

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: P455481

Luminaire Tested: **GALN-SA6C-830-U-SLL**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P455481
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-SA6C-830-U-SLL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 3000K, 1050mA 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: 28556 lumens
Efficiency: N/A
Efficacy: 89.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

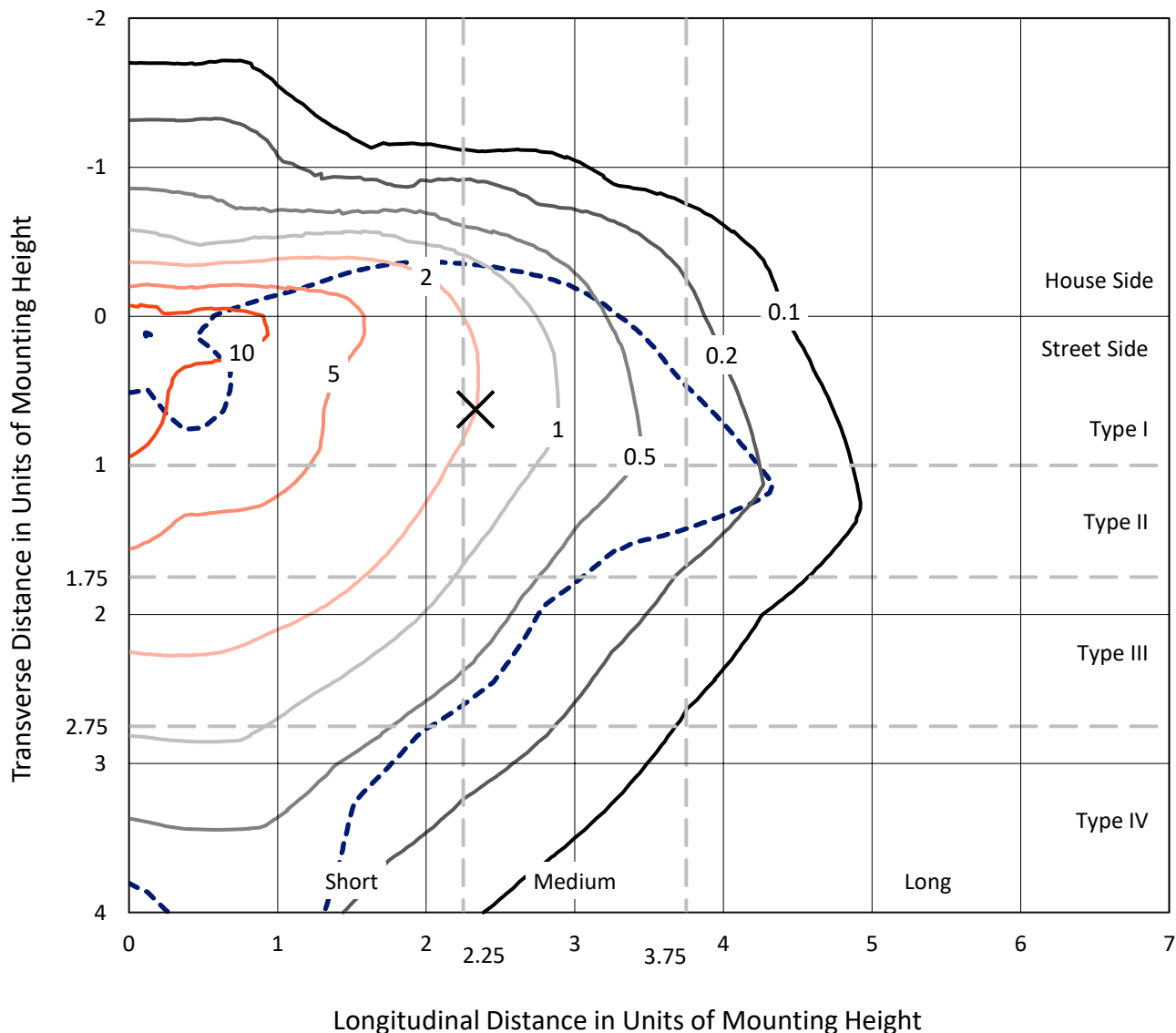
Input Watts (W): 321
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

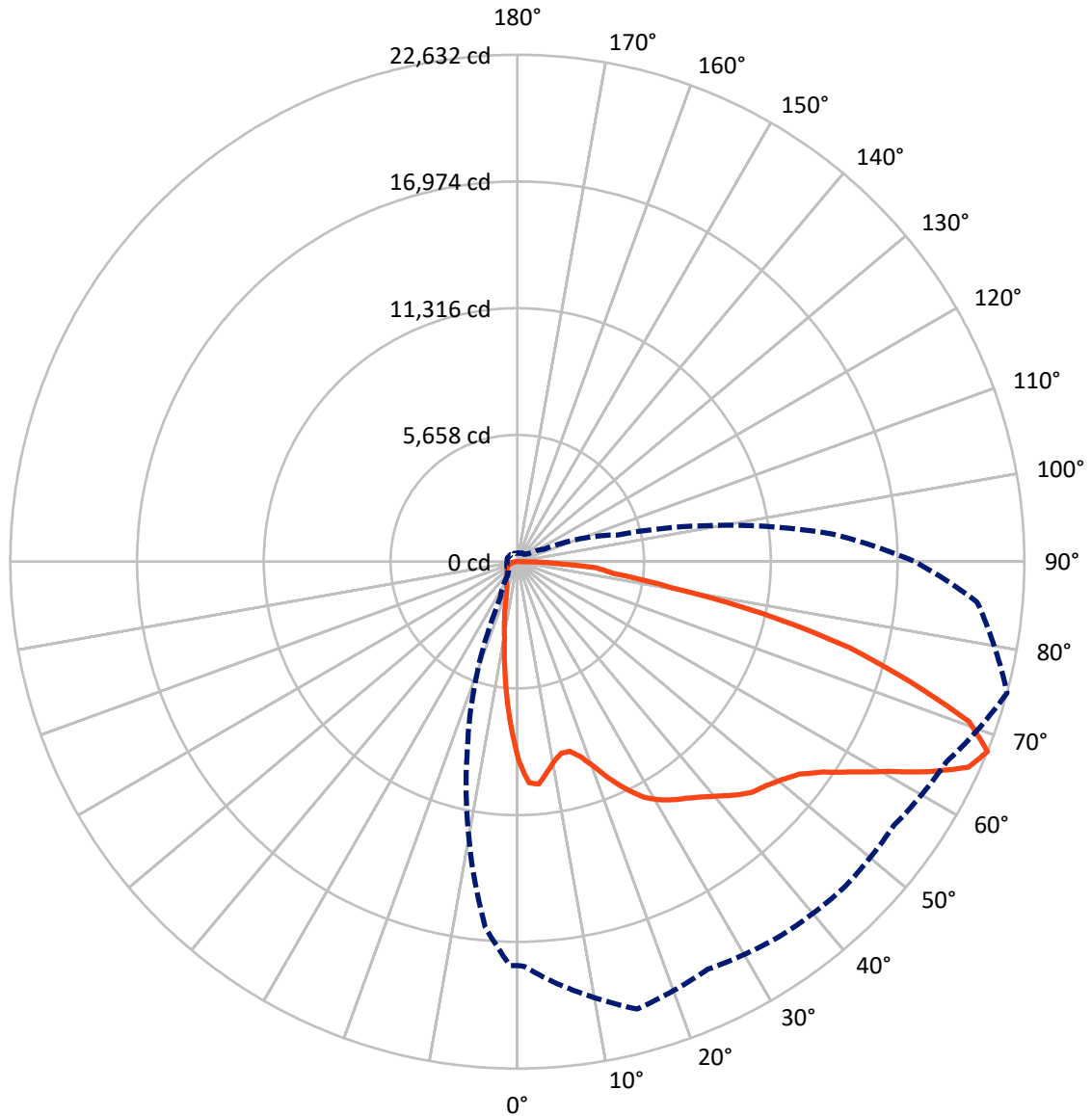
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.6 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	4826.6	0.0	4826.6
	% Fixture	16.9	0.0	16.9
Street Side	Lumens	23729.4	0.0	23729.4
	% Fixture	83.1	0.0	83.1
Total	Lumens	28556.0	0.0	28556.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	676.7	2.4
10°-20°	1411.2	4.9
20°-30°	2030.8	7.1
30°-40°	2924.9	10.2
40°-50°	4108.7	14.4
50°-60°	5730.2	20.1
60°-70°	6812.8	23.9
70°-80°	4012.4	14.1
80°-90°	848.5	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°	28556.0	100.0
0°-180°	28556.0	100.0

Coefficient of Utilization



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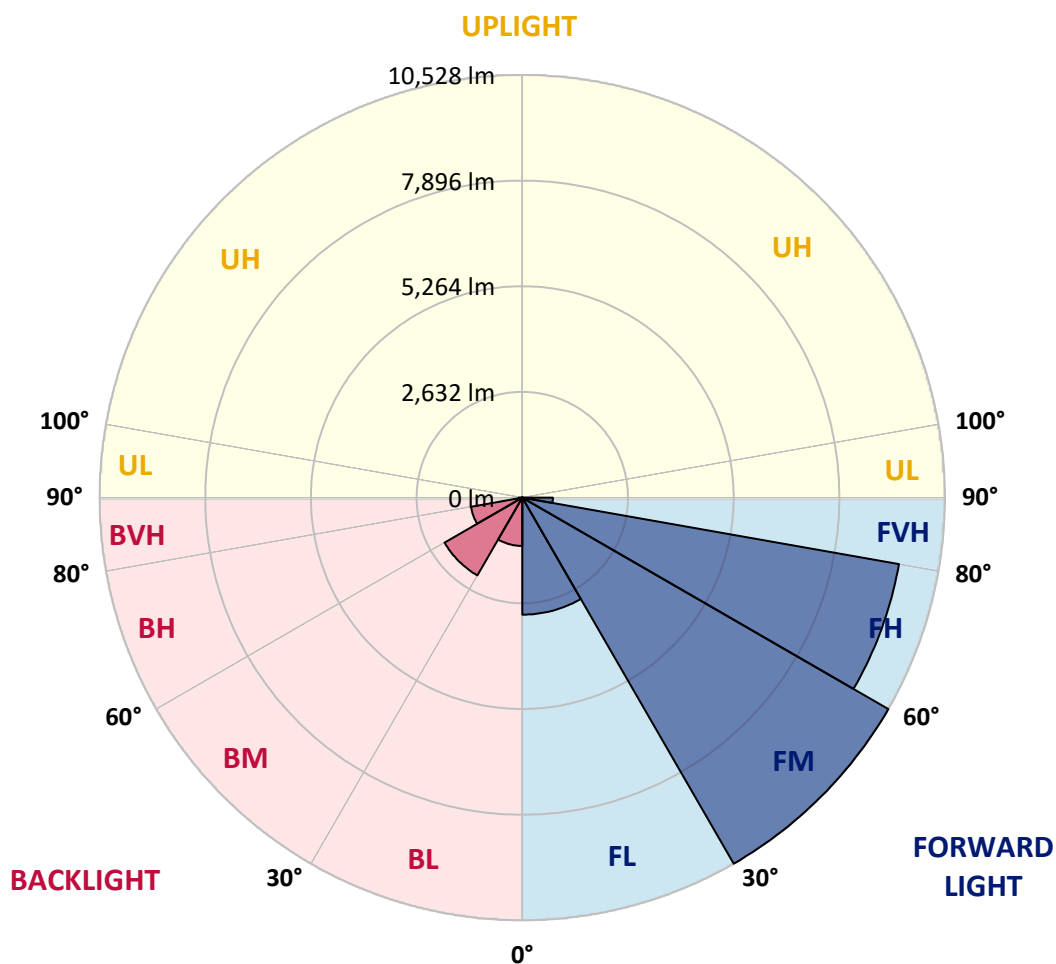
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2914.8	10.2			
FM	(30°-60°)	10527.5	36.9			
FH	(60°-80°)	9526.4	33.4			G4/12000
FVH	(80°-90°)	760.7	2.7			G5
BL	(0°-30°)	1203.9	4.2	B3/2500		
BM	(30°-60°)	2236.2	7.8	B2/2500		
BH	(60°-80°)	1298.7	4.5	B3/2500		G3/2500
BVH	(80°-90°)	87.8	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°	8921.6	8921.6	8921.6	8921.6	8921.6	8921.6	8921.6	8921.6	8921.6	8921.6	8921.6
2.5°	9619.3	9632.1	9714.5	9954.4	10119.2	10179.6	10221.7	10143.0	10066.1	9879.3	9597.3
5°	9590.0	9665.0	9879.3	10417.7	10842.5	11025.6	11080.5	10844.3	10454.3	9974.5	9397.7
7.5°	9029.6	9130.3	9459.9	10362.7	11111.7	11540.2	11483.4	11056.7	10353.6	9498.4	8692.7
10°	8364.9	8476.6	8874.0	9965.3	10930.4	11520.0	11520.0	11000.0	10066.1	9049.8	8121.3
12.5°	7837.5	7954.7	8408.8	9557.0	10553.2	11111.7	11205.1	10758.3	9859.1	8765.9	7745.9
15°	7663.5	7777.1	8266.0	9309.8	10154.0	10494.6	10525.7	10379.2	9758.4	8786.1	7729.5
17.5°	7879.6	8026.1	8520.5	9383.0	9787.7	9807.9	9831.7	9947.0	9769.4	9154.1	8062.7
20°	8504.1	8661.5	9177.9	9619.3	9467.3	9258.5	9271.3	9568.0	9899.4	9762.1	8859.3
22.5°	9405.0	9542.3	10071.6	10034.9	9331.8	8901.4	8811.7	9225.5	10091.7	10520.2	9707.2
25°	10377.4	10538.5	11146.5	10652.0	9370.2	8689.0	8632.2	9024.1	10291.3	11228.9	10686.8
27.5°	11490.7	11648.2	12128.0	11274.7	9571.6	8672.5	8604.8	9005.8	10470.8	11884.4	11622.6
30°	12318.4	12463.1	12789.0	11798.4	9818.9	8782.4	8698.2	9150.5	10624.6	12333.1	12534.5
32.5°	12968.5	13118.7	13296.3	12124.3	10144.8	8982.0	8826.3	9414.2	10826.0	12675.5	13210.2
35°	13646.0	13823.7	13810.9	12413.7	10448.8	9212.7	9060.7	9795.0	11142.8	12974.0	14067.2
37.5°	14504.9	14576.3	14484.7	12673.7	10813.2	9628.4	9544.2	10360.9	11593.3	13334.7	15068.9
40°	15376.5	15519.4	15048.7	12988.6	11256.3	10410.3	10401.2	11197.7	12128.0	13757.7	16039.4
42.5°	16123.7	16244.5	15576.1	13263.3	11792.9	11364.4	11434.0	12320.3	12829.3	14248.5	16819.5
45°	16685.8	16793.9	16063.2	13528.9	12499.7	12466.8	12876.9	13523.4	13713.8	14689.8	17277.3
47.5°	17163.8	17268.1	16402.0	13931.7	13373.2	13783.4	14497.6	14777.7	14470.1	14942.5	17790.0
50°	17566.6	17597.8	16634.6	14411.5	14457.3	15396.7	16088.9	16270.1	15217.2	15305.1	18235.0
52.5°	17986.0	17945.7	17035.6	15015.8	15629.2	16927.5	17431.1	17619.7	15933.2	15751.9	18883.3
55°	18925.4	18963.8	17934.7	15777.6	16814.0	18431.0	19093.8	18912.6	16726.1	16574.1	19707.3
57.5°	20060.7	20027.8	19200.1	16969.7	18020.8	19830.0	20324.4	20033.2	17784.5	17704.0	20542.3
60°	20502.0	20546.0	20258.5	18251.5	19211.0	21055.1	21560.5	21108.2	19053.6	19016.9	21172.2
62.5°	20058.9	20306.1	20500.2	19392.3	20225.5	21956.0	22457.7	21941.3	20377.5	20643.0	21613.6
65°	19176.2	19229.4	19890.4	20359.2	20714.5	22104.3	22366.2	22091.5	21483.6	22124.5	21593.4
67.5°	18029.9	18075.7	18850.3	20676.0	20084.5	20419.6	20602.7	20522.2	21141.1	22631.7	20599.1
70°	16938.5	16901.9	17720.5	19868.4	17484.2	16975.2	17127.1	16874.4	18242.3	21392.0	18648.9
72.5°	14814.3	14946.2	15825.2	17623.4	13843.8	13016.1	13347.6	12693.8	14030.6	18321.1	15136.6
75°	11604.3	11635.4	13102.2	14790.5	10443.3	9137.7	9586.3	9313.4	10747.3	15283.1	10452.4
77.5°	8035.3	7965.7	9542.3	11296.6	7447.5	6689.3	6696.7	6566.7	7504.2	11252.7	7101.4
80°	5103.5	4997.3	5973.4	6978.7	5118.2	5475.3	5295.8	5290.3	4885.6	6942.1	4294.1
82.5°	2757.8	2875.0	3774.1	4374.7	3671.5	4231.9	3878.5	3764.9	3352.9	4345.4	2746.8
85°	1256.2	1366.1	2012.5	2975.7	2788.9	2820.0	1884.3	2223.1	2774.3	3528.7	1466.8
87.5°	122.7	157.5	415.7	1404.5	952.2	750.8	280.2	540.2	697.7	1254.4	117.2
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°	8921.6	8921.6	8921.6	8921.6	8921.6	8921.6	8921.6	8921.6	8921.6	8921.6	8921.6
2.5°	9481.9	9386.7	9062.6	8795.2	8511.4	8295.3	8013.3	7824.7	7694.7	7498.7	7474.9
5°	9046.1	8813.5	8249.5	7674.5	7178.3	6804.7	6425.7	6077.7	5872.6	5808.5	5726.1
7.5°	8311.8	7919.9	7194.8	6535.5	5966.0	5409.3	4980.8	4676.9	4473.6	4354.6	4211.7
10°	7707.5	7253.4	6370.7	5563.2	5094.4	4748.3	4371.1	4045.1	3794.2	3580.0	3462.8
12.5°	7301.0	6788.2	5795.7	5140.2	4777.6	4409.5	3968.2	3602.0	3232.1	2988.5	2884.1
15°	7178.3	6636.2	5618.1	4929.6	4409.5	3927.9	3433.5	2955.5	2589.3	2358.6	2281.7
17.5°	7478.6	6823.0	5616.3	4649.4	3977.4	3402.4	2768.8	2320.1	1944.7	1772.6	1717.7
20°	8038.9	7181.9	5632.7	4372.9	3508.6	2699.2	2014.3	1646.2	1466.8	1393.5	1366.1
22.5°	8820.9	7729.5	5682.2	4100.0	2995.8	2072.9	1508.9	1322.1	1258.0	1245.2	1239.7
25°	9784.1	8407.0	5848.8	3854.7	2563.7	1582.2	1261.7	1177.5	1140.8	1128.0	1126.2
27.5°	10670.4	9282.3	6050.3	3644.1	2146.2	1364.2	1140.8	1069.4	1032.8	1031.0	1034.6
30°	11470.6	10014.8	6218.7	3407.8	1829.4	1212.2	1062.1	990.7	955.9	954.1	965.0
32.5°	12162.8	10617.3	6343.3	3175.3	1653.6	1118.9	990.7	913.8	884.5	879.0	884.5
35°	12902.6	11217.9	6286.5	2994.0	1552.9	1041.9	937.6	862.5	827.7	811.2	811.2
37.5°	13746.8	11836.8	6189.4	2843.8	1507.1	977.9	891.8	818.5	783.8	767.3	765.4
40°	14667.9	12455.8	6055.8	2710.2	1461.3	939.4	860.7	783.8	741.6	725.2	721.5
42.5°	15480.9	12985.0	5945.9	2622.3	1386.2	946.7	833.2	758.1	705.0	683.0	681.2
45°	16187.7	13517.9	5925.7	2571.0	1324.0	935.7	825.9	738.0	675.7	651.9	648.2
47.5°	16740.8	14072.7	6041.1	2541.7	1256.2	877.1	873.5	725.2	650.1	624.4	620.8
50°	17414.6	14860.1	6304.8	2481.3	1193.9	822.2	922.9	723.3	629.9	597.0	587.8
52.5°	18311.9	15885.6	6661.9	2373.2	1104.2	770.9	880.8	723.3	606.1	573.2	562.2
55°	19668.8	17193.1	7011.6	2221.2	977.9	703.2	794.7	701.3	571.3	542.0	534.7
57.5°	20568.0	18148.9	7235.0	2010.6	820.4	653.7	684.9	666.6	536.5	505.4	505.4
60°	20613.7	18405.3	7128.8	1745.1	721.5	608.0	595.1	672.0	505.4	472.4	468.8
62.5°	20086.4	17777.2	6575.8	1507.1	668.4	558.5	538.4	589.6	474.3	441.3	435.8
65°	19262.3	16174.9	5616.3	1393.5	639.1	514.6	485.3	483.4	441.3	410.2	402.9
67.5°	17747.9	14135.0	4614.6	1327.6	624.4	465.1	437.7	428.5	402.9	377.2	373.6
70°	15515.7	11838.7	3700.8	1300.1	617.1	413.8	391.9	380.9	358.9	338.8	336.9
72.5°	12071.2	9602.8	3054.4	1281.8	613.4	366.2	342.4	327.8	315.0	296.7	296.7
75°	8670.7	7064.7	2331.1	1155.5	567.7	315.0	289.3	280.2	261.9	247.2	250.9
77.5°	5466.1	4757.4	1534.5	849.7	439.5	252.7	230.7	225.2	210.6	190.4	203.3
80°	3691.7	3345.6	895.5	534.7	276.5	185.0	177.6	175.8	159.3	137.3	139.2
82.5°	2512.4	2464.8	465.1	304.0	159.3	108.0	104.4	108.0	89.7	73.2	73.2
85°	981.5	1340.4	219.7	119.0	51.3	16.5	23.8	25.6	14.6	7.3	9.2
87.5°	18.3	137.3	5.5	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°	8921.6	8921.6	8921.6	8921.6	8921.6	8921.6	8921.6	8921.6	8921.6	8921.6	8921.6
2.5°	7438.3	7421.8	7449.3	7332.1	7355.9	7399.8	7421.8	7434.6	7615.9	7573.8	7689.2
5°	5803.0	5786.6	5892.8	5907.4	5962.4	5951.4	6004.5	6017.3	6083.2	6107.0	6268.2
7.5°	4220.9	4292.3	4413.2	4475.4	4568.8	4598.1	4570.7	4638.4	4501.1	4600.0	4629.3
10°	3391.4	3305.3	3254.0	3396.9	3415.2	3550.7	3495.7	3451.8	3532.4	3536.0	3612.9
12.5°	2823.7	2638.7	2516.1	2556.3	2600.3	2658.9	2668.0	2755.9	2814.5	2869.5	2915.3
15°	2213.9	2149.8	2038.1	1983.2	2045.4	2069.2	2126.0	2199.3	2261.5	2278.0	2340.3
17.5°	1699.3	1710.3	1692.0	1659.1	1697.5	1715.8	1719.5	1721.3	1737.8	1726.8	1818.4
20°	1367.9	1406.4	1452.1	1459.5	1472.3	1481.4	1465.0	1402.7	1404.5	1443.0	1472.3
22.5°	1237.9	1245.2	1296.5	1313.0	1353.3	1336.8	1289.2	1259.9	1256.2	1265.4	1280.0
25°	1135.3	1146.3	1183.0	1208.6	1239.7	1210.4	1175.6	1148.2	1144.5	1153.7	1168.3
27.5°	1043.8	1060.3	1093.2	1118.9	1148.2	1120.7	1087.7	1063.9	1062.1	1060.3	1069.4
30°	970.5	988.8	1012.6	1041.9	1062.1	1038.3	1007.2	994.3	992.5	988.8	992.5
32.5°	897.3	926.6	950.4	965.0	985.2	966.9	943.1	935.7	922.9	911.9	906.4
35°	814.9	846.0	882.6	900.9	921.1	902.8	886.3	855.2	833.2	831.4	835.0
37.5°	767.3	780.1	809.4	840.5	860.7	851.5	820.4	789.2	783.8	783.8	787.4
40°	725.2	730.6	743.5	783.8	820.4	792.9	754.5	745.3	745.3	743.5	745.3
42.5°	683.0	688.5	688.5	719.7	778.3	734.3	705.0	705.0	705.0	706.8	712.3
45°	644.6	646.4	644.6	666.6	721.5	684.9	664.7	670.2	673.9	677.5	681.2
47.5°	611.6	613.4	611.6	629.9	657.4	642.7	631.8	639.1	646.4	651.9	655.6
50°	582.3	580.5	584.2	595.1	608.0	611.6	604.3	615.3	618.9	626.3	635.4
52.5°	556.7	554.9	558.5	564.0	582.3	582.3	582.3	591.5	598.8	606.1	618.9
55°	527.4	529.2	534.7	542.0	565.8	562.2	564.0	571.3	578.7	589.6	597.0
57.5°	499.9	503.6	510.9	521.9	545.7	543.9	545.7	549.4	558.5	564.0	571.3
60°	468.8	476.1	485.3	492.6	516.4	514.6	523.7	531.0	536.5	536.5	540.2
62.5°	437.7	448.6	457.8	463.3	488.9	490.8	503.6	509.1	512.7	509.1	514.6
65°	406.5	423.0	426.7	434.0	459.6	461.5	476.1	488.9	485.3	481.6	490.8
67.5°	375.4	395.5	393.7	402.9	428.5	432.2	445.0	467.0	459.6	456.0	463.3
70°	340.6	355.3	357.1	362.6	397.4	391.9	412.0	432.2	426.7	428.5	428.5
72.5°	302.1	315.0	315.0	326.0	362.6	353.4	369.9	391.9	391.9	390.0	390.0
75°	256.4	263.7	271.0	287.5	326.0	315.0	326.0	346.1	349.8	346.1	346.1
77.5°	206.9	217.9	221.6	243.5	271.0	269.2	280.2	289.3	296.7	293.0	293.0
80°	146.5	157.5	172.1	195.9	212.4	217.9	223.4	230.7	234.4	234.4	238.1
82.5°	82.4	98.9	111.7	135.5	142.8	170.3	168.5	174.0	168.5	148.3	164.8
85°	18.3	34.8	49.4	62.3	71.4	98.9	104.4	117.2	97.1	89.7	89.7
87.5°	0.0	0.0	0.0	0.0	0.0	14.6	29.3	40.3	34.8	29.3	29.3
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°	8921.6	8921.6	8921.6	8921.6	8921.6	8921.6	8921.6	8921.6	8921.6	8921.6
2.5°	7786.2	7945.5	8137.8	8469.3	8701.8	8952.7	9205.4	9474.6	9546.0	9619.3
5°	6312.1	6625.3	6795.6	7240.5	7707.5	8300.8	8786.1	9317.1	9538.7	9590.0
7.5°	4781.2	4993.7	5440.5	5890.9	6469.6	7092.2	7835.7	8663.4	8921.6	9029.6
10°	3790.6	4079.9	4471.8	4955.2	5462.4	6132.7	6971.4	7938.2	8304.5	8364.9
12.5°	3226.6	3548.9	3975.5	4486.4	4966.2	5471.6	6317.6	7315.6	7707.5	7837.5
15°	2580.2	2970.2	3462.8	4001.2	4523.0	5076.1	5933.1	7059.2	7511.6	7663.5
17.5°	2027.1	2342.1	2875.0	3459.1	4078.1	4777.6	5852.5	7181.9	7738.6	7879.6
20°	1551.0	1776.3	2224.9	2842.0	3567.2	4482.8	5872.6	7645.2	8311.8	8504.1
22.5°	1340.4	1455.8	1728.6	2316.5	3127.7	4226.4	5955.0	8280.7	9084.5	9405.0
25°	1214.1	1274.5	1428.3	1812.9	2708.3	3977.4	6143.7	9135.8	10164.9	10377.4
27.5°	1106.0	1150.0	1245.2	1521.7	2327.4	3746.6	6363.4	10084.4	11173.9	11490.7
30°	1003.5	1062.1	1151.8	1351.4	2083.9	3536.0	6639.9	10853.5	12023.6	12318.4
32.5°	924.8	983.4	1065.8	1232.4	1877.0	3314.5	6804.7	11529.2	12717.6	12968.5
35°	860.7	910.1	996.2	1137.2	1719.5	3146.0	6771.8	12065.7	13389.7	13646.0
37.5°	814.9	857.0	943.1	1047.4	1600.5	2970.2	6755.3	12774.4	14208.2	14504.9
40°	772.8	816.7	895.5	988.8	1481.4	2763.3	6764.4	13477.6	15079.9	15376.5
42.5°	739.8	789.2	853.3	972.4	1358.7	2596.6	6764.4	14089.2	15838.0	16123.7
45°	712.3	765.4	827.7	970.5	1261.7	2470.3	6718.6	14614.7	16442.3	16685.8
47.5°	688.5	747.1	836.9	937.6	1237.9	2378.7	6678.4	15035.9	16934.9	17163.8
50°	672.0	741.6	890.0	899.1	1245.2	2351.3	6872.5	15567.0	17368.9	17566.6
52.5°	659.2	743.5	888.1	842.3	1232.4	2369.6	7277.2	16396.5	17971.3	17986.0
55°	633.6	741.6	842.3	778.3	1179.3	2400.7	7797.2	17601.4	18914.4	18925.4
57.5°	608.0	721.5	781.9	723.3	1071.2	2400.7	8423.5	18742.3	20051.6	20060.7
60°	582.3	750.8	686.7	675.7	930.2	2356.7	9084.5	19244.0	20408.6	20502.0
62.5°	556.7	756.3	613.4	633.6	827.7	2250.5	9577.1	18689.2	19925.2	20058.9
65°	527.4	609.8	565.8	589.6	774.6	2072.9	9421.5	17672.8	19016.9	19176.2
67.5°	492.6	516.4	514.6	543.9	756.3	1811.0	8601.1	16387.3	18039.1	18029.9
70°	450.5	463.3	468.8	499.9	721.5	1607.8	7167.3	14719.1	16733.4	16938.5
72.5°	406.5	417.5	423.0	450.5	686.7	1492.4	5563.2	12421.0	14493.9	14814.3
75°	358.9	366.2	373.6	397.4	650.1	1322.1	3962.7	9481.9	11100.7	11604.3
77.5°	309.5	309.5	318.6	342.4	547.5	1091.4	2658.9	6650.9	7520.7	8035.3
80°	250.9	252.7	249.0	274.7	402.9	747.1	1510.7	4442.5	5004.6	5103.5
82.5°	192.3	186.8	188.6	201.4	300.3	509.1	805.7	2759.6	2812.7	2757.8
85°	120.9	120.9	117.2	131.8	192.3	265.5	439.5	1690.2	1320.3	1256.2
87.5°	49.4	40.3	45.8	53.1	91.6	108.0	172.1	347.9	133.7	122.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)