.2	16867.3	17848.5	17669.1	15267.1	13322.2	15678.5	17117.0	17240.1
52.5°	13487.5	14612.9	16694.9	17862.6	17630.5	15421.8	13297.6	15857.9	17141.6	16891.9
55°	13160.4	13860.3	15685.6	16181.5	16146.3	13997.4	12541.4	15263.5	16498.0	16501.5
57.5°	11894.3	12013.9	12302.3	12291.7	12130.0	11004.5	10726.7	14036.1	14707.9	14342.1
60°	10480.5	8795.9	8018.6	7702.1	7522.7	7339.9	9488.7	12840.4	12903.7	12748.9
62.5°	9056.1	6098.4	5064.4	4976.5	5018.7	5686.9	9172.2	12365.6	11985.8	11651.6
65°	7308.2	4445.4	3678.7	3562.7	3974.2	4695.1	7424.3	9481.7	8897.9	8620.0
67.5°	4589.6	3242.6	2486.5	2268.4	2764.3	3232.1	4878.0	5957.7	5303.6	4920.2
70°	2722.1	1811.2	1125.4	1009.4	1136.0	1723.3	2732.7	2971.8	2458.3	2261.4
72.5°	1072.7	664.7	313.0	267.3	277.8	604.9	1005.8	981.2	742.1	661.2
75°	288.4	200.5	109.0	87.9	73.9	112.5	161.8	105.5	38.7	49.2
77.5°	133.6	119.6	95.0	73.9	56.3	42.2	21.1	7.0	7.0	3.5
80°	116.1	102.0	87.9	73.9	56.3	35.2	17.6	3.5	3.5	3.5
82.5°	109.0	95.0	80.9	66.8	52.8	35.2	17.6	3.5	0.0	0.0
85°	45.7	59.8	66.8	63.3	56.3	35.2	17.6	3.5	0.0	0.0
87.5°	24.6	21.1	17.6	14.1	10.6	7.0	7.0	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

(END OF REPORT)