

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: P456757

Luminaire Tested: **GALN-SA8A-740-U-SLL**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456757
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-20)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA8A-740-U-SLL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR LEFT OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31831 lumens
Efficiency: N/A
Efficacy: 130.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

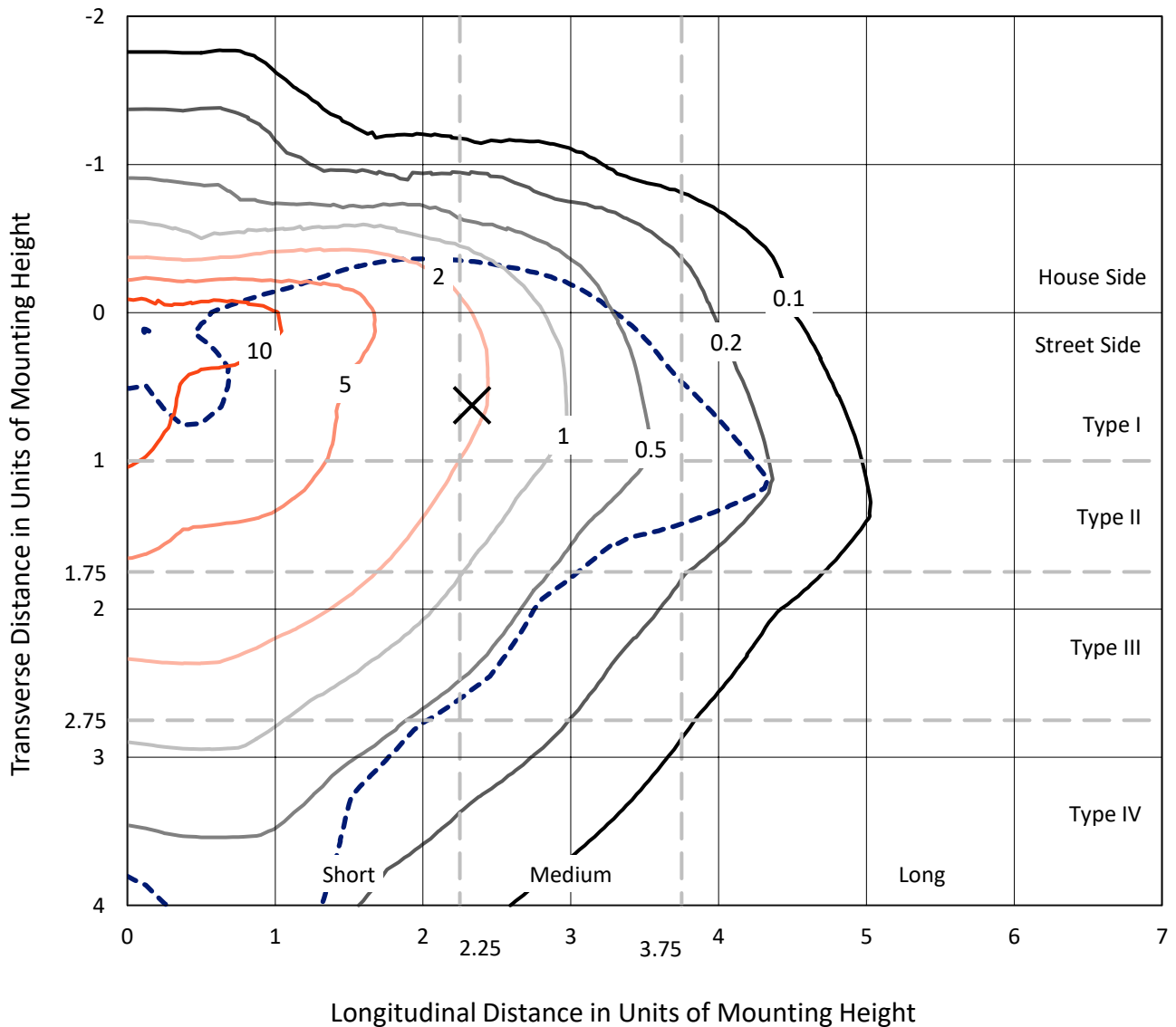
Input Watts (W): 244
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

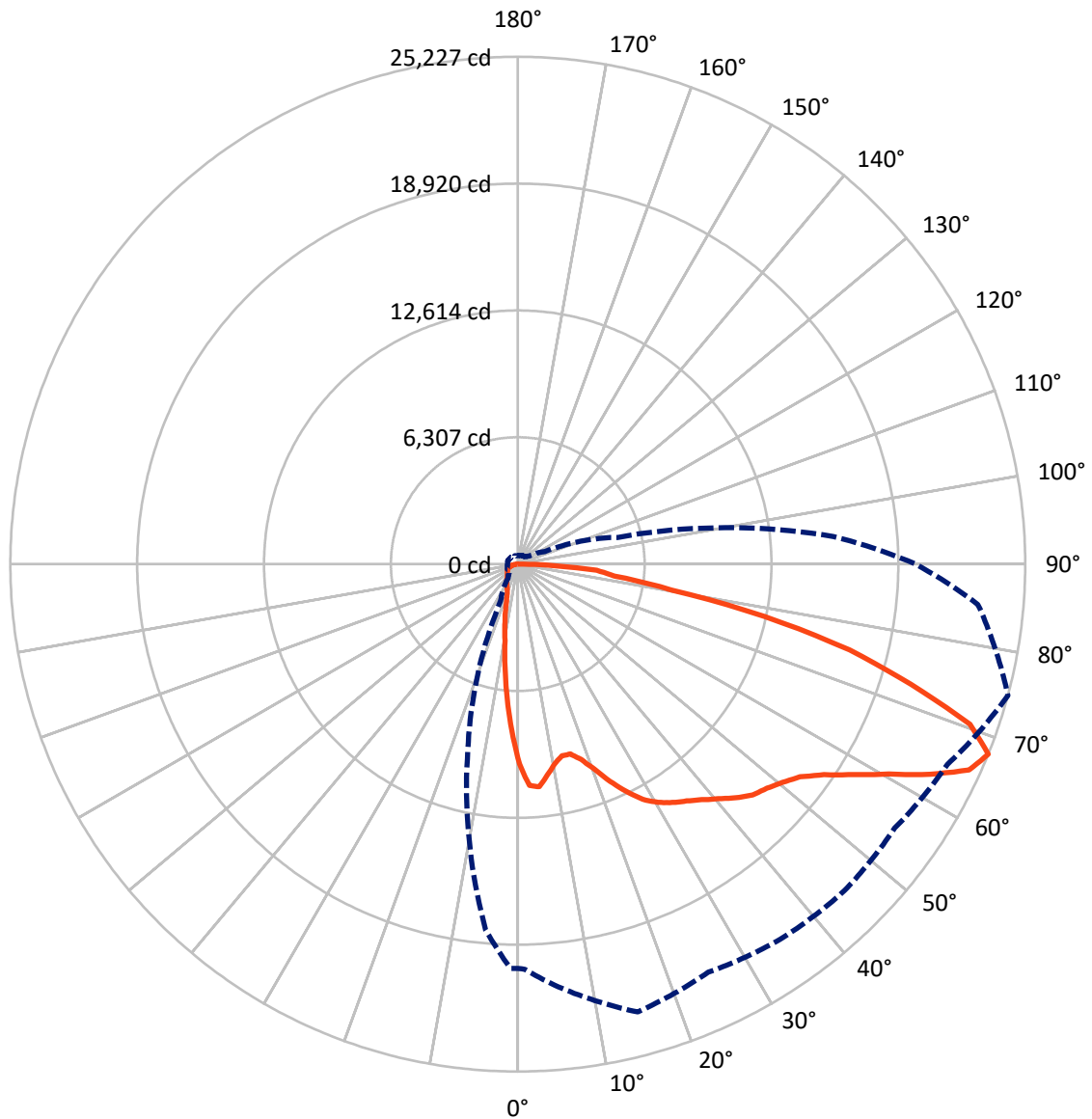
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 19.6 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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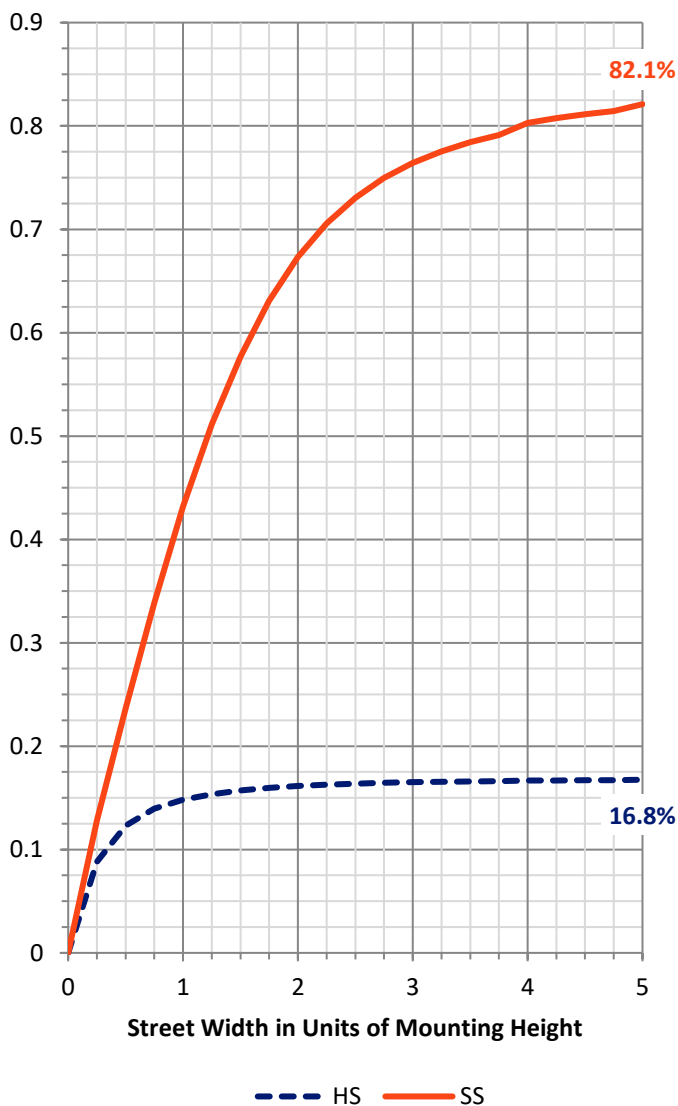
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5380.1	0.0	5380.1
	% Fixture	16.9	0.0	16.9
Street Side	Lumens	26450.9	0.0	26450.9
	% Fixture	83.1	0.0	83.1
Total	Lumens	31831.0	0.0	31831.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	754.3	2.4
10°-20°	1573.1	4.9
20°-30°	2263.7	7.1
30°-40°	3260.3	10.2
40°-50°	4579.9	14.4
50°-60°	6387.3	20.1
60°-70°	7594.1	23.9
70°-80°	4472.5	14.1
80°-90°	945.8	3.0
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°	31831.0	100.0
0°-180°	31831.0	100.0

Coefficient of Utilization



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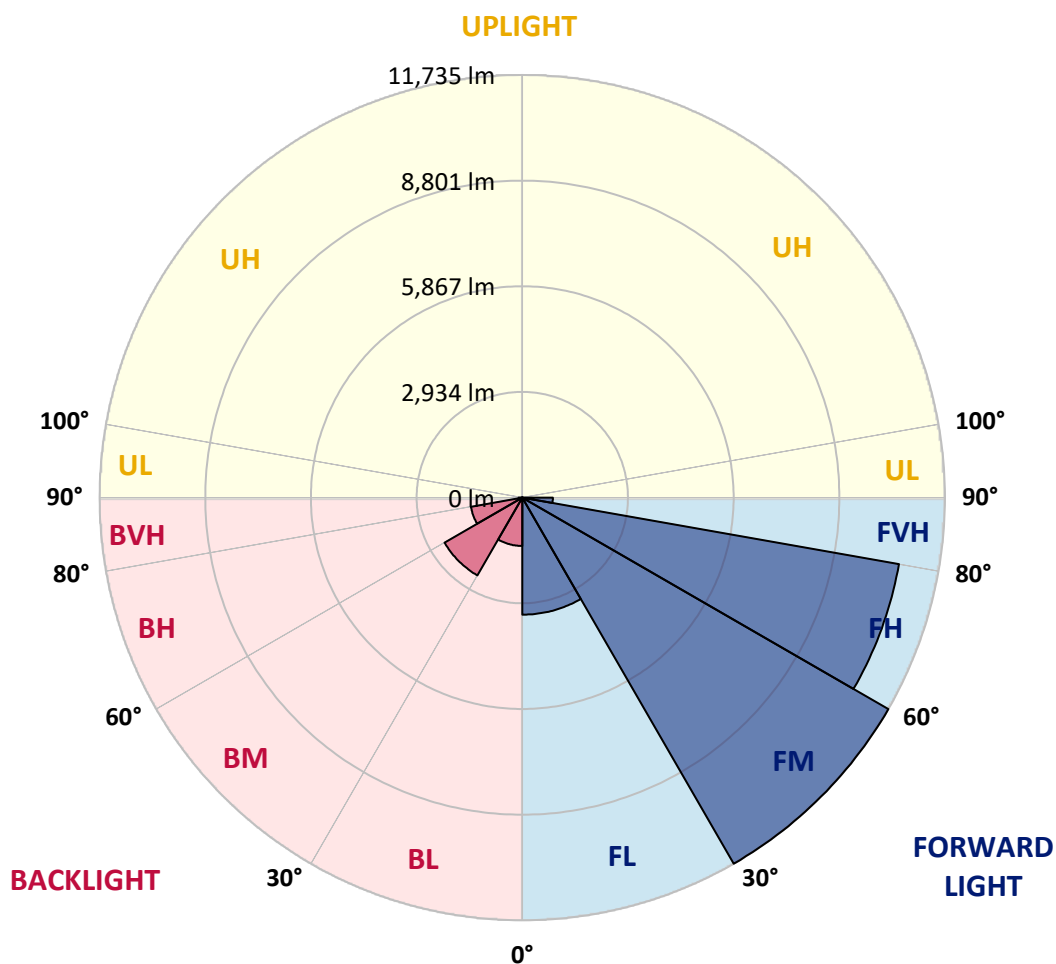
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3249.1	10.2			
FM	(30°-60°)	11734.9	36.9			
FH	(60°-80°)	10618.9	33.4			G4/12000
FVH	(80°-90°)	847.9	2.7			G5
BL	(0°-30°)	1342.0	4.2	B3/2500		
BM	(30°-60°)	2492.6	7.8	B2/2500		
BH	(60°-80°)	1447.7	4.5	B3/2500		G3/2500
BVH	(80°-90°)	97.8	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	9944.8	9944.8	9944.8	9944.8	9944.8	9944.8	9944.8	9944.8	9944.8	9944.8	9944.8
2.5°	10722.5	10736.7	10828.6	11096.0	11279.7	11347.1	11394.0	11306.2	11220.5	11012.3	10698.0
5°	10689.8	10773.5	11012.3	11612.4	12086.0	12290.1	12351.3	12088.0	11653.2	11118.5	10475.5
7.5°	10065.2	10177.5	10544.9	11551.2	12386.0	12863.7	12800.4	12324.8	11541.0	10587.7	9689.6
10°	9324.2	9448.7	9891.7	11108.2	12184.0	12841.2	12841.2	12261.5	11220.5	10087.6	9052.8
12.5°	8736.4	8867.0	9373.2	10653.1	11763.5	12386.0	12490.1	11992.1	10989.9	9771.3	8634.3
15°	8542.4	8669.0	9214.0	10377.5	11318.5	11698.2	11732.9	11569.6	10877.6	9793.7	8615.9
17.5°	8783.3	8946.6	9497.7	10459.1	10910.2	10932.7	10959.2	11087.8	10889.8	10204.0	8987.4
20°	9479.4	9654.9	10230.5	10722.5	10553.0	10320.3	10334.6	10665.3	11034.8	10881.7	9875.4
22.5°	10483.6	10636.7	11226.6	11185.8	10402.0	9922.3	9822.3	10283.6	11249.1	11726.7	10820.4
25°	11567.5	11747.1	12424.8	11873.7	10444.9	9685.5	9622.2	10059.1	11471.6	12516.7	11912.5
27.5°	12808.6	12984.1	13518.9	12567.7	10669.4	9667.2	9591.6	10038.7	11671.6	13247.4	12955.5
30°	13731.2	13892.5	14255.8	13151.5	10944.9	9789.6	9695.7	10199.9	11843.1	13747.5	13972.1
32.5°	14455.8	14623.2	14821.2	13514.8	11308.3	10012.1	9838.6	10493.8	12067.6	14129.2	14725.3
35°	15211.1	15409.1	15394.8	13837.3	11647.1	10269.3	10099.9	10918.4	12420.7	14461.9	15680.5
37.5°	16168.4	16248.0	16145.9	14127.2	12053.3	10732.7	10638.8	11549.1	12922.9	14864.1	16797.1
40°	17140.0	17299.2	16774.6	14478.3	12547.3	11604.3	11594.1	12482.0	13518.9	15335.6	17878.9
42.5°	17972.8	18107.5	17362.5	14784.5	13145.4	12667.7	12745.3	13733.2	14300.7	15882.6	18748.5
45°	18599.5	18719.9	17905.5	15080.4	13933.3	13896.5	14353.8	15074.3	15286.6	16374.6	19258.8
47.5°	19132.2	19248.6	18283.1	15529.5	14906.9	15364.2	16160.2	16472.5	16129.6	16656.2	19830.3
50°	19581.3	19616.0	18542.3	16064.3	16115.3	17162.5	17934.0	18136.1	16962.4	17060.4	20326.3
52.5°	20048.7	20003.8	18989.3	16737.9	17421.7	18868.9	19430.2	19640.5	17760.5	17558.5	21048.9
55°	21095.9	21138.7	19991.6	17587.0	18742.4	20544.7	21283.7	21081.6	18644.4	18475.0	21967.5
57.5°	22361.4	22324.7	21402.0	18915.9	20087.5	22104.2	22655.4	22330.8	19824.2	19734.4	22898.3
60°	22853.3	22902.3	22581.9	20344.7	21414.3	23469.8	24033.2	23529.0	21238.8	21197.9	23600.4
62.5°	22359.4	22634.9	22851.3	21616.4	22545.1	24474.1	25033.4	24457.7	22714.5	23010.5	24092.4
65°	21375.5	21434.7	22171.6	22694.1	23090.1	24639.4	24931.3	24625.1	23947.4	24661.9	24069.9
67.5°	20097.7	20148.7	21012.2	23047.3	22388.0	22761.5	22965.6	22875.8	23565.7	25227.3	22961.5
70°	18881.2	18840.3	19752.8	22147.1	19489.4	18922.0	19091.4	18809.7	20334.5	23845.4	20787.6
72.5°	16513.4	16660.3	17640.1	19644.6	15431.5	14508.9	14878.4	14149.6	15639.7	20422.3	16872.6
75°	12935.1	12969.8	14604.8	16486.8	11641.0	10185.6	10685.7	10381.6	11979.8	17035.9	11651.2
77.5°	8956.8	8879.2	10636.7	12592.2	8301.6	7456.5	7464.7	7319.8	8364.9	12543.2	7915.8
80°	5688.8	5570.5	6658.4	7779.0	5705.2	6103.2	5903.2	5897.0	5445.9	7738.2	4786.6
82.5°	3074.1	3204.7	4206.9	4876.4	4092.6	4717.2	4323.3	4196.7	3737.4	4843.8	3061.8
85°	1400.3	1522.7	2243.3	3317.0	3108.8	3143.5	2100.4	2478.0	3092.4	3933.4	1635.0
87.5°	136.8	175.5	463.4	1565.6	1061.4	836.9	312.3	602.2	777.7	1398.2	130.6
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	9944.8	9944.8	9944.8	9944.8	9944.8	9944.8	9944.8	9944.8	9944.8	9944.8	9944.8
2.5°	10569.4	10463.2	10101.9	9803.9	9487.5	9246.7	8932.3	8722.1	8577.1	8358.7	8332.2
5°	10083.6	9824.3	9195.6	8554.7	8001.5	7585.1	7162.6	6774.8	6546.1	6474.7	6382.9
7.5°	9265.0	8828.2	8019.9	7285.1	6650.3	6029.7	5552.1	5213.2	4986.7	4854.0	4694.8
10°	8591.4	8085.2	7101.4	6201.2	5678.6	5292.8	4872.4	4509.0	4229.4	3990.6	3859.9
12.5°	8138.3	7566.8	6460.4	5729.7	5325.5	4915.2	4423.3	4015.1	3602.7	3331.2	3214.9
15°	8001.5	7397.3	6262.4	5494.9	4915.2	4378.4	3827.3	3294.5	2886.3	2629.1	2543.3
17.5°	8336.3	7605.5	6260.4	5182.6	4433.5	3792.6	3086.3	2586.2	2167.8	1975.9	1914.7
20°	8960.9	8005.6	6278.8	4874.4	3911.0	3008.7	2245.3	1835.0	1635.0	1553.4	1522.7
22.5°	9832.5	8615.9	6333.9	4570.3	3339.4	2310.6	1682.0	1473.8	1402.3	1388.0	1381.9
25°	10906.2	9371.2	6519.6	4296.7	2857.7	1763.6	1406.4	1312.5	1271.7	1257.4	1255.3
27.5°	11894.1	10346.9	6744.1	4062.0	2392.3	1520.7	1271.7	1192.1	1151.2	1149.2	1153.3
30°	12786.1	11163.4	6931.9	3798.7	2039.2	1351.3	1183.9	1104.3	1065.5	1063.5	1075.7
32.5°	13557.7	11834.9	7070.7	3539.5	1843.2	1247.2	1104.3	1018.6	985.9	979.8	985.9
35°	14382.3	12504.4	7007.5	3337.4	1730.9	1161.4	1045.1	961.4	922.6	904.3	904.3
37.5°	15323.3	13194.4	6899.3	3170.0	1679.9	1090.0	994.1	912.4	873.6	855.3	853.2
40°	16350.1	13884.3	6750.3	3021.0	1628.9	1047.1	959.4	873.6	826.7	808.3	804.2
42.5°	17256.4	14474.2	6627.8	2923.0	1545.2	1055.3	928.7	845.1	785.9	761.4	759.3
45°	18044.3	15068.2	6605.3	2865.9	1475.8	1043.1	920.6	822.6	753.2	726.7	722.6
47.5°	18660.7	15686.7	6733.9	2833.2	1400.3	977.7	973.7	808.3	724.6	696.1	692.0
50°	19411.9	16564.4	7027.9	2765.8	1330.9	916.5	1028.8	806.3	702.2	665.4	655.2
52.5°	20412.1	17707.5	7425.9	2645.4	1230.8	859.3	981.8	806.3	675.6	638.9	626.7
55°	21924.6	19164.9	7815.8	2476.0	1090.0	783.8	885.9	781.8	636.9	604.2	596.0
57.5°	22926.8	20230.4	8064.8	2241.2	914.5	728.7	763.4	743.0	598.1	563.4	563.4
60°	22977.9	20516.2	7946.4	1945.3	804.2	677.7	663.4	749.1	563.4	526.6	522.5
62.5°	22390.0	19816.0	7330.0	1679.9	745.0	622.6	600.1	657.3	528.7	491.9	485.8
65°	21471.5	18030.0	6260.4	1553.4	712.4	573.6	540.9	538.9	491.9	457.2	449.1
67.5°	19783.4	15756.1	5143.8	1479.9	696.1	518.5	487.8	477.6	449.1	420.5	416.4
70°	17295.1	13196.4	4125.3	1449.3	687.9	461.3	436.8	424.6	400.1	377.6	375.6
72.5°	13455.6	10704.1	3404.7	1428.8	683.8	408.2	381.7	365.4	351.1	330.7	330.7
75°	9665.1	7875.0	2598.5	1288.0	632.8	351.1	322.5	312.3	291.9	275.6	279.6
77.5°	6093.0	5303.1	1710.5	947.1	489.9	281.7	257.2	251.1	234.7	212.3	226.6
80°	4115.1	3729.3	998.1	596.0	308.2	206.2	198.0	196.0	177.6	153.1	155.1
82.5°	2800.5	2747.5	518.5	338.8	177.6	120.4	116.3	120.4	100.0	81.6	81.6
85°	1094.1	1494.2	244.9	132.7	57.2	18.4	26.5	28.6	16.3	8.2	10.2
87.5°	20.4	153.1	6.1	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):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	9944.8	9944.8	9944.8	9944.8	9944.8	9944.8	9944.8	9944.8	9944.8	9944.8	9944.8
2.5°	8291.4	8273.0	8303.6	8173.0	8199.5	8248.5	8273.0	8287.3	8489.4	8442.4	8571.0
5°	6468.6	6450.2	6568.6	6584.9	6646.2	6633.9	6693.1	6707.4	6780.9	6807.4	6987.0
7.5°	4705.0	4784.6	4919.3	4988.7	5092.8	5125.5	5094.9	5170.4	5017.3	5127.5	5160.2
10°	3780.3	3684.4	3627.2	3786.4	3806.8	3957.9	3896.7	3847.7	3937.5	3941.6	4027.3
12.5°	3147.5	2941.4	2804.6	2849.5	2898.5	2963.8	2974.0	3072.0	3137.3	3198.6	3249.6
15°	2467.8	2396.4	2271.9	2210.6	2280.0	2306.6	2369.8	2451.5	2520.9	2539.3	2608.7
17.5°	1894.2	1906.5	1886.1	1849.3	1892.2	1912.6	1916.7	1918.7	1937.1	1924.9	2026.9
20°	1524.8	1567.6	1618.7	1626.8	1641.1	1651.3	1633.0	1563.6	1565.6	1608.5	1641.1
22.5°	1379.9	1388.0	1445.2	1463.5	1508.5	1490.1	1437.0	1404.4	1400.3	1410.5	1426.8
25°	1265.5	1277.8	1318.6	1347.2	1381.9	1349.2	1310.5	1279.8	1275.8	1286.0	1302.3
27.5°	1163.5	1181.9	1218.6	1247.2	1279.8	1249.2	1212.5	1185.9	1183.9	1181.9	1192.1
30°	1081.8	1102.3	1128.8	1161.4	1183.9	1157.4	1122.7	1108.4	1106.3	1102.3	1106.3
32.5°	1000.2	1032.9	1059.4	1075.7	1098.2	1077.8	1051.2	1043.1	1028.8	1016.5	1010.4
35°	908.3	943.0	983.9	1004.3	1026.7	1006.3	987.9	953.2	928.7	926.7	930.8
37.5°	855.3	869.6	902.2	936.9	959.4	949.2	914.5	879.8	873.6	873.6	877.7
40°	808.3	814.4	828.7	873.6	914.5	883.8	841.0	830.8	830.8	828.7	830.8
42.5°	761.4	767.5	767.5	802.2	867.5	818.5	785.9	785.9	785.9	787.9	794.0
45°	718.5	720.5	718.5	743.0	804.2	763.4	741.0	747.1	751.2	755.2	759.3
47.5°	681.8	683.8	681.8	702.2	732.8	716.5	704.2	712.4	720.5	726.7	730.8
50°	649.1	647.1	651.1	663.4	677.7	681.8	673.6	685.8	689.9	698.1	708.3
52.5°	620.5	618.5	622.6	628.7	649.1	649.1	649.1	659.3	667.5	675.6	689.9
55°	587.9	589.9	596.0	604.2	630.7	626.7	628.7	636.9	645.0	657.3	665.4
57.5°	557.2	561.3	569.5	581.7	608.3	606.2	608.3	612.4	622.6	628.7	636.9
60°	522.5	530.7	540.9	549.1	575.6	573.6	583.8	591.9	598.1	598.1	602.2
62.5°	487.8	500.1	510.3	516.4	545.0	547.0	561.3	567.5	571.5	567.5	573.6
65°	453.1	471.5	475.6	483.8	512.3	514.4	530.7	545.0	540.9	536.8	547.0
67.5°	418.4	440.9	438.9	449.1	477.6	481.7	496.0	520.5	512.3	508.3	516.4
70°	379.7	396.0	398.0	404.2	442.9	436.8	459.3	481.7	475.6	477.6	477.6
72.5°	336.8	351.1	351.1	363.3	404.2	394.0	412.3	436.8	436.8	434.8	434.8
75°	285.8	293.9	302.1	320.5	363.3	351.1	363.3	385.8	389.9	385.8	385.8
77.5°	230.7	242.9	247.0	271.5	302.1	300.1	312.3	322.5	330.7	326.6	326.6
80°	163.3	175.5	191.9	218.4	236.8	242.9	249.0	257.2	261.3	261.3	265.4
82.5°	91.9	110.2	124.5	151.0	159.2	189.8	187.8	193.9	187.8	165.3	183.7
85°	20.4	38.8	55.1	69.4	79.6	110.2	116.3	130.6	108.2	100.0	100.0
87.5°	0.0	0.0	0.0	0.0	0.0	16.3	32.7	44.9	38.8	32.7	32.7
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):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	9944.8	9944.8	9944.8	9944.8	9944.8	9944.8	9944.8	9944.8	9944.8	9944.8
2.5°	8679.2	8856.8	9071.1	9440.6	9699.8	9979.5	10261.1	10561.2	10640.8	10722.5
5°	7036.0	7385.1	7574.9	8070.9	8591.4	9252.8	9793.7	10385.7	10632.6	10689.8
7.5°	5329.6	5566.4	6064.4	6566.6	7211.6	7905.6	8734.3	9656.9	9944.8	10065.2
10°	4225.3	4547.8	4984.6	5523.5	6088.9	6836.0	7770.9	8848.6	9256.9	9324.2
12.5°	3596.6	3955.9	4431.5	5001.0	5535.8	6099.1	7042.2	8154.6	8591.4	8736.4
15°	2876.1	3310.8	3859.9	4460.0	5041.8	5658.2	6613.5	7868.9	8373.0	8542.4
17.5°	2259.6	2610.7	3204.7	3855.8	4545.8	5325.5	6523.7	8005.6	8626.1	8783.3
20°	1728.9	1980.0	2480.1	3168.0	3976.3	4996.9	6546.1	8522.0	9265.0	9479.4
22.5°	1494.2	1622.8	1926.9	2582.1	3486.4	4711.1	6638.0	9230.3	10126.4	10483.6
25°	1353.3	1420.7	1592.1	2020.8	3018.9	4433.5	6848.2	10183.6	11330.7	11567.5
27.5°	1232.9	1281.9	1388.0	1696.2	2594.4	4176.3	7093.2	11240.9	12455.4	12808.6
30°	1118.6	1183.9	1283.9	1506.4	2322.9	3941.6	7401.4	12098.2	13402.6	13731.2
32.5°	1030.8	1096.1	1188.0	1373.7	2092.2	3694.6	7585.1	12851.4	14176.2	14455.8
35°	959.4	1014.5	1110.4	1267.6	1916.7	3506.8	7548.4	13449.5	14925.3	15211.1
37.5°	908.3	955.3	1051.2	1167.6	1784.0	3310.8	7530.0	14239.5	15837.7	16168.4
40°	861.4	910.4	998.1	1102.3	1651.3	3080.2	7540.2	15023.3	16809.3	17140.0
42.5°	824.6	879.8	951.2	1083.9	1514.6	2894.4	7540.2	15705.0	17654.4	17972.8
45°	794.0	853.2	922.6	1081.8	1406.4	2753.6	7489.2	16290.9	18328.0	18599.5
47.5°	767.5	832.8	932.8	1045.1	1379.9	2651.5	7444.3	16760.3	18877.1	19132.2
50°	749.1	826.7	992.0	1002.2	1388.0	2620.9	7660.6	17352.3	19360.8	19581.3
52.5°	734.8	828.7	990.0	939.0	1373.7	2641.3	8111.8	18277.0	20032.4	20048.7
55°	706.3	826.7	939.0	867.5	1314.5	2676.0	8691.5	19620.1	21083.6	21095.9
57.5°	677.7	804.2	871.6	806.3	1194.1	2676.0	9389.5	20891.7	22351.2	22361.4
60°	649.1	836.9	765.5	753.2	1036.9	2627.0	10126.4	21451.0	22749.2	22853.3
62.5°	620.5	843.0	683.8	706.3	922.6	2508.6	10675.5	20832.6	22210.4	22359.4
65°	587.9	679.7	630.7	657.3	863.4	2310.6	10502.0	19699.7	21197.9	21375.5
67.5°	549.1	575.6	573.6	606.2	843.0	2018.8	9587.5	18266.8	20107.9	20097.7
70°	502.1	516.4	522.5	557.2	804.2	1792.2	7989.3	16407.2	18652.5	18881.2
72.5°	453.1	465.4	471.5	502.1	765.5	1663.6	6201.2	13845.5	16156.1	16513.4
75°	400.1	408.2	416.4	442.9	724.6	1473.8	4417.2	10569.4	12373.8	12935.1
77.5°	345.0	345.0	355.2	381.7	610.3	1216.6	2963.8	7413.7	8383.2	8956.8
80°	279.6	281.7	277.6	306.2	449.1	832.8	1684.0	4952.0	5578.6	5688.8
82.5°	214.3	208.2	210.2	224.5	334.8	567.5	898.1	3076.1	3135.3	3074.1
85°	134.7	134.7	130.6	147.0	214.3	296.0	489.9	1884.0	1471.7	1400.3
87.5°	55.1	44.9	51.0	59.2	102.1	120.4	191.9	387.8	149.0	136.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)