

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: P459396

Luminaire Tested: **GALN-SA8C-735-U-SLL**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P459396
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-SA8C-735-U-SLL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3500K, 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: 45586 lumens
Efficiency: N/A
Efficacy: 106.3 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

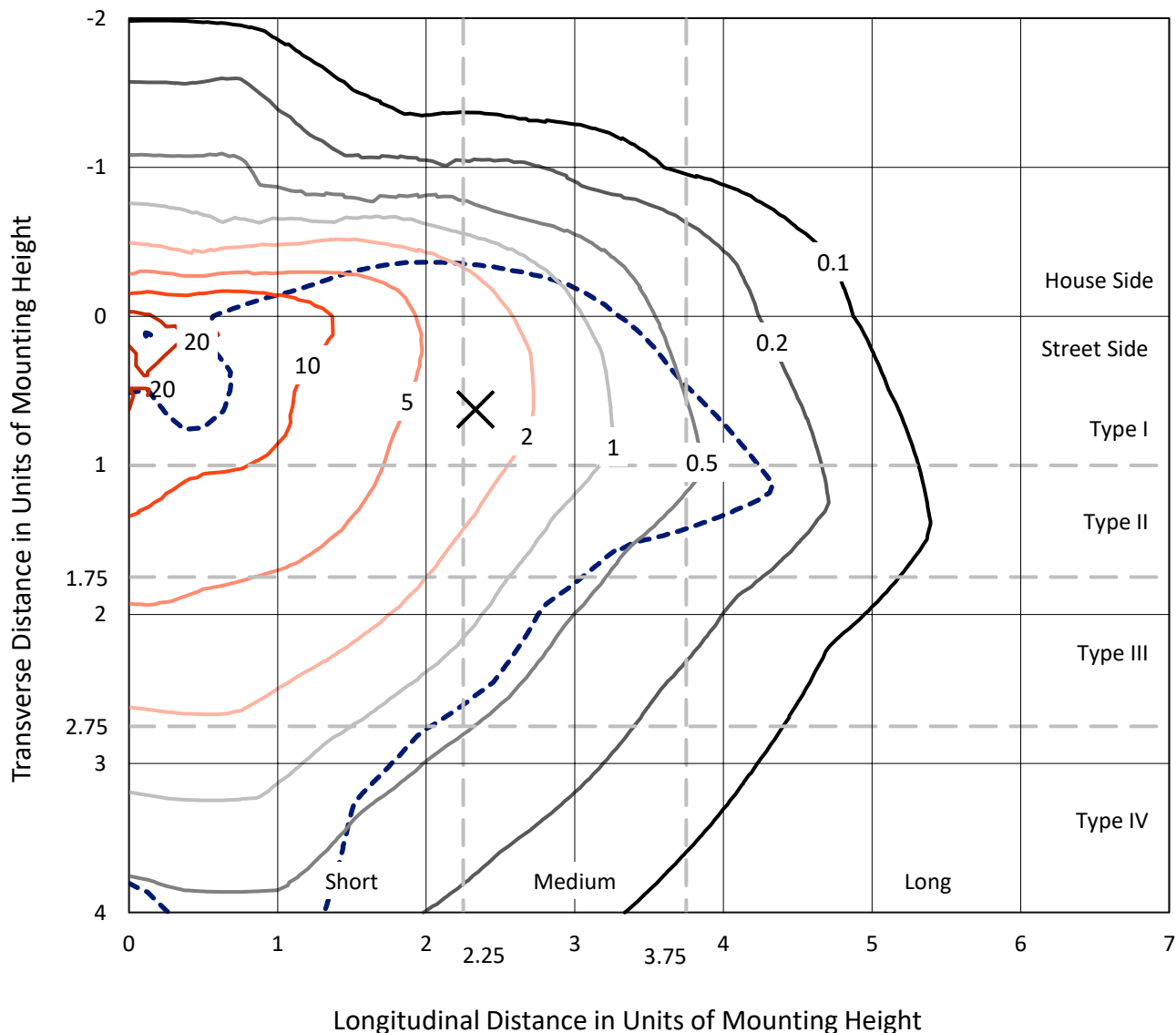
Input Watts (W): 429
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

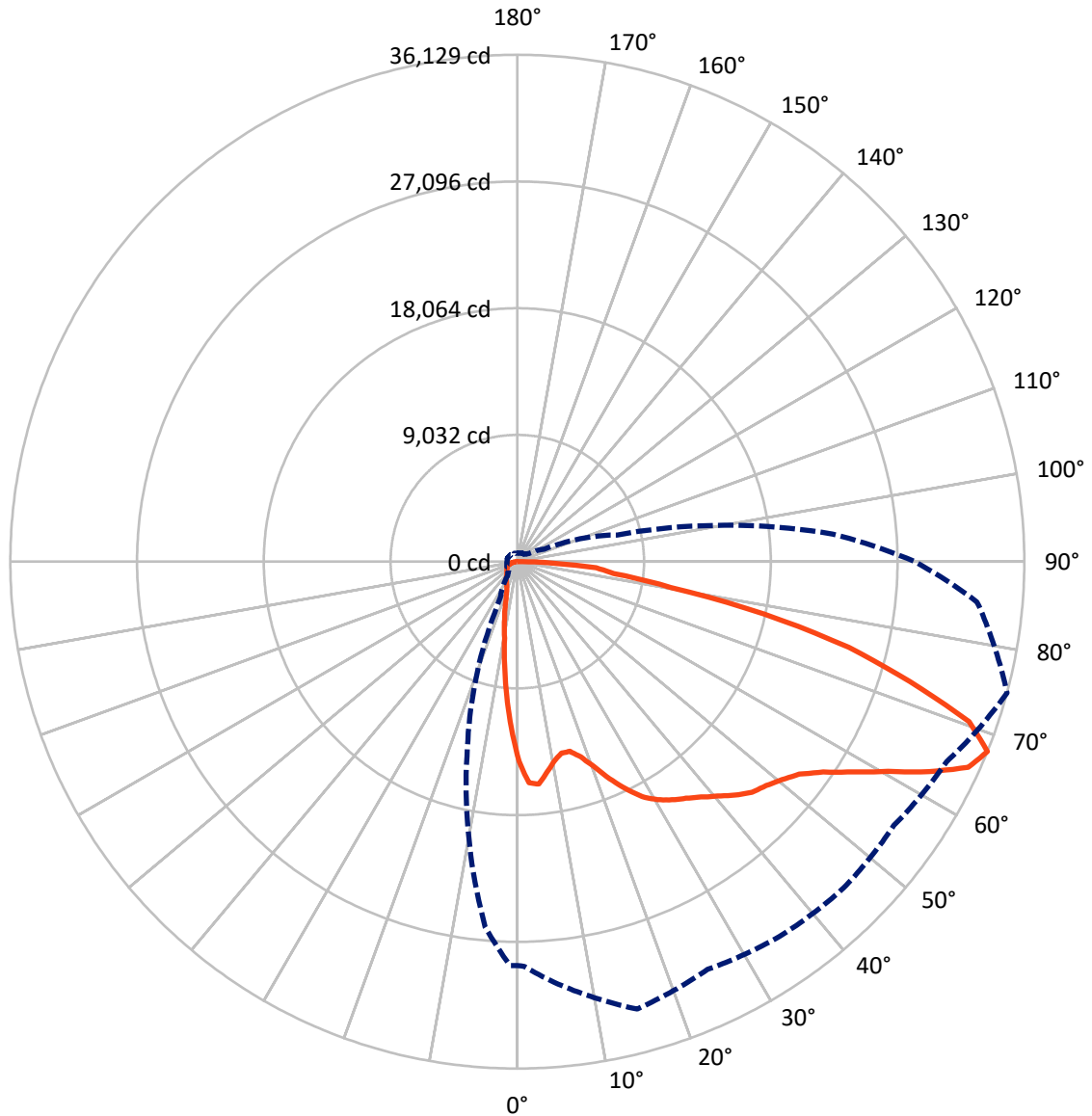
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 28.1 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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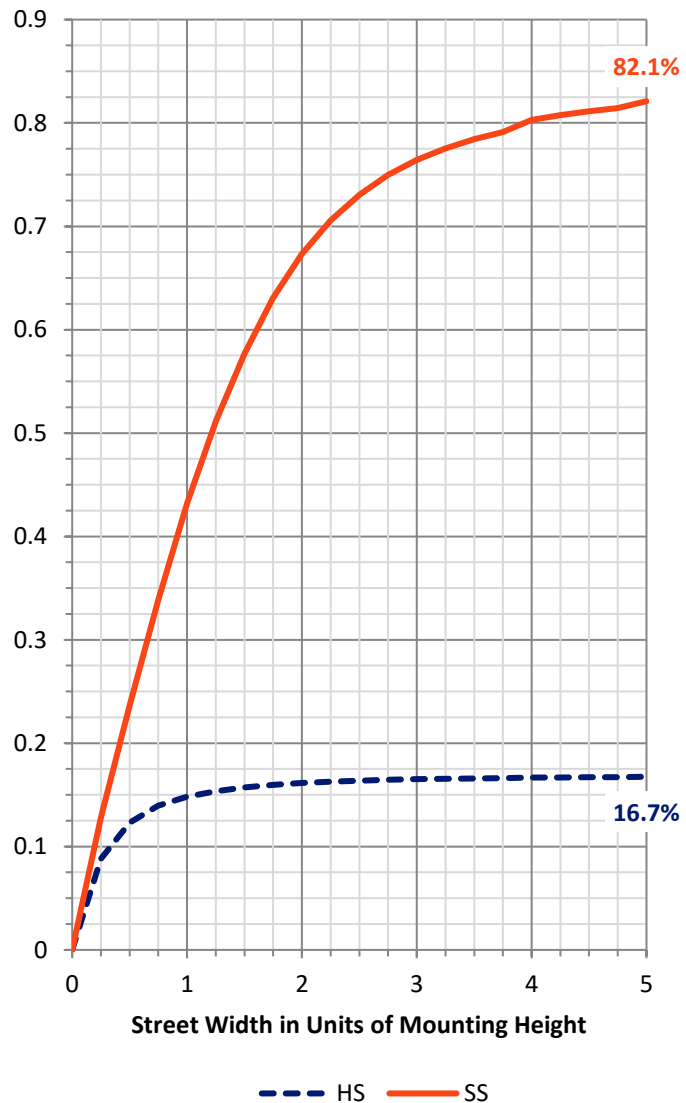
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7705.0	0.0	7705.0
	% Fixture	16.9	0.0	16.9
Street Side	Lumens	37881.0	0.0	37881.0
	% Fixture	83.1	0.0	83.1
Total	Lumens	45586.0	0.0	45586.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1080.2	2.4
10°-20°	2252.8	4.9
20°-30°	3241.9	7.1
30°-40°	4669.2	10.2
40°-50°	6559.0	14.4
50°-60°	9147.5	20.1
60°-70°	10875.7	23.9
70°-80°	6405.2	14.1
80°-90°	1354.5	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°	45586.0	100.0
0°-180°	45586.0	100.0



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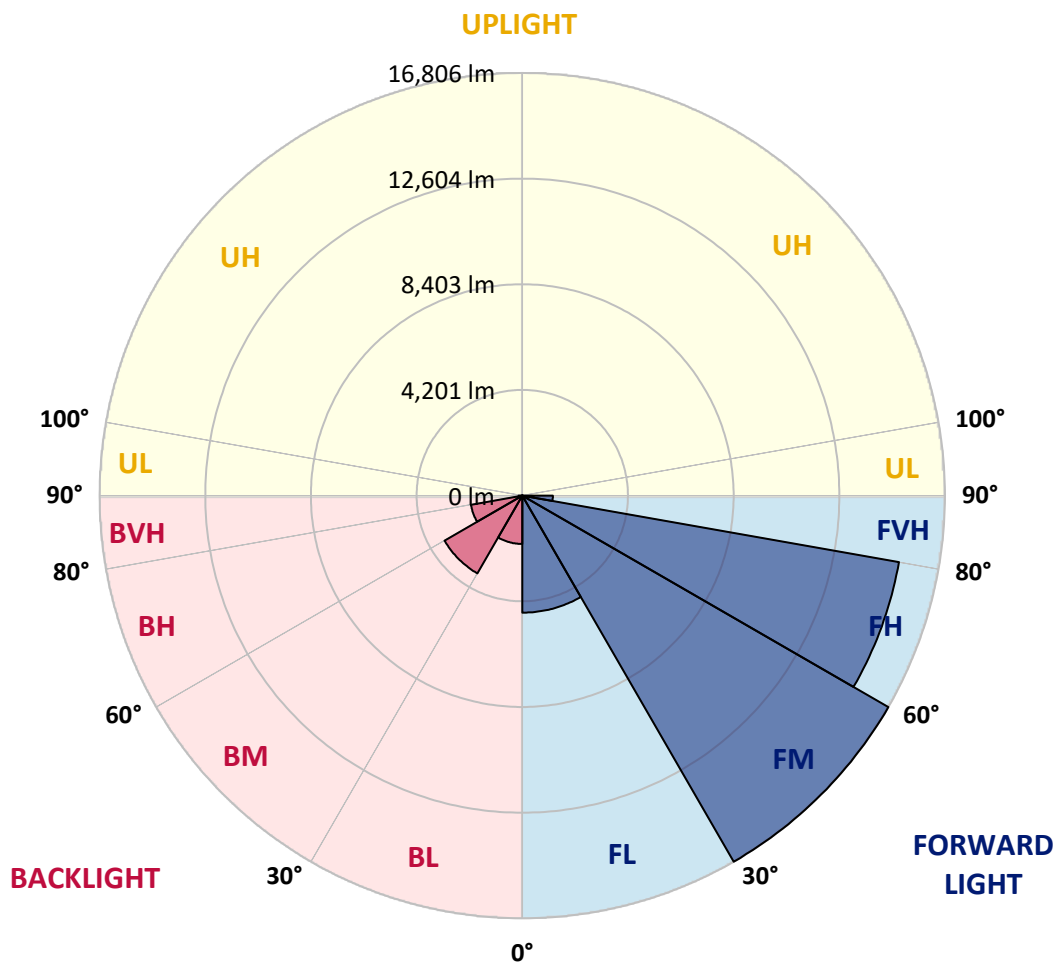
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4653.1	10.2			
FM	(30°-60°)	16805.9	36.9			
FH	(60°-80°)	15207.7	33.4			G5
FVH	(80°-90°)	1214.4	2.7			G5
BL	(0°-30°)	1921.9	4.2	B3/2500		
BM	(30°-60°)	3569.8	7.8	B3/5000		
BH	(60°-80°)	2073.3	4.5	B3/2500		G3/2500
BVH	(80°-90°)	140.1	0.3			G2/225
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°	14242.1	14242.1	14242.1	14242.1	14242.1	14242.1	14242.1	14242.1	14242.1	14242.1	14242.1
2.5°	15355.9	15376.4	15507.9	15890.9	16154.0	16250.4	16317.7	16192.0	16069.2	15771.0	15320.8
5°	15309.1	15429.0	15771.0	16630.5	17308.6	17601.0	17688.7	17311.6	16688.9	15923.0	15002.2
7.5°	14414.6	14575.4	15101.6	16542.8	17738.4	18422.4	18331.8	17650.7	16528.1	15163.0	13876.7
10°	13353.5	13531.8	14166.1	15908.4	17449.0	18390.3	18390.3	17560.1	16069.2	14446.8	12964.7
12.5°	12511.6	12698.7	13423.6	15256.5	16846.8	17738.4	17887.5	17174.2	15738.9	13993.7	12365.4
15°	12233.9	12415.1	13195.6	14861.9	16209.5	16753.2	16802.9	16569.1	15578.1	14025.8	12339.1
17.5°	12578.8	12812.7	13602.0	14978.8	15624.8	15657.0	15695.0	15879.2	15595.6	14613.4	12871.1
20°	13575.6	13827.0	14651.4	15355.9	15113.3	14780.0	14800.5	15274.1	15803.2	15583.9	14142.8
22.5°	15013.9	15233.1	16078.0	16019.5	14897.0	14210.0	14066.7	14727.4	16110.1	16794.2	15496.2
25°	16566.1	16823.4	17793.9	17004.6	14958.3	13870.9	13780.3	14405.8	16428.7	17925.5	17060.2
27.5°	18343.5	18594.9	19360.8	17998.5	15279.9	13844.6	13736.4	14376.6	16715.2	18972.0	18554.0
30°	19664.8	19895.7	20416.1	18834.6	15674.5	14020.0	13885.5	14607.6	16960.8	19688.2	20009.7
32.5°	20702.6	20942.3	21225.8	19354.9	16194.9	14338.6	14090.1	15028.5	17282.3	20234.8	21088.4
35°	21784.2	22067.7	22047.3	19816.8	16680.1	14706.9	14464.3	15636.5	17788.1	20711.3	22456.5
37.5°	23155.2	23269.2	23123.0	20231.9	17261.9	15370.5	15236.1	16539.8	18507.2	21287.2	24055.5
40°	24546.7	24774.7	24023.4	20734.7	17969.3	16618.8	16604.1	17875.8	19360.8	21962.5	25604.9
42.5°	25739.3	25932.3	24865.3	21173.2	18825.8	18141.8	18252.9	19667.7	20480.4	22745.9	26850.2
45°	26636.8	26809.3	25642.9	21597.1	19954.2	19901.6	20556.4	21588.3	21892.3	23450.4	27581.0
47.5°	27399.8	27566.4	26183.7	22240.2	21348.6	22003.4	23143.5	23590.7	23099.6	23853.8	28399.5
50°	28042.9	28092.6	26554.9	23006.1	23079.2	24578.8	25683.8	25973.2	24292.3	24432.6	29109.9
52.5°	28712.3	28648.0	27195.1	23970.8	24950.1	27022.7	27826.6	28127.7	25435.3	25145.9	30144.7
55°	30211.9	30273.3	28630.5	25186.8	26841.4	29422.7	30480.9	30191.5	26701.1	26458.5	31460.2
57.5°	32024.4	31971.7	30650.4	27089.9	28767.8	31656.0	32445.3	31980.5	28390.7	28262.1	32793.2
60°	32728.9	32799.0	32340.1	29136.2	30668.0	33611.7	34418.5	33696.5	30416.6	30358.1	33798.8
62.5°	32021.4	32416.1	32725.9	30957.4	32287.5	35049.9	35850.9	35026.6	32530.1	32954.0	34503.3
65°	30612.4	30697.2	31752.5	32500.9	33068.0	35286.7	35704.8	35266.3	34295.7	35318.9	34471.1
67.5°	28782.5	28855.5	30092.1	33006.6	32062.4	32597.3	32889.7	32761.0	33749.1	36128.6	32883.8
70°	27040.2	26981.7	28288.4	31717.4	27911.3	27098.7	27341.3	26937.9	29121.6	34149.6	29770.5
72.5°	23649.2	23859.7	25262.9	28133.5	22099.9	20778.6	21307.7	20264.1	22398.1	29247.3	24163.7
75°	18524.7	18574.4	20916.0	23611.2	16671.4	14587.1	15303.3	14867.7	17156.6	24397.6	16686.0
77.5°	12827.3	12716.2	15233.1	18033.6	11888.9	10678.7	10690.4	10482.8	11979.5	17963.5	11336.4
80°	8147.1	7977.6	9535.7	11140.6	8170.5	8740.6	8454.1	8445.3	7799.3	11082.1	6855.1
82.5°	4402.4	4589.5	6024.8	6983.7	5861.1	6755.7	6191.5	6010.2	5352.5	6936.9	4384.9
85°	2005.4	2180.8	3212.7	4750.3	4452.1	4501.8	3008.0	3548.8	4428.7	5633.1	2341.5
87.5°	195.9	251.4	663.6	2242.1	1520.1	1198.5	447.3	862.4	1113.8	2002.4	187.1
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°	14242.1	14242.1	14242.1	14242.1	14242.1	14242.1	14242.1	14242.1	14242.1	14242.1	14242.1
2.5°	15136.7	14984.7	14467.2	14040.4	13587.3	13242.4	12792.2	12491.1	12283.6	11970.8	11932.8
5°	14440.9	14069.7	13169.3	12251.4	11459.2	10862.9	10257.7	9702.3	9374.9	9272.6	9141.0
7.5°	13268.7	12643.1	11485.5	10433.1	9524.0	8635.3	7951.3	7466.0	7141.5	6951.5	6723.5
10°	12304.0	11579.1	10170.0	8880.9	8132.5	7580.0	6977.8	6457.5	6057.0	5715.0	5527.9
12.5°	11655.1	10836.5	9252.1	8205.6	7626.8	7039.2	6334.7	5750.1	5159.6	4770.8	4604.1
15°	11459.2	10593.9	8968.6	7869.4	7039.2	6270.4	5481.1	4718.1	4133.5	3765.2	3642.4
17.5°	11938.6	10892.1	8965.7	7422.2	6349.3	5431.4	4420.0	3703.8	3104.5	2829.7	2742.0
20°	12833.1	11465.0	8992.0	6980.8	5601.0	4308.9	3215.6	2628.0	2341.5	2224.6	2180.8
22.5°	14081.4	12339.1	9070.9	6545.2	4782.5	3309.1	2408.8	2110.6	2008.3	1987.8	1979.1
25°	15619.0	13420.7	9336.9	6153.5	4092.6	2525.7	2014.1	1879.7	1821.2	1800.7	1797.8
27.5°	17033.9	14818.0	9658.5	5817.3	3426.1	2177.8	1821.2	1707.2	1648.7	1645.8	1651.6
30°	18311.3	15987.3	9927.4	5440.2	2920.3	1935.2	1695.5	1581.5	1525.9	1523.0	1540.6
32.5°	19416.3	16949.1	10126.2	5068.9	2639.7	1786.1	1581.5	1458.7	1411.9	1403.2	1411.9
35°	20597.3	17907.9	10035.6	4779.5	2478.9	1663.3	1496.7	1376.9	1321.3	1295.0	1295.0
37.5°	21944.9	18896.0	9880.6	4539.8	2405.8	1561.0	1423.6	1306.7	1251.2	1224.8	1221.9
40°	23415.3	19884.0	9667.2	4326.4	2332.8	1499.6	1373.9	1251.2	1183.9	1157.6	1151.8
42.5°	24713.3	20728.9	9491.8	4186.1	2212.9	1511.3	1330.1	1210.2	1125.5	1090.4	1087.5
45°	25841.7	21579.5	9459.7	4104.3	2113.5	1493.8	1318.4	1178.1	1078.7	1040.7	1034.8
47.5°	26724.5	22465.3	9643.8	4057.5	2005.4	1400.2	1394.4	1157.6	1037.8	996.8	991.0
50°	27800.2	23722.3	10064.8	3961.0	1906.0	1312.5	1473.3	1154.7	1005.6	953.0	938.4
52.5°	29232.6	25359.3	10634.8	3788.6	1762.7	1230.7	1406.1	1154.7	967.6	915.0	897.4
55°	31398.8	27446.5	11193.2	3545.9	1561.0	1122.5	1268.7	1119.6	912.1	865.3	853.6
57.5°	32834.1	28972.5	11549.8	3209.7	1309.6	1043.6	1093.3	1064.1	856.5	806.8	806.8
60°	32907.2	29381.7	11380.3	2785.9	1151.8	970.5	950.1	1072.8	806.8	754.2	748.4
62.5°	32065.3	28379.1	10497.4	2405.8	1067.0	891.6	859.4	941.3	757.1	704.5	695.7
65°	30749.8	25821.2	8965.7	2224.6	1020.2	821.4	774.7	771.7	704.5	654.8	643.1
67.5°	28332.3	22564.7	7366.6	2119.4	996.8	742.5	698.7	684.0	643.1	602.2	596.3
70°	24768.8	18898.9	5907.9	2075.5	985.1	660.7	625.6	608.0	573.0	540.8	537.9
72.5°	19270.2	15329.6	4876.0	2046.3	979.3	584.7	546.7	523.3	502.8	473.6	473.6
75°	13841.7	11278.0	3721.3	1844.6	906.2	502.8	461.9	447.3	418.0	394.6	400.5
77.5°	8725.9	7594.6	2449.7	1356.4	701.6	403.4	368.3	359.6	336.2	304.0	324.5
80°	5893.3	5340.8	1429.5	853.6	441.4	295.2	283.6	280.6	254.3	219.2	222.2
82.5°	4010.7	3934.7	742.5	485.3	254.3	172.5	166.6	172.5	143.2	116.9	116.9
85°	1566.9	2139.8	350.8	190.0	81.9	26.3	38.0	40.9	23.4	11.7	14.6
87.5°	29.2	219.2	8.8	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°	14242.1	14242.1	14242.1	14242.1	14242.1	14242.1	14242.1	14242.1	14242.1	14242.1	14242.1
2.5°	11874.3	11848.0	11891.8	11704.8	11742.8	11812.9	11848.0	11868.5	12157.9	12090.6	12274.8
5°	9263.8	9237.5	9407.1	9430.5	9518.1	9500.6	9585.4	9605.8	9711.1	9749.1	10006.3
7.5°	6738.1	6852.1	7045.1	7144.5	7293.5	7340.3	7296.5	7404.6	7185.4	7343.2	7390.0
10°	5413.9	5276.5	5194.6	5422.7	5451.9	5668.2	5580.5	5510.4	5639.0	5644.8	5767.6
12.5°	4507.7	4212.4	4016.6	4080.9	4151.0	4244.6	4259.2	4399.5	4493.1	4580.8	4653.8
15°	3534.2	3431.9	3253.6	3165.9	3265.3	3303.3	3393.9	3510.8	3610.2	3636.5	3735.9
17.5°	2712.8	2730.3	2701.1	2648.5	2709.9	2739.1	2744.9	2747.9	2774.2	2756.6	2902.8
20°	2183.7	2245.1	2318.1	2329.8	2350.3	2364.9	2338.6	2239.2	2242.1	2303.5	2350.3
22.5°	1976.1	1987.8	2069.7	2096.0	2160.3	2134.0	2058.0	2011.2	2005.4	2020.0	2043.4
25°	1812.4	1830.0	1888.4	1929.4	1979.1	1932.3	1876.7	1832.9	1827.0	1841.7	1865.0
27.5°	1666.3	1692.6	1745.2	1786.1	1832.9	1789.0	1736.4	1698.4	1695.5	1692.6	1707.2
30°	1549.3	1578.6	1616.6	1663.3	1695.5	1657.5	1607.8	1587.3	1584.4	1578.6	1584.4
32.5°	1432.4	1479.2	1517.2	1540.6	1572.7	1543.5	1505.5	1493.8	1473.3	1455.8	1447.0
35°	1300.9	1350.5	1409.0	1438.2	1470.4	1441.2	1414.9	1365.2	1330.1	1327.2	1333.0
37.5°	1224.8	1245.3	1292.1	1341.8	1373.9	1359.3	1309.6	1259.9	1251.2	1251.2	1257.0
40°	1157.6	1166.4	1186.8	1251.2	1309.6	1265.8	1204.4	1189.8	1189.8	1186.8	1189.8
42.5°	1090.4	1099.1	1099.1	1148.8	1242.4	1172.2	1125.5	1125.5	1125.5	1128.4	1137.1
45°	1029.0	1031.9	1029.0	1064.1	1151.8	1093.3	1061.1	1069.9	1075.8	1081.6	1087.5
47.5°	976.4	979.3	976.4	1005.6	1049.5	1026.1	1008.5	1020.2	1031.9	1040.7	1046.5
50°	929.6	926.7	932.5	950.1	970.5	976.4	964.7	982.2	988.1	999.8	1014.4
52.5°	888.7	885.7	891.6	900.4	929.6	929.6	929.6	944.2	955.9	967.6	988.1
55°	841.9	844.8	853.6	865.3	903.3	897.4	900.4	912.1	923.8	941.3	953.0
57.5°	798.1	803.9	815.6	833.1	871.1	868.2	871.1	877.0	891.6	900.4	912.1
60°	748.4	760.0	774.7	786.4	824.4	821.4	836.1	847.7	856.5	856.5	862.4
62.5°	698.7	716.2	730.8	739.6	780.5	783.4	803.9	812.7	818.5	812.7	821.4
65°	649.0	675.3	681.1	692.8	733.7	736.7	760.0	780.5	774.7	768.8	783.4
67.5°	599.3	631.4	628.5	643.1	684.0	689.9	710.4	745.4	733.7	727.9	739.6
70°	543.7	567.1	570.0	578.8	634.3	625.6	657.7	689.9	681.1	684.0	684.0
72.5°	482.3	502.8	502.8	520.3	578.8	564.2	590.5	625.6	625.6	622.7	622.7
75°	409.3	421.0	432.6	459.0	520.3	502.8	520.3	552.5	558.3	552.5	552.5
77.5°	330.3	347.9	353.7	388.8	432.6	429.7	447.3	461.9	473.6	467.7	467.7
80°	233.9	251.4	274.8	312.8	339.1	347.9	356.6	368.3	374.2	374.2	380.0
82.5°	131.5	157.9	178.3	216.3	228.0	271.9	268.9	277.7	268.9	236.8	263.1
85°	29.2	55.5	78.9	99.4	114.0	157.9	166.6	187.1	154.9	143.2	143.2
87.5°	0.0	0.0	0.0	0.0	0.0	23.4	46.8	64.3	55.5	46.8	46.8
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°	14242.1	14242.1	14242.1	14242.1	14242.1	14242.1	14242.1	14242.1	14242.1	14242.1
2.5°	12429.7	12684.0	12991.0	13520.1	13891.4	14291.8	14695.3	15125.0	15239.0	15355.9
5°	10076.5	10576.4	10848.2	11558.6	12304.0	13251.2	14025.8	14873.6	15227.3	15309.1
7.5°	7632.6	7971.7	8685.0	9404.1	10327.9	11321.8	12508.6	13830.0	14242.1	14414.6
10°	6051.2	6513.0	7138.6	7910.4	8720.1	9790.0	11128.9	12672.4	13257.0	13353.5
12.5°	5150.8	5665.3	6346.4	7162.0	7927.9	8734.7	10085.3	11678.4	12304.0	12511.6
15°	4118.9	4741.5	5527.9	6387.3	7220.5	8103.3	9471.4	11269.2	11991.2	12233.9
17.5°	3236.1	3738.9	4589.5	5522.0	6510.1	7626.8	9342.8	11465.0	12353.7	12578.8
20°	2476.0	2835.6	3551.8	4536.9	5694.5	7156.2	9374.9	12204.6	13268.7	13575.6
22.5°	2139.8	2324.0	2759.6	3697.9	4992.9	6746.9	9506.5	13219.0	14502.3	15013.9
25°	1938.1	2034.6	2280.1	2894.0	4323.5	6349.3	9807.6	14584.2	16227.0	16566.1
27.5°	1765.7	1835.8	1987.8	2429.2	3715.5	5981.0	10158.3	16098.4	17837.8	18343.5
30°	1601.9	1695.5	1838.7	2157.4	3326.7	5644.8	10599.8	17326.2	19194.2	19664.8
32.5°	1476.2	1569.8	1701.3	1967.4	2996.3	5291.1	10862.9	18404.9	20302.1	20702.6
35°	1373.9	1452.9	1590.3	1815.3	2744.9	5022.2	10810.2	19261.4	21374.9	21784.2
37.5°	1300.9	1368.1	1505.5	1672.1	2554.9	4741.5	10783.9	20392.7	22681.6	23155.2
40°	1233.6	1303.8	1429.5	1578.6	2364.9	4411.2	10798.5	21515.2	24073.1	24546.7
42.5°	1181.0	1259.9	1362.2	1552.3	2169.1	4145.2	10798.5	22491.6	25283.3	25739.3
45°	1137.1	1221.9	1321.3	1549.3	2014.1	3943.5	10725.5	23330.6	26248.0	26636.8
47.5°	1099.1	1192.7	1335.9	1496.7	1976.1	3797.3	10661.1	24002.9	27034.4	27399.8
50°	1072.8	1183.9	1420.7	1435.3	1987.8	3753.5	10971.0	24850.7	27727.2	28042.9
52.5°	1052.4	1186.8	1417.8	1344.7	1967.4	3782.7	11617.1	26174.9	28688.9	28712.3
55°	1011.4	1183.9	1344.7	1242.4	1882.6	3832.4	12447.3	28098.4	30194.4	30211.9
57.5°	970.5	1151.8	1248.2	1154.7	1710.1	3832.4	13447.0	29919.6	32009.7	32024.4
60°	929.6	1198.5	1096.2	1078.7	1485.0	3762.2	14502.3	30720.6	32579.8	32728.9
62.5°	888.7	1207.3	979.3	1011.4	1321.3	3592.7	15288.7	29834.8	31808.0	32021.4
65°	841.9	973.4	903.3	941.3	1236.5	3309.1	15040.2	28212.4	30358.1	30612.4
67.5°	786.4	824.4	821.4	868.2	1207.3	2891.1	13730.6	26160.3	28797.1	28782.5
70°	719.1	739.6	748.4	798.1	1151.8	2566.6	11441.7	23497.2	26712.8	27040.2
72.5°	649.0	666.5	675.3	719.1	1096.2	2382.5	8880.9	19828.5	23137.6	23649.2
75°	573.0	584.7	596.3	634.3	1037.8	2110.6	6325.9	15136.7	17720.8	18524.7
77.5°	494.0	494.0	508.6	546.7	874.1	1742.3	4244.6	10617.3	12005.8	12827.3
80°	400.5	403.4	397.6	438.5	643.1	1192.7	2411.7	7091.8	7989.3	8147.1
82.5°	306.9	298.2	301.1	321.6	479.4	812.7	1286.2	4405.4	4490.1	4402.4
85°	192.9	192.9	187.1	210.5	306.9	423.9	701.6	2698.2	2107.7	2005.4
87.5°	78.9	64.3	73.1	84.8	146.2	172.5	274.8	555.4	213.4	195.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)