

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: P459077

Luminaire Tested: **GALN-SA5D-735-U-SLL**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P459077
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-SA5D-735-U-SLL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3500K, 1200mA 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: 31108 lumens
Efficiency: N/A
Efficacy: 100.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

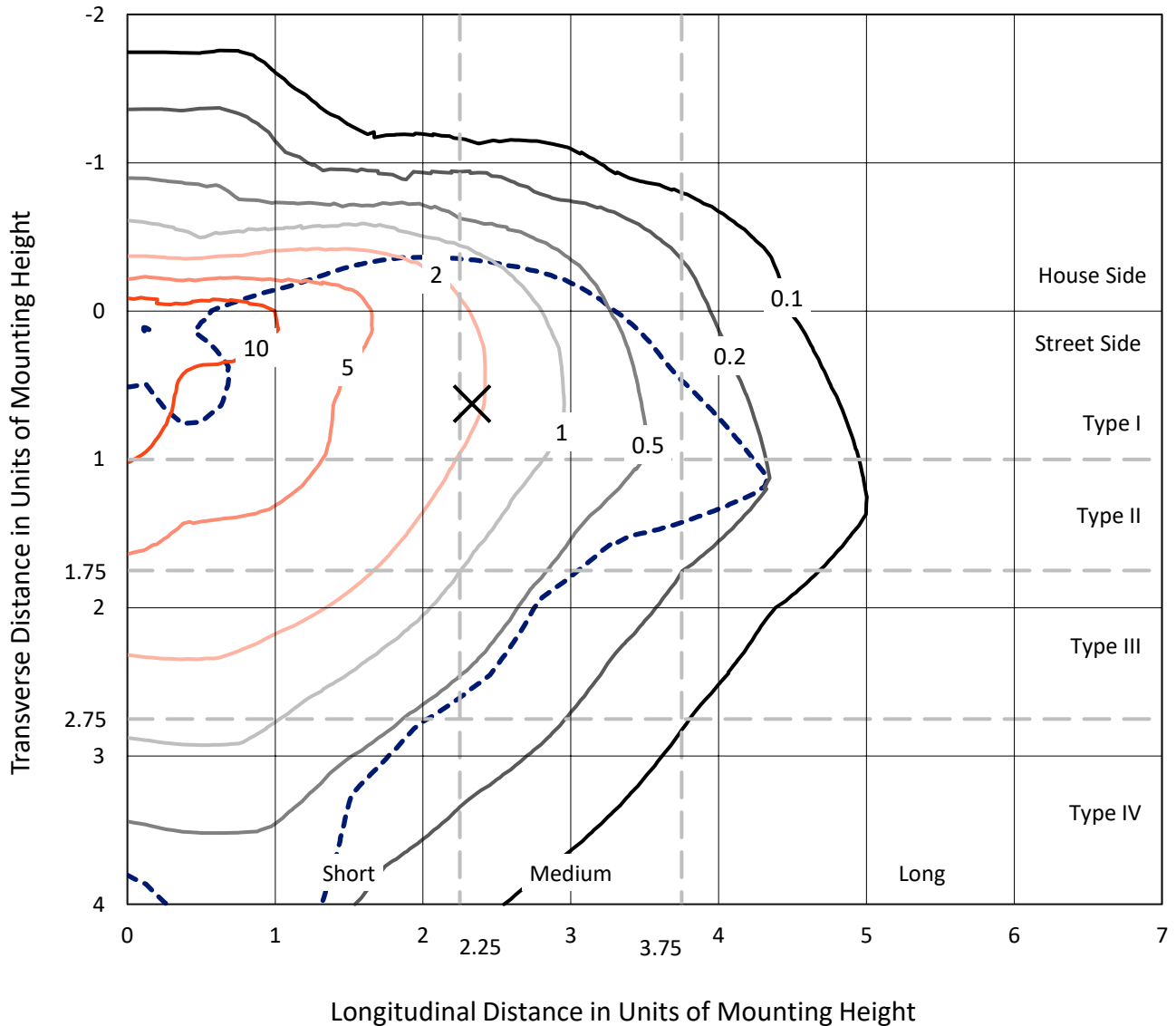
Input Watts (W): 309
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

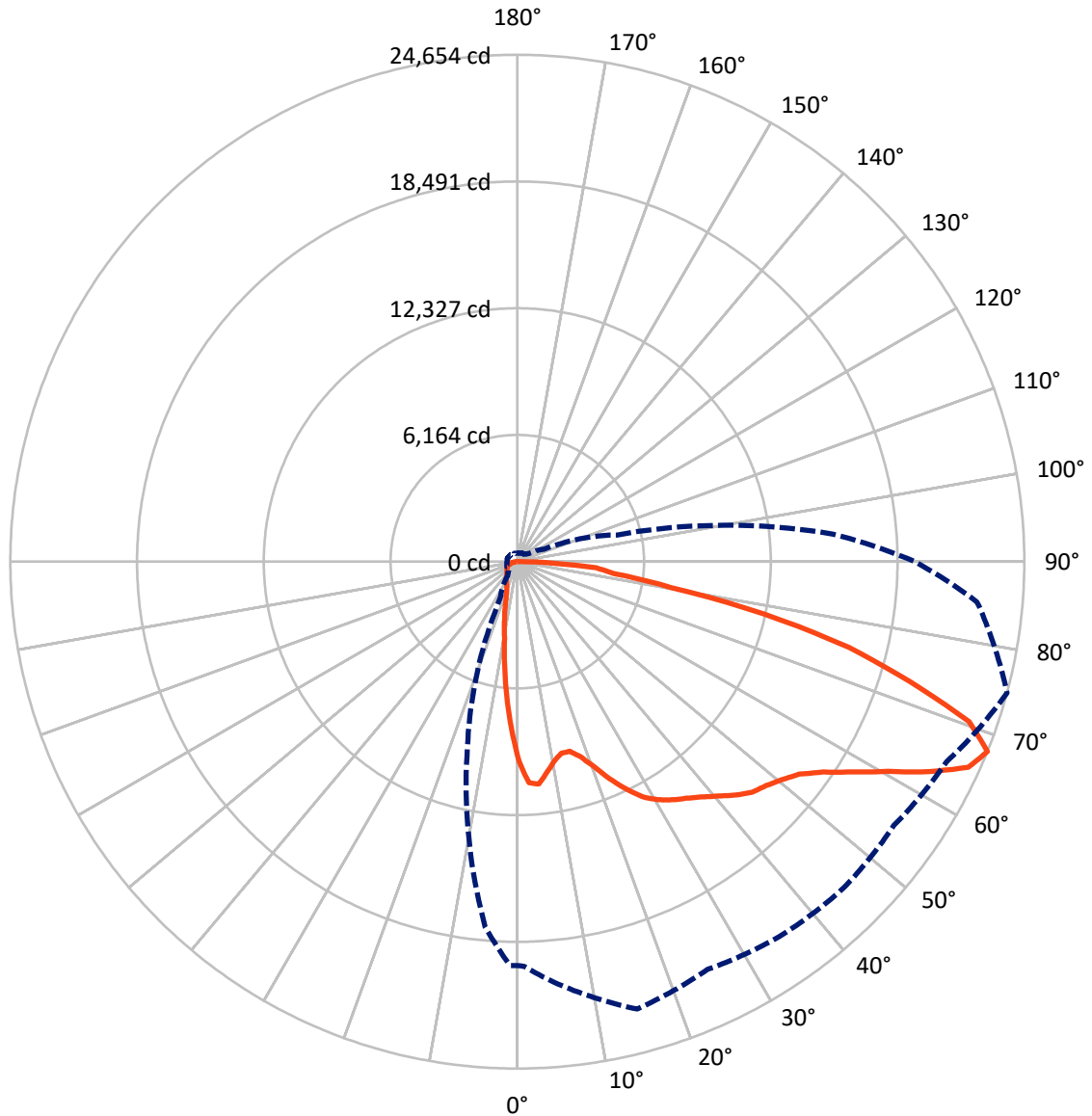
✕ Max cd
 - - - 1/2 Max cd



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	5257.9	0.0	5257.9
	% Fixture	16.9	0.0	16.9
Street Side	Lumens	25850.1	0.0	25850.1
	% Fixture	83.1	0.0	83.1
Total	Lumens	31108.0	0.0	31108.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	737.2	2.4
10°-20°	1537.3	4.9
20°-30°	2212.3	7.1
30°-40°	3186.3	10.2
40°-50°	4475.9	14.4
50°-60°	6242.2	20.1
60°-70°	7421.6	23.9
70°-80°	4370.9	14.1
80°-90°	924.3	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°	31108.0	100.0
0°-180°	31108.0	100.0

Coefficient of Utilization



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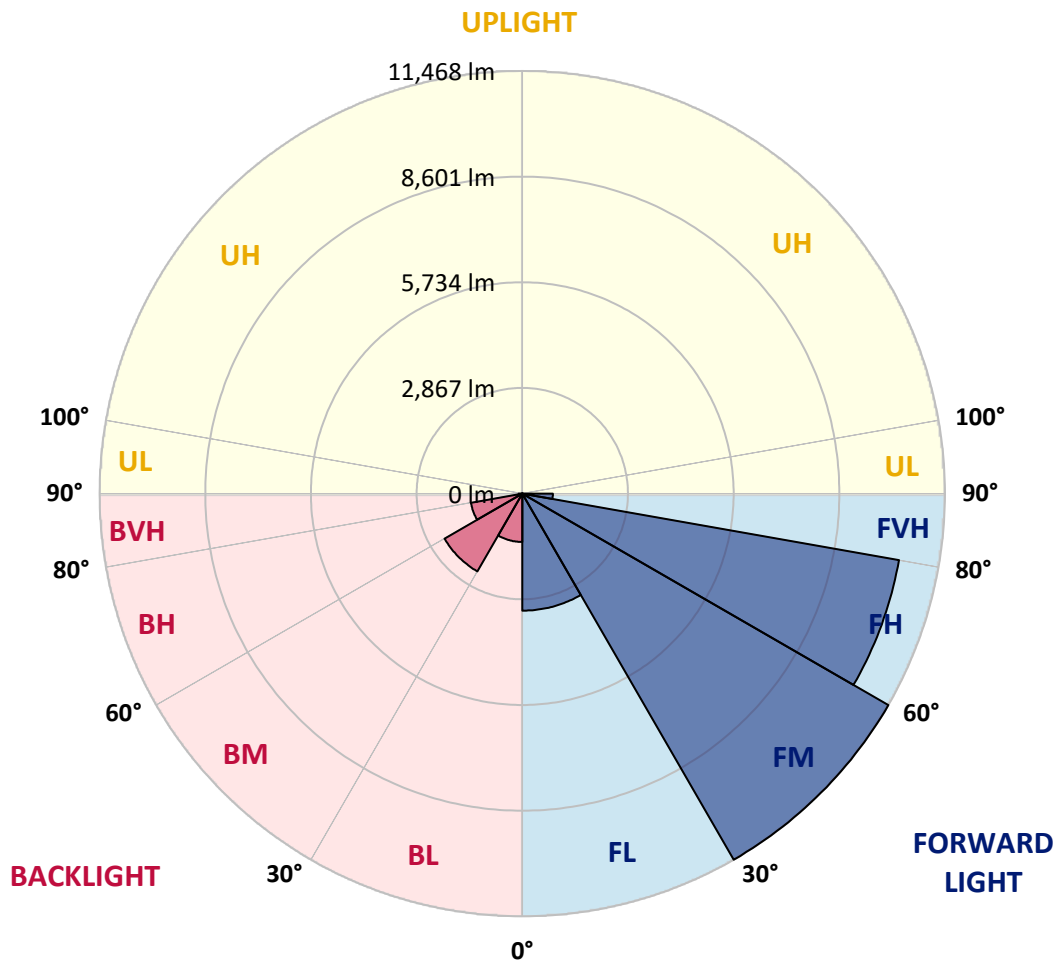
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3175.3	10.2			
FM	(30°-60°)	11468.4	36.9			
FH	(60°-80°)	10377.8	33.4			G4/12000
FVH	(80°-90°)	828.7	2.7			G5
BL	(0°-30°)	1311.5	4.2	B3/2500		
BM	(30°-60°)	2436.0	7.8	B2/2500		
BH	(60°-80°)	1414.8	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°	9718.9	9718.9	9718.9	9718.9	9718.9	9718.9	9718.9	9718.9	9718.9	9718.9	9718.9
2.5°	10478.9	10492.9	10582.6	10844.0	11023.5	11089.3	11135.2	11049.4	10965.7	10762.2	10455.0
5°	10447.0	10528.8	10762.2	11348.7	11811.5	12011.0	12070.8	11813.5	11388.6	10865.9	10237.5
7.5°	9836.6	9946.3	10305.4	11288.8	12104.7	12571.5	12509.7	12044.9	11278.8	10347.3	9469.5
10°	9112.4	9234.1	9667.0	10855.9	11907.2	12549.6	12549.6	11983.0	10965.7	9858.5	8847.1
12.5°	8537.9	8665.6	9160.3	10411.1	11496.3	12104.7	12206.4	11719.7	10740.2	9549.3	8438.2
15°	8348.4	8472.1	9004.7	10141.8	11061.4	11432.4	11466.4	11306.8	10630.5	9571.3	8420.2
17.5°	8583.8	8743.4	9282.0	10221.6	10662.4	10684.4	10710.3	10836.0	10642.5	9972.2	8783.3
20°	9264.1	9435.6	9998.2	10478.9	10313.3	10085.9	10099.9	10423.1	10784.1	10634.5	9651.1
22.5°	10245.5	10395.1	10971.6	10931.7	10165.7	9696.9	9599.2	10050.0	10993.6	11460.4	10574.7
25°	11304.8	11480.3	12142.6	11604.0	10207.6	9465.5	9403.7	9830.6	11211.0	12232.4	11641.9
27.5°	12517.6	12689.2	13211.8	12282.2	10427.0	9447.6	9373.8	9810.6	11406.5	12946.5	12661.3
30°	13419.3	13576.9	13932.0	12852.8	10696.3	9567.3	9475.5	9968.2	11574.1	13435.3	13654.7
32.5°	14127.5	14291.1	14484.6	13207.9	11051.4	9784.7	9615.1	10255.5	11793.5	13808.3	14390.8
35°	14865.6	15059.1	15045.1	13523.0	11382.6	10036.1	9870.5	10670.4	12138.6	14133.5	15324.4
37.5°	15801.2	15879.0	15779.2	13806.3	11779.5	10488.9	10397.1	11286.8	12629.4	14526.4	16415.6
40°	16750.7	16906.3	16393.6	14149.4	12262.3	11340.7	11330.7	12198.5	13211.8	14987.3	17472.8
42.5°	17564.6	17696.3	16968.1	14448.6	12846.8	12380.0	12455.8	13421.3	13975.9	15521.9	18322.6
45°	18177.0	18294.7	17498.8	14737.9	13616.8	13580.9	14027.7	14731.9	14939.4	16002.6	18821.3
47.5°	18697.7	18811.4	17867.8	15176.8	14568.3	15015.2	15793.2	16098.4	15763.2	16277.9	19379.9
50°	19136.5	19170.4	18121.2	15699.4	15749.3	16772.6	17526.7	17724.2	16577.1	16672.9	19864.6
52.5°	19593.3	19549.5	18558.0	16357.7	17026.0	18440.3	18988.9	19194.4	17357.1	17159.6	20570.8
55°	20616.7	20658.6	19537.5	17187.6	18316.6	20078.1	20800.2	20602.7	18220.9	18055.3	21468.5
57.5°	21853.5	21817.6	20915.9	18486.2	19631.3	21602.2	22140.8	21823.6	19373.9	19286.1	22378.1
60°	22334.3	22382.1	22068.9	19882.6	20927.9	22936.7	23487.3	22994.6	20756.3	20716.4	23064.4
62.5°	21851.5	22120.8	22332.3	21125.4	22033.0	23918.2	24464.8	23902.2	22198.6	22487.9	23545.1
65°	20890.0	20947.8	21668.0	22178.7	22565.7	24079.8	24365.0	24065.8	23403.5	24101.7	23523.2
67.5°	19641.2	19691.1	20534.9	22523.8	21879.4	22244.5	22444.0	22356.2	23030.5	24654.3	22440.0
70°	18452.3	18412.4	19304.1	21644.0	19046.8	18492.2	18657.8	18382.5	19872.6	23303.8	20315.5
72.5°	16138.3	16281.9	17239.4	19198.4	15081.0	14179.3	14540.4	13828.3	15284.5	19958.4	16489.4
75°	12641.3	12675.2	14273.1	16112.3	11376.6	9954.3	10443.0	10145.8	11707.7	16649.0	11386.6
77.5°	8753.4	8677.6	10395.1	12306.2	8113.0	7287.2	7295.1	7153.5	8174.9	12258.3	7736.0
80°	5559.6	5443.9	6507.2	7602.3	5575.6	5964.6	5769.1	5763.1	5322.2	7562.5	4677.9
82.5°	3004.2	3131.9	4111.4	4765.7	3999.7	4610.1	4225.1	4101.4	3652.6	4733.8	2992.3
85°	1368.5	1488.2	2192.3	3241.6	3038.1	3072.1	2052.7	2421.7	3022.2	3844.1	1597.9
87.5°	133.7	171.6	452.8	1530.0	1037.3	817.9	305.2	588.5	760.0	1366.5	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°	9718.9	9718.9	9718.9	9718.9	9718.9	9718.9	9718.9	9718.9	9718.9	9718.9	9718.9
2.5°	10329.3	10225.6	9872.5	9581.2	9272.0	9036.6	8729.4	8524.0	8382.3	8168.9	8142.9
5°	9854.5	9601.2	8986.8	8360.4	7819.8	7412.8	6999.9	6620.9	6397.5	6327.6	6237.9
7.5°	9054.6	8627.7	7837.7	7119.6	6499.2	5892.8	5426.0	5094.8	4873.4	4743.7	4588.1
10°	8396.3	7901.6	6940.1	6060.3	5549.7	5172.6	4761.7	4406.6	4133.3	3899.9	3772.2
12.5°	7953.4	7394.9	6313.7	5599.5	5204.5	4803.6	4322.8	3923.9	3520.9	3255.6	3141.9
15°	7819.8	7229.3	6120.2	5370.1	4803.6	4278.9	3740.3	3219.7	2820.7	2569.4	2485.6
17.5°	8146.9	7432.8	6118.2	5064.9	4332.8	3706.4	3016.2	2527.5	2118.5	1931.0	1871.2
20°	8757.4	7823.8	6136.1	4763.7	3822.1	2940.4	2194.3	1793.4	1597.9	1518.1	1488.2
22.5°	9609.2	8420.2	6190.0	4466.5	3263.6	2258.2	1643.8	1440.3	1370.5	1356.5	1350.5
25°	10658.4	9158.3	6371.5	4199.1	2792.8	1723.5	1374.4	1282.7	1242.8	1228.8	1226.8
27.5°	11624.0	10111.9	6591.0	3969.7	2338.0	1486.2	1242.8	1165.0	1125.1	1123.1	1127.1
30°	12495.7	10909.8	6774.5	3712.4	1992.8	1320.6	1157.0	1079.2	1041.3	1039.3	1051.3
32.5°	13249.7	11566.1	6910.1	3459.1	1801.3	1218.8	1079.2	995.4	963.5	957.5	963.5
35°	14055.7	12220.4	6848.3	3261.6	1691.6	1135.1	1021.4	939.6	901.7	883.7	883.7
37.5°	14975.3	12894.7	6742.6	3098.0	1641.8	1065.2	971.5	891.7	853.8	835.8	833.8
40°	15978.7	13568.9	6596.9	2952.4	1591.9	1023.4	937.6	853.8	807.9	790.0	786.0
42.5°	16864.4	14145.4	6477.3	2856.6	1510.1	1031.3	907.7	825.9	768.0	744.1	742.1
45°	17634.4	14725.9	6455.3	2800.8	1442.3	1019.4	899.7	803.9	736.1	710.2	706.2
47.5°	18236.9	15330.4	6581.0	2768.8	1368.5	955.5	951.5	790.0	708.2	680.2	676.3
50°	18971.0	16188.2	6868.2	2703.0	1300.6	895.7	1005.4	788.0	686.2	650.3	640.3
52.5°	19948.4	17305.3	7257.2	2585.3	1202.9	839.8	959.5	788.0	660.3	624.4	612.4
55°	21426.6	18729.6	7638.3	2419.7	1065.2	766.0	865.8	764.0	622.4	590.5	582.5
57.5°	22406.1	19770.9	7881.6	2190.3	893.7	712.2	746.1	726.1	584.5	550.6	550.6
60°	22455.9	20050.2	7765.9	1901.1	786.0	662.3	648.3	732.1	550.6	514.7	510.7
62.5°	21881.4	19365.9	7163.5	1641.8	728.1	608.4	586.5	642.3	516.7	480.8	474.8
65°	20983.8	17620.4	6118.2	1518.1	696.2	560.6	528.6	526.6	480.8	446.8	438.9
67.5°	19334.0	15398.2	5027.0	1446.3	680.2	506.7	476.8	466.8	438.9	410.9	406.9
70°	16902.3	12896.7	4031.6	1416.3	672.3	450.8	426.9	414.9	391.0	369.0	367.1
72.5°	13150.0	10461.0	3327.4	1396.4	668.3	399.0	373.0	357.1	343.1	323.2	323.2
75°	9445.6	7696.1	2539.4	1258.7	618.4	343.1	315.2	305.2	285.3	269.3	273.3
77.5°	5954.6	5182.6	1671.7	925.6	478.8	275.3	251.4	245.4	229.4	207.5	221.4
80°	4021.6	3644.6	975.5	582.5	301.2	201.5	193.5	191.5	173.6	149.6	151.6
82.5°	2736.9	2685.1	506.7	331.1	173.6	117.7	113.7	117.7	97.7	79.8	79.8
85°	1069.2	1460.2	239.4	129.7	55.9	18.0	25.9	27.9	16.0	8.0	10.0
87.5°	19.9	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°	9718.9	9718.9	9718.9	9718.9	9718.9	9718.9	9718.9	9718.9	9718.9	9718.9	9718.9
2.5°	8103.1	8085.1	8115.0	7987.4	8013.3	8061.2	8085.1	8099.1	8296.6	8250.7	8376.3
5°	6321.7	6303.7	6419.4	6435.4	6495.2	6483.2	6541.1	6555.1	6626.9	6652.8	6828.3
7.5°	4598.1	4675.9	4807.6	4875.4	4977.1	5009.1	4979.1	5052.9	4903.3	5011.0	5043.0
10°	3694.4	3600.7	3544.8	3700.4	3720.4	3868.0	3808.2	3760.3	3848.1	3852.0	3935.8
12.5°	3076.0	2874.6	2740.9	2784.8	2832.7	2896.5	2906.5	3002.2	3066.1	3125.9	3175.8
15°	2411.8	2341.9	2220.3	2160.4	2228.2	2254.2	2316.0	2395.8	2463.6	2481.6	2549.4
17.5°	1851.2	1863.2	1843.2	1807.3	1849.2	1869.2	1873.2	1875.2	1893.1	1881.1	1980.9
20°	1490.1	1532.0	1581.9	1589.9	1603.9	1613.8	1595.9	1528.0	1530.0	1571.9	1603.9
22.5°	1348.5	1356.5	1412.3	1430.3	1474.2	1456.2	1404.4	1372.5	1368.5	1378.4	1394.4
25°	1236.8	1248.8	1288.7	1316.6	1350.5	1318.6	1280.7	1250.8	1246.8	1256.8	1272.7
27.5°	1137.1	1155.0	1190.9	1218.8	1250.8	1220.8	1184.9	1159.0	1157.0	1155.0	1165.0
30°	1057.3	1077.2	1103.1	1135.1	1157.0	1131.1	1097.2	1083.2	1081.2	1077.2	1081.2
32.5°	977.5	1009.4	1035.3	1051.3	1073.2	1053.3	1027.3	1019.4	1005.4	993.4	987.4
35°	887.7	921.6	961.5	981.5	1003.4	983.5	965.5	931.6	907.7	905.7	909.6
37.5°	835.8	849.8	881.7	915.6	937.6	927.6	893.7	859.8	853.8	853.8	857.8
40°	790.0	795.9	809.9	853.8	893.7	863.8	821.9	811.9	811.9	809.9	811.9
42.5°	744.1	750.1	750.1	784.0	847.8	799.9	768.0	768.0	768.0	770.0	776.0
45°	702.2	704.2	702.2	726.1	786.0	746.1	724.1	730.1	734.1	738.1	742.1
47.5°	666.3	668.3	666.3	686.2	716.1	700.2	688.2	696.2	704.2	710.2	714.2
50°	634.4	632.4	636.4	648.3	662.3	666.3	658.3	670.3	674.3	682.2	692.2
52.5°	606.4	604.4	608.4	614.4	634.4	634.4	634.4	644.3	652.3	660.3	674.3
55°	574.5	576.5	582.5	590.5	616.4	612.4	614.4	622.4	630.4	642.3	650.3
57.5°	544.6	548.6	556.6	568.5	594.5	592.5	594.5	598.5	608.4	614.4	622.4
60°	510.7	518.7	528.6	536.6	562.5	560.6	570.5	578.5	584.5	584.5	588.5
62.5°	476.8	488.7	498.7	504.7	532.6	534.6	548.6	554.6	558.6	554.6	560.6
65°	442.9	460.8	464.8	472.8	500.7	502.7	518.7	532.6	528.6	524.6	534.6
67.5°	408.9	430.9	428.9	438.9	466.8	470.8	484.7	508.7	500.7	496.7	504.7
70°	371.0	387.0	389.0	395.0	432.9	426.9	448.8	470.8	464.8	466.8	466.8
72.5°	329.1	343.1	343.1	355.1	395.0	385.0	403.0	426.9	426.9	424.9	424.9
75°	279.3	287.3	295.2	313.2	355.1	343.1	355.1	377.0	381.0	377.0	377.0
77.5°	225.4	237.4	241.4	265.3	295.2	293.2	305.2	315.2	323.2	319.2	319.2
80°	159.6	171.6	187.5	213.4	231.4	237.4	243.4	251.4	255.3	255.3	259.3
82.5°	89.8	107.7	121.7	147.6	155.6	185.5	183.5	189.5	183.5	161.6	179.5
85°	19.9	37.9	53.9	67.8	77.8	107.7	113.7	127.7	105.7	97.7	97.7
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°	9718.9	9718.9	9718.9	9718.9	9718.9	9718.9	9718.9	9718.9	9718.9	9718.9
2.5°	8482.1	8655.6	8865.1	9226.1	9479.5	9752.8	10028.1	10321.3	10399.1	10478.9
5°	6876.2	7217.3	7402.9	7887.6	8396.3	9042.6	9571.3	10149.8	10391.1	10447.0
7.5°	5208.5	5439.9	5926.7	6417.4	7047.8	7726.0	8535.9	9437.6	9718.9	9836.6
10°	4129.3	4444.5	4871.4	5398.0	5950.6	6680.7	7594.4	8647.6	9046.6	9112.4
12.5°	3514.9	3866.0	4330.8	4887.4	5410.0	5960.6	6882.2	7969.4	8396.3	8537.9
15°	2810.7	3235.6	3772.2	4358.7	4927.3	5529.7	6463.3	7690.1	8182.8	8348.4
17.5°	2208.3	2551.4	3131.9	3768.3	4442.5	5204.5	6375.5	7823.8	8430.2	8583.8
20°	1689.6	1935.0	2423.7	3096.0	3886.0	4883.4	6397.5	8328.5	9054.6	9264.1
22.5°	1460.2	1585.9	1883.1	2523.5	3407.2	4604.1	6487.2	9020.7	9896.4	10245.5
25°	1322.6	1388.4	1556.0	1974.9	2950.4	4332.8	6692.7	9952.3	11073.4	11304.8
27.5°	1204.9	1252.8	1356.5	1657.7	2535.4	4081.4	6932.1	10985.6	12172.5	12517.6
30°	1093.2	1157.0	1254.8	1472.2	2270.1	3852.0	7233.3	11823.4	13098.1	13419.3
32.5°	1007.4	1071.2	1161.0	1342.5	2044.7	3610.7	7412.8	12559.5	13854.2	14127.5
35°	937.6	991.4	1085.2	1238.8	1873.2	3427.1	7376.9	13144.0	14586.3	14865.6
37.5°	887.7	933.6	1027.3	1141.1	1743.5	3235.6	7359.0	13916.0	15478.0	15801.2
40°	841.8	889.7	975.5	1077.2	1613.8	3010.2	7369.0	14682.0	16427.5	16750.7
42.5°	805.9	859.8	929.6	1059.3	1480.2	2828.7	7369.0	15348.3	17253.4	17564.6
45°	776.0	833.8	901.7	1057.3	1374.4	2691.0	7319.1	15920.8	17911.7	18177.0
47.5°	750.1	813.9	911.6	1021.4	1348.5	2591.3	7275.2	16379.7	18448.3	18697.7
50°	732.1	807.9	969.5	979.5	1356.5	2561.4	7486.6	16958.2	18921.1	19136.5
52.5°	718.1	809.9	967.5	917.6	1342.5	2581.3	7927.5	17861.8	19577.4	19593.3
55°	690.2	807.9	917.6	847.8	1284.7	2615.2	8494.0	19174.4	20604.7	20616.7
57.5°	662.3	786.0	851.8	788.0	1167.0	2615.2	9176.3	20417.2	21843.5	21853.5
60°	634.4	817.9	748.1	736.1	1013.4	2567.4	9896.4	20963.8	22232.5	22334.3
62.5°	606.4	823.9	668.3	690.2	901.7	2451.7	10433.0	20359.4	21705.9	21851.5
65°	574.5	664.3	616.4	642.3	843.8	2258.2	10263.5	19252.2	20716.4	20890.0
67.5°	536.6	562.5	560.6	592.5	823.9	1972.9	9369.8	17851.9	19651.2	19641.2
70°	490.7	504.7	510.7	544.6	786.0	1751.5	7807.8	16034.5	18228.9	18452.3
72.5°	442.9	454.8	460.8	490.7	748.1	1625.8	6060.3	13531.0	15789.2	16138.3
75°	391.0	399.0	406.9	432.9	708.2	1440.3	4316.8	10329.3	12092.7	12641.3
77.5°	337.1	337.1	347.1	373.0	596.5	1188.9	2896.5	7245.3	8192.8	8753.4
80°	273.3	275.3	271.3	299.2	438.9	813.9	1645.7	4839.5	5451.9	5559.6
82.5°	209.5	203.5	205.5	219.4	327.2	554.6	877.7	3006.2	3064.1	3004.2
85°	131.7	131.7	127.7	143.6	209.5	289.3	478.8	1841.2	1438.3	1368.5
87.5°	53.9	43.9	49.9	57.9	99.7	117.7	187.5	379.0	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

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