

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: P531331

Luminaire Tested: **GALN-SA6C-760-U-SLR-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P531331
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-SA6C-760-U-SLR-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 5700K, 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: 23048 lumens
Efficiency: N/A
Efficacy: 71.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G2

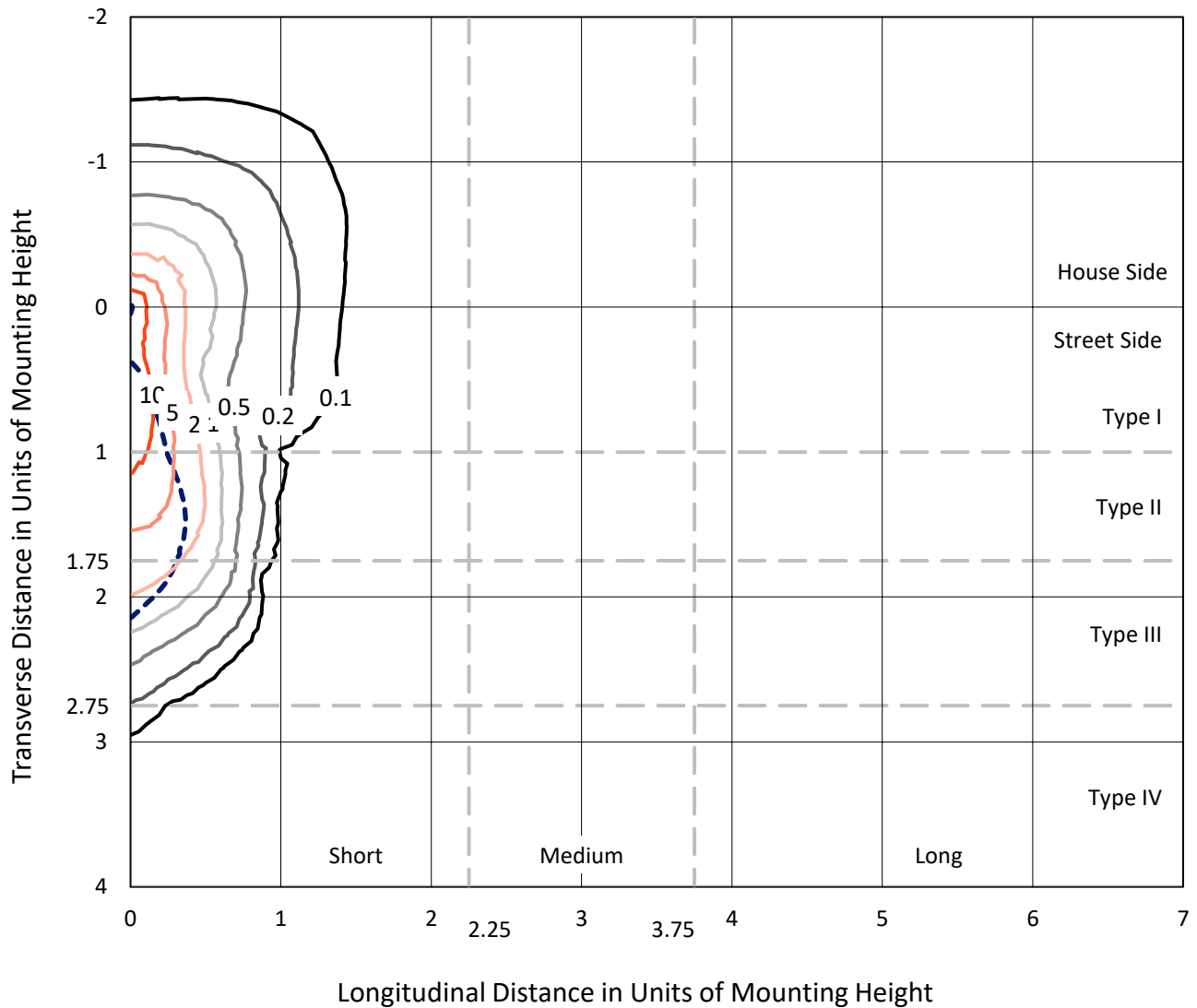
Input Watts (W): 321
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

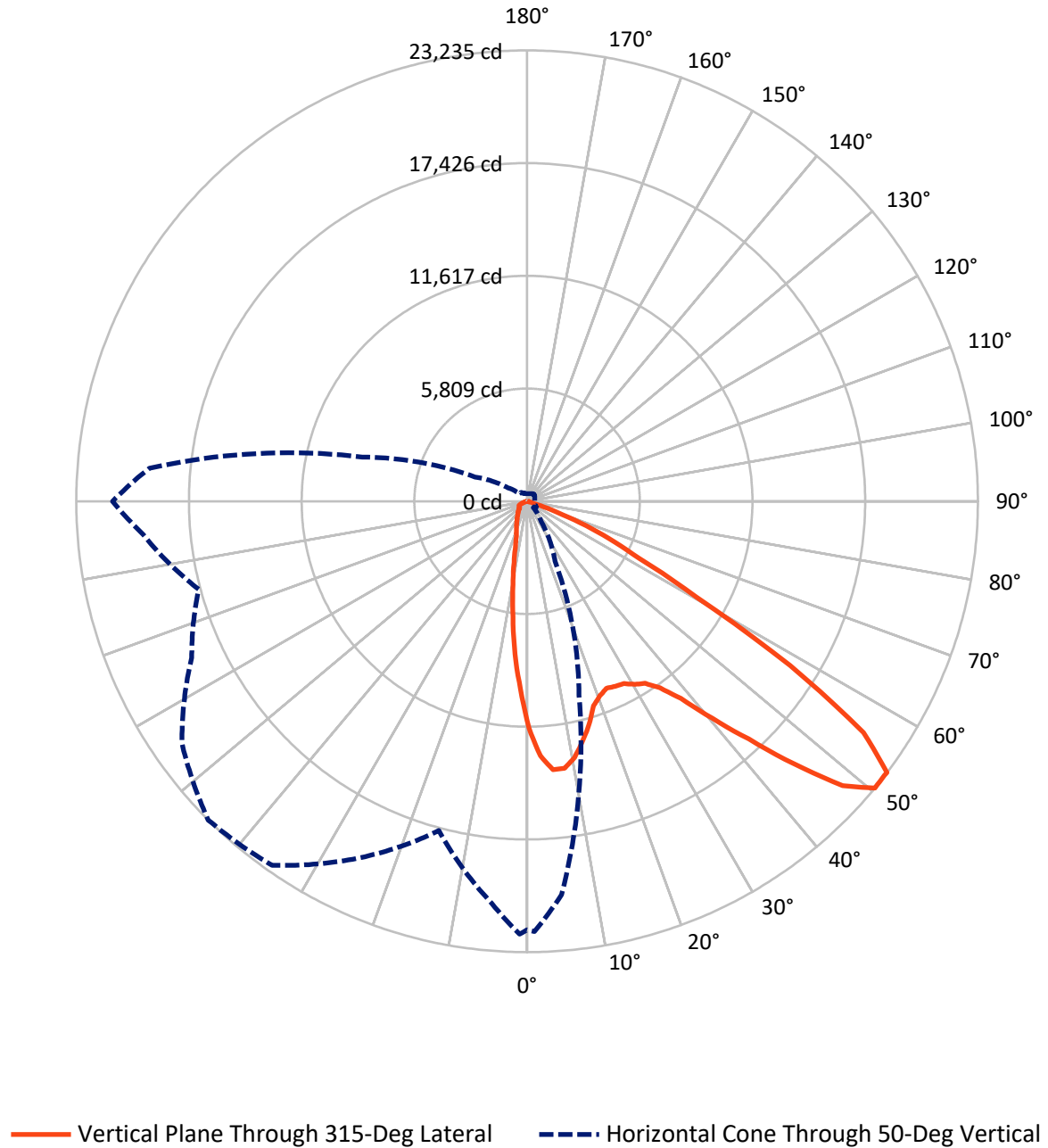
× Max cd
 - - - 1/2 Max cd



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	4616.5	0.0	4616.5
	% Fixture	20.0	0.0	20.0
Street Side	Lumens	18431.5	0.0	18431.5
	% Fixture	80.0	0.0	80.0
Total	Lumens	23048.0	0.0	23048.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	851.9	3.7
10°-20°	1693.2	7.3
20°-30°	2543.7	11.0
30°-40°	3818.0	16.6
40°-50°	5366.0	23.3
50°-60°	5788.2	25.1
60°-70°	2687.4	11.7
70°-80°	252.9	1.1
80°-90°	46.6	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°	23048.0	100.0
0°-180°	23048.0	100.0

Coefficient of Utilization



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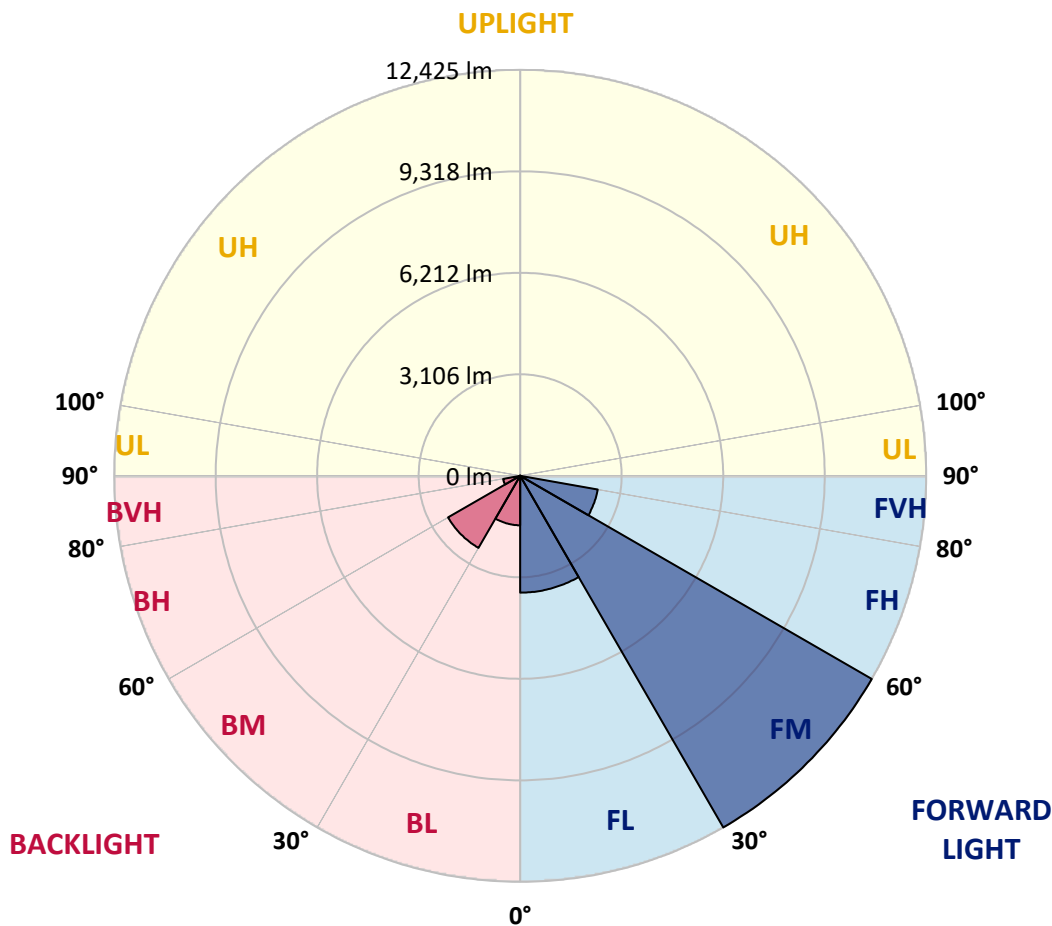
CATALOG NUMBER: GALN-SA6C-760-U-SLR-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3575.7	15.5			
FM (30°-60°)	12424.6	53.9			
FH (60°-80°)	2410.2	10.5			G2/5000
FVH (80°-90°)	21.0	0.1			G1/100
BL (0°-30°)	1513.2	6.6	B3/2500		
BM (30°-60°)	2547.6	11.1	B3/5000		
BH (60°-80°)	530.1	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°	11688.2	11688.2	11688.2	11688.2	11688.2	11688.2	11688.2	11688.2	11688.2	11688.2	11688.2
2.5°	12150.1	11962.6	11724.8	11528.2	11235.5	10645.6	10485.6	10293.5	10133.5	9918.5	9616.7
5°	11048.0	10988.6	10878.8	10138.0	9603.0	8889.6	8304.3	8057.4	7732.7	7467.5	7275.4
7.5°	10206.6	9968.8	9621.3	8875.9	8020.8	7257.1	6607.8	6228.2	5798.4	5652.1	5391.4
10°	9305.8	9360.7	8848.5	7801.3	6767.8	6150.5	5748.1	5382.3	4993.6	4737.5	4367.1
12.5°	9017.7	8839.3	8446.1	7152.0	6269.4	5693.2	5203.9	4751.2	4339.6	3928.1	3571.4
15°	9205.2	8930.8	8382.1	7014.8	5885.3	5167.3	4554.6	3941.8	3562.3	3036.4	2666.0
17.5°	9877.4	9657.9	8921.7	7161.1	5688.6	4664.3	3754.3	3123.3	2542.5	2066.9	1879.4
20°	10997.7	10686.8	9763.1	7348.6	5396.0	4056.1	3045.5	2268.1	1719.4	1518.2	1413.0
22.5°	12095.2	11926.0	10759.9	7709.8	5135.3	3516.5	2286.4	1527.3	1285.0	1248.4	1179.8
25°	14185.0	13677.4	12282.7	8363.8	4934.1	3008.9	1724.0	1230.1	1088.3	1060.9	1070.1
27.5°	15428.8	15003.6	13691.2	8798.2	4710.1	2620.3	1458.7	1129.5	1033.5	974.0	951.2
30°	16622.4	16128.5	14390.8	9054.3	4229.9	2208.7	1294.1	1083.8	1060.9	974.0	946.6
32.5°	17541.5	17056.8	15401.4	9438.4	4033.3	1943.5	1065.5	846.0	786.5	777.4	859.7
35°	18949.9	18433.2	16265.7	9648.7	3882.4	1806.3	923.7	754.5	685.9	658.5	663.1
37.5°	20262.4	19910.3	17065.9	9731.1	3722.3	1765.1	827.7	676.8	617.3	599.0	594.5
40°	21359.8	20573.3	17825.0	9817.9	3653.7	1687.4	768.2	617.3	576.2	548.7	548.7
42.5°	21862.9	21062.6	18675.6	9767.6	3635.4	1563.9	768.2	567.0	535.0	507.6	503.0
45°	21753.1	21428.4	19055.1	9744.8	3635.4	1440.5	699.6	553.3	507.6	471.0	461.9
47.5°	22036.6	21611.4	19530.7	9840.8	3562.3	1353.6	589.9	580.8	480.2	434.4	425.3
50°	22086.9	22169.2	20358.4	10339.2	3402.2	1243.8	461.9	571.6	461.9	393.3	384.1
52°	22416.2	21904.0	20609.9	10604.5	3233.0	1161.5	388.7	489.3	443.6	365.8	356.7
52.5°	21963.5	22297.3	20669.3	10700.5	3251.3	1106.6	375.0	480.2	434.4	365.8	343.0
55°	21455.9	21776.0	20427.0	10906.3	2981.5	868.8	292.7	347.5	393.3	320.1	306.4
57.5°	18648.1	18972.8	17751.9	9987.1	2428.2	612.8	242.4	260.7	347.5	297.2	283.5
60°	16576.6	16343.4	14898.4	8331.8	1724.0	343.0	192.1	201.2	379.5	274.4	269.8
62.5°	15149.9	14651.5	12451.9	6434.0	1051.8	228.6	150.9	155.5	292.7	256.1	256.1
65°	11208.1	10650.2	8272.3	3891.5	516.7	160.1	114.3	123.5	182.9	219.5	219.5
67.5°	6397.4	6182.5	3996.7	1756.0	214.9	100.6	86.9	96.0	141.8	178.3	169.2
70°	2940.4	2638.5	1536.5	370.4	100.6	68.6	68.6	77.7	114.3	132.6	123.5
72.5°	859.7	814.0	375.0	59.4	41.2	41.2	45.7	59.4	86.9	100.6	91.5
75°	64.0	41.2	27.4	18.3	18.3	27.4	36.6	59.4	86.9	96.0	77.7
77.5°	4.6	9.1	4.6	4.6	13.7	27.4	41.2	73.2	114.3	118.9	86.9
80°	4.6	4.6	0.0	4.6	13.7	27.4	45.7	82.3	128.0	137.2	73.2
82.5°	0.0	0.0	0.0	4.6	18.3	36.6	54.9	86.9	118.9	146.3	77.7
85°	0.0	0.0	0.0	4.6	27.4	50.3	64.0	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°	11688.2	11688.2	11688.2	11688.2	11688.2	11688.2	11688.2	11688.2	11688.2	11688.2	11688.2
2.5°	9831.7	9712.8	9667.0	9708.2	9694.5	9680.8	9932.3	9877.4	9868.2	9950.6	9932.3
5°	7380.6	7170.3	7746.4	7513.2	7755.6	7901.9	7929.3	7943.1	8112.3	7933.9	8167.1
7.5°	5258.8	5313.7	5309.1	5464.6	5743.5	5990.5	6136.8	6022.5	6013.3	5990.5	5889.8
10°	4202.5	4106.4	4088.1	4051.6	4138.4	4348.8	4527.1	4385.4	4284.8	4422.0	4380.8
12.5°	3434.2	3301.6	3228.4	3082.1	3086.7	3228.4	3228.4	3228.4	3329.0	3406.8	3466.2
15°	2634.0	2524.2	2524.2	2377.9	2345.9	2350.5	2423.6	2432.8	2592.8	2638.5	2661.4
17.5°	1842.9	1783.4	1852.0	1911.5	1874.9	1884.0	1911.5	1920.6	1943.5	1925.2	1970.9
20°	1417.6	1408.4	1426.7	1531.9	1609.6	1655.4	1623.4	1577.6	1550.2	1486.2	1486.2
22.5°	1202.7	1221.0	1253.0	1339.8	1440.5	1467.9	1431.3	1326.1	1243.8	1234.7	1239.2
25°	1070.1	1088.3	1138.6	1193.5	1248.4	1294.1	1257.5	1179.8	1134.1	1092.9	1092.9
27.5°	987.7	996.9	1024.3	1065.5	1111.2	1147.8	1134.1	1092.9	1042.6	1024.3	983.2
30°	923.7	937.4	969.4	978.6	1019.7	1038.0	1015.2	1006.0	974.0	951.2	937.4
32.5°	891.7	887.1	910.0	919.1	923.7	937.4	910.0	923.7	919.1	882.6	868.8
35°	672.2	708.8	768.2	818.5	832.3	850.6	846.0	827.7	777.4	736.2	685.9
37.5°	603.6	626.5	658.5	699.6	754.5	777.4	768.2	722.5	663.1	635.6	626.5
40°	557.9	571.6	599.0	626.5	681.4	722.5	690.5	649.3	603.6	580.8	567.0
42.5°	516.7	521.3	535.0	562.5	603.6	667.6	612.8	557.9	539.6	525.9	516.7
45°	471.0	471.0	489.3	503.0	548.7	608.2	553.3	503.0	493.9	484.7	480.2
47.5°	434.4	439.0	448.1	466.4	503.0	544.2	507.6	466.4	443.6	439.0	429.8
50°	388.7	393.3	411.6	429.8	475.6	498.4	475.6	429.8	407.0	393.3	393.3
52°	352.1	365.8	384.1	420.7	452.7	489.3	461.9	411.6	384.1	370.4	361.3
52.5°	347.5	356.7	375.0	416.1	452.7	484.7	457.3	407.0	375.0	365.8	356.7
55°	311.0	324.7	356.7	407.0	448.1	484.7	448.1	402.4	356.7	333.8	324.7
57.5°	297.2	306.4	347.5	411.6	443.6	484.7	448.1	402.4	356.7	315.5	306.4
60°	283.5	301.8	347.5	397.8	439.0	489.3	452.7	397.8	347.5	297.2	297.2
62.5°	269.8	283.5	343.0	388.7	420.7	471.0	434.4	388.7	333.8	283.5	278.9
65°	233.2	256.1	301.8	324.7	361.3	407.0	370.4	338.4	292.7	251.5	246.9
67.5°	178.3	187.5	224.1	251.5	274.4	315.5	297.2	256.1	224.1	192.1	192.1
70°	123.5	132.6	160.1	173.8	196.6	219.5	205.8	173.8	150.9	132.6	128.0
72.5°	86.9	91.5	100.6	109.7	118.9	128.0	123.5	100.6	86.9	82.3	77.7
75°	68.6	77.7	82.3	77.7	73.2	68.6	68.6	59.4	50.3	45.7	45.7
77.5°	68.6	73.2	68.6	59.4	50.3	45.7	41.2	36.6	27.4	22.9	27.4
80°	59.4	59.4	59.4	50.3	45.7	41.2	36.6	32.0	27.4	22.9	22.9
82.5°	64.0	64.0	59.4	50.3	50.3	41.2	41.2	36.6	32.0	22.9	22.9
85°	0.0	0.0	0.0	9.1	22.9	41.2	41.2	36.6	32.0	27.4	27.4
87.5°	0.0	0.0	0.0	0.0	4.6	9.1	18.3	22.9	27.4	27.4	27.4
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°	11688.2	11688.2	11688.2	11688.2	11688.2	11688.2	11688.2	11688.2	11688.2	11688.2	11688.2
2.5°	10096.9	10270.7	10599.9	10929.1	11130.4	11368.1	11798.0	12026.6	12323.9	12470.2	12758.3
5°	8135.1	8546.7	8693.0	9068.0	9470.4	9872.8	10513.0	11217.2	11802.6	12205.0	12726.3
7.5°	5935.6	6031.6	6598.6	6850.2	7508.6	8240.3	9113.7	10000.9	10741.7	11400.2	11798.0
10°	4449.4	4801.5	5158.2	5638.3	6168.8	6923.3	7760.2	8738.7	9699.0	10357.5	10860.6
12.5°	3576.0	3854.9	4330.5	4847.2	5501.2	5999.6	6841.0	7810.5	9054.3	9699.0	10362.1
15°	2707.1	3063.8	3603.4	4138.4	4828.9	5354.8	6205.4	7426.3	9026.8	9914.0	10485.6
17.5°	2007.5	2249.8	2734.6	3333.6	4037.8	4778.6	5926.4	7385.2	9333.2	10389.5	10979.4
20°	1536.5	1618.8	1925.2	2460.2	3223.9	4193.3	5473.7	7563.5	10238.6	11546.5	12145.5
22.5°	1243.8	1280.4	1399.3	1769.7	2510.5	3681.2	5258.8	7687.0	11258.4	12932.1	13732.3
25°	1083.8	1074.6	1152.4	1312.4	1961.8	3201.0	4984.4	8153.4	12506.8	14560.0	15277.9
27.5°	987.7	987.7	1024.3	1138.6	1627.9	2890.1	4810.7	8487.2	13764.3	15991.3	16380.0
30°	937.4	946.6	1051.8	1088.3	1353.6	2519.6	4522.6	8825.6	14967.0	16905.9	17440.9
32.5°	868.8	832.3	809.4	900.9	1138.6	2185.8	4234.5	8967.4	15941.0	18026.2	18483.5
35°	667.6	649.3	676.8	745.4	978.6	1902.3	3914.4	9127.4	17061.4	19324.9	19416.4
37.5°	603.6	599.0	617.3	676.8	823.1	1655.4	3685.7	9086.3	17916.5	20399.5	20152.6
40°	557.9	557.9	571.6	621.9	736.2	1481.6	3447.9	9049.7	18744.2	21606.8	20884.3
42.5°	521.3	521.3	544.2	576.2	699.6	1367.3	3269.6	8999.4	19439.2	22347.6	21314.1
45°	471.0	484.7	521.3	553.3	708.8	1289.5	3137.0	8807.3	19677.0	22338.4	21108.3
47.5°	434.4	452.7	489.3	535.0	640.2	1266.7	3045.5	8638.1	19594.7	21789.7	20463.6
50°	393.3	416.1	466.4	544.2	544.2	1221.0	2949.5	8789.0	19535.3	21364.4	19846.2
52°	365.8	384.1	448.1	530.5	475.6	1124.9	2890.1	9081.7	19777.6	21309.5	19571.9
52.5°	361.3	375.0	434.4	521.3	452.7	1106.6	2848.9	9150.3	19855.4	21172.4	19759.3
55°	320.1	338.4	397.8	407.0	370.4	910.0	2716.3	9305.8	19471.3	20902.6	19581.0
57.5°	301.8	311.0	352.1	333.8	320.1	685.9	2336.7	9063.4	17294.6	18565.8	18218.3
60°	278.9	288.1	329.2	260.7	269.8	480.2	1756.0	7869.9	13887.8	15470.0	16096.5
62.5°	269.8	265.2	311.0	210.4	228.6	347.5	1239.2	6397.4	10700.5	12735.4	13819.2
65°	237.8	233.2	224.1	178.3	196.6	269.8	740.8	4175.0	7540.7	9635.0	10229.5
67.5°	182.9	192.1	164.6	141.8	164.6	210.4	411.6	1870.3	3955.5	5780.1	6260.3
70°	128.0	137.2	132.6	123.5	146.3	173.8	237.8	640.2	1637.1	3036.4	3347.3
72.5°	77.7	96.0	100.6	105.2	128.0	150.9	169.2	205.8	434.4	1074.6	1335.3
75°	45.7	64.0	77.7	91.5	105.2	128.0	141.8	146.3	150.9	201.2	324.7
77.5°	32.0	45.7	68.6	86.9	105.2	128.0	150.9	160.1	150.9	141.8	150.9
80°	27.4	45.7	64.0	82.3	109.7	132.6	150.9	150.9	146.3	128.0	137.2
82.5°	27.4	45.7	68.6	86.9	105.2	128.0	146.3	150.9	137.2	128.0	132.6
85°	32.0	50.3	73.2	91.5	114.3	105.2	96.0	77.7	73.2	59.4	64.0
87.5°	32.0	45.7	45.7	50.3	54.9	54.9	54.9	50.3	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°	11688.2	11688.2	11688.2	11688.2	11688.2	11688.2	11688.2	11688.2	11688.2	11688.2
2.5°	12772.0	13137.8	13124.1	13133.3	13078.4	12708.0	12529.6	12076.9	12205.0	12150.1
5°	13261.3	13622.6	13933.5	13896.9	13476.2	12973.2	12227.8	11523.6	11331.6	11048.0
7.5°	12772.0	13640.9	13928.9	13887.8	13265.9	12621.1	11432.2	10727.9	10394.1	10206.6
10°	11994.6	13000.7	13357.3	13430.5	13009.8	12031.2	10938.3	9808.8	9630.5	9305.8
12.5°	11551.1	12282.7	12502.2	12698.8	12552.5	11820.9	10563.3	9479.5	9232.6	9017.7
15°	11189.8	11624.2	11715.7	11939.7	12026.6	11633.4	10759.9	9836.2	9228.0	9205.2
17.5°	11523.6	11345.3	11011.5	11080.1	11354.4	11637.9	11267.5	10540.5	9950.6	9877.4
20°	12076.9	11290.4	10535.9	10705.1	10933.7	11802.6	12035.8	11523.6	11185.2	10997.7
22.5°	12712.6	11386.4	10385.0	10467.3	10901.7	12173.0	13279.6	12996.1	12365.0	12095.2
25°	13887.8	11651.7	10503.9	10558.7	11153.2	12689.7	14404.5	14614.9	14239.9	14185.0
27.5°	15035.6	12337.6	10764.5	10641.1	11281.3	13192.7	15085.9	16215.4	15556.9	15428.8
30°	15620.9	12895.5	11153.2	10942.9	11811.7	13499.1	15497.4	17258.0	16681.8	16622.4
32.5°	16517.2	13403.1	11455.0	11185.2	12108.9	13878.6	16265.7	18396.6	17838.7	17541.5
35°	16892.2	13956.4	12118.1	11802.6	12959.5	14409.1	16658.9	19411.8	19238.0	18949.9
37.5°	17614.7	14550.9	12900.1	12881.8	13988.4	15099.6	17367.7	20792.8	20760.8	20262.4
40°	17674.1	15200.2	14134.7	14710.9	15579.7	16302.3	17989.6	21176.9	21698.2	21359.8
42.5°	17765.6	16338.8	16270.3	16745.8	17491.2	17335.7	18012.5	21268.4	22064.1	21862.9
45°	17806.7	17477.5	18442.4	19320.4	19631.3	18689.3	17797.6	21094.6	22256.1	21753.1
47.5°	17477.5	18456.1	20198.3	21894.9	21986.3	19521.6	17706.1	20916.3	22370.5	22036.6
50°	17523.2	19068.8	21716.5	23234.7	22900.9	20257.8	17564.4	20806.5	22311.0	22086.9
52°	17413.5	19082.6	21931.5	23207.3	22974.1	19850.8	17322.0	20385.8	22256.1	22416.2
52.5°	17536.9	19000.3	21707.4	23225.6	22923.8	20052.0	17290.0	20619.0	22288.1	21963.5
55°	17111.7	18021.7	20395.0	21039.7	20994.0	18200.0	16306.8	19846.2	21451.3	21455.9
57.5°	15465.4	15620.9	15995.9	15982.2	15771.8	14308.5	13947.2	18250.3	19123.7	18648.1
60°	13627.1	11436.7	10426.1	10014.6	9781.4	9543.6	12337.6	16695.5	16777.8	16576.6
62.5°	11775.1	7929.3	6584.9	6470.6	6525.5	7394.3	11926.0	16078.2	15584.3	15149.9
65°	9502.4	5780.1	4783.2	4632.3	5167.3	6104.8	9653.3	12328.4	11569.3	11208.1
67.5°	5967.6	4216.2	3233.0	2949.5	3594.3	4202.5	6342.6	7746.4	6895.9	6397.4
70°	3539.4	2355.0	1463.3	1312.4	1477.0	2240.7	3553.1	3864.1	3196.4	2940.4
72.5°	1394.7	864.3	407.0	347.5	361.3	786.5	1307.8	1275.8	964.9	859.7
75°	375.0	260.7	141.8	114.3	96.0	146.3	210.4	137.2	50.3	64.0
77.5°	173.8	155.5	123.5	96.0	73.2	54.9	27.4	9.1	9.1	4.6
80°	150.9	132.6	114.3	96.0	73.2	45.7	22.9	4.6	4.6	4.6
82.5°	141.8	123.5	105.2	86.9	68.6	45.7	22.9	4.6	0.0	0.0
85°	59.4	77.7	86.9	82.3	73.2	45.7	22.9	4.6	0.0	0.0
87.5°	32.0	27.4	22.9	18.3	13.7	9.1	9.1	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)