

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: P459106

Luminaire Tested: **GALN-SA6A-735-U-SLL**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P459106
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-SA6A-735-U-SLL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 3500K, 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: 21775 lumens
Efficiency: N/A
Efficacy: 119.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G4

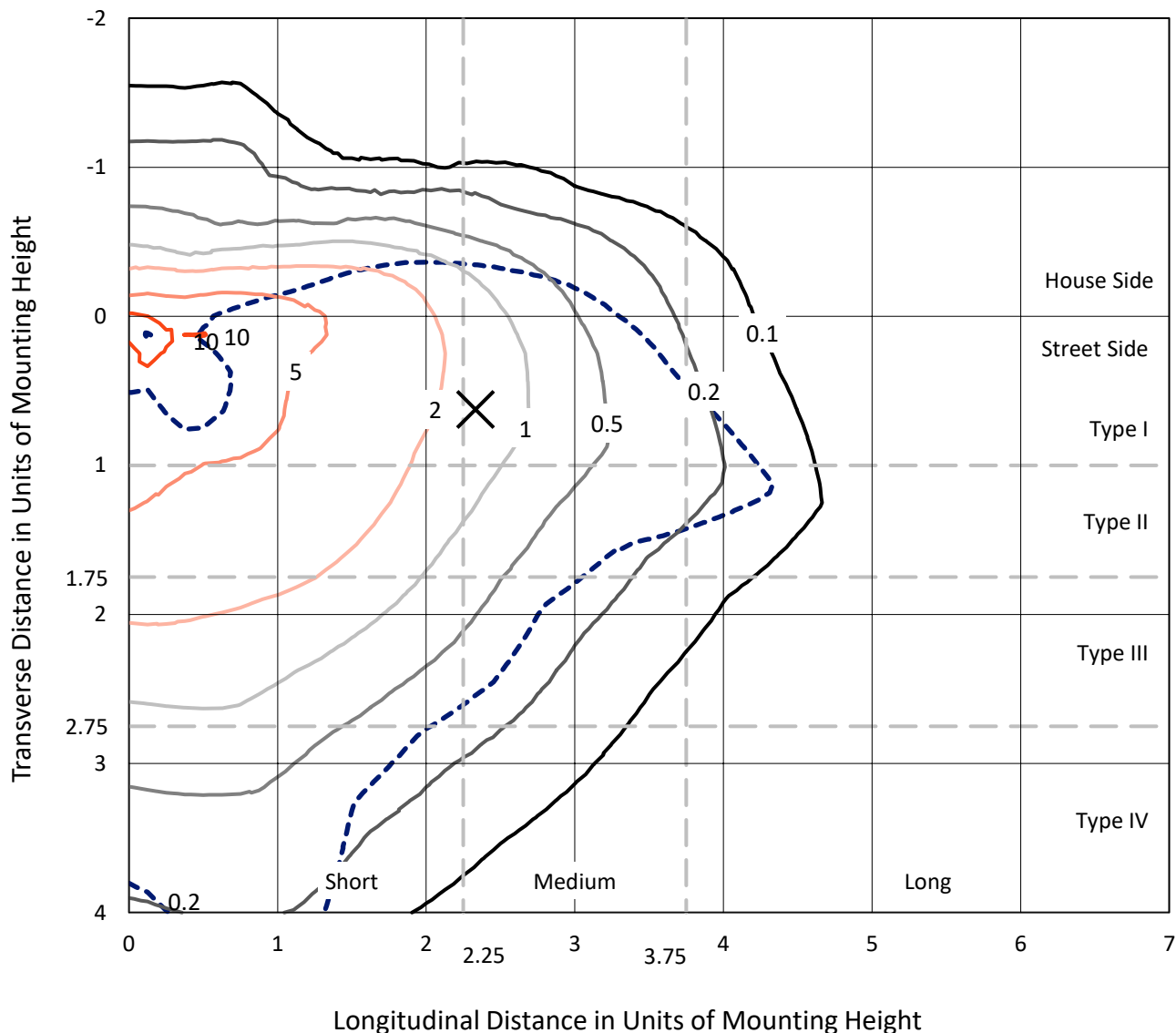
Input Watts (W): 182
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

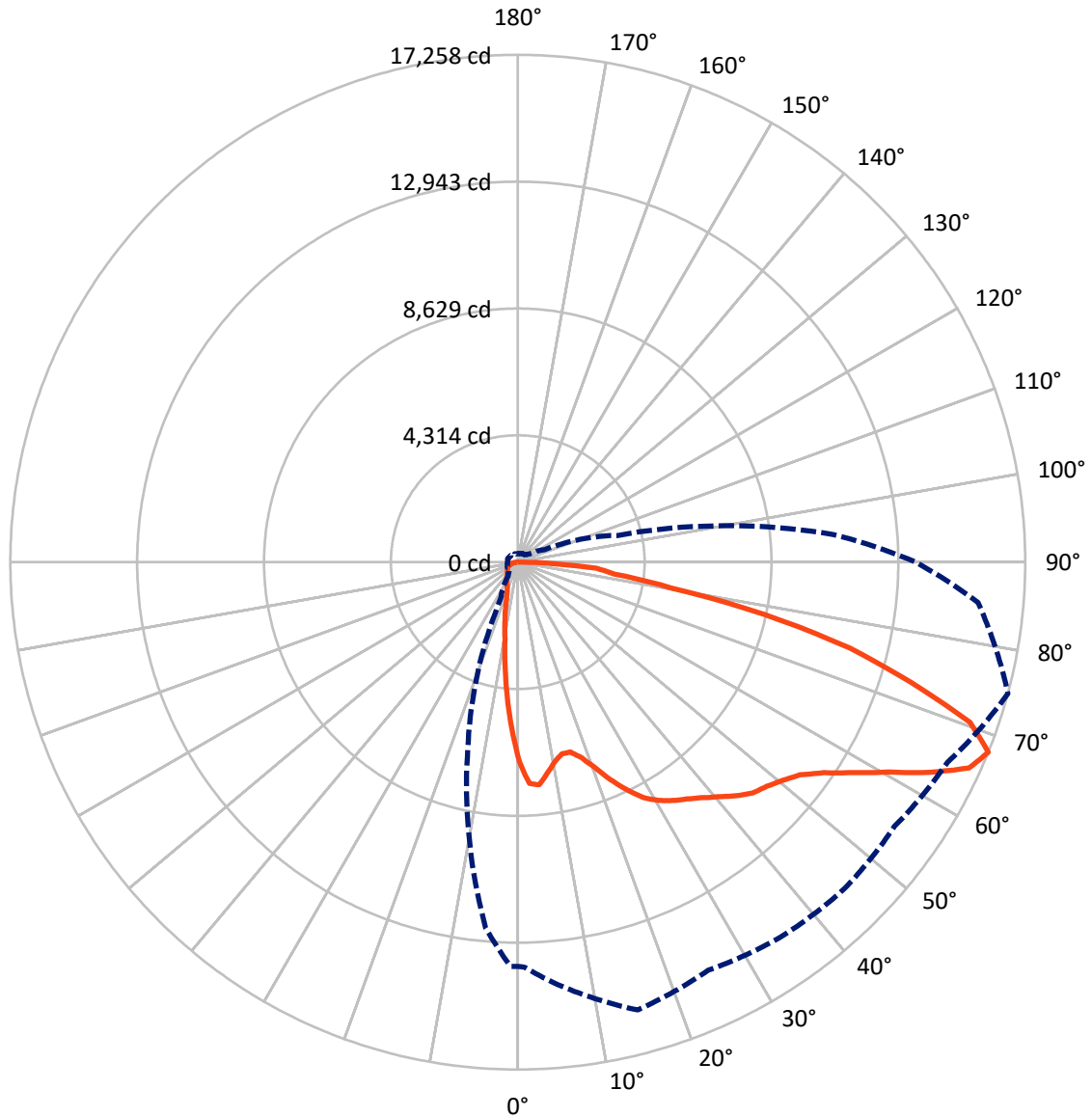
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.4 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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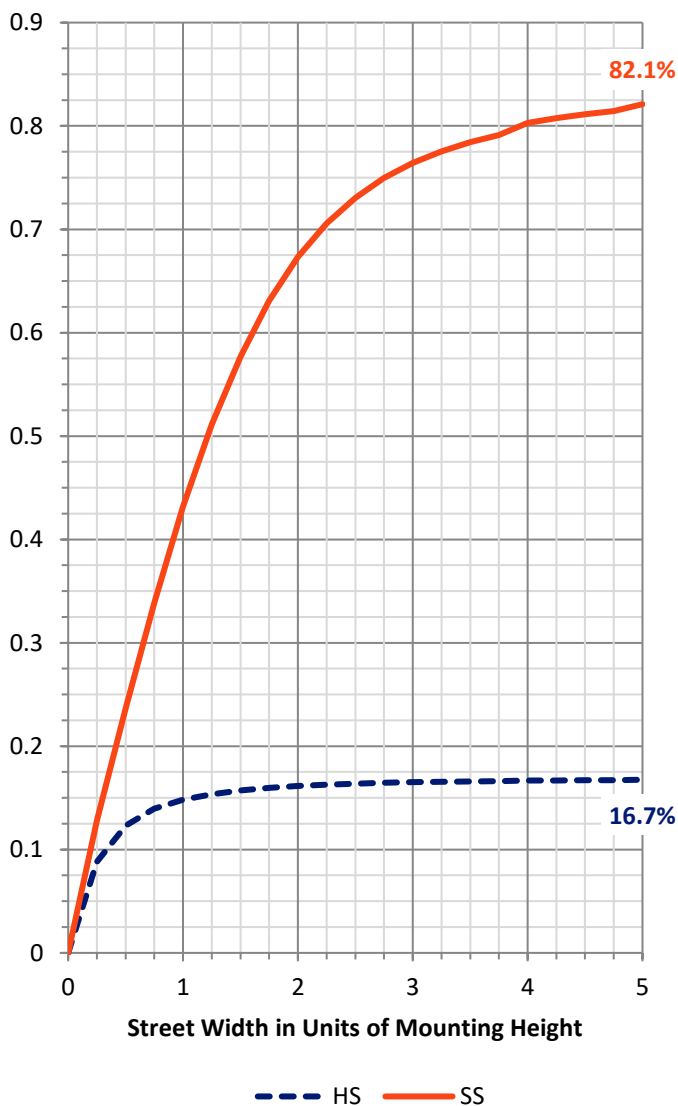
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3680.4	0.0	3680.4
	% Fixture	16.9	0.0	16.9
Street Side	Lumens	18094.6	0.0	18094.6
	% Fixture	83.1	0.0	83.1
Total	Lumens	21775.0	0.0	21775.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	516.0	2.4
10°-20°	1076.1	4.9
20°-30°	1548.5	7.1
30°-40°	2230.3	10.2
40°-50°	3133.0	14.4
50°-60°	4369.5	20.1
60°-70°	5195.0	23.9
70°-80°	3059.6	14.1
80°-90°	647.0	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°	21775.0	100.0
0°-180°	21775.0	100.0

Coefficient of Utilization



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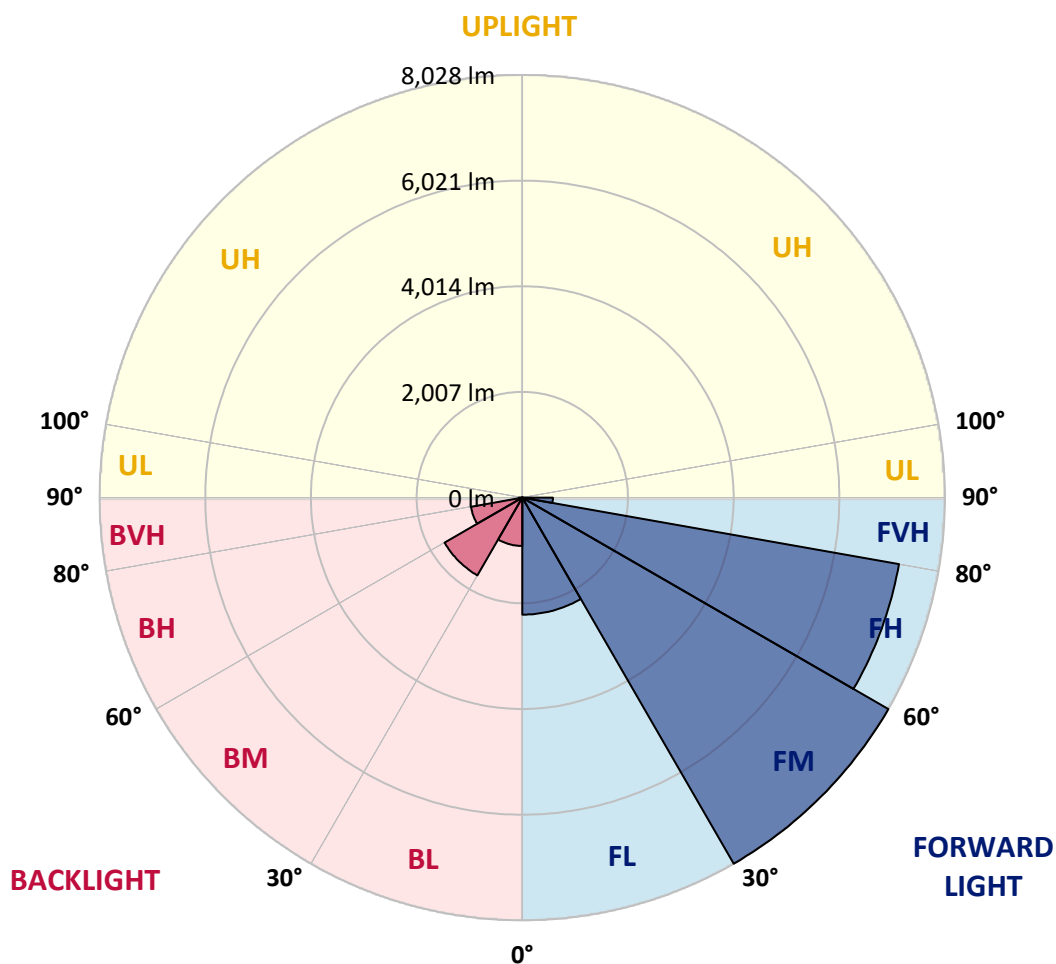
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2222.6	10.2			
FM	(30°-60°)	8027.6	36.9			
FH	(60°-80°)	7264.2	33.4			G3/7500
FVH	(80°-90°)	580.1	2.7			G4/750
BL	(0°-30°)	918.0	4.2	B2/1000		
BM	(30°-60°)	1705.2	7.8	B2/2500		
BH	(60°-80°)	990.3	4.5	B2/1000		G2/1000
BVH	(80°-90°)	66.9	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	6803.0	6803.0	6803.0	6803.0	6803.0	6803.0	6803.0	6803.0	6803.0	6803.0	6803.0
2.5°	7335.0	7344.8	7407.6	7590.6	7716.2	7762.3	7794.4	7734.4	7675.7	7533.3	7318.3
5°	7312.7	7369.9	7533.3	7943.8	8267.8	8407.4	8449.3	8269.2	7971.8	7605.9	7166.1
7.5°	6885.4	6962.2	7213.6	7902.0	8473.1	8799.8	8756.5	8431.2	7895.0	7242.9	6628.5
10°	6378.5	6463.7	6766.7	7598.9	8334.8	8784.4	8784.4	8387.9	7675.7	6900.8	6192.8
12.5°	5976.4	6065.8	6412.0	7287.6	8047.2	8473.1	8544.3	8203.6	7518.0	6684.3	5906.6
15°	5843.7	5930.3	6303.1	7099.1	7742.8	8002.5	8026.2	7914.5	7441.2	6699.7	5894.0
17.5°	6008.5	6120.2	6497.2	7154.9	7463.5	7478.9	7497.0	7585.0	7449.5	6980.4	6148.1
20°	6484.7	6604.7	6998.5	7335.0	7219.1	7060.0	7069.7	7295.9	7548.7	7444.0	6755.5
22.5°	7171.7	7276.4	7679.9	7652.0	7115.8	6787.7	6719.2	7034.8	7695.3	8022.0	7402.1
25°	7913.1	8036.0	8499.6	8122.6	7145.1	6625.7	6582.4	6881.2	7847.5	8562.4	8149.1
27.5°	8762.1	8882.2	9248.0	8597.3	7298.7	6613.1	6561.5	6867.3	7984.3	9062.3	8862.6
30°	9393.3	9503.6	9752.1	8996.7	7487.2	6696.9	6632.7	6977.6	8101.6	9404.4	9558.0
32.5°	9889.0	10003.5	10138.9	9245.2	7735.8	6849.1	6730.4	7178.6	8255.2	9665.5	10073.3
35°	10405.6	10541.1	10531.3	9465.9	7967.6	7025.0	6909.1	7469.1	8496.8	9893.2	10726.8
37.5°	11060.5	11115.0	11045.1	9664.1	8245.5	7342.0	7277.8	7900.6	8840.3	10168.2	11490.6
40°	11725.2	11834.1	11475.2	9904.3	8583.4	7938.3	7931.3	8538.7	9248.0	10490.8	12230.6
42.5°	12294.9	12387.0	11877.4	10113.8	8992.5	8665.8	8718.8	9394.7	9782.8	10865.0	12825.5
45°	12723.6	12805.9	12248.8	10316.2	9531.5	9506.4	9819.1	10312.1	10457.3	11201.5	13174.6
47.5°	13088.0	13167.6	12507.1	10623.4	10197.6	10510.3	11054.9	11268.6	11034.0	11394.2	13565.6
50°	13395.2	13418.9	12684.5	10989.3	11024.2	11740.5	12268.3	12406.6	11603.7	11670.7	13904.9
52.5°	13715.0	13684.2	12990.3	11450.1	11917.9	12907.9	13291.9	13435.7	12149.7	12011.4	14399.2
55°	14431.3	14460.6	13675.9	12031.0	12821.3	14054.3	14559.8	14421.5	12754.3	12638.4	15027.5
57.5°	15297.0	15271.9	14640.7	12940.0	13741.5	15121.1	15498.1	15276.1	13561.4	13499.9	15664.3
60°	15633.6	15667.1	15447.8	13917.4	14649.1	16055.3	16440.6	16095.7	14529.0	14501.1	16144.6
62.5°	15295.6	15484.1	15632.2	14787.4	15422.7	16742.3	17124.9	16731.1	15538.6	15741.1	16481.1
65°	14622.6	14663.1	15167.2	15524.6	15795.5	16855.4	17055.0	16845.6	16382.0	16870.7	16465.8
67.5°	13748.5	13783.4	14374.0	15766.2	15315.2	15570.7	15710.4	15648.9	16120.9	17257.5	15707.6
70°	12916.3	12888.3	13512.5	15150.4	13332.4	12944.2	13060.1	12867.4	13910.5	16312.2	14220.4
72.5°	11296.5	11397.0	12067.3	13438.5	10556.4	9925.3	10178.0	9679.5	10698.8	13970.5	11542.2
75°	8848.7	8872.4	9990.9	11278.3	7963.4	6967.8	7309.9	7101.8	8195.2	11654.0	7970.4
77.5°	6127.2	6074.1	7276.4	8614.1	5679.0	5100.9	5106.5	5007.3	5722.2	8580.6	5415.1
80°	3891.6	3810.6	4554.9	5321.5	3902.8	4175.1	4038.2	4034.1	3725.5	5293.6	3274.4
82.5°	2102.9	2192.3	2877.9	3335.9	2799.7	3227.0	2957.5	2870.9	2556.7	3313.5	2094.5
85°	957.9	1041.7	1534.6	2269.1	2126.6	2150.4	1436.8	1695.2	2115.5	2690.8	1118.5
87.5°	93.6	120.1	317.0	1071.0	726.1	572.5	213.6	411.9	532.0	956.5	89.4
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	6803.0	6803.0	6803.0	6803.0	6803.0	6803.0	6803.0	6803.0	6803.0	6803.0	6803.0
2.5°	7230.3	7157.7	6910.5	6706.7	6490.2	6325.5	6110.4	5966.6	5867.5	5718.1	5699.9
5°	6898.0	6720.6	6290.6	5852.1	5473.7	5188.8	4899.8	4634.5	4478.1	4429.2	4366.4
7.5°	6338.0	6039.2	5486.3	4983.6	4549.3	4124.8	3798.1	3566.3	3411.3	3320.5	3211.6
10°	5877.2	5530.9	4857.9	4242.1	3884.7	3620.7	3333.1	3084.5	2893.2	2729.9	2640.5
12.5°	5567.3	5176.3	4419.5	3919.6	3643.1	3362.4	3025.9	2746.6	2464.6	2278.8	2199.3
15°	5473.7	5060.4	4284.0	3759.0	3362.4	2995.2	2618.2	2253.7	1974.4	1798.5	1739.9
17.5°	5702.7	5202.8	4282.6	3545.3	3032.9	2594.4	2111.3	1769.2	1482.9	1351.7	1309.8
20°	6130.0	5476.5	4295.2	3334.5	2675.4	2058.2	1536.0	1255.3	1118.5	1062.6	1041.7
22.5°	6726.2	5894.0	4332.9	3126.4	2284.4	1580.7	1150.6	1008.2	959.3	949.5	945.3
25°	7460.7	6410.7	4459.9	2939.3	1954.9	1206.4	962.1	897.9	869.9	860.2	858.8
27.5°	8136.5	7078.1	4613.5	2778.7	1636.5	1040.3	869.9	815.5	787.5	786.1	788.9
30°	8746.7	7636.6	4742.0	2598.6	1395.0	924.4	809.9	755.4	728.9	727.5	735.9
32.5°	9274.6	8096.0	4837.0	2421.3	1260.9	853.2	755.4	696.8	674.4	670.2	674.4
35°	9838.7	8554.1	4793.7	2283.0	1184.1	794.5	714.9	657.7	631.2	618.6	618.6
37.5°	10482.4	9026.0	4719.7	2168.5	1149.2	745.7	680.0	624.2	597.6	585.1	583.7
40°	11184.8	9498.0	4617.7	2066.6	1114.3	716.3	656.3	597.6	565.5	553.0	550.2
42.5°	11804.8	9901.5	4534.0	1999.6	1057.0	721.9	635.3	578.1	537.6	520.8	519.4
45°	12343.7	10307.9	4518.6	1960.5	1009.6	713.5	629.8	562.7	515.3	497.1	494.3
47.5°	12765.4	10731.0	4606.6	1938.1	957.9	668.9	666.1	553.0	495.7	476.2	473.4
50°	13279.3	11331.4	4807.6	1892.1	910.4	627.0	703.8	551.6	480.3	455.2	448.2
52.5°	13963.5	12113.4	5079.9	1809.7	842.0	587.9	671.6	551.6	462.2	437.1	428.7
55°	14998.2	13110.3	5346.6	1693.8	745.7	536.2	606.0	534.8	435.7	413.3	407.7
57.5°	15683.8	13839.2	5517.0	1533.2	625.6	498.5	522.2	508.3	409.1	385.4	385.4
60°	15718.7	14034.7	5436.0	1330.7	550.2	463.6	453.8	512.5	385.4	360.3	357.5
62.5°	15316.6	13555.8	5014.3	1149.2	509.7	425.9	410.5	449.6	361.7	336.5	332.3
65°	14688.2	12334.0	4282.6	1062.6	487.3	392.4	370.0	368.6	336.5	312.8	307.2
67.5°	13533.4	10778.4	3518.8	1012.4	476.2	354.7	333.7	326.7	307.2	287.6	284.9
70°	11831.3	9027.4	2822.0	991.4	470.6	315.6	298.8	290.4	273.7	258.3	256.9
72.5°	9204.8	7322.5	2329.1	977.4	467.8	279.3	261.1	249.9	240.2	226.2	226.2
75°	6611.7	5387.1	1777.6	881.1	432.9	240.2	220.6	213.6	199.7	188.5	191.3
77.5°	4168.1	3627.7	1170.1	647.9	335.1	192.7	175.9	171.8	160.6	145.2	155.0
80°	2815.0	2551.1	682.8	407.7	210.8	141.0	135.4	134.0	121.5	104.7	106.1
82.5°	1915.8	1879.5	354.7	231.8	121.5	82.4	79.6	82.4	68.4	55.9	55.9
85°	748.4	1022.1	167.6	90.8	39.1	12.6	18.2	19.5	11.2	5.6	7.0
87.5°	14.0	104.7	4.2	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°	6803.0	6803.0	6803.0	6803.0	6803.0	6803.0	6803.0	6803.0	6803.0	6803.0	6803.0
2.5°	5672.0	5659.4	5680.4	5591.0	5609.1	5642.7	5659.4	5669.2	5807.4	5775.3	5863.3
5°	4425.0	4412.5	4493.5	4504.6	4546.5	4538.1	4578.6	4588.4	4638.7	4656.8	4779.7
7.5°	3218.6	3273.0	3365.2	3412.7	3483.9	3506.2	3485.3	3537.0	3432.2	3507.6	3530.0
10°	2586.0	2520.4	2481.3	2590.2	2604.2	2707.5	2665.6	2632.1	2693.6	2696.4	2755.0
12.5°	2153.2	2012.1	1918.6	1949.3	1982.8	2027.5	2034.5	2101.5	2146.2	2188.1	2223.0
15°	1688.2	1639.3	1554.1	1512.2	1559.7	1577.9	1621.2	1677.0	1724.5	1737.1	1784.5
17.5°	1295.8	1304.2	1290.2	1265.1	1294.4	1308.4	1311.2	1312.6	1325.1	1316.8	1386.6
20°	1043.1	1072.4	1107.3	1112.9	1122.7	1129.6	1117.1	1069.6	1071.0	1100.3	1122.7
22.5°	943.9	949.5	988.6	1001.2	1031.9	1019.3	983.0	960.7	957.9	964.9	976.0
25°	865.7	874.1	902.0	921.6	945.3	923.0	896.5	875.5	872.7	879.7	890.9
27.5°	795.9	808.5	833.6	853.2	875.5	854.6	829.4	811.3	809.9	808.5	815.5
30°	740.1	754.0	772.2	794.5	809.9	791.7	768.0	758.2	756.8	754.0	756.8
32.5°	684.2	706.6	724.7	735.9	751.2	737.3	719.1	713.5	703.8	695.4	691.2
35°	621.4	645.1	673.0	687.0	702.4	688.4	675.8	652.1	635.3	633.9	636.7
37.5°	585.1	594.8	617.2	640.9	656.3	649.3	625.6	601.8	597.6	597.6	600.4
40°	553.0	557.1	566.9	597.6	625.6	604.6	575.3	568.3	568.3	566.9	568.3
42.5°	520.8	525.0	525.0	548.8	593.4	559.9	537.6	537.6	537.6	539.0	543.2
45°	491.5	492.9	491.5	508.3	550.2	522.2	506.9	511.1	513.9	516.7	519.4
47.5°	466.4	467.8	466.4	480.3	501.3	490.1	481.7	487.3	492.9	497.1	499.9
50°	444.0	442.6	445.4	453.8	463.6	466.4	460.8	469.2	472.0	477.6	484.5
52.5°	424.5	423.1	425.9	430.1	444.0	444.0	444.0	451.0	456.6	462.2	472.0
55°	402.1	403.5	407.7	413.3	431.5	428.7	430.1	435.7	441.2	449.6	455.2
57.5°	381.2	384.0	389.6	398.0	416.1	414.7	416.1	418.9	425.9	430.1	435.7
60°	357.5	363.1	370.0	375.6	393.8	392.4	399.4	404.9	409.1	409.1	411.9
62.5°	333.7	342.1	349.1	353.3	372.8	374.2	384.0	388.2	391.0	388.2	392.4
65°	310.0	322.6	325.3	330.9	350.5	351.9	363.1	372.8	370.0	367.2	374.2
67.5°	286.3	301.6	300.2	307.2	326.7	329.5	339.3	356.1	350.5	347.7	353.3
70°	259.7	270.9	272.3	276.5	303.0	298.8	314.2	329.5	325.3	326.7	326.7
72.5°	230.4	240.2	240.2	248.6	276.5	269.5	282.1	298.8	298.8	297.4	297.4
75°	195.5	201.1	206.7	219.2	248.6	240.2	248.6	263.9	266.7	263.9	263.9
77.5°	157.8	166.2	169.0	185.7	206.7	205.3	213.6	220.6	226.2	223.4	223.4
80°	111.7	120.1	131.3	149.4	162.0	166.2	170.4	175.9	178.7	178.7	181.5
82.5°	62.8	75.4	85.2	103.3	108.9	129.9	128.5	132.7	128.5	113.1	125.7
85°	14.0	26.5	37.7	47.5	54.5	75.4	79.6	89.4	74.0	68.4	68.4
87.5°	0.0	0.0	0.0	0.0	0.0	11.2	22.3	30.7	26.5	22.3	22.3
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°	6803.0	6803.0	6803.0	6803.0	6803.0	6803.0	6803.0	6803.0	6803.0	6803.0
2.5°	5937.3	6058.8	6205.4	6458.1	6635.5	6826.8	7019.5	7224.7	7279.2	7335.0
5°	4813.2	5052.0	5181.9	5521.2	5877.2	6329.7	6699.7	7104.6	7273.6	7312.7
7.5°	3645.9	3807.9	4148.6	4492.1	4933.3	5408.1	5975.0	6606.1	6803.0	6885.4
10°	2890.4	3111.1	3409.9	3778.5	4165.3	4676.4	5315.9	6053.2	6332.5	6378.5
12.5°	2460.4	2706.1	3031.5	3421.1	3786.9	4172.3	4817.4	5578.4	5877.2	5976.4
15°	1967.5	2264.9	2640.5	3051.0	3449.0	3870.7	4524.2	5382.9	5727.8	5843.7
17.5°	1545.8	1785.9	2192.3	2637.7	3109.7	3643.1	4462.7	5476.5	5901.0	6008.5
20°	1182.7	1354.5	1696.6	2167.1	2720.1	3418.3	4478.1	5829.8	6338.0	6484.7
22.5°	1022.1	1110.1	1318.2	1766.4	2385.0	3222.8	4540.9	6314.3	6927.3	7171.7
25°	925.8	971.9	1089.2	1382.4	2065.2	3032.9	4684.8	6966.4	7751.1	7913.1
27.5°	843.4	876.9	949.5	1160.4	1774.8	2856.9	4852.3	7689.7	8520.5	8762.1
30°	765.2	809.9	878.3	1030.5	1589.0	2696.4	5063.2	8276.2	9168.4	9393.3
32.5°	705.2	749.8	812.7	939.7	1431.3	2527.4	5188.8	8791.4	9697.7	9889.0
35°	656.3	694.0	759.6	867.1	1311.2	2398.9	5163.7	9200.6	10210.1	10405.6
37.5°	621.4	653.5	719.1	798.7	1220.4	2264.9	5151.1	9740.9	10834.3	11060.5
40°	589.3	622.8	682.8	754.0	1129.6	2107.1	5158.1	10277.1	11499.0	11725.2
42.5°	564.1	601.8	650.7	741.5	1036.1	1980.0	5158.1	10743.5	12077.0	12294.9
45°	543.2	583.7	631.2	740.1	962.1	1883.7	5123.2	11144.3	12537.8	12723.6
47.5°	525.0	569.7	638.1	714.9	943.9	1813.9	5092.5	11465.4	12913.5	13088.0
50°	512.5	565.5	678.6	685.6	949.5	1792.9	5240.5	11870.4	13244.4	13395.2
52.5°	502.7	566.9	677.2	642.3	939.7	1806.9	5549.1	12502.9	13703.8	13715.0
55°	483.1	565.5	642.3	593.4	899.3	1830.6	5945.7	13421.7	14422.9	14431.3
57.5°	463.6	550.2	596.2	551.6	816.9	1830.6	6423.2	14291.7	15290.1	15297.0
60°	444.0	572.5	523.6	515.3	709.3	1797.1	6927.3	14674.3	15562.3	15633.6
62.5°	424.5	576.7	467.8	483.1	631.2	1716.1	7302.9	14251.2	15193.7	15295.6
65°	402.1	465.0	431.5	449.6	590.7	1580.7	7184.2	13476.2	14501.1	14622.6
67.5°	375.6	393.8	392.4	414.7	576.7	1381.0	6558.7	12496.0	13755.5	13748.5
70°	343.5	353.3	357.5	381.2	550.2	1226.0	5465.3	11223.9	12759.9	12916.3
72.5°	310.0	318.4	322.6	343.5	523.6	1138.0	4242.1	9471.5	11052.1	11296.5
75°	273.7	279.3	284.9	303.0	495.7	1008.2	3021.7	7230.3	8464.7	8848.7
77.5°	236.0	236.0	243.0	261.1	417.5	832.2	2027.5	5071.5	5734.8	6127.2
80°	191.3	192.7	189.9	209.5	307.2	569.7	1152.0	3387.5	3816.2	3891.6
82.5°	146.6	142.4	143.8	153.6	229.0	388.2	614.4	2104.3	2144.8	2102.9
85°	92.2	92.2	89.4	100.5	146.6	202.5	335.1	1288.8	1006.8	957.9
87.5°	37.7	30.7	34.9	40.5	69.8	82.4	131.3	265.3	101.9	93.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)