

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: P456032

Luminaire Tested: **GALN-SA7B-730-U-SLL**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456032
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-SA7B-730-U-SLL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3000K, 800mA 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: 31113 lumens
Efficiency: N/A
Efficacy: 108.8 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

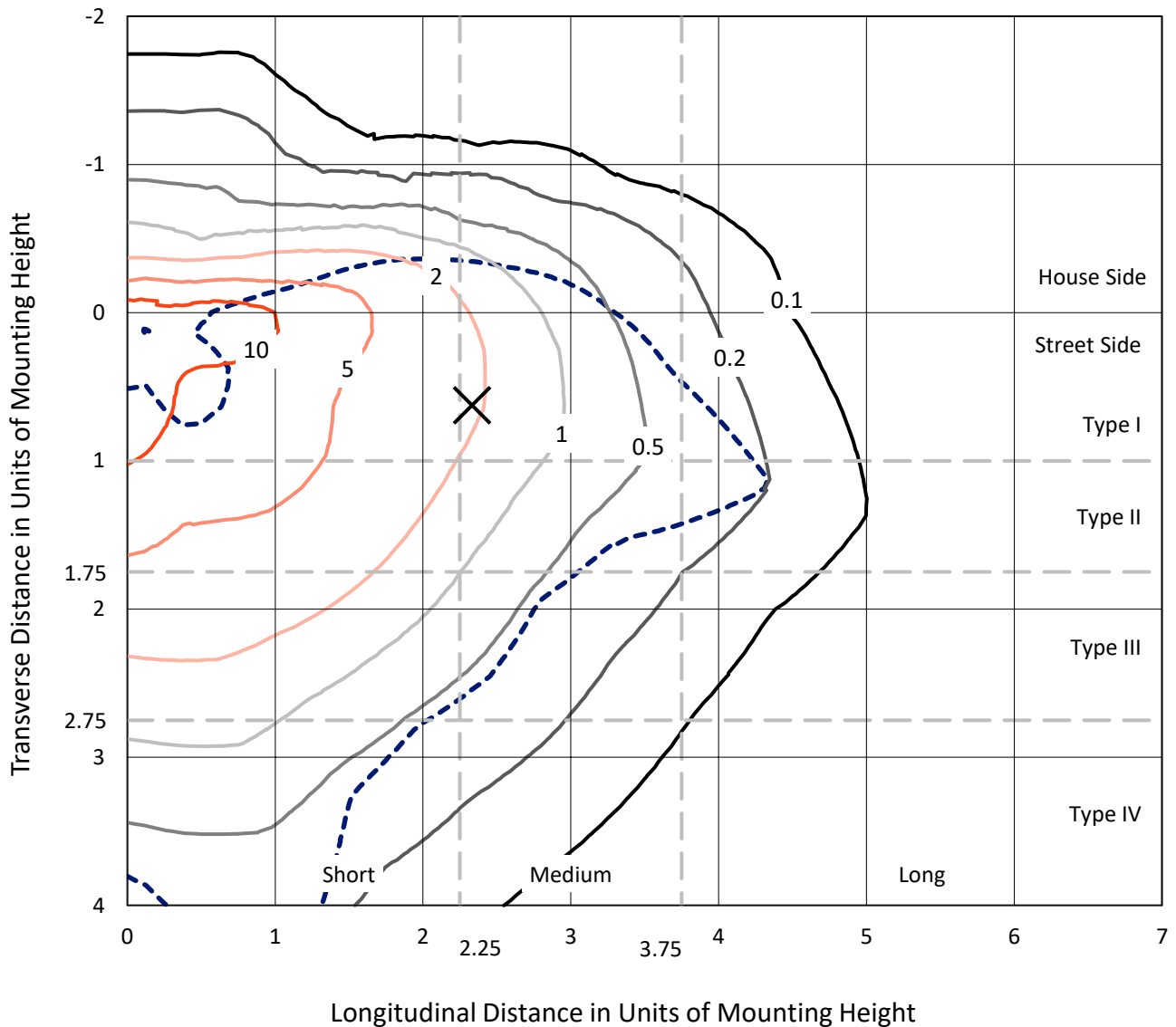
Input Watts (W): 286
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

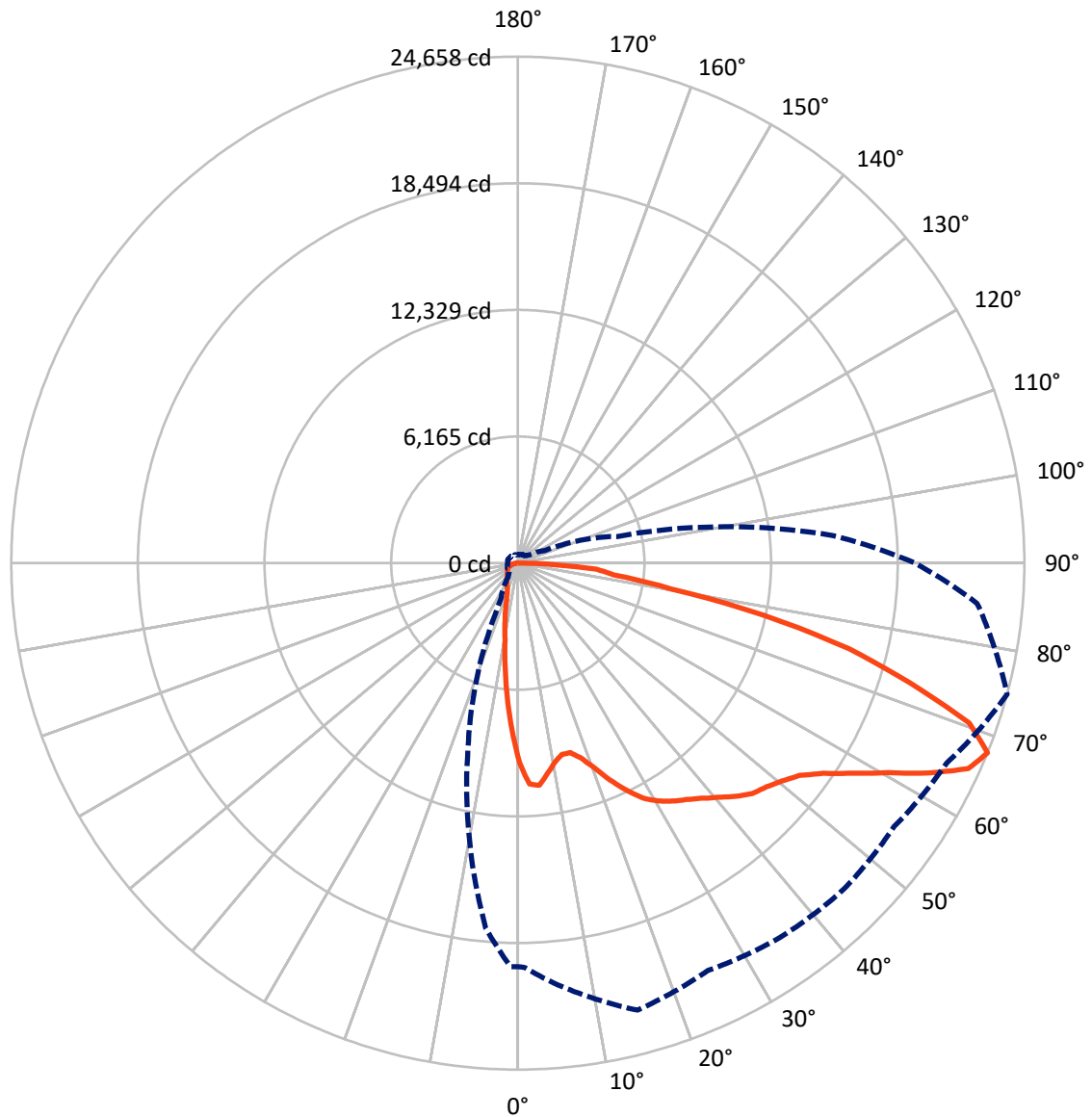
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 19.2 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	5258.8	0.0	5258.8
	% Fixture	16.9	0.0	16.9
Street Side	Lumens	25854.2	0.0	25854.2
	% Fixture	83.1	0.0	83.1
Total	Lumens	31113.0	0.0	31113.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	737.3	2.4
10°-20°	1537.6	4.9
20°-30°	2212.6	7.1
30°-40°	3186.8	10.2
40°-50°	4476.6	14.4
50°-60°	6243.3	20.1
60°-70°	7422.8	23.9
70°-80°	4371.6	14.1
80°-90°	924.4	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°	31113.0	100.0
0°-180°	31113.0	100.0

Coefficient of Utilization



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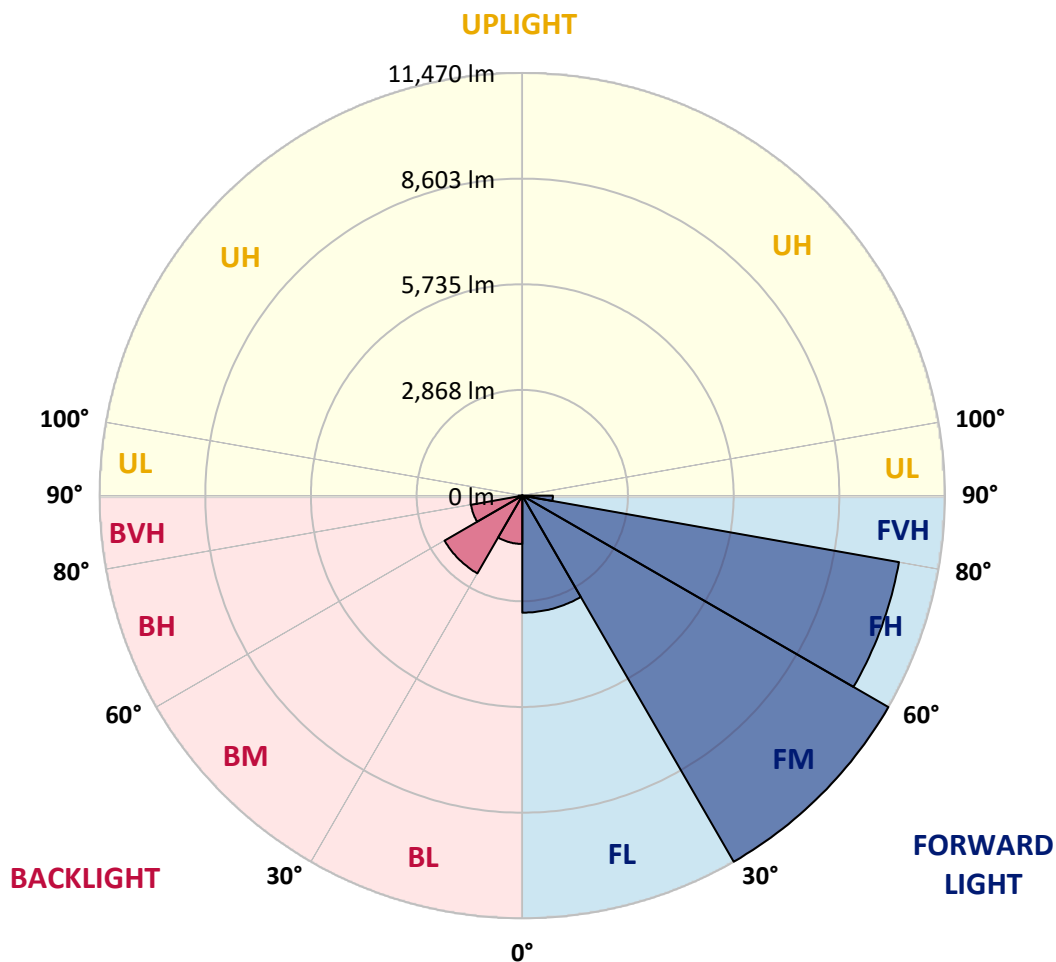
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3175.8	10.2			
FM	(30°-60°)	11470.2	36.9			
FH	(60°-80°)	10379.4	33.4			G4/12000
FVH	(80°-90°)	828.8	2.7			G5
BL	(0°-30°)	1311.7	4.2	B3/2500		
BM	(30°-60°)	2436.4	7.8	B2/2500		
BH	(60°-80°)	1415.0	4.5	B3/2500		G3/2500
BVH	(80°-90°)	95.6	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°	9720.4	9720.4	9720.4	9720.4	9720.4	9720.4	9720.4	9720.4	9720.4	9720.4	9720.4
2.5°	10480.6	10494.6	10584.3	10845.7	11025.3	11091.1	11137.0	11051.2	10967.4	10763.9	10456.7
5°	10448.7	10530.5	10763.9	11350.5	11813.4	12012.9	12072.7	11815.4	11390.4	10867.7	10239.2
7.5°	9838.2	9947.9	10307.0	11290.6	12106.7	12573.5	12511.7	12046.8	11280.7	10348.9	9471.0
10°	9113.9	9235.6	9668.6	10857.7	11909.1	12551.6	12551.6	11984.9	10967.4	9860.1	8848.6
12.5°	8539.3	8667.0	9161.8	10412.8	11498.1	12106.7	12208.4	11721.6	10742.0	9550.8	8439.5
15°	8349.8	8473.5	9006.2	10143.4	11063.2	11434.3	11468.2	11308.6	10632.2	9572.8	8421.6
17.5°	8585.2	8744.8	9283.5	10223.2	10664.1	10686.1	10712.0	10837.7	10644.2	9973.8	8784.7
20°	9265.5	9437.1	9999.8	10480.6	10315.0	10087.5	10101.5	10424.7	10785.9	10636.2	9652.6
22.5°	10247.2	10396.8	10973.4	10933.5	10167.4	9698.5	9600.7	10051.6	10995.3	11462.2	10576.4
25°	11306.6	11482.2	12144.6	11605.9	10209.3	9467.1	9405.2	9832.2	11212.8	12234.3	11643.8
27.5°	12519.7	12691.2	13214.0	12284.2	10428.7	9449.1	9375.3	9812.2	11408.3	12948.6	12663.3
30°	13421.5	13579.1	13934.2	12854.8	10698.1	9568.8	9477.0	9969.8	11575.9	13437.4	13656.9
32.5°	14129.7	14293.4	14486.9	13210.0	11053.2	9786.3	9616.7	10257.1	11795.4	13810.5	14393.1
35°	14868.0	15061.5	15047.5	13525.2	11384.4	10037.7	9872.1	10672.1	12140.6	14135.7	15326.8
37.5°	15803.7	15881.5	15781.7	13808.5	11781.4	10490.6	10398.8	11288.6	12631.4	14528.8	16418.2
40°	16753.4	16909.0	16396.3	14151.7	12264.3	11342.5	11332.5	12200.4	13214.0	14989.7	17475.6
42.5°	17567.4	17699.1	16970.9	14451.0	12848.9	12382.0	12457.8	13423.5	13978.1	15524.4	18325.6
45°	18179.9	18297.6	17501.6	14740.3	13619.0	13583.1	14030.0	14734.3	14941.8	16005.2	18824.4
47.5°	18700.7	18814.4	17870.7	15179.2	14570.7	15017.6	15795.7	16101.0	15765.8	16280.5	19383.0
50°	19139.6	19173.5	18124.1	15701.9	15751.8	16775.3	17529.5	17727.0	16579.8	16675.6	19867.8
52.5°	19596.5	19552.6	18561.0	16360.3	17028.7	18443.3	18992.0	19197.5	17359.9	17162.4	20574.1
55°	20620.0	20661.9	19540.6	17190.3	18319.6	20081.3	20803.6	20606.1	18223.8	18058.2	21472.0
57.5°	21857.0	21821.1	20919.3	18489.2	19634.4	21605.6	22144.3	21827.1	19377.0	19289.2	22381.7
60°	22337.9	22385.7	22072.5	19885.8	20931.3	22940.4	23491.1	22998.3	20759.7	20719.8	23068.1
62.5°	21855.0	22124.4	22335.9	21128.8	22036.6	23922.0	24468.7	23906.1	22202.2	22491.5	23548.9
65°	20893.4	20951.2	21671.5	22182.2	22569.3	24083.6	24368.9	24069.7	23407.3	24105.6	23527.0
67.5°	19644.4	19694.3	20538.2	22527.4	21883.0	22248.1	22447.6	22359.8	23034.2	24658.2	22443.6
70°	18455.3	18415.4	19307.2	21647.5	19049.8	18495.2	18660.8	18385.4	19875.8	23307.5	20318.7
72.5°	16140.9	16284.5	17242.2	19201.5	15083.4	14181.6	14542.7	13830.5	15286.9	19961.6	16492.0
75°	12643.4	12677.3	14275.4	16114.9	11378.4	9955.9	10444.7	10147.4	11709.6	16651.6	11388.4
77.5°	8754.8	8679.0	10396.8	12308.2	8114.3	7288.3	7296.3	7154.7	8176.2	12260.3	7737.2
80°	5560.5	5444.8	6508.2	7603.6	5576.5	5965.5	5770.0	5764.0	5323.1	7563.7	4678.7
82.5°	3004.7	3132.4	4112.0	4766.4	4000.3	4610.8	4225.8	4102.1	3653.1	4734.5	2992.7
85°	1368.7	1488.4	2192.7	3242.1	3038.6	3072.6	2053.0	2422.1	3022.7	3844.7	1598.1
87.5°	133.7	171.6	452.9	1530.3	1037.5	818.0	305.3	588.6	760.2	1366.7	127.7
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	9720.4	9720.4	9720.4	9720.4	9720.4	9720.4	9720.4	9720.4	9720.4	9720.4	9720.4
2.5°	10331.0	10227.2	9874.1	9582.8	9273.5	9038.1	8730.8	8525.3	8383.7	8170.2	8144.3
5°	9856.1	9602.7	8988.2	8361.7	7821.0	7414.0	7001.0	6621.9	6398.5	6328.7	6238.9
7.5°	9056.0	8629.1	7839.0	7120.7	6500.2	5893.7	5426.8	5095.6	4874.2	4744.5	4588.9
10°	8397.6	7902.8	6941.2	6061.3	5550.5	5173.5	4762.5	4407.3	4134.0	3900.5	3772.9
12.5°	7954.7	7396.1	6314.7	5600.4	5205.4	4804.4	4323.5	3924.5	3521.5	3256.1	3142.4
15°	7821.0	7230.5	6121.2	5371.0	4804.4	4279.6	3740.9	3220.2	2821.2	2569.8	2486.0
17.5°	8148.2	7434.0	6119.2	5065.7	4333.5	3707.0	3016.7	2527.9	2118.9	1931.3	1871.5
20°	8758.8	7825.0	6137.1	4764.5	3822.7	2940.9	2194.7	1793.7	1598.1	1518.3	1488.4
22.5°	9610.7	8421.6	6191.0	4467.2	3264.1	2258.5	1644.0	1440.5	1370.7	1356.7	1350.7
25°	10660.2	9159.8	6372.6	4199.8	2793.2	1723.8	1374.7	1282.9	1243.0	1229.0	1227.0
27.5°	11625.8	10113.5	6592.0	3970.4	2338.3	1486.4	1243.0	1165.2	1125.3	1123.3	1127.3
30°	12497.7	10911.6	6775.6	3713.0	1993.2	1320.8	1157.2	1079.4	1041.5	1039.5	1051.5
32.5°	13251.9	11568.0	6911.2	3459.6	1801.6	1219.0	1079.4	995.6	963.7	957.7	963.7
35°	14057.9	12222.4	6849.4	3262.1	1691.9	1135.2	1021.5	939.7	901.8	883.9	883.9
37.5°	14977.7	12896.7	6743.7	3098.5	1642.0	1065.4	971.6	891.8	853.9	836.0	834.0
40°	15981.3	13571.1	6598.0	2952.8	1592.1	1023.5	937.7	853.9	808.0	790.1	786.1
42.5°	16867.1	14147.7	6478.3	2857.1	1510.3	1031.5	907.8	826.0	768.1	744.2	742.2
45°	17637.2	14728.3	6456.3	2801.2	1442.5	1019.5	899.8	804.1	736.2	710.3	706.3
47.5°	18239.8	15332.8	6582.0	2769.3	1368.7	955.7	951.7	790.1	708.3	680.4	676.4
50°	18974.0	16190.8	6869.3	2703.4	1300.8	895.8	1005.6	788.1	686.3	650.4	640.4
52.5°	19951.6	17308.0	7258.4	2585.7	1203.1	840.0	959.7	788.1	660.4	624.5	612.5
55°	21430.1	18732.6	7639.5	2420.1	1065.4	766.1	865.9	764.1	622.5	590.6	582.6
57.5°	22409.7	19774.1	7882.9	2190.7	893.8	712.3	746.2	726.2	584.6	550.7	550.7
60°	22459.6	20053.4	7767.2	1901.4	786.1	662.4	648.4	732.2	550.7	514.8	510.8
62.5°	21885.0	19369.0	7164.6	1642.0	728.2	608.5	586.6	642.4	516.7	480.8	474.8
65°	20987.1	17623.3	6119.2	1518.3	696.3	560.6	528.7	526.7	480.8	446.9	438.9
67.5°	19337.1	15400.7	5027.8	1446.5	680.4	506.8	476.8	466.9	438.9	411.0	407.0
70°	16905.0	12898.7	4032.2	1416.6	672.4	450.9	427.0	415.0	391.1	369.1	367.1
72.5°	13152.1	10462.6	3327.9	1396.6	668.4	399.0	373.1	357.1	343.2	323.2	323.2
75°	9447.1	7697.3	2539.8	1258.9	618.5	343.2	315.2	305.3	285.3	269.3	273.3
77.5°	5955.6	5183.4	1671.9	925.8	478.8	275.3	251.4	245.4	229.4	207.5	221.5
80°	4022.2	3645.2	975.6	582.6	301.3	201.5	193.5	191.5	173.6	149.6	151.6
82.5°	2737.4	2685.5	506.8	331.2	173.6	117.7	113.7	117.7	97.8	79.8	79.8
85°	1069.4	1460.5	239.4	129.7	55.9	18.0	25.9	27.9	16.0	8.0	10.0
87.5°	20.0	149.6	6.0	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):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	9720.4	9720.4	9720.4	9720.4	9720.4	9720.4	9720.4	9720.4	9720.4	9720.4	9720.4
2.5°	8104.4	8086.4	8116.3	7988.6	8014.6	8062.5	8086.4	8100.4	8297.9	8252.0	8377.7
5°	6322.7	6304.7	6420.4	6436.4	6496.3	6484.3	6542.1	6556.1	6627.9	6653.9	6829.4
7.5°	4598.9	4676.7	4808.3	4876.2	4977.9	5009.9	4979.9	5053.7	4904.1	5011.9	5043.8
10°	3695.0	3601.3	3545.4	3701.0	3721.0	3868.6	3808.8	3760.9	3848.7	3852.7	3936.5
12.5°	3076.5	2875.0	2741.4	2785.2	2833.1	2897.0	2907.0	3002.7	3066.6	3126.4	3176.3
15°	2412.2	2342.3	2220.6	2160.8	2228.6	2254.5	2316.4	2396.2	2464.0	2482.0	2549.8
17.5°	1851.5	1863.5	1843.5	1807.6	1849.5	1869.5	1873.5	1875.5	1893.4	1881.4	1981.2
20°	1490.4	1532.3	1582.2	1590.1	1604.1	1614.1	1596.1	1528.3	1530.3	1572.2	1604.1
22.5°	1348.7	1356.7	1412.6	1430.5	1474.4	1456.5	1404.6	1372.7	1368.7	1378.7	1394.6
25°	1237.0	1249.0	1288.9	1316.8	1350.7	1318.8	1280.9	1251.0	1247.0	1257.0	1272.9
27.5°	1137.2	1155.2	1191.1	1219.0	1251.0	1221.0	1185.1	1159.2	1157.2	1155.2	1165.2
30°	1057.4	1077.4	1103.3	1135.2	1157.2	1131.3	1097.3	1083.4	1081.4	1077.4	1081.4
32.5°	977.6	1009.6	1035.5	1051.5	1073.4	1053.4	1027.5	1019.5	1005.6	993.6	987.6
35°	887.8	921.8	961.7	981.6	1003.6	983.6	965.7	931.7	907.8	905.8	909.8
37.5°	836.0	849.9	881.9	915.8	937.7	927.8	893.8	859.9	853.9	853.9	857.9
40°	790.1	796.1	810.0	853.9	893.8	863.9	822.0	812.0	812.0	810.0	812.0
42.5°	744.2	750.2	750.2	784.1	847.9	800.1	768.1	768.1	768.1	770.1	776.1
45°	702.3	704.3	702.3	726.2	786.1	746.2	724.2	730.2	734.2	738.2	742.2
47.5°	666.4	668.4	666.4	686.3	716.3	700.3	688.3	696.3	704.3	710.3	714.3
50°	634.5	632.5	636.5	648.4	662.4	666.4	658.4	670.4	674.4	682.3	692.3
52.5°	606.5	604.5	608.5	614.5	634.5	634.5	634.5	644.4	652.4	660.4	674.4
55°	574.6	576.6	582.6	590.6	616.5	612.5	614.5	622.5	630.5	642.4	650.4
57.5°	544.7	548.7	556.7	568.6	594.6	592.6	594.6	598.5	608.5	614.5	622.5
60°	510.8	518.7	528.7	536.7	562.6	560.6	570.6	578.6	584.6	584.6	588.6
62.5°	476.8	488.8	498.8	504.8	532.7	534.7	548.7	554.7	558.6	554.7	560.6
65°	442.9	460.9	464.9	472.9	500.8	502.8	518.7	532.7	528.7	524.7	534.7
67.5°	409.0	431.0	429.0	438.9	466.9	470.9	484.8	508.8	500.8	496.8	504.8
70°	371.1	387.1	389.1	395.0	433.0	427.0	448.9	470.9	464.9	466.9	466.9
72.5°	329.2	343.2	343.2	355.1	395.0	385.1	403.0	427.0	427.0	425.0	425.0
75°	279.3	287.3	295.3	313.2	355.1	343.2	355.1	377.1	381.1	377.1	377.1
77.5°	225.5	237.4	241.4	265.4	295.3	293.3	305.3	315.2	323.2	319.2	319.2
80°	159.6	171.6	187.5	213.5	231.4	237.4	243.4	251.4	255.4	255.4	259.4
82.5°	89.8	107.7	121.7	147.6	155.6	185.6	183.6	189.5	183.6	161.6	179.6
85°	20.0	37.9	53.9	67.8	77.8	107.7	113.7	127.7	105.7	97.8	97.8
87.5°	0.0	0.0	0.0	0.0	0.0	16.0	31.9	43.9	37.9	31.9	31.9
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°	9720.4	9720.4	9720.4	9720.4	9720.4	9720.4	9720.4	9720.4	9720.4	9720.4
2.5°	8483.4	8657.0	8866.5	9227.6	9481.0	9754.4	10029.7	10323.0	10400.8	10480.6
5°	6877.3	7218.5	7404.1	7888.9	8397.6	9044.1	9572.8	10151.4	10392.8	10448.7
7.5°	5209.4	5440.8	5927.6	6418.4	7048.9	7727.3	8537.3	9439.1	9720.4	9838.2
10°	4130.0	4445.2	4872.2	5398.9	5951.6	6681.8	7595.6	8649.0	9048.1	9113.9
12.5°	3515.5	3866.6	4331.5	4888.2	5410.9	5961.5	6883.3	7970.7	8397.6	8539.3
15°	2811.2	3236.2	3772.9	4359.4	4928.1	5530.6	6464.3	7691.4	8184.2	8349.8
17.5°	2208.6	2551.8	3132.4	3768.9	4443.2	5205.4	6376.5	7825.0	8431.6	8585.2
20°	1689.9	1935.3	2424.1	3096.5	3886.6	4884.2	6398.5	8329.8	9056.0	9265.5
22.5°	1460.5	1586.2	1883.4	2523.9	3407.7	4604.8	6488.3	9022.1	9898.0	10247.2
25°	1322.8	1388.6	1556.2	1975.2	2950.8	4333.5	6693.8	9953.9	11075.2	11306.6
27.5°	1205.1	1253.0	1356.7	1658.0	2535.9	4082.1	6933.2	10987.4	12174.5	12519.7
30°	1093.3	1157.2	1255.0	1472.4	2270.5	3852.7	7234.5	11825.3	13100.2	13421.5
32.5°	1007.6	1071.4	1161.2	1342.7	2045.0	3611.2	7414.0	12561.6	13856.4	14129.7
35°	937.7	991.6	1085.4	1239.0	1873.5	3427.7	7378.1	13146.1	14588.6	14868.0
37.5°	887.8	933.7	1027.5	1141.2	1743.8	3236.2	7360.2	13918.3	15480.5	15803.7
40°	842.0	889.8	975.6	1077.4	1614.1	3010.7	7370.1	14684.4	16430.2	16753.4
42.5°	806.0	859.9	929.7	1059.4	1480.4	2829.1	7370.1	15350.8	17256.2	17567.4
45°	776.1	834.0	901.8	1057.4	1374.7	2691.5	7320.3	15923.4	17914.6	18179.9
47.5°	750.2	814.0	911.8	1021.5	1348.7	2591.7	7276.4	16382.3	18451.3	18700.7
50°	732.2	808.0	969.6	979.6	1356.7	2561.8	7487.8	16960.9	18924.1	19139.6
52.5°	718.3	810.0	967.7	917.8	1342.7	2581.7	7928.8	17864.7	19580.5	19596.5
55°	690.3	808.0	917.8	847.9	1284.9	2615.7	8495.4	19177.5	20608.0	20620.0
57.5°	662.4	786.1	851.9	788.1	1167.2	2615.7	9177.8	20420.5	21847.0	21857.0
60°	634.5	818.0	748.2	736.2	1013.5	2567.8	9898.0	20967.2	22236.1	22337.9
62.5°	606.5	824.0	668.4	690.3	901.8	2452.1	10434.7	20362.6	21709.4	21855.0
65°	574.6	664.4	616.5	642.4	844.0	2258.5	10265.1	19255.3	20719.8	20893.4
67.5°	536.7	562.6	560.6	592.6	824.0	1973.2	9371.3	17854.7	19654.4	19644.4
70°	490.8	504.8	510.8	544.7	786.1	1751.8	7809.1	16037.1	18231.8	18455.3
72.5°	442.9	454.9	460.9	490.8	748.2	1626.1	6061.3	13533.2	15791.7	16140.9
75°	391.1	399.0	407.0	433.0	708.3	1440.5	4317.5	10331.0	12094.7	12643.4
77.5°	337.2	337.2	347.2	373.1	596.6	1189.1	2897.0	7246.4	8194.1	8754.8
80°	273.3	275.3	271.3	299.3	438.9	814.0	1646.0	4840.3	5452.8	5560.5
82.5°	209.5	203.5	205.5	219.5	327.2	554.7	877.9	3006.7	3064.6	3004.7
85°	131.7	131.7	127.7	143.7	209.5	289.3	478.8	1841.5	1438.5	1368.7
87.5°	53.9	43.9	49.9	57.9	99.8	117.7	187.5	379.1	145.6	133.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)