

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: P651572

Luminaire Tested: **GALN-SA8D-840-U-SLL**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P651572  
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-SA8D-840-U-SLL  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 80 CRI, 4000K, 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: 45284.5 lumens  
Efficiency: N/A  
Efficacy: 91.9 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

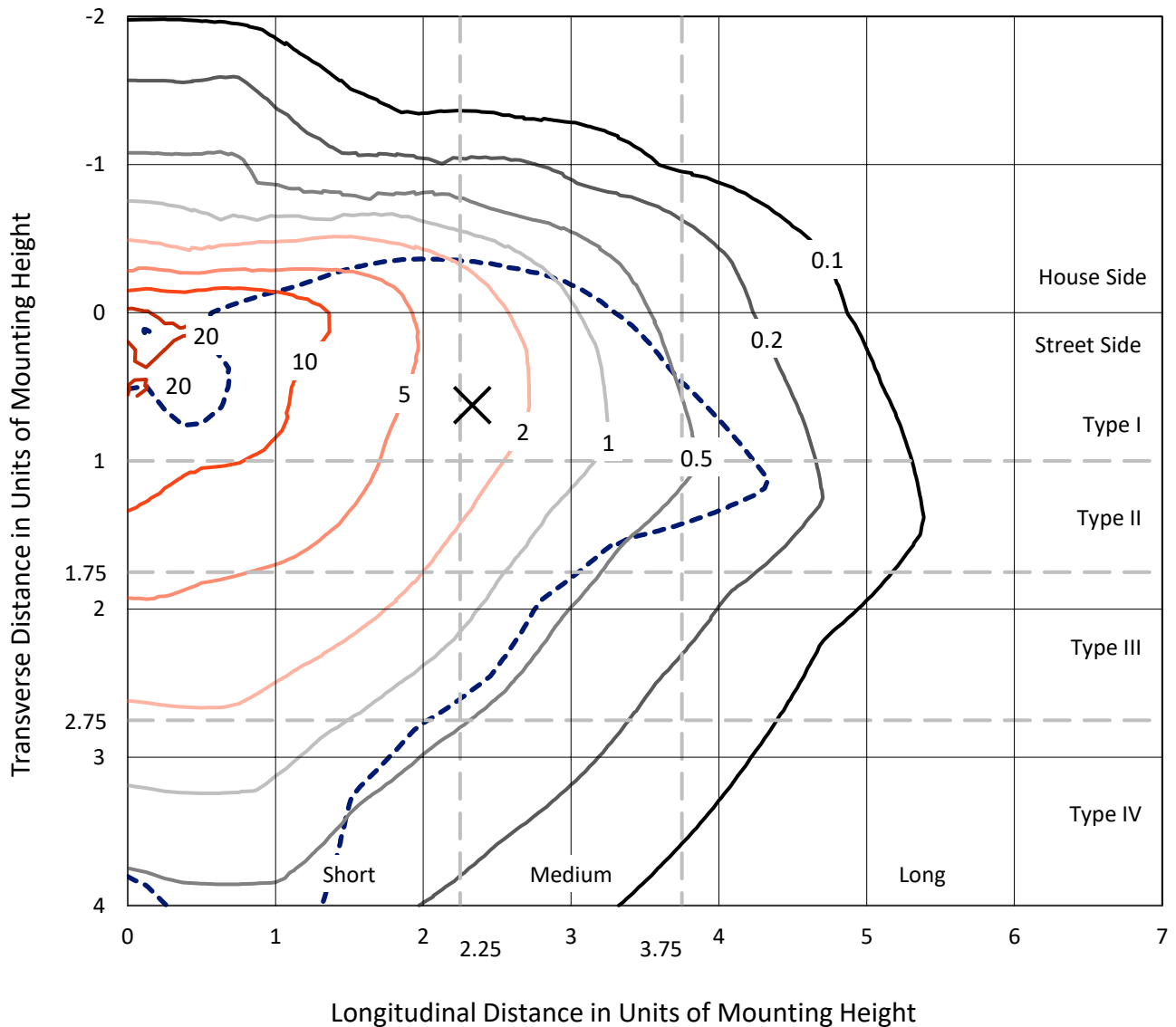
Input Watts (W): 493  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

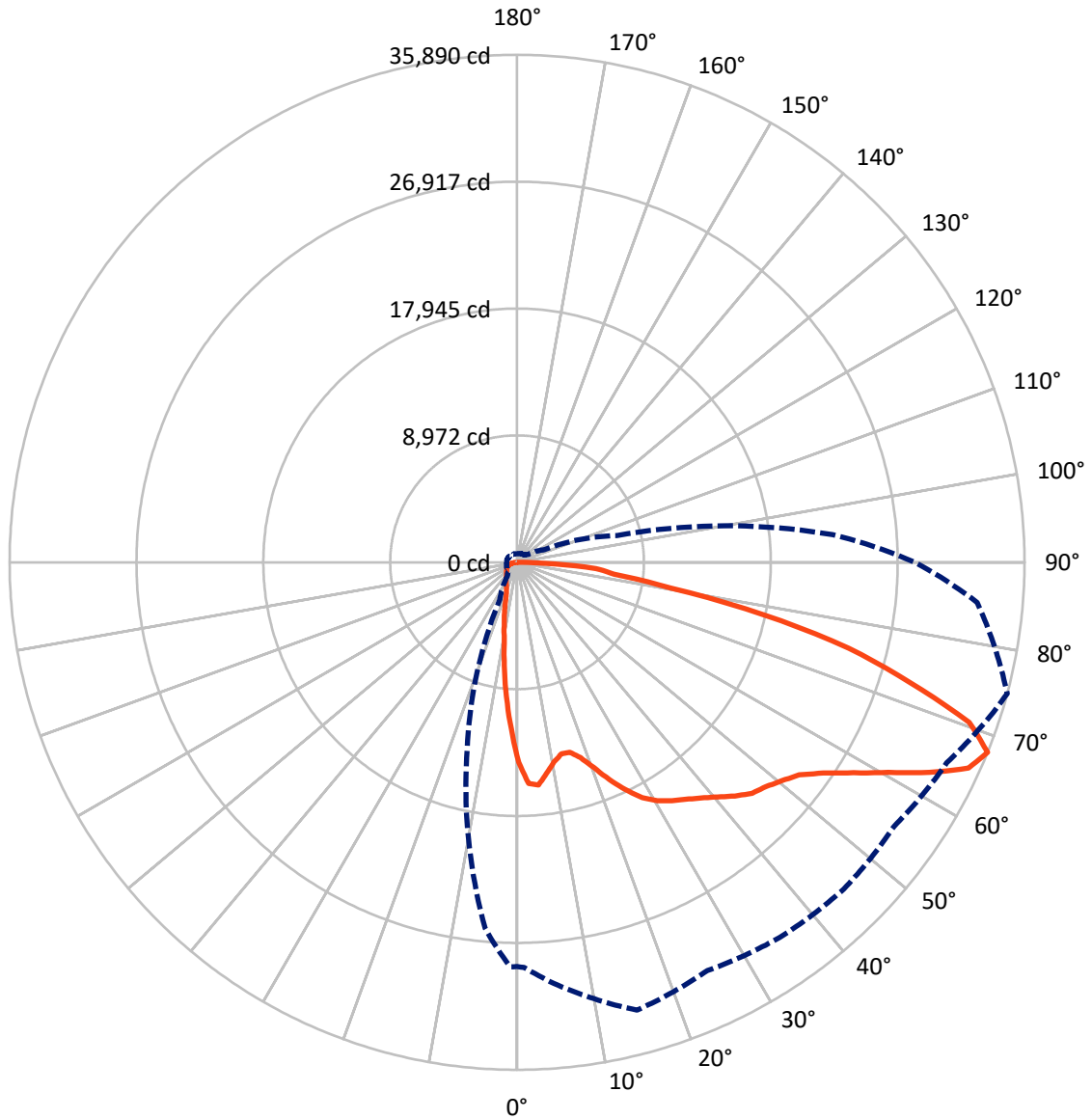
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 27.9 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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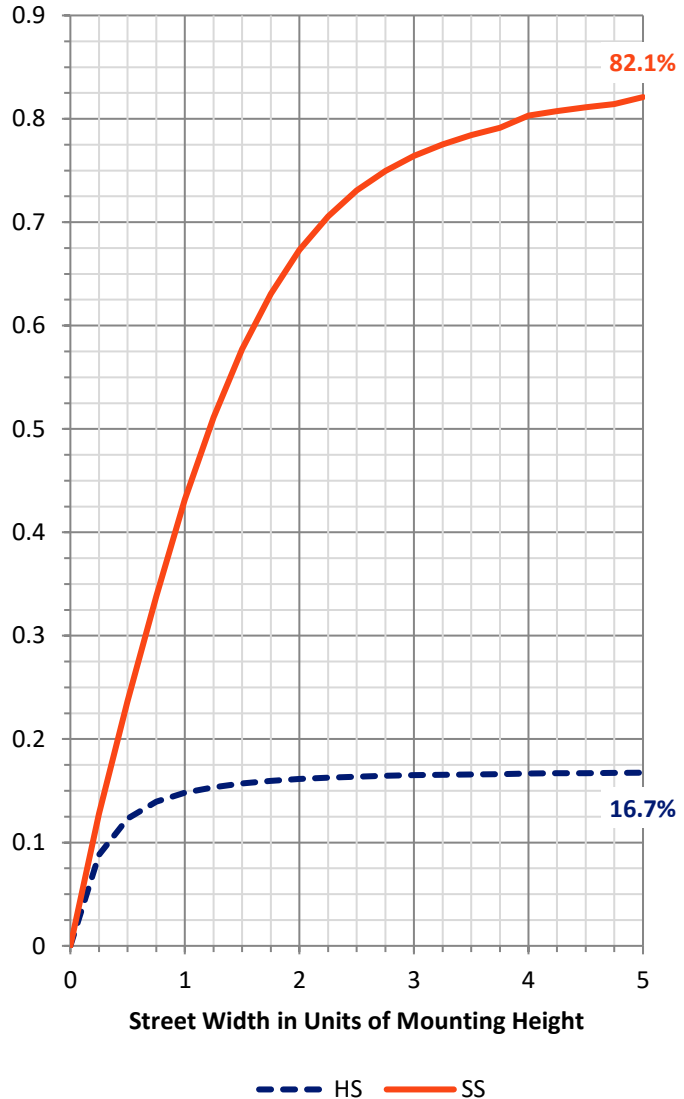
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	7654.0	0.0	7654.0
	% Fixture	16.9	0.0	16.9
<b>Street Side</b>	Lumens	37630.4	0.0	37630.4
	% Fixture	83.1	0.0	83.1
<b>Total</b>	Lumens	45284.5	0.0	45284.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1073.1	2.4
10°-20°	2237.9	4.9
20°-30°	3220.4	7.1
30°-40°	4638.3	10.2
40°-50°	6515.6	14.4
50°-60°	9087.0	20.1
60°-70°	10803.8	23.9
70°-80°	6362.8	14.1
80°-90°	1345.5	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°	45284.5	100.0
0°-180°	45284.5	100.0

**Coefficient of Utilization**

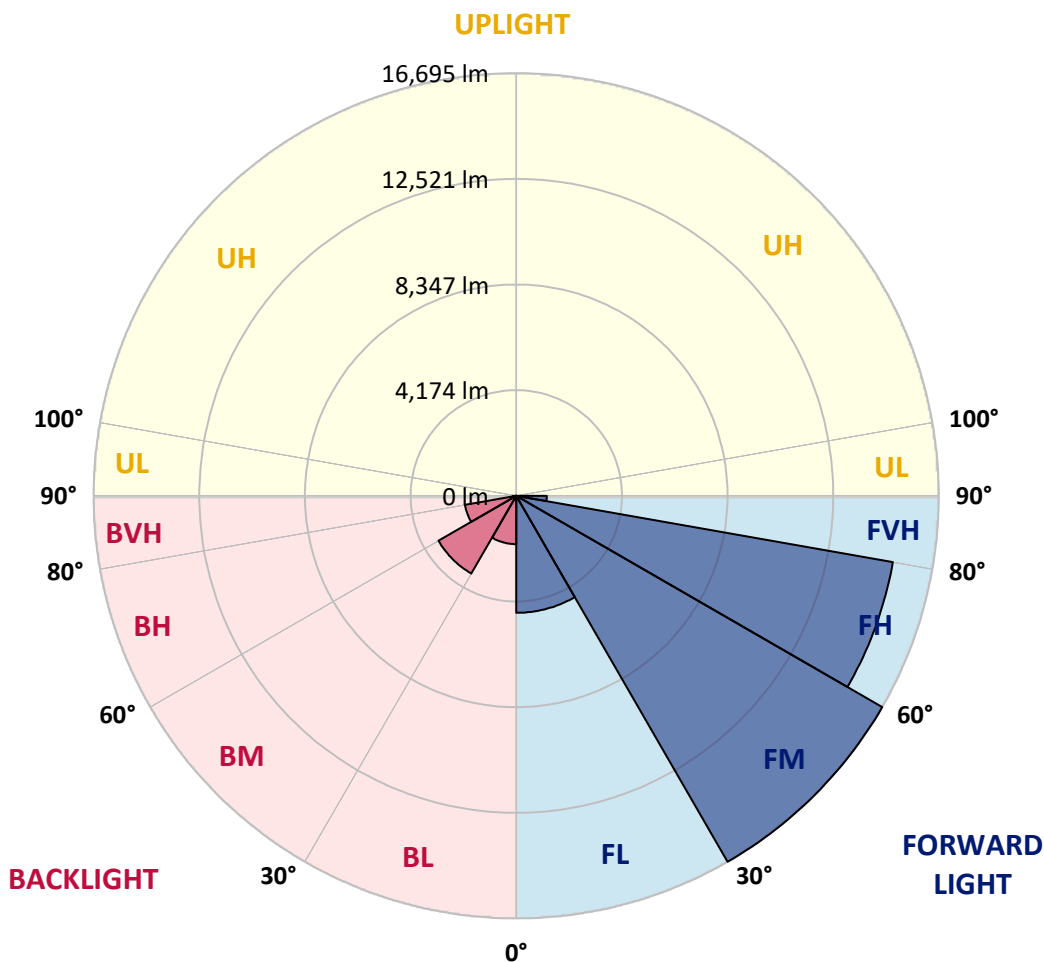


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4622.3	10.2			
FM (30°-60°)	16694.7	36.9			
FH (60°-80°)	15107.1	33.4			G5
FVH (80°-90°)	1206.3	2.7			G5
BL (0°-30°)	1909.2	4.2	B3/2500		
BM (30°-60°)	3546.1	7.8	B3/5000		
BH (60°-80°)	2059.6	4.5	B3/2500		G3/2500
BVH (80°-90°)	139.2	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°	14148.0	14148.0	14148.0	14148.0	14148.0	14148.0	14148.0	14148.0	14148.0	14148.0	14148.0
2.5°	15254.3	15274.7	15405.4	15785.7	16047.1	16142.9	16209.8	16084.9	15962.9	15666.7	15219.5
5°	15207.9	15327.0	15666.7	16520.4	17194.2	17484.6	17571.7	17197.1	16578.5	15817.7	14902.9
7.5°	14319.3	14479.0	15001.7	16433.3	17621.1	18300.6	18210.5	17533.9	16418.8	15062.6	13784.9
10°	13265.2	13442.3	14072.5	15803.1	17333.5	18268.6	18268.6	17443.9	15962.9	14351.2	12878.9
12.5°	12428.8	12614.7	13334.8	15155.6	16735.3	17621.1	17769.2	17060.6	15634.8	13901.1	12283.6
15°	12153.0	12333.0	13108.3	14763.6	16102.3	16642.4	16691.7	16459.5	15475.1	13933.0	12257.5
17.5°	12495.6	12727.9	13512.0	14879.7	15521.5	15553.5	15591.2	15774.1	15492.5	14516.8	12786.0
20°	13485.9	13735.5	14554.5	15254.3	15013.3	14682.3	14702.6	15173.1	15698.6	15480.9	14049.2
22.5°	14914.5	15132.4	15971.6	15913.6	14798.4	14116.0	13973.7	14630.0	16003.6	16683.1	15393.7
25°	16456.6	16712.1	17676.2	16892.2	14859.4	13779.1	13689.1	14310.5	16320.1	17806.9	16947.3
27.5°	18222.2	18471.9	19232.7	17879.5	15178.9	13753.0	13645.6	14281.5	16604.7	18846.5	18431.3
30°	19534.7	19764.2	20281.1	18710.0	15570.9	13927.2	13793.7	14511.0	16848.6	19558.0	19877.4
32.5°	20565.6	20803.7	21085.5	19226.9	16087.7	14243.8	13996.9	14929.1	17168.0	20101.0	20949.0
35°	21640.1	21921.8	21901.4	19685.7	16569.8	14609.7	14368.7	15533.1	17670.4	20574.3	22307.9
37.5°	23002.0	23115.3	22970.1	20098.1	17147.7	15268.9	15135.3	16430.4	18384.8	21146.4	23896.4
40°	24384.3	24610.8	23864.5	20597.6	17850.5	16508.8	16494.3	17757.5	19232.7	21817.2	25435.5
42.5°	25569.1	25760.8	24700.8	21033.2	18701.3	18021.8	18132.1	19537.6	20345.0	22595.5	26672.6
45°	26460.6	26631.9	25473.3	21454.2	19822.2	19770.0	20420.4	21445.5	21747.5	23295.4	27398.6
47.5°	27218.5	27384.1	26010.5	22093.1	21207.4	21857.8	22990.4	23434.7	22946.9	23696.1	28211.7
50°	27857.4	27906.7	26379.3	22853.9	22926.5	24416.2	25513.9	25801.4	24131.7	24271.0	28917.4
52.5°	28522.4	28458.5	27015.3	23812.2	24785.0	26844.0	27642.5	27941.6	25267.1	24979.6	29945.3
55°	30012.1	30073.1	28441.1	25020.3	26663.9	29228.0	30279.3	29991.8	26524.5	26283.4	31252.1
57.5°	31812.5	31760.3	30447.7	26910.7	28577.6	31446.7	32230.7	31769.0	28202.9	28075.2	32576.3
60°	32512.4	32582.1	32126.2	28943.4	30465.1	33389.4	34190.9	33473.6	30215.4	30157.3	33575.2
62.5°	31809.6	32201.6	32509.5	30752.6	32073.9	34818.2	35613.8	34794.9	32314.9	32736.0	34275.1
65°	30410.0	30494.2	31542.5	32285.9	32849.3	35053.3	35468.6	35033.0	34068.9	35085.3	34243.2
67.5°	28592.1	28664.7	29893.1	32788.2	31850.3	32381.7	32672.1	32544.3	33525.9	35889.7	32666.3
70°	26861.4	26803.3	28101.3	31507.6	27726.8	26919.4	27160.4	26759.7	28929.0	33923.7	29573.6
72.5°	23492.8	23701.9	25095.8	27947.4	21953.7	20641.2	21166.7	20130.0	22249.9	29053.8	24003.9
75°	18402.2	18451.5	20777.6	23455.1	16561.1	14490.6	15202.1	14769.4	17043.2	24236.2	16575.6
77.5°	12742.4	12632.1	15132.4	17914.3	11810.2	10608.0	10619.6	10413.5	11900.3	17844.7	11261.4
80°	8093.3	7924.8	9472.6	11066.9	8116.5	8682.7	8398.1	8389.5	7747.7	11008.8	6809.7
82.5°	4373.3	4559.1	5985.0	6937.5	5822.4	6711.0	6150.5	5970.5	5317.1	6891.0	4355.9
85°	1992.1	2166.3	3191.4	4718.9	4422.7	4472.0	2988.2	3525.4	4399.4	5595.8	2326.0
87.5°	194.5	249.8	659.2	2227.3	1510.0	1190.6	444.3	856.6	1106.4	1989.2	185.9
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):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	14148.0	14148.0	14148.0	14148.0	14148.0	14148.0	14148.0	14148.0	14148.0	14148.0	14148.0
2.5°	15036.6	14885.5	14371.5	13947.6	13497.5	13154.8	12707.6	12408.5	12202.3	11891.6	11853.8
5°	14345.4	13976.6	13082.2	12170.4	11383.4	10791.0	10189.9	9638.1	9312.9	9211.3	9080.6
7.5°	13180.9	12559.5	11409.5	10364.1	9461.0	8578.2	7898.7	7416.6	7094.3	6905.5	6679.1
10°	12222.7	11502.4	10102.8	8822.2	8078.7	7529.9	6931.7	6414.8	6016.9	5677.2	5491.3
12.5°	11578.0	10764.9	9191.0	8151.3	7576.3	6992.7	6292.8	5712.0	5125.5	4739.2	4573.7
15°	11383.4	10523.9	8909.2	7817.3	6992.7	6229.0	5444.9	4687.0	4106.2	3740.3	3618.3
17.5°	11859.6	10820.1	8906.4	7373.0	6307.3	5395.5	4390.8	3679.3	3083.9	2811.0	2723.9
20°	12748.2	11389.2	8932.5	6934.5	5563.9	4280.4	3194.3	2610.6	2326.0	2209.9	2166.3
22.5°	13988.3	12257.5	9010.9	6501.9	4750.8	3287.2	2392.8	2096.6	1995.0	1974.7	1965.9
25°	15515.7	13332.0	9275.1	6112.8	4065.5	2509.0	2000.8	1867.2	1809.2	1788.8	1785.9
27.5°	16921.2	14720.0	9594.5	5778.8	3403.4	2163.4	1809.2	1695.9	1637.8	1634.9	1640.7
30°	18190.2	15881.6	9861.7	5404.2	2901.0	1922.4	1684.3	1571.0	1515.8	1513.0	1530.4
32.5°	19287.9	16837.0	10059.2	5035.4	2622.2	1774.3	1571.0	1449.0	1402.6	1393.9	1402.6
35°	20461.1	17789.5	9969.2	4747.9	2462.5	1652.3	1486.8	1367.7	1312.5	1286.5	1286.5
37.5°	21799.8	18771.0	9815.3	4509.8	2390.0	1550.7	1414.2	1298.1	1242.9	1216.8	1213.8
40°	23260.5	19752.6	9603.3	4297.8	2317.4	1489.7	1364.9	1242.9	1176.1	1150.0	1144.2
42.5°	24549.8	20591.8	9429.0	4158.4	2198.3	1501.4	1321.3	1202.2	1118.0	1083.1	1080.3
45°	25670.8	21436.8	9397.1	4077.1	2099.6	1483.9	1309.7	1170.3	1071.5	1033.8	1028.0
47.5°	26547.8	22316.7	9580.1	4030.7	1992.1	1391.0	1385.2	1150.0	1030.9	990.3	984.4
50°	27616.3	23565.4	9998.2	3934.8	1893.3	1303.9	1463.6	1147.0	998.9	946.7	932.2
52.5°	29039.3	25191.6	10564.5	3763.5	1751.0	1222.6	1396.8	1147.0	961.2	909.0	891.5
55°	31191.1	27265.0	11119.1	3522.4	1550.7	1115.1	1260.3	1112.2	906.0	859.6	848.0
57.5°	32616.9	28780.9	11473.4	3188.5	1300.9	1036.7	1086.1	1057.1	850.8	801.5	801.5
60°	32689.5	29187.4	11305.0	2767.5	1144.2	964.1	943.8	1065.7	801.5	749.2	743.4
62.5°	31853.2	28191.3	10428.0	2390.0	1059.9	885.7	853.8	935.0	752.1	699.9	691.1
65°	30546.5	25650.4	8906.4	2209.9	1013.5	816.0	769.5	766.7	699.9	650.5	638.8
67.5°	28144.9	22415.4	7317.9	2105.4	990.3	737.6	694.1	679.5	638.8	598.2	592.4
70°	24605.0	18773.9	5868.8	2061.8	978.6	656.3	621.4	604.0	569.2	537.2	534.3
72.5°	19142.7	15228.2	4843.7	2032.8	972.8	580.8	543.0	519.8	499.5	470.5	470.5
75°	13750.1	11203.4	3696.7	1832.4	900.2	499.5	458.8	444.3	415.3	392.0	397.9
77.5°	8668.3	7544.4	2433.5	1347.5	696.9	400.7	365.9	357.2	334.0	302.0	322.4
80°	5854.3	5305.4	1420.0	848.0	438.5	293.3	281.7	278.8	252.6	217.8	220.7
82.5°	3984.2	3908.7	737.6	482.1	252.6	171.3	165.5	171.3	142.3	116.1	116.1
85°	1556.5	2125.7	348.5	188.7	81.3	26.2	37.8	40.6	23.2	11.6	14.5
87.5°	29.0	217.8	8.7	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°	14148.0	14148.0	14148.0	14148.0	14148.0	14148.0	14148.0	14148.0	14148.0	14148.0	14148.0
2.5°	11795.8	11769.6	11813.2	11627.3	11665.1	11734.8	11769.6	11790.0	12077.4	12010.7	12193.6
5°	9202.6	9176.4	9344.9	9368.1	9455.2	9437.8	9522.0	9542.3	9646.9	9684.6	9940.1
7.5°	6693.5	6806.8	6998.5	7097.2	7245.3	7291.8	7248.2	7355.6	7137.8	7294.7	7341.2
10°	5378.1	5241.6	5160.3	5386.8	5415.8	5630.7	5543.6	5473.9	5601.6	5607.5	5729.5
12.5°	4477.8	4184.6	3990.0	4053.9	4123.6	4216.5	4231.0	4370.4	4463.4	4550.5	4623.1
15°	3510.8	3409.2	3232.0	3144.9	3243.7	3281.4	3371.5	3487.6	3586.4	3612.5	3711.2
17.5°	2694.8	2712.3	2683.2	2631.0	2692.0	2721.0	2726.8	2729.7	2755.8	2738.4	2883.6
20°	2169.3	2230.2	2302.8	2314.4	2334.8	2349.2	2323.2	2224.4	2227.3	2288.3	2334.8
22.5°	1963.1	1974.7	2056.0	2082.1	2146.0	2119.9	2044.4	1997.9	1992.1	2006.6	2029.8
25°	1800.4	1817.8	1875.9	1916.6	1965.9	1919.5	1864.3	1820.8	1815.0	1829.5	1852.7
27.5°	1655.3	1681.4	1733.6	1774.3	1820.8	1777.2	1725.0	1687.2	1684.3	1681.4	1695.9
30°	1539.1	1568.1	1605.9	1652.3	1684.3	1646.5	1597.1	1576.9	1573.9	1568.1	1573.9
32.5°	1422.9	1469.4	1507.2	1530.4	1562.3	1533.3	1495.6	1483.9	1463.6	1446.2	1437.4
35°	1292.3	1341.6	1399.7	1428.8	1460.6	1431.6	1405.5	1356.1	1321.3	1318.4	1324.2
37.5°	1216.8	1237.1	1283.5	1332.9	1364.9	1350.3	1300.9	1251.6	1242.9	1242.9	1248.7
40°	1150.0	1158.6	1179.0	1242.9	1300.9	1257.4	1196.4	1181.9	1181.9	1179.0	1181.9
42.5°	1083.1	1091.9	1091.9	1141.2	1234.2	1164.4	1118.0	1118.0	1118.0	1120.9	1129.6
45°	1022.2	1025.1	1022.2	1057.1	1144.2	1086.1	1054.1	1062.9	1068.7	1074.5	1080.3
47.5°	969.9	972.8	969.9	998.9	1042.5	1019.3	1001.9	1013.5	1025.1	1033.8	1039.6
50°	923.4	920.6	926.4	943.8	964.1	969.9	958.3	975.7	981.5	993.1	1007.7
52.5°	882.8	879.9	885.7	894.4	923.4	923.4	923.4	938.0	949.6	961.2	981.5
55°	836.3	839.2	848.0	859.6	897.3	891.5	894.4	906.0	917.6	935.0	946.7
57.5°	792.8	798.6	810.2	827.6	865.4	862.4	865.4	871.2	885.7	894.4	906.0
60°	743.4	755.0	769.5	781.1	818.9	816.0	830.5	842.2	850.8	850.8	856.6
62.5°	694.1	711.5	726.0	734.7	775.3	778.3	798.6	807.3	813.1	807.3	816.0
65°	644.7	670.8	676.6	688.2	728.9	731.8	755.0	775.3	769.5	763.7	778.3
67.5°	595.3	627.2	624.4	638.8	679.5	685.3	705.7	740.5	728.9	723.1	734.7
70°	540.1	563.4	566.2	575.0	630.2	621.4	653.4	685.3	676.6	679.5	679.5
72.5°	479.1	499.5	499.5	516.9	575.0	560.4	586.6	621.4	621.4	618.6	618.6
75°	406.5	418.1	429.8	455.9	516.9	499.5	516.9	548.8	554.6	548.8	548.8
77.5°	328.2	345.6	351.4	386.2	429.8	426.9	444.3	458.8	470.5	464.7	464.7
80°	232.3	249.8	273.0	310.7	336.8	345.6	354.3	365.9	371.7	371.7	377.5
82.5°	130.7	156.8	177.1	214.9	226.5	270.0	267.2	275.8	267.2	235.2	261.4
85°	29.0	55.2	78.4	98.7	113.3	156.8	165.5	185.9	153.9	142.3	142.3
87.5°	0.0	0.0	0.0	0.0	0.0	23.2	46.4	63.9	55.2	46.4	46.4
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):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	14148.0	14148.0	14148.0	14148.0	14148.0	14148.0	14148.0	14148.0	14148.0	14148.0
2.5°	12347.5	12600.1	12905.1	13430.7	13799.5	14197.3	14598.1	15025.0	15138.2	15254.3
5°	10009.8	10506.4	10776.5	11482.2	12222.7	13163.5	13933.0	14775.2	15126.6	15207.9
7.5°	7582.1	7919.0	8627.6	9341.9	10259.6	11246.9	12425.9	13738.5	14148.0	14319.3
10°	6011.1	6470.0	7091.4	7858.1	8662.4	9725.2	11055.3	12588.5	13169.3	13265.2
12.5°	5116.7	5627.8	6304.5	7114.6	7875.5	8676.9	10018.6	11601.2	12222.7	12428.8
15°	4091.6	4710.2	5491.3	6345.1	7172.7	8049.7	9408.8	11194.6	11911.9	12153.0
17.5°	3214.6	3714.1	4559.1	5485.5	6467.0	7576.3	9280.9	11389.2	12272.0	12495.6
20°	2459.6	2816.8	3528.2	4506.9	5656.8	7108.8	9312.9	12123.9	13180.9	13485.9
22.5°	2125.7	2308.6	2741.3	3673.5	4959.9	6702.3	9443.6	13131.5	14406.4	14914.5
25°	1925.3	2021.2	2265.1	2874.9	4294.9	6307.3	9742.6	14487.7	16119.7	16456.6
27.5°	1754.0	1823.7	1974.7	2413.2	3690.9	5941.4	10091.2	15992.0	17719.8	18222.2
30°	1591.3	1684.3	1826.6	2143.1	3304.7	5607.5	10529.7	17211.6	19067.2	19534.7
32.5°	1466.5	1559.4	1690.1	1954.3	2976.6	5256.1	10791.0	18283.2	20167.8	20565.6
35°	1364.9	1443.2	1579.7	1803.4	2726.8	4989.0	10738.7	19134.0	21233.6	21640.1
37.5°	1292.3	1359.1	1495.6	1661.1	2538.1	4710.2	10712.6	20257.8	22531.6	23002.0
40°	1225.4	1295.1	1420.0	1568.1	2349.2	4382.0	10727.1	21372.9	23913.8	24384.3
42.5°	1173.2	1251.6	1353.3	1542.0	2154.7	4117.8	10727.1	22342.8	25116.1	25569.1
45°	1129.6	1213.8	1312.5	1539.1	2000.8	3917.4	10654.5	23176.3	26074.4	26460.6
47.5°	1091.9	1184.8	1327.1	1486.8	1963.1	3772.2	10590.6	23844.2	26855.6	27218.5
50°	1065.7	1176.1	1411.3	1425.8	1974.7	3728.7	10898.4	24686.3	27543.8	27857.4
52.5°	1045.4	1179.0	1408.4	1335.8	1954.3	3757.7	11540.2	26001.8	28499.1	28522.4
55°	1004.7	1176.1	1335.8	1234.2	1870.1	3807.0	12365.0	27912.5	29994.7	30012.1
57.5°	964.1	1144.2	1240.0	1147.0	1698.8	3807.0	13358.1	29721.7	31798.0	31812.5
60°	923.4	1190.6	1089.0	1071.5	1475.2	3737.3	14406.4	30517.4	32364.3	32512.4
62.5°	882.8	1199.4	972.8	1004.7	1312.5	3569.0	15187.5	29637.5	31597.6	31809.6
65°	836.3	967.0	897.3	935.0	1228.4	3287.2	14940.7	28025.8	30157.3	30410.0
67.5°	781.1	818.9	816.0	862.4	1199.4	2872.0	13639.8	25987.2	28606.6	28592.1
70°	714.3	734.7	743.4	792.8	1144.2	2549.7	11365.9	23341.8	26536.1	26861.4
72.5°	644.7	662.1	670.8	714.3	1089.0	2366.7	8822.2	19697.3	22984.6	23492.8
75°	569.2	580.8	592.4	630.2	1030.9	2096.6	6284.1	15036.6	17603.6	18402.2
77.5°	490.7	490.7	505.3	543.0	868.2	1730.8	4216.5	10547.1	11926.5	12742.4
80°	397.9	400.7	394.9	435.6	638.8	1184.8	2395.8	7045.0	7936.4	8093.3
82.5°	304.9	296.2	299.1	319.4	476.3	807.3	1277.7	4376.2	4460.4	4373.3
85°	191.7	191.7	185.9	209.1	304.9	421.1	696.9	2680.4	2093.8	1992.1
87.5°	78.4	63.9	72.6	84.2	145.2	171.3	273.0	551.8	212.0	194.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)