

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: P651407

Luminaire Tested: **GALN-SA5D-840-U-SLL**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P651407  
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-840-U-SLL  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 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: 28084.3 lumens  
Efficiency: N/A  
Efficacy: 90.9 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B3 - U0 - G4

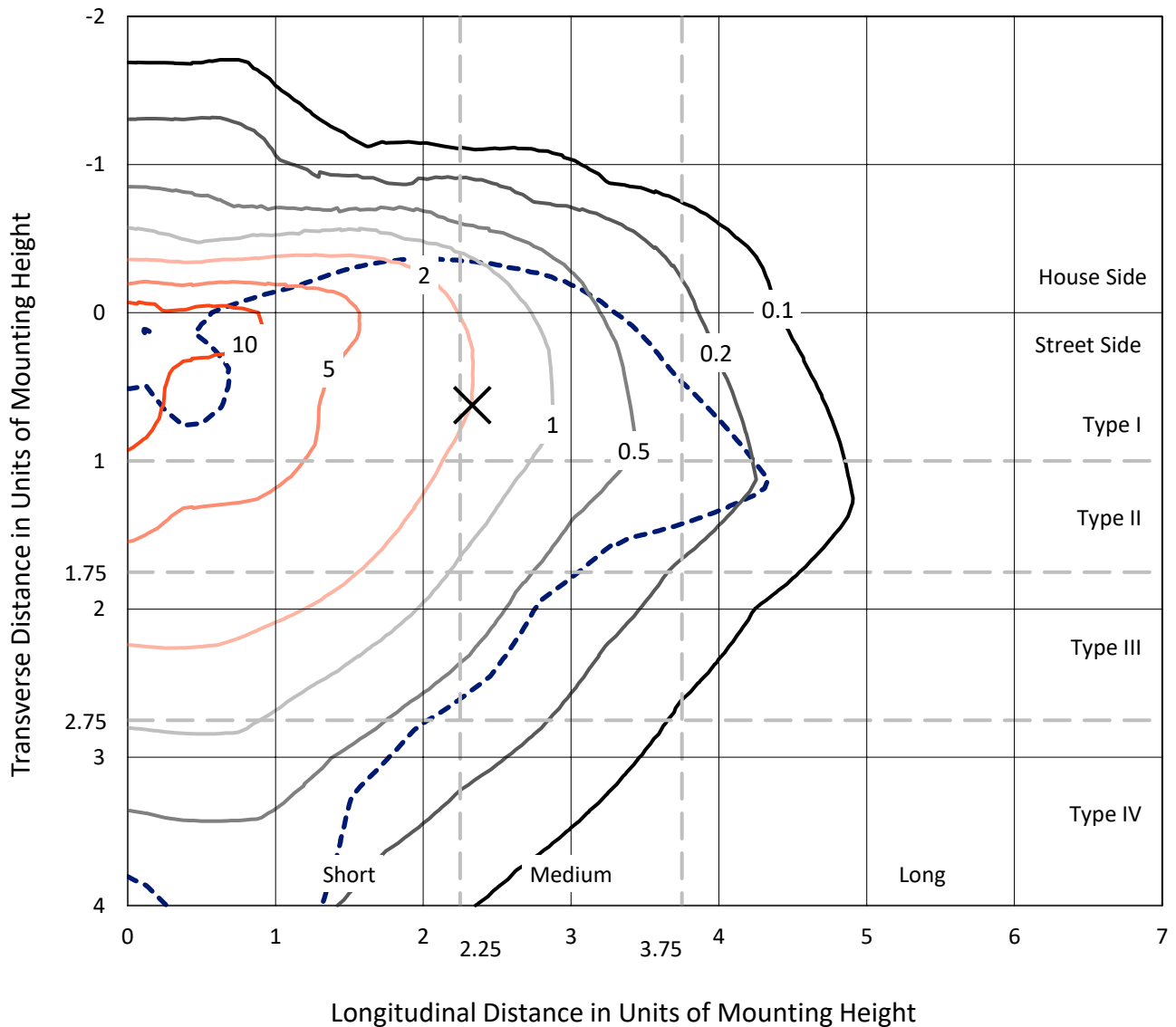
Input Watts (W): 309  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

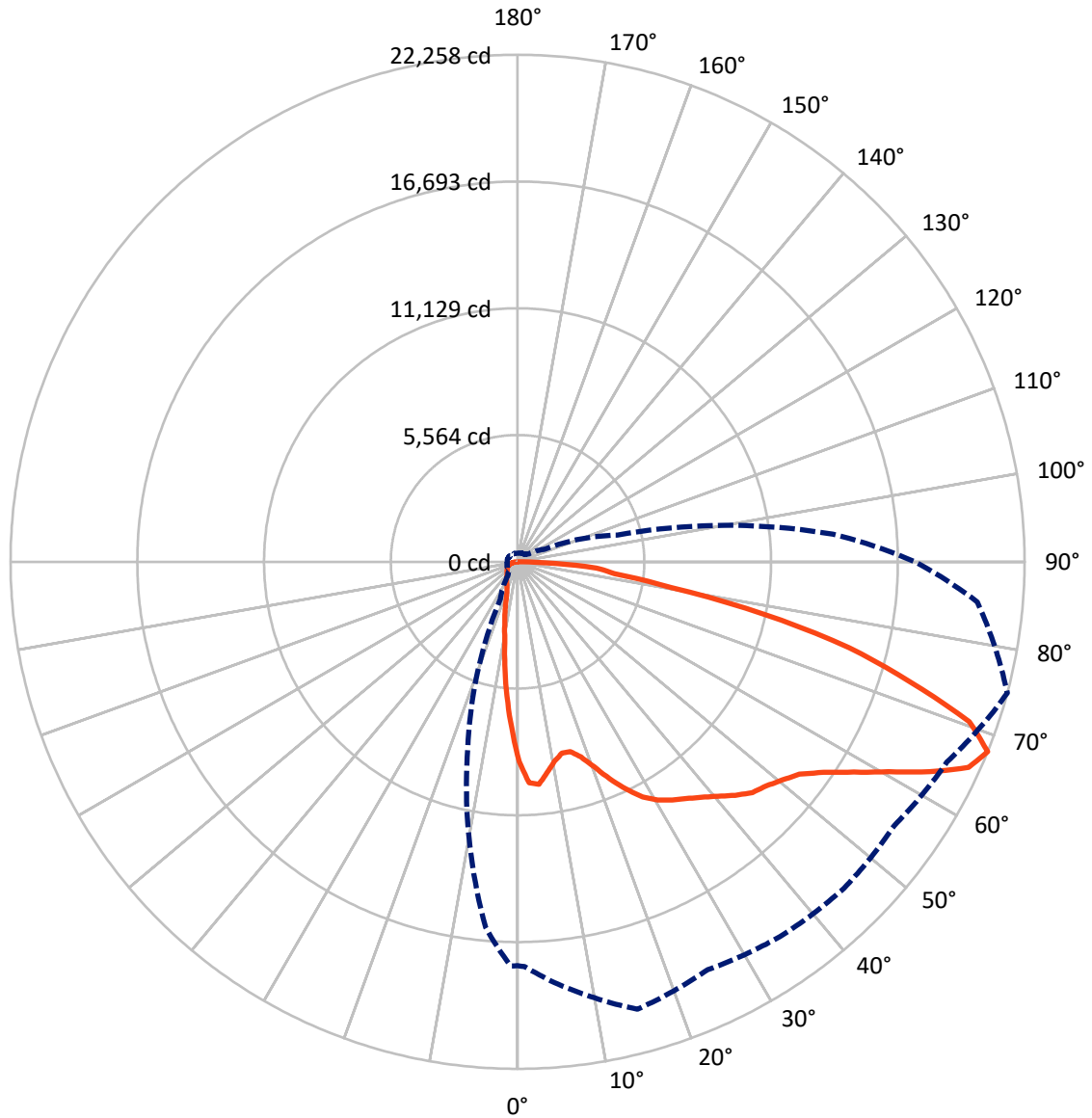
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.3 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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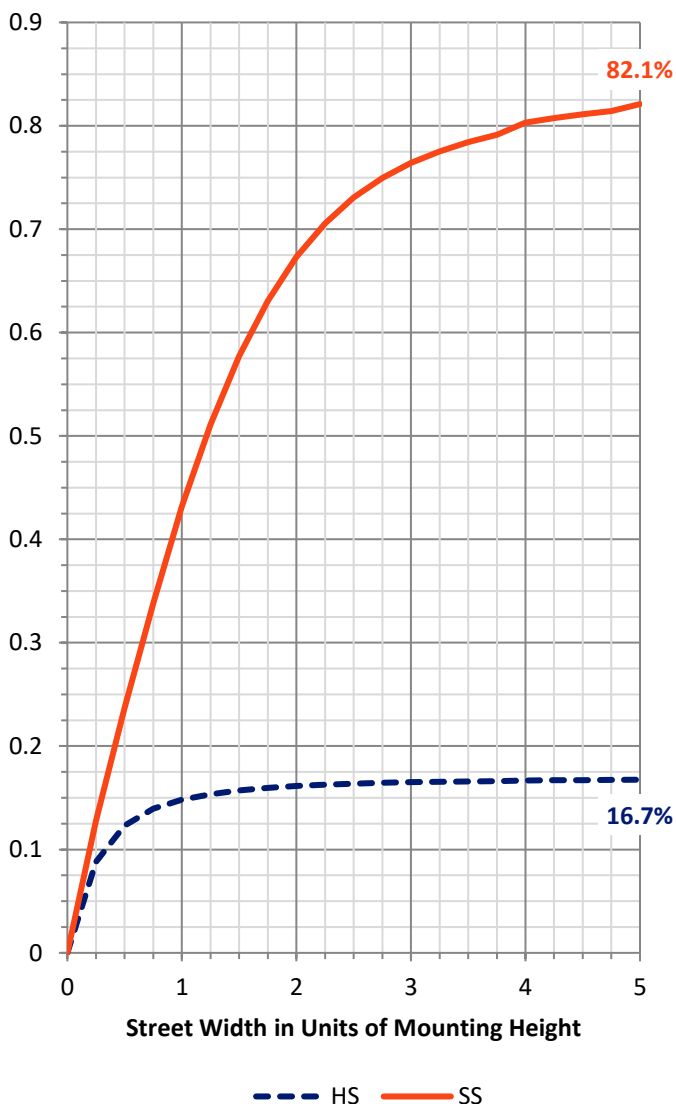
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4746.9	0.0	4746.9
	% Fixture	16.9	0.0	16.9
<b>Street Side</b>	Lumens	23337.5	0.0	23337.5
	% Fixture	83.1	0.0	83.1
<b>Total</b>	Lumens	28084.3	0.0	28084.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	665.5	2.4
10°-20°	1387.9	4.9
20°-30°	1997.2	7.1
30°-40°	2876.6	10.2
40°-50°	4040.8	14.4
50°-60°	5635.5	20.1
60°-70°	6700.3	23.9
70°-80°	3946.1	14.1
80°-90°	834.4	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°	28084.3	100.0
0°-180°	28084.3	100.0

**Coefficient of Utilization**

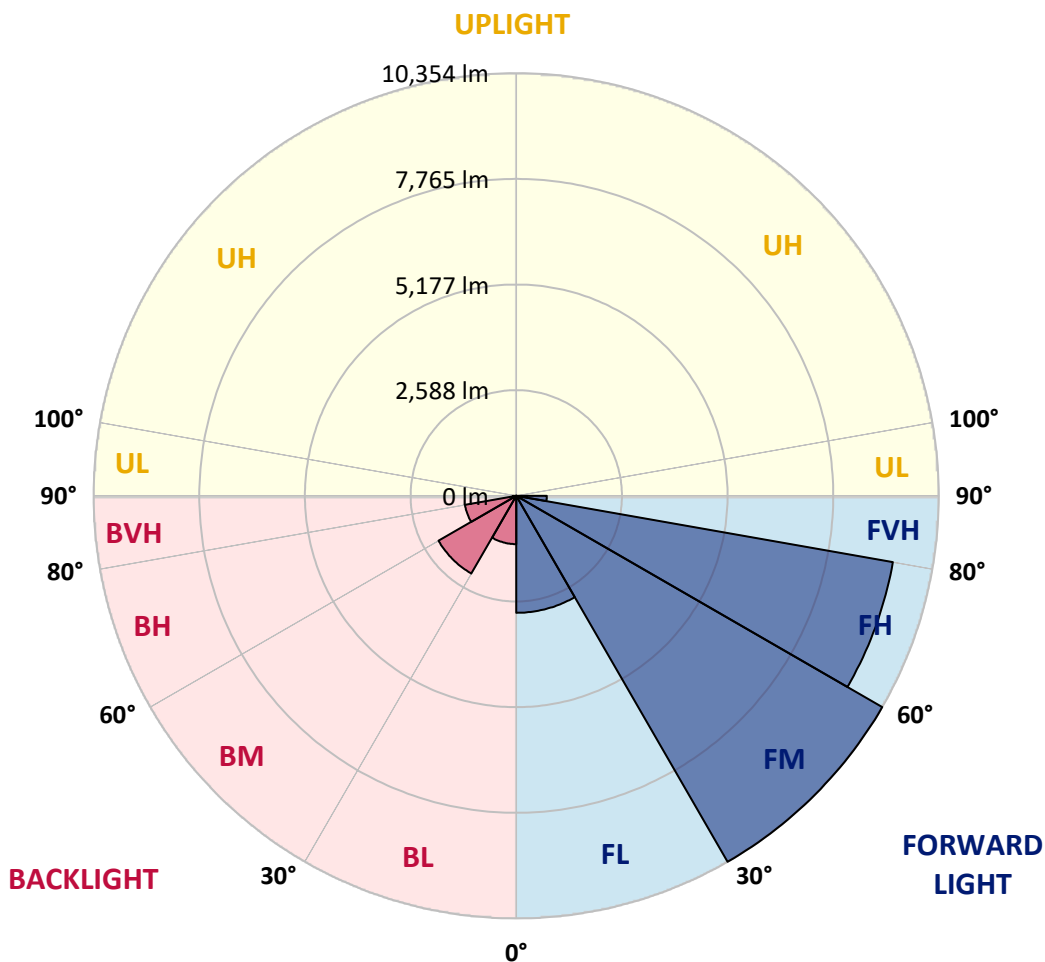


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2866.6	10.2			
FM (30°-60°)	10353.7	36.9			
FH (60°-80°)	9369.0	33.4			G4/12000
FVH (80°-90°)	748.1	2.7			G4/750
BL (0°-30°)	1184.0	4.2	B3/2500		
BM (30°-60°)	2199.2	7.8	B2/2500		
BH (60°-80°)	1277.3	4.5	B3/2500		G3/2500
BVH (80°-90°)	86.3	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-G4**  
 Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	8774.2	8774.2	8774.2	8774.2	8774.2	8774.2	8774.2	8774.2	8774.2	8774.2	8774.2
2.5°	9460.4	9473.0	9554.0	9789.9	9952.1	10011.4	10052.9	9975.4	9899.8	9716.1	9438.8
5°	9431.6	9505.4	9716.1	10245.6	10663.4	10843.5	10897.5	10665.2	10281.6	9809.8	9242.4
7.5°	8880.5	8979.5	9303.7	10191.6	10928.1	11349.5	11293.7	10874.1	10182.6	9341.5	8549.1
10°	8226.7	8336.6	8727.4	9800.8	10749.8	11329.8	11329.8	10818.3	9899.8	8900.3	7987.2
12.5°	7708.0	7823.3	8270.0	9399.2	10378.9	10928.1	11020.0	10580.5	9696.3	8621.2	7618.0
15°	7537.0	7648.6	8129.4	9156.1	9986.3	10321.3	10351.9	10207.8	9597.2	8640.9	7601.8
17.5°	7749.5	7893.5	8379.8	9228.0	9626.1	9645.8	9669.3	9782.8	9608.1	9002.9	7929.5
20°	8363.6	8518.5	9026.4	9460.4	9310.9	9105.6	9118.2	9409.9	9735.9	9600.9	8713.0
22.5°	9249.7	9384.7	9905.2	9869.2	9177.7	8754.4	8666.2	9073.2	9925.1	10346.4	9546.9
25°	10206.0	10364.5	10962.4	10476.1	9215.4	8545.5	8489.6	8875.1	10121.4	11043.4	10510.3
27.5°	11300.9	11455.8	11927.7	11088.4	9413.6	8529.3	8462.6	8857.1	10297.8	11688.1	11430.6
30°	12114.9	12257.2	12577.8	11603.5	9656.7	8637.3	8554.5	8999.4	10449.1	12129.4	12327.5
32.5°	12754.3	12901.9	13076.7	11924.0	9977.3	8833.6	8680.5	9258.7	10647.2	12466.1	12992.0
35°	13420.7	13595.4	13582.7	12208.6	10276.2	9060.6	8911.1	9633.2	10958.7	12759.7	13834.9
37.5°	14265.3	14335.5	14245.5	12464.4	10634.6	9469.4	9386.6	10189.7	11401.8	13114.5	14820.0
40°	15122.5	15263.1	14800.2	12774.1	11070.4	10238.4	10229.4	11012.8	11927.7	13530.5	15774.5
42.5°	15857.3	15976.2	15318.9	13044.2	11598.1	11176.7	11245.1	12116.8	12617.4	14013.2	16541.7
45°	16410.3	16516.5	15797.9	13305.4	12293.2	12260.9	12664.3	13300.0	13487.3	14447.2	16991.9
47.5°	16880.3	16982.9	16131.1	13701.6	13152.3	13555.7	14258.1	14533.7	14231.1	14695.7	17496.2
50°	17276.5	17307.1	16359.8	14173.5	14218.5	15142.4	15823.2	16001.5	14965.8	15052.3	17933.8
52.5°	17688.9	17649.3	16754.2	14767.8	15371.1	16647.9	17143.2	17328.7	15670.0	15491.7	18571.4
55°	18612.8	18650.6	17638.5	15517.0	16536.3	18126.6	18778.5	18600.2	16449.9	16300.3	19381.8
57.5°	19729.4	19697.0	18883.0	16689.4	17723.1	19502.5	19988.7	19702.4	17490.8	17411.6	20203.0
60°	20163.4	20206.6	19923.9	17950.1	18893.7	20707.3	21204.4	20759.5	18738.8	18702.8	20822.6
62.5°	19727.6	19970.7	20161.6	19072.0	19891.5	21593.3	22086.8	21579.0	20040.9	20302.1	21256.6
65°	18859.5	18911.7	19561.9	20022.9	20372.3	21739.3	21996.8	21726.6	21128.7	21759.0	21236.8
67.5°	17732.1	17777.1	18538.9	20334.5	19752.8	20082.4	20262.5	20183.2	20792.0	22257.9	20258.8
70°	16658.8	16622.8	17427.8	19540.3	17195.4	16694.8	16844.3	16595.7	17941.1	21038.7	18340.9
72.5°	14569.7	14699.3	15563.8	17332.3	13615.2	12801.1	13127.1	12484.1	13798.9	18018.5	14886.6
75°	11412.6	11443.2	12885.8	14546.3	10270.8	8986.8	9427.9	9159.6	10569.8	15030.7	10279.8
77.5°	7902.5	7834.1	9384.7	11110.0	7324.4	6578.9	6586.0	6458.2	7380.3	11066.8	6984.1
80°	5019.3	4914.8	5874.7	6863.4	5033.6	5384.8	5208.3	5202.9	4805.0	6827.4	4223.2
82.5°	2712.2	2827.5	3711.8	4302.5	3610.9	4162.0	3814.4	3702.8	3297.6	4273.6	2701.5
85°	1235.4	1343.5	1979.2	2926.5	2742.8	2773.4	1853.1	2186.3	2728.5	3470.4	1442.6
87.5°	120.7	154.9	408.8	1381.3	936.5	738.4	275.5	531.3	686.2	1233.7	115.3
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):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	8774.2	8774.2	8774.2	8774.2	8774.2	8774.2	8774.2	8774.2	8774.2	8774.2	8774.2
2.5°	9325.3	9231.7	8912.9	8649.9	8370.8	8158.3	7880.9	7695.5	7567.6	7374.9	7351.4
5°	8896.7	8667.9	8113.3	7547.8	7059.7	6692.3	6319.5	5977.3	5775.7	5712.6	5631.6
7.5°	8174.5	7789.1	7075.9	6427.6	5867.5	5320.0	4898.6	4599.6	4399.7	4282.6	4142.2
10°	7580.2	7133.5	6265.5	5471.3	5010.3	4669.8	4298.9	3978.3	3731.6	3520.8	3405.6
12.5°	7180.4	6676.1	5700.0	5055.3	4698.7	4336.7	3902.7	3542.5	3178.6	2939.1	2836.5
15°	7059.7	6526.7	5525.3	4848.1	4336.7	3863.0	3376.8	2906.7	2546.5	2319.6	2244.0
17.5°	7355.0	6710.3	5523.5	4572.6	3911.7	3346.2	2723.1	2281.8	1912.6	1743.3	1689.3
20°	7906.2	7063.3	5539.8	4300.6	3450.6	2654.6	1981.1	1619.1	1442.6	1370.5	1343.5
22.5°	8675.2	7601.8	5588.4	4032.3	2946.4	2038.7	1483.9	1300.3	1237.3	1224.7	1219.3
25°	9622.5	8268.1	5752.2	3791.0	2521.3	1556.0	1240.8	1158.0	1122.0	1109.4	1107.6
27.5°	10494.1	9129.0	5950.3	3583.9	2110.7	1341.7	1122.0	1051.8	1015.8	1013.9	1017.5
30°	11281.2	9849.4	6116.0	3351.6	1799.2	1192.2	1044.5	974.3	940.1	938.3	949.1
32.5°	11961.9	10441.9	6238.5	3122.8	1626.2	1100.4	974.3	898.7	869.8	864.5	869.8
35°	12689.5	11032.6	6182.6	2944.5	1527.2	1024.8	922.1	848.2	814.0	797.9	797.9
37.5°	13519.7	11641.3	6087.2	2796.8	1482.2	961.7	877.1	805.0	770.8	754.6	752.8
40°	14425.6	12250.0	5955.7	2665.4	1437.2	923.9	846.5	770.8	729.4	713.2	709.6
42.5°	15225.2	12770.5	5847.6	2578.9	1363.3	931.1	819.5	745.6	693.4	671.8	669.9
45°	15920.4	13294.6	5827.9	2528.6	1302.1	920.3	812.2	725.8	664.6	641.2	637.6
47.5°	16464.3	13840.3	5941.3	2499.7	1235.4	862.6	859.1	713.2	639.3	614.1	610.5
50°	17127.0	14614.7	6200.7	2440.2	1174.2	808.6	907.7	711.4	619.6	587.1	578.1
52.5°	18009.5	15623.3	6551.8	2334.0	1086.0	758.2	866.2	711.4	596.1	563.7	552.9
55°	19344.0	16909.1	6895.9	2184.6	961.7	691.6	781.6	689.8	561.9	533.1	525.9
57.5°	20228.2	17849.2	7115.5	1977.4	806.9	642.9	673.6	655.6	527.6	497.0	497.0
60°	20273.2	18101.3	7011.1	1716.3	709.6	598.0	585.3	660.9	497.0	464.7	461.0
62.5°	19754.6	17483.6	6467.2	1482.2	657.3	549.3	529.5	579.9	466.4	434.0	428.7
65°	18944.2	15907.8	5523.5	1370.5	628.6	506.0	477.3	475.4	434.0	403.4	396.2
67.5°	17454.8	13901.5	4538.4	1305.7	614.1	457.4	430.4	421.4	396.2	371.0	367.4
70°	15259.4	11643.1	3639.7	1278.7	606.9	407.0	385.4	374.6	353.0	333.2	331.4
72.5°	11871.8	9444.2	3004.0	1260.7	603.3	360.2	336.7	322.4	309.7	291.7	291.7
75°	8527.5	6948.1	2292.6	1136.4	558.3	309.7	284.5	275.5	257.5	243.1	246.7
77.5°	5375.8	4678.9	1509.2	835.6	432.2	248.5	226.9	221.5	207.1	187.3	199.9
80°	3630.7	3290.3	880.7	525.9	272.0	181.9	174.7	172.9	156.7	135.1	136.8
82.5°	2470.9	2424.1	457.4	299.0	156.7	106.2	102.7	106.2	88.2	72.1	72.1
85°	965.3	1318.3	216.1	117.1	50.5	16.2	23.4	25.2	14.4	7.2	9.0
87.5°	18.0	135.1	5.4	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°	8774.2	8774.2	8774.2	8774.2	8774.2	8774.2	8774.2	8774.2	8774.2	8774.2	8774.2
2.5°	7315.4	7299.2	7326.3	7211.0	7234.4	7277.6	7299.2	7311.8	7490.1	7448.7	7562.2
5°	5707.2	5691.0	5795.4	5809.9	5863.9	5853.1	5905.3	5917.9	5982.8	6006.2	6164.6
7.5°	4151.2	4221.4	4340.3	4401.5	4493.4	4522.1	4495.1	4561.8	4426.7	4524.0	4552.8
10°	3335.3	3250.7	3200.3	3340.8	3358.8	3492.0	3438.0	3394.8	3474.0	3477.6	3553.3
12.5°	2777.1	2595.2	2474.5	2514.1	2557.3	2615.0	2624.0	2710.5	2768.1	2822.1	2867.1
15°	2177.3	2114.3	2004.4	1950.4	2011.7	2035.1	2090.9	2163.0	2224.2	2240.3	2301.6
17.5°	1671.3	1682.1	1664.1	1631.6	1669.5	1687.5	1691.1	1692.8	1709.1	1698.3	1788.3
20°	1345.3	1383.1	1428.2	1435.3	1447.9	1456.9	1440.7	1379.5	1381.3	1419.2	1447.9
22.5°	1217.4	1224.7	1275.0	1291.3	1330.9	1314.7	1267.9	1239.0	1235.4	1244.4	1258.9
25°	1116.6	1127.4	1163.4	1188.6	1219.3	1190.4	1156.2	1129.2	1125.6	1134.6	1149.0
27.5°	1026.5	1042.8	1075.1	1100.4	1129.2	1102.2	1069.8	1046.4	1044.5	1042.8	1051.8
30°	954.5	972.5	995.9	1024.8	1044.5	1021.1	990.5	977.9	976.1	972.5	976.1
32.5°	882.5	911.3	934.7	949.1	968.9	950.9	927.5	920.3	907.7	896.8	891.5
35°	801.4	832.0	868.1	886.1	905.8	887.8	871.7	841.1	819.5	817.6	821.2
37.5°	754.6	767.2	796.0	826.6	846.5	837.5	806.9	776.2	770.8	770.8	774.4
40°	713.2	718.6	731.2	770.8	806.9	779.8	742.0	733.0	733.0	731.2	733.0
42.5°	671.8	677.2	677.2	707.8	765.4	722.2	693.4	693.4	693.4	695.2	700.6
45°	633.9	635.7	633.9	655.6	709.6	673.6	653.7	659.2	662.7	666.3	669.9
47.5°	601.5	603.3	601.5	619.6	646.6	632.1	621.3	628.6	635.7	641.2	644.7
50°	572.7	570.9	574.5	585.3	598.0	601.5	594.3	605.1	608.7	615.9	624.9
52.5°	547.5	545.7	549.3	554.7	572.7	572.7	572.7	581.7	588.9	596.1	608.7
55°	518.6	520.5	525.9	533.1	556.5	552.9	554.7	561.9	569.1	579.9	587.1
57.5°	491.6	495.3	502.5	513.3	536.6	534.9	536.6	540.3	549.3	554.7	561.9
60°	461.0	468.3	477.3	484.4	507.9	506.0	515.1	522.3	527.6	527.6	531.3
62.5°	430.4	441.3	450.3	455.7	480.9	482.6	495.3	500.6	504.3	500.6	506.0
65°	399.8	416.0	419.7	426.8	452.0	453.8	468.3	480.9	477.3	473.7	482.6
67.5°	369.2	389.0	387.2	396.2	421.4	425.0	437.7	459.3	452.0	448.4	455.7
70°	335.0	349.4	351.2	356.6	390.8	385.4	405.2	425.0	419.7	421.4	421.4
72.5°	297.1	309.7	309.7	320.6	356.6	347.6	363.8	385.4	385.4	383.6	383.6
75°	252.1	259.4	266.5	282.7	320.6	309.7	320.6	340.4	344.0	340.4	340.4
77.5°	203.5	214.3	217.9	239.5	266.5	264.7	275.5	284.5	291.7	288.1	288.1
80°	144.1	154.9	169.3	192.7	208.9	214.3	219.8	226.9	230.5	230.5	234.1
82.5°	81.1	97.2	109.8	133.3	140.4	167.5	165.7	171.1	165.7	145.9	162.1
85°	18.0	34.2	48.6	61.2	70.2	97.2	102.7	115.3	95.5	88.2	88.2
87.5°	0.0	0.0	0.0	0.0	0.0	14.4	28.8	39.6	34.2	28.8	28.8
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°	8774.2	8774.2	8774.2	8774.2	8774.2	8774.2	8774.2	8774.2	8774.2	8774.2
2.5°	7657.6	7814.3	8003.4	8329.3	8558.1	8804.8	9053.4	9318.1	9388.3	9460.4
5°	6207.8	6515.8	6683.3	7120.9	7580.2	8163.7	8640.9	9163.2	9381.1	9431.6
7.5°	4702.3	4911.2	5350.6	5793.6	6362.8	6975.1	7706.3	8520.3	8774.2	8880.5
10°	3728.0	4012.5	4397.9	4873.3	5372.2	6031.4	6856.2	7807.1	8167.3	8226.7
12.5°	3173.3	3490.2	3909.9	4412.3	4884.2	5381.2	6213.3	7194.8	7580.2	7708.0
15°	2537.5	2921.1	3405.6	3935.0	4448.3	4992.3	5835.1	6942.6	7387.5	7537.0
17.5°	1993.7	2303.4	2827.5	3402.0	4010.7	4698.7	5755.8	7063.3	7610.8	7749.5
20°	1525.4	1746.9	2188.1	2795.1	3508.2	4408.7	5775.7	7519.0	8174.5	8363.6
22.5°	1318.3	1431.7	1700.1	2278.2	3076.0	4156.6	5856.6	8143.9	8934.5	9249.7
25°	1194.1	1253.4	1404.7	1782.9	2663.6	3911.7	6042.2	8984.9	9997.1	10206.0
27.5°	1087.7	1131.0	1224.7	1496.6	2289.0	3684.8	6258.3	9917.8	10989.3	11300.9
30°	986.9	1044.5	1132.8	1329.1	2049.5	3477.6	6530.2	10674.2	11825.0	12114.9
32.5°	909.5	967.2	1048.1	1212.0	1846.0	3259.7	6692.3	11338.8	12507.6	12754.3
35°	846.5	895.1	979.7	1118.4	1691.1	3094.0	6659.9	11866.4	13168.5	13420.7
37.5°	801.4	842.9	927.5	1030.1	1574.0	2921.1	6643.7	12563.4	13973.6	14265.3
40°	760.0	803.2	880.7	972.5	1456.9	2717.6	6652.7	13255.0	14830.8	15122.5
42.5°	727.5	776.2	839.2	956.3	1336.3	2553.8	6652.7	13856.5	15576.4	15857.3
45°	700.6	752.8	814.0	954.5	1240.8	2429.5	6607.7	14373.4	16170.7	16410.3
47.5°	677.2	734.8	823.0	922.1	1217.4	2339.4	6568.0	14787.6	16655.2	16880.3
50°	660.9	729.4	875.2	884.2	1224.7	2312.4	6758.9	15309.8	17082.0	17276.5
52.5°	648.3	731.2	873.5	828.5	1212.0	2330.4	7157.0	16125.7	17674.5	17688.9
55°	623.1	729.4	828.5	765.4	1159.8	2361.0	7668.4	17310.7	18602.0	18612.8
57.5°	598.0	709.6	769.0	711.4	1053.5	2361.0	8284.4	18432.7	19720.4	19729.4
60°	572.7	738.4	675.3	664.6	914.8	2317.8	8934.5	18926.2	20071.6	20163.4
62.5°	547.5	743.8	603.3	623.1	814.0	2213.3	9418.9	18380.5	19596.1	19727.6
65°	518.6	599.7	556.5	579.9	761.8	2038.7	9265.9	17380.9	18702.8	18859.5
67.5°	484.4	507.9	506.0	534.9	743.8	1781.2	8459.0	16116.7	17741.1	17732.1
70°	443.0	455.7	461.0	491.6	709.6	1581.2	7048.9	14476.0	16457.0	16658.8
72.5°	399.8	410.6	416.0	443.0	675.3	1467.8	5471.3	12215.9	14254.5	14569.7
75°	353.0	360.2	367.4	390.8	639.3	1300.3	3897.3	9325.3	10917.4	11412.6
77.5°	304.4	304.4	313.4	336.7	538.5	1073.4	2615.0	6541.0	7396.5	7902.5
80°	246.7	248.5	244.9	270.1	396.2	734.8	1485.8	4369.1	4922.0	5019.3
82.5°	189.1	183.7	185.5	198.1	295.4	500.6	792.4	2714.0	2766.2	2712.2
85°	118.8	118.8	115.3	129.7	189.1	261.1	432.2	1662.2	1298.5	1235.4
87.5°	48.6	39.6	45.0	52.2	90.1	106.2	169.3	342.2	131.4	120.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)