

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: P651903

Luminaire Tested: **GALN-SA5A-840-U-SLR-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P651903
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-SA5A-840-U-SLR-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 4000K, 615mA 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: 10647.9 lumens
Efficiency: N/A
Efficacy: 69.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G1

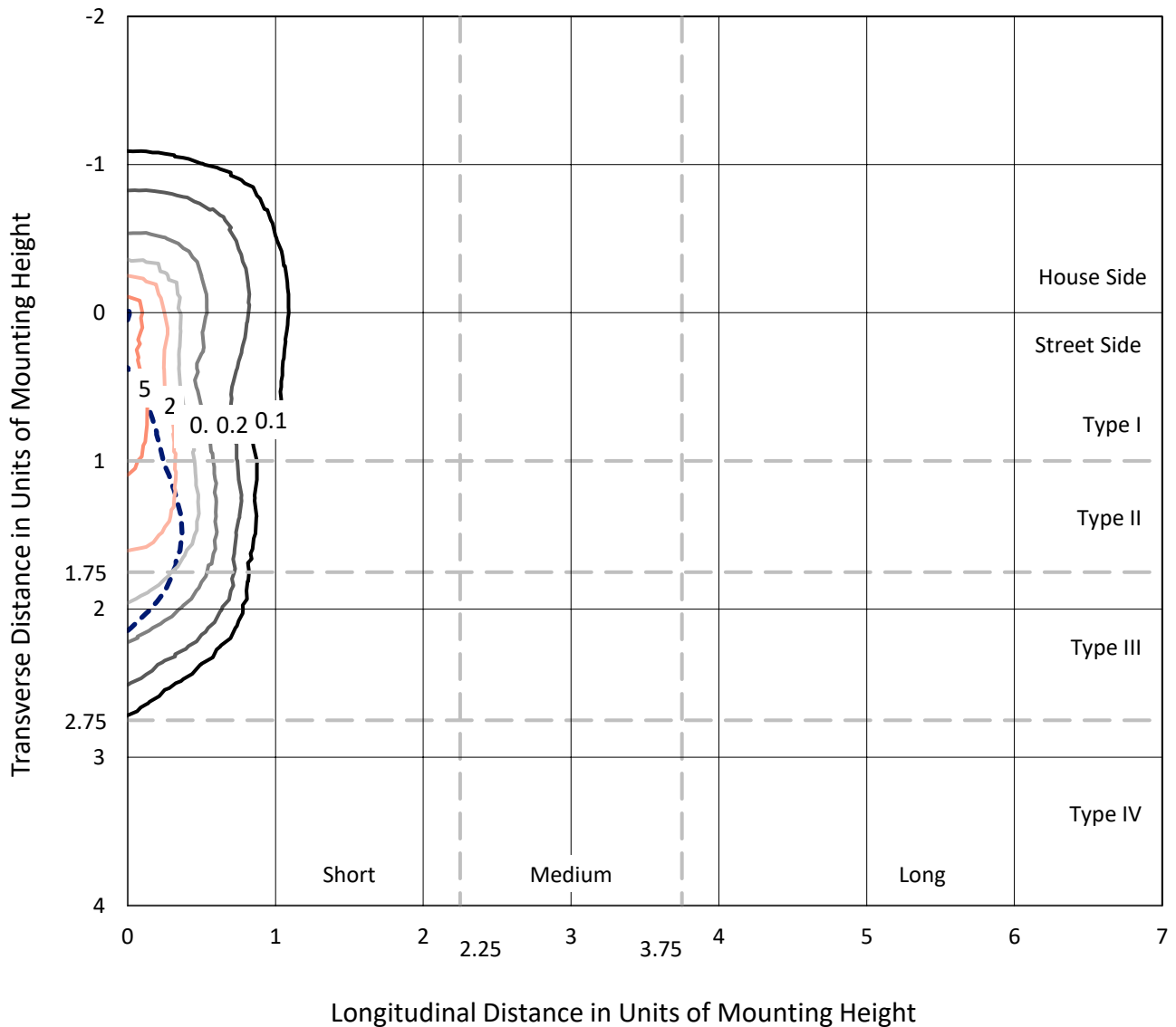
Input Watts (W): 154
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

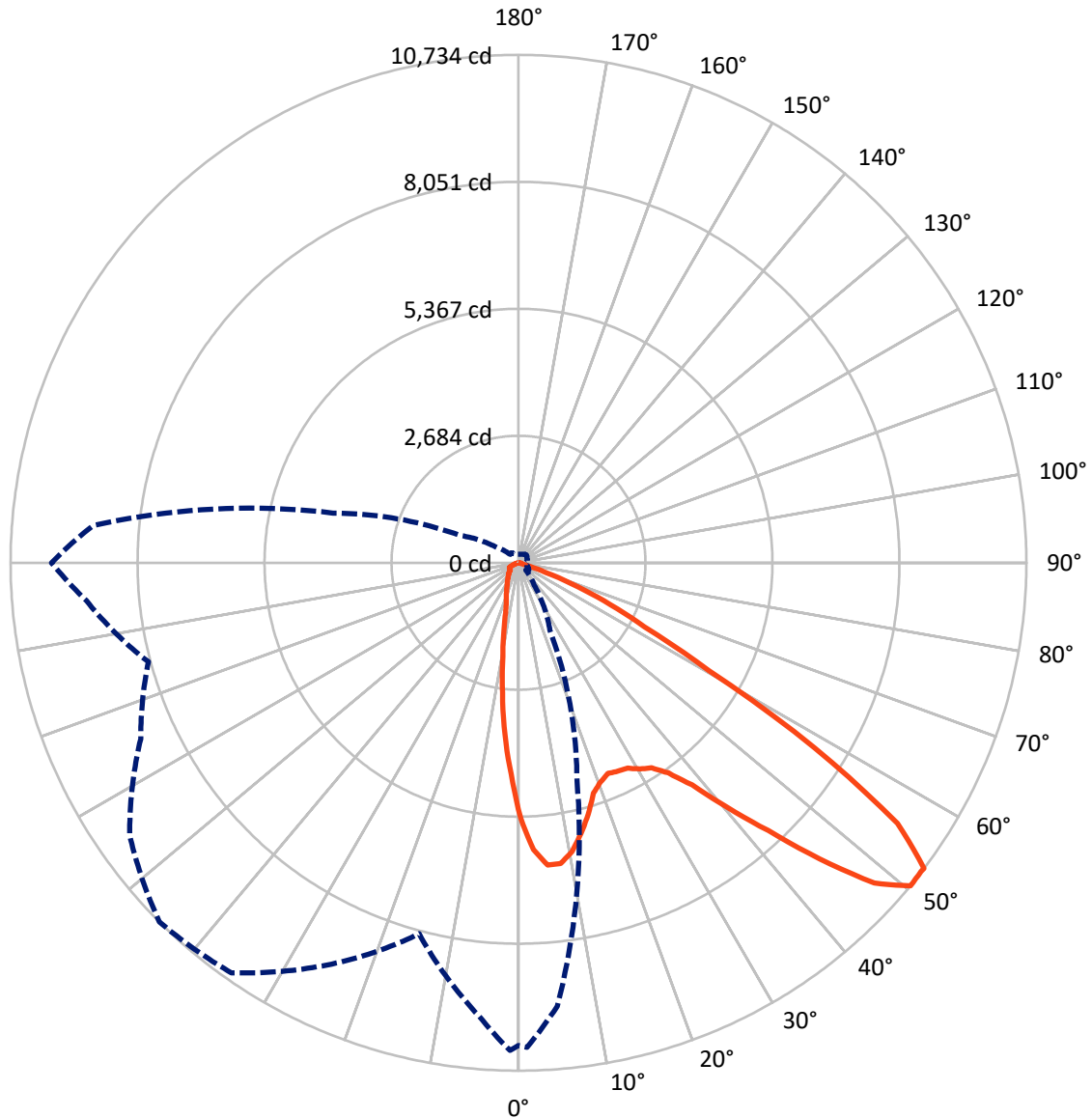
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.6 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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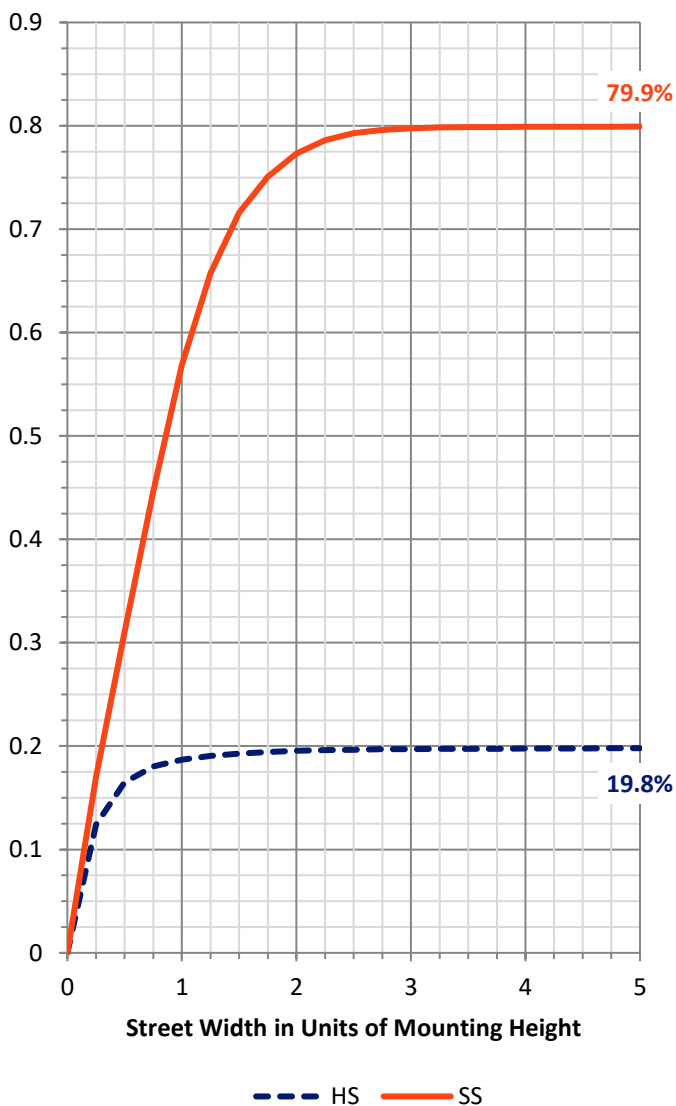
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2132.8	0.0	2132.8
	% Fixture	20.0	0.0	20.0
Street Side	Lumens	8515.1	0.0	8515.1
	% Fixture	80.0	0.0	80.0
Total	Lumens	10647.9	0.0	10647.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	393.6	3.7
10°-20°	782.2	7.3
20°-30°	1175.2	11.0
30°-40°	1763.9	16.6
40°-50°	2479.0	23.3
50°-60°	2674.1	25.1
60°-70°	1241.5	11.7
70°-80°	116.8	1.1
80°-90°	21.5	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°	10647.9	100.0
0°-180°	10647.9	100.0

Coefficient of Utilization



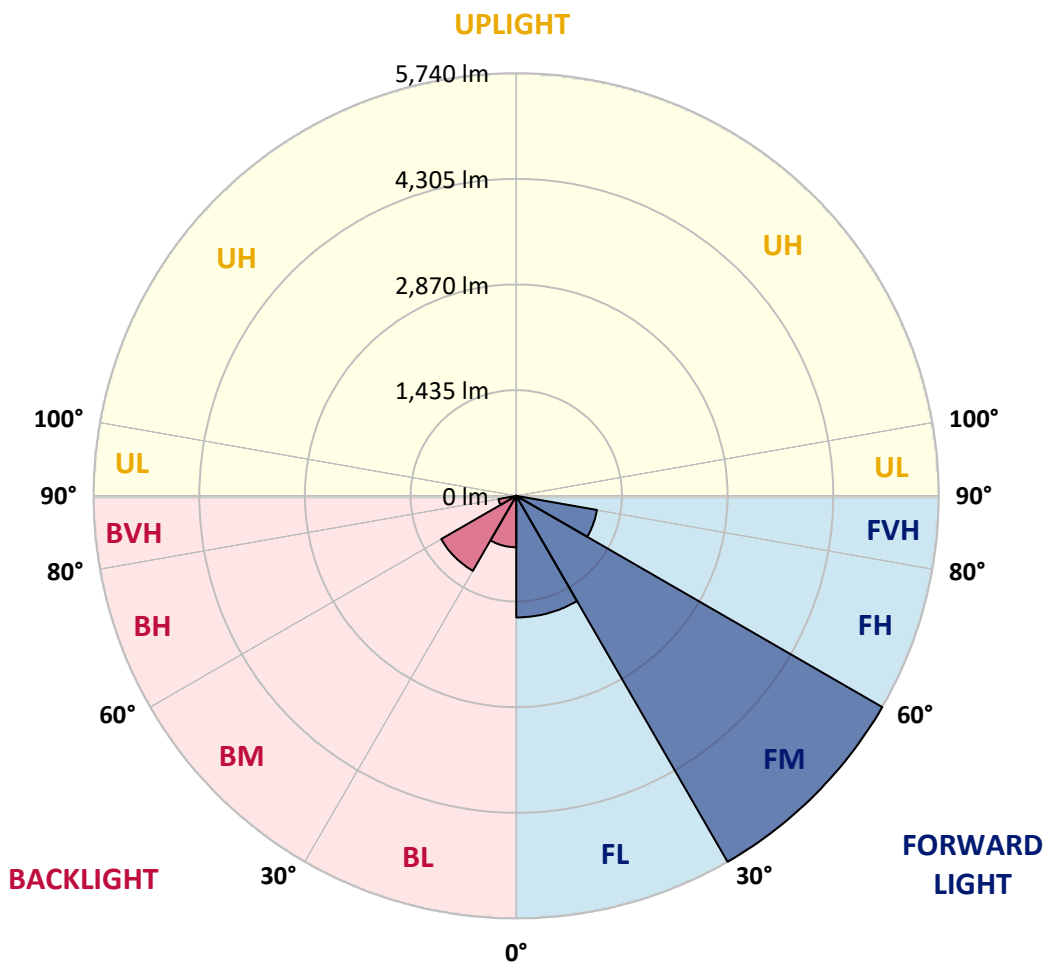
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1651.9	15.5			
FM (30°-60°)	5740.0	53.9			
FH (60°-80°)	1113.5	10.5			G1/1800
FVH (80°-90°)	9.7	0.1			G0/10
BL (0°-30°)	699.1	6.6	B2/1000		
BM (30°-60°)	1177.0	11.1	B2/2500		
BH (60°-80°)	244.9	2.3	B1/500		G1/500
BVH (80°-90°)	11.8	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	5399.8	5399.8	5399.8	5399.8	5399.8	5399.8	5399.8	5399.8	5399.8	5399.8	5399.8
2.5°	5613.2	5526.5	5416.7	5325.9	5190.7	4918.2	4844.2	4755.5	4681.5	4582.3	4442.8
5°	5104.0	5076.6	5025.9	4683.6	4436.4	4106.9	3836.5	3722.4	3572.4	3449.9	3361.1
7.5°	4715.3	4605.5	4444.9	4100.5	3705.5	3352.7	3052.7	2877.4	2678.8	2611.2	2490.8
10°	4299.2	4324.5	4087.9	3604.1	3126.7	2841.5	2655.5	2486.5	2306.9	2188.7	2017.6
12.5°	4166.1	4083.6	3902.0	3304.1	2896.4	2630.2	2404.2	2195.0	2004.9	1814.7	1650.0
15°	4252.7	4125.9	3872.4	3240.7	2719.0	2387.3	2104.2	1821.1	1645.8	1402.8	1231.6
17.5°	4563.3	4461.8	4121.7	3308.3	2628.1	2154.9	1734.5	1442.9	1174.6	954.9	868.2
20°	5080.8	4937.2	4510.5	3394.9	2492.9	1873.9	1407.0	1047.9	794.3	701.4	652.8
22.5°	5587.9	5509.6	4971.0	3561.9	2372.5	1624.6	1056.3	705.6	593.7	576.8	545.1
25°	6553.3	6318.9	5674.5	3864.0	2279.5	1390.1	796.4	568.3	502.8	490.1	494.3
27.5°	7128.0	6931.4	6325.2	4064.6	2176.0	1210.5	673.9	521.8	477.4	450.0	439.4
30°	7679.3	7451.2	6648.4	4183.0	1954.1	1020.4	597.9	500.6	490.1	450.0	437.3
32.5°	8104.0	7880.0	7115.3	4360.4	1863.3	897.9	492.2	390.8	363.4	359.1	397.2
35°	8754.6	8516.0	7514.6	4457.6	1793.6	834.4	426.7	348.6	316.9	304.2	306.3
37.5°	9361.0	9198.3	7884.3	4495.6	1719.7	815.4	382.4	312.7	285.2	276.8	274.7
40°	9868.0	9504.6	8235.0	4535.8	1688.0	779.5	354.9	285.2	266.2	253.5	253.5
42.5°	10100.4	9730.7	8627.9	4512.6	1679.6	722.5	354.9	262.0	247.2	234.5	232.4
45°	10049.7	9899.7	8803.3	4502.0	1679.6	665.5	323.2	255.7	234.5	217.6	213.4
47.5°	10180.6	9984.2	9022.9	4546.4	1645.8	625.4	272.6	268.3	221.9	200.7	196.5
50°	10203.9	10242.0	9405.3	4776.6	1571.7	574.7	213.4	264.1	213.4	181.7	177.5
52°	10356.0	10119.4	9521.5	4899.2	1493.6	536.6	179.6	226.1	205.0	169.0	164.8
52.5°	10146.8	10301.1	9549.0	4943.5	1502.0	511.2	173.2	221.9	200.7	169.0	158.4
55°	9912.4	10060.2	9437.0	5038.6	1377.4	401.4	135.2	160.5	181.7	147.8	141.5
57.5°	8615.2	8765.2	8201.2	4614.0	1121.8	283.1	111.9	120.4	160.5	137.3	130.9
60°	7658.2	7550.5	6882.9	3849.2	796.4	158.4	88.7	92.9	175.3	126.7	124.6
62.5°	6999.1	6768.8	5752.6	2972.4	485.9	105.6	69.7	71.8	135.2	118.3	118.3
65°	5178.0	4920.3	3821.7	1797.8	238.8	73.9	52.8	57.0	84.5	101.4	101.4
67.5°	2955.5	2856.3	1846.4	811.2	99.3	46.5	40.1	44.4	65.5	82.4	78.1
70°	1358.4	1218.9	709.8	171.1	46.5	31.7	31.7	35.9	52.8	61.2	57.0
72.5°	397.2	376.0	173.2	27.5	19.0	19.0	21.1	27.5	40.1	46.5	42.2
75°	29.6	19.0	12.7	8.4	8.4	12.7	16.9	27.5	40.1	44.4	35.9
77.5°	2.1	4.2	2.1	2.1	6.3	12.7	19.0	33.8	52.8	54.9	40.1
80°	2.1	2.1	0.0	2.1	6.3	12.7	21.1	38.0	59.1	63.4	33.8
82.5°	0.0	0.0	0.0	2.1	8.4	16.9	25.3	40.1	54.9	67.6	35.9
85°	0.0	0.0	0.0	2.1	12.7	23.2	29.6	10.6	6.3	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°	5399.8	5399.8	5399.8	5399.8	5399.8	5399.8	5399.8	5399.8	5399.8	5399.8	5399.8
2.5°	4542.1	4487.2	4466.0	4485.1	4478.7	4472.4	4588.6	4563.3	4559.0	4597.1	4588.6
5°	3409.8	3312.5	3578.8	3471.0	3583.0	3650.6	3663.2	3669.6	3747.7	3665.4	3773.1
7.5°	2429.5	2454.9	2452.8	2524.6	2653.4	2767.5	2835.1	2782.3	2778.1	2767.5	2721.1
10°	1941.4	1897.1	1888.6	1871.7	1911.9	2009.1	2091.5	2026.0	1979.5	2042.9	2023.9
12.5°	1586.5	1525.3	1491.5	1423.9	1426.0	1491.5	1491.5	1491.5	1538.0	1573.9	1601.3
15°	1216.8	1166.1	1166.1	1098.6	1083.8	1085.9	1119.7	1123.9	1197.8	1218.9	1229.5
17.5°	851.3	823.9	855.6	883.0	866.1	870.4	883.0	887.3	897.9	889.4	910.6
20°	654.9	650.7	659.2	707.7	743.6	764.8	750.0	728.8	716.2	686.6	686.6
22.5°	555.6	564.1	578.9	619.0	665.5	678.2	661.3	612.7	574.7	570.4	572.6
25°	494.3	502.8	526.0	551.4	576.8	597.9	581.0	545.1	523.9	504.9	504.9
27.5°	456.3	460.5	473.2	492.2	513.3	530.3	523.9	504.9	481.6	473.2	454.2
30°	426.7	433.1	447.8	452.1	471.1	479.5	469.0	464.7	450.0	439.4	433.1
32.5°	411.9	409.8	420.4	424.6	426.7	433.1	420.4	426.7	424.6	407.7	401.4
35°	310.6	327.5	354.9	378.2	384.5	392.9	390.8	382.4	359.1	340.1	316.9
37.5°	278.9	289.4	304.2	323.2	348.6	359.1	354.9	333.8	306.3	293.7	289.4
40°	257.8	264.1	276.8	289.4	314.8	333.8	319.0	300.0	278.9	268.3	262.0
42.5°	238.8	240.9	247.2	259.9	278.9	308.5	283.1	257.8	249.3	243.0	238.8
45°	217.6	217.6	226.1	232.4	253.5	281.0	255.7	232.4	228.2	224.0	221.9
47.5°	200.7	202.8	207.1	215.5	232.4	251.4	234.5	215.5	205.0	202.8	198.6
50°	179.6	181.7	190.2	198.6	219.8	230.3	219.8	198.6	188.0	181.7	181.7
52°	162.6	169.0	177.5	194.4	209.2	226.1	213.4	190.2	177.5	171.1	166.9
52.5°	160.5	164.8	173.2	192.3	209.2	224.0	211.3	188.0	173.2	169.0	164.8
55°	143.6	150.0	164.8	188.0	207.1	224.0	207.1	185.9	164.8	154.2	150.0
57.5°	137.3	141.5	160.5	190.2	205.0	224.0	207.1	185.9	164.8	145.7	141.5
60°	130.9	139.4	160.5	183.8	202.8	226.1	209.2	183.8	160.5	137.3	137.3
62.5°	124.6	130.9	158.4	179.6	194.4	217.6	200.7	179.6	154.2	130.9	128.8
65°	107.7	118.3	139.4	150.0	166.9	188.0	171.1	156.3	135.2	116.2	114.0
67.5°	82.4	86.6	103.5	116.2	126.7	145.7	137.3	118.3	103.5	88.7	88.7
70°	57.0	61.2	73.9	80.3	90.8	101.4	95.0	80.3	69.7	61.2	59.1
72.5°	40.1	42.2	46.5	50.7	54.9	59.1	57.0	46.5	40.1	38.0	35.9
75°	31.7	35.9	38.0	35.9	33.8	31.7	31.7	27.5	23.2	21.1	21.1
77.5°	31.7	33.8	31.7	27.5	23.2	21.1	19.0	16.9	12.7	10.6	12.7
80°	27.5	27.5	27.5	23.2	21.1	19.0	16.9	14.8	12.7	10.6	10.6
82.5°	29.6	29.6	27.5	23.2	23.2	19.0	19.0	16.9	14.8	10.6	10.6
85°	0.0	0.0	0.0	4.2	10.6	19.0	19.0	16.9	14.8	12.7	12.7
87.5°	0.0	0.0	0.0	0.0	2.1	4.2	8.4	10.6	12.7	12.7	12.7
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°	5399.8	5399.8	5399.8	5399.8	5399.8	5399.8	5399.8	5399.8	5399.8	5399.8	5399.8
2.5°	4664.6	4744.9	4897.1	5049.1	5142.1	5252.0	5450.5	5556.2	5693.5	5761.1	5894.1
5°	3758.3	3948.5	4016.0	4189.3	4375.2	4561.2	4856.9	5182.2	5452.6	5638.6	5879.4
7.5°	2742.2	2786.6	3048.5	3164.7	3468.9	3807.0	4210.5	4620.3	4962.5	5266.8	5450.5
10°	2055.6	2218.2	2383.1	2604.8	2849.9	3198.5	3585.1	4037.2	4480.8	4785.0	5017.4
12.5°	1652.1	1780.9	2000.7	2239.3	2541.5	2771.8	3160.5	3608.3	4183.0	4480.8	4787.1
15°	1250.7	1415.5	1664.8	1911.9	2230.9	2473.9	2866.8	3430.9	4170.3	4580.2	4844.2
17.5°	927.5	1039.4	1263.4	1540.1	1865.4	2207.7	2738.0	3411.9	4311.8	4799.8	5072.4
20°	709.8	747.9	889.4	1136.6	1489.4	1937.2	2528.8	3494.3	4730.1	5334.4	5611.1
22.5°	574.7	591.6	646.5	817.6	1159.8	1700.7	2429.5	3551.3	5201.2	5974.5	6344.2
25°	500.6	496.4	532.4	606.3	906.3	1478.8	2302.7	3766.8	5778.0	6726.6	7058.3
27.5°	456.3	456.3	473.2	526.0	752.1	1335.2	2222.4	3921.0	6359.0	7387.8	7567.4
30°	433.1	437.3	485.9	502.8	625.4	1164.0	2089.4	4077.3	6914.5	7810.3	8057.5
32.5°	401.4	384.5	373.9	416.2	526.0	1009.8	1956.3	4142.9	7364.6	8327.9	8539.2
35°	308.5	300.0	312.7	344.4	452.1	878.8	1808.4	4216.8	7882.1	8927.9	8970.1
37.5°	278.9	276.8	285.2	312.7	380.3	764.8	1702.8	4197.8	8277.2	9424.3	9310.3
40°	257.8	257.8	264.1	287.3	340.1	684.5	1592.9	4180.9	8659.6	9982.1	9648.3
42.5°	240.9	240.9	251.4	266.2	323.2	631.7	1510.5	4157.7	8980.7	10324.3	9846.8
45°	217.6	224.0	240.9	255.7	327.5	595.8	1449.2	4068.9	9090.5	10320.1	9751.8
47.5°	200.7	209.2	226.1	247.2	295.8	585.2	1407.0	3990.7	9052.5	10066.6	9453.9
50°	181.7	192.3	215.5	251.4	251.4	564.1	1362.7	4060.4	9025.0	9870.1	9168.8
52°	169.0	177.5	207.1	245.1	219.8	519.7	1335.2	4195.7	9137.0	9844.7	9041.9
52.5°	166.9	173.2	200.7	240.9	209.2	511.2	1316.2	4227.4	9173.0	9781.4	9128.6
55°	147.8	156.3	183.8	188.0	171.1	420.4	1254.9	4299.2	8995.5	9656.7	9046.2
57.5°	139.4	143.6	162.6	154.2	147.8	316.9	1079.5	4187.2	7989.9	8577.2	8416.6
60°	128.8	133.1	152.1	120.4	124.6	221.9	811.2	3635.8	6416.0	7147.0	7436.4
62.5°	124.6	122.5	143.6	97.2	105.6	160.5	572.6	2955.5	4943.5	5883.6	6384.3
65°	109.8	107.7	103.5	82.4	90.8	124.6	342.2	1928.8	3483.7	4451.2	4725.9
67.5°	84.5	88.7	76.0	65.5	76.0	97.2	190.2	864.0	1827.4	2670.3	2892.2
70°	59.1	63.4	61.2	57.0	67.6	80.3	109.8	295.8	756.3	1402.8	1546.4
72.5°	35.9	44.4	46.5	48.6	59.1	69.7	78.1	95.0	200.7	496.4	616.9
75°	21.1	29.6	35.9	42.2	48.6	59.1	65.5	67.6	69.7	92.9	150.0
77.5°	14.8	21.1	31.7	40.1	48.6	59.1	69.7	73.9	69.7	65.5	69.7
80°	12.7	21.1	29.6	38.0	50.7	61.2	69.7	69.7	67.6	59.1	63.4
82.5°	12.7	21.1	31.7	40.1	48.6	59.1	67.6	69.7	63.4	59.1	61.2
85°	14.8	23.2	33.8	42.2	52.8	48.6	44.4	35.9	33.8	27.5	29.6
87.5°	14.8	21.1	21.1	23.2	25.3	25.3	25.3	23.2	19.0	16.9	16.9
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°	5399.8	5399.8	5399.8	5399.8	5399.8	5399.8	5399.8	5399.8	5399.8	5399.8
2.5°	5900.5	6069.5	6063.2	6067.4	6042.1	5870.9	5788.5	5579.4	5638.6	5613.2
5°	6126.6	6293.5	6437.1	6420.2	6225.8	5993.5	5649.1	5323.8	5235.1	5104.0
7.5°	5900.5	6301.9	6435.0	6416.0	6128.7	5830.8	5281.5	4956.2	4801.9	4715.3
10°	5541.3	6006.2	6170.9	6204.7	6010.4	5558.3	5053.4	4531.6	4449.1	4299.2
12.5°	5336.5	5674.5	5775.9	5866.7	5799.1	5461.1	4880.2	4379.4	4265.4	4166.1
15°	5169.5	5370.3	5412.5	5516.0	5556.2	5374.5	4971.0	4544.3	4263.3	4252.7
17.5°	5323.8	5241.4	5087.1	5118.8	5245.6	5376.6	5205.5	4869.6	4597.1	4563.3
20°	5579.4	5216.1	4867.5	4945.6	5051.2	5452.6	5560.4	5323.8	5167.4	5080.8
22.5°	5873.0	5260.4	4797.7	4835.8	5036.5	5623.8	6135.0	6004.1	5712.5	5587.9
25°	6416.0	5382.9	4852.7	4878.1	5152.6	5862.5	6654.7	6751.9	6578.6	6553.3
27.5°	6946.2	5699.8	4973.1	4916.1	5211.8	6094.9	6969.5	7491.3	7187.1	7128.0
30°	7216.7	5957.6	5152.6	5055.5	5456.8	6236.4	7159.6	7973.0	7706.8	7679.3
32.5°	7630.7	6192.0	5292.1	5167.4	5594.2	6411.8	7514.6	8499.1	8241.3	8104.0
35°	7804.0	6447.7	5598.5	5452.6	5987.2	6656.9	7696.2	8968.0	8887.8	8754.6
37.5°	8137.8	6722.3	5959.7	5951.3	6462.5	6975.8	8023.7	9606.1	9591.3	9361.0
40°	8165.3	7022.4	6530.1	6796.3	7197.7	7531.5	8311.0	9783.5	10024.3	9868.0
42.5°	8207.5	7548.3	7516.7	7736.4	8080.7	8008.9	8321.5	9825.7	10193.3	10100.4
45°	8226.5	8074.4	8520.2	8925.8	9069.4	8634.2	8222.3	9745.4	10282.1	10049.7
47.5°	8074.4	8526.5	9331.4	10115.2	10157.4	9018.7	8180.0	9663.1	10334.9	10180.6
50°	8095.6	8809.6	10032.8	10734.2	10579.9	9358.8	8114.6	9612.4	10307.4	10203.9
52°	8044.8	8816.0	10132.0	10721.5	10613.8	9170.9	8002.5	9418.0	10282.1	10356.0
52.5°	8101.9	8777.9	10028.6	10729.9	10590.5	9263.8	7987.7	9525.8	10296.9	10146.8
55°	7905.4	8325.8	9422.2	9720.1	9699.0	8408.1	7533.6	9168.8	9910.3	9912.4
57.5°	7144.9	7216.7	7389.9	7383.6	7286.4	6610.3	6443.5	8431.4	8835.0	8615.2
60°	6295.6	5283.7	4816.7	4626.6	4518.9	4409.0	5699.8	7713.1	7751.2	7658.2
62.5°	5440.0	3663.2	3042.1	2989.3	3014.7	3416.1	5509.6	7428.0	7199.8	6999.1
65°	4390.0	2670.3	2209.8	2140.1	2387.3	2820.3	4459.7	5695.6	5344.9	5178.0
67.5°	2757.0	1947.8	1493.6	1362.7	1660.5	1941.4	2930.2	3578.8	3185.8	2955.5
70°	1635.2	1088.0	676.0	606.3	682.4	1035.2	1641.5	1785.2	1476.7	1358.4
72.5°	644.4	399.3	188.0	160.5	166.9	363.4	604.2	589.5	445.7	397.2
75°	173.2	120.4	65.5	52.8	44.4	67.6	97.2	63.4	23.2	29.6
77.5°	80.3	71.8	57.0	44.4	33.8	25.3	12.7	4.2	4.2	2.1
80°	69.7	61.2	52.8	44.4	33.8	21.1	10.6	2.1	2.1	2.1
82.5°	65.5	57.0	48.6	40.1	31.7	21.1	10.6	2.1	0.0	0.0
85°	27.5	35.9	40.1	38.0	33.8	21.1	10.6	2.1	0.0	0.0
87.5°	14.8	12.7	10.6	8.4	6.3	4.2	4.2	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)