

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: P650802

Luminaire Tested: **GALN-SA3C-840-U-SLL**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P650802  
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-SA3C-840-U-SLL  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 80 CRI, 4000K, 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: 15214.5 lumens  
Efficiency: N/A  
Efficacy: 95.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B2 - U0 - G3

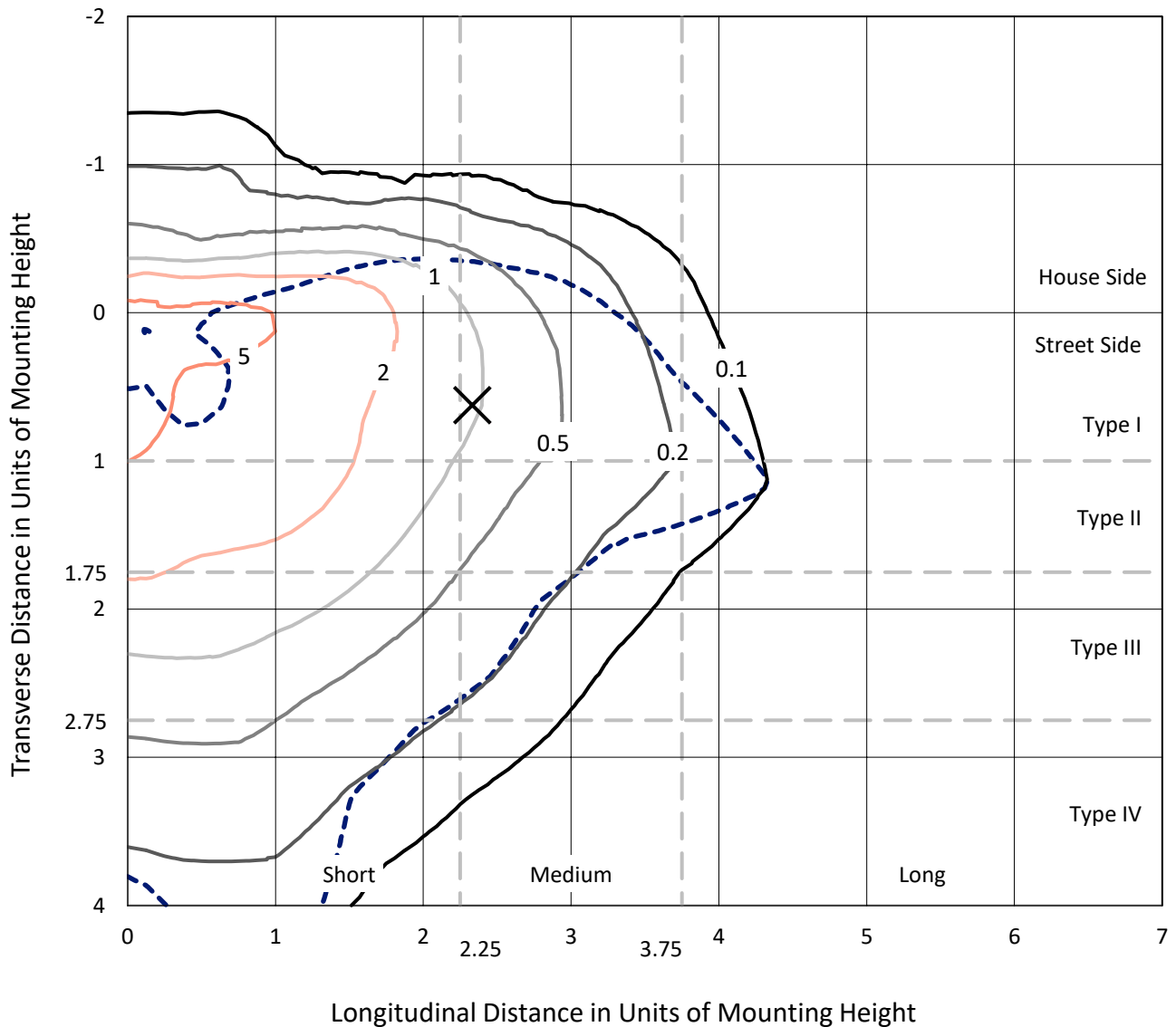
Input Watts (W): 160  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

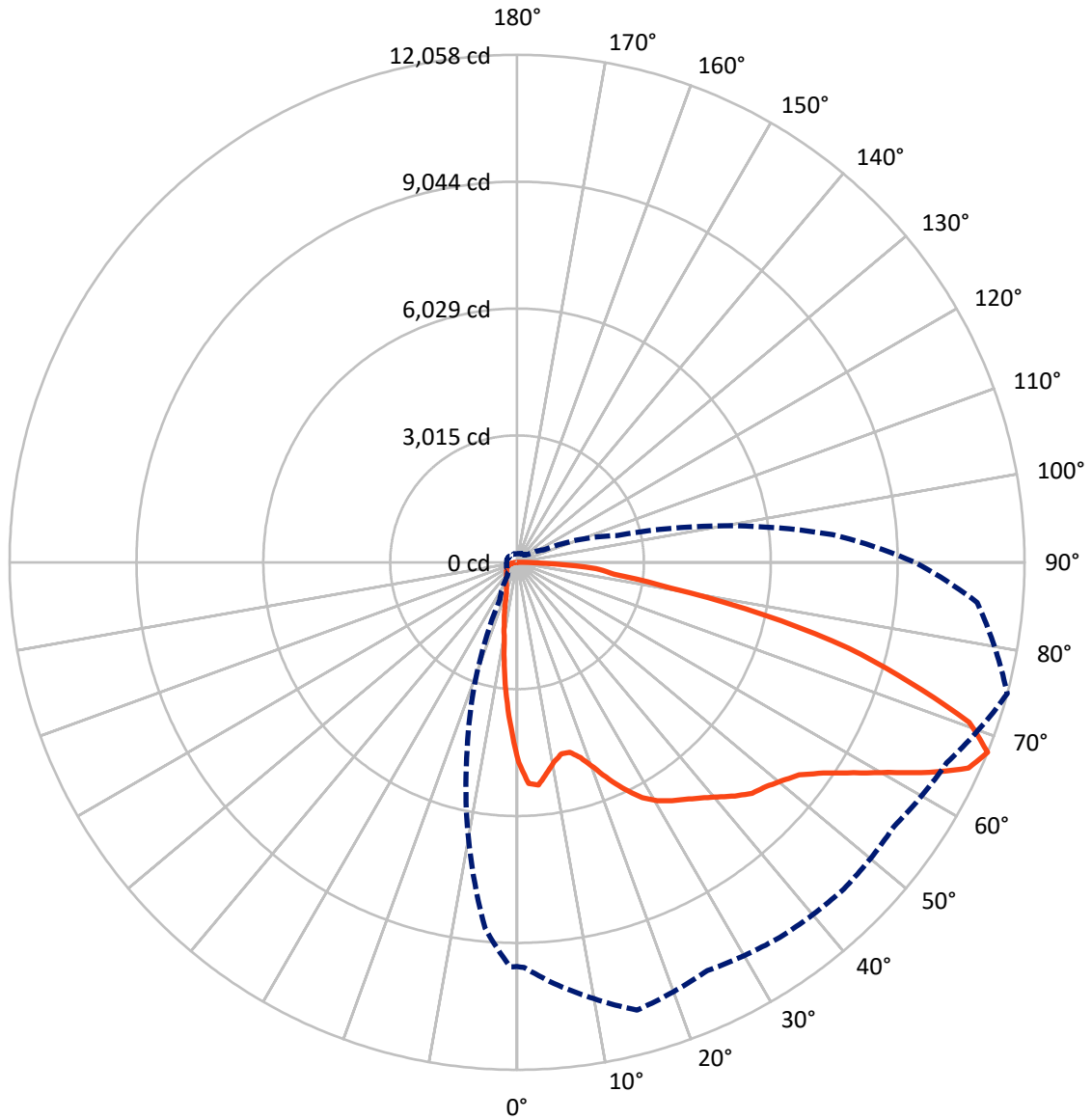
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.4 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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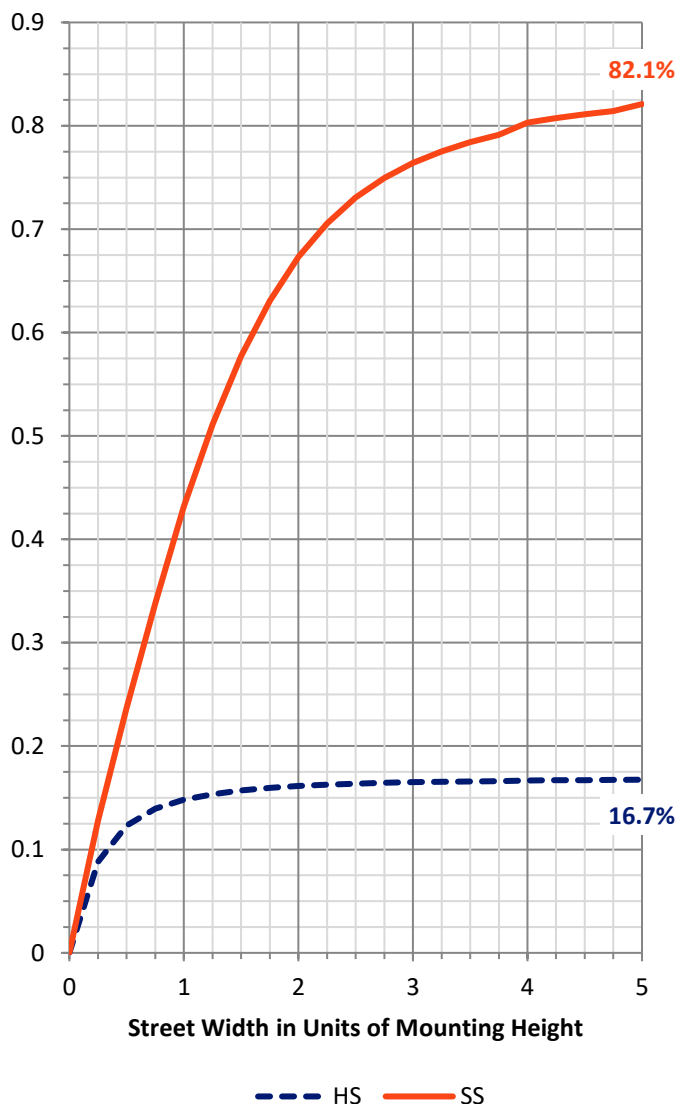
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2571.6	0.0	2571.6
	% Fixture	16.9	0.0	16.9
<b>Street Side</b>	Lumens	12642.9	0.0	12642.9
	% Fixture	83.1	0.0	83.1
<b>Total</b>	Lumens	15214.5	0.0	15214.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	360.5	2.4
10°-20°	751.9	4.9
20°-30°	1082.0	7.1
30°-40°	1558.4	10.2
40°-50°	2189.1	14.4
50°-60°	3053.0	20.1
60°-70°	3629.8	23.9
70°-80°	2137.8	14.1
80°-90°	452.0	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°	15214.5	100.0
0°-180°	15214.5	100.0

**Coefficient of Utilization**

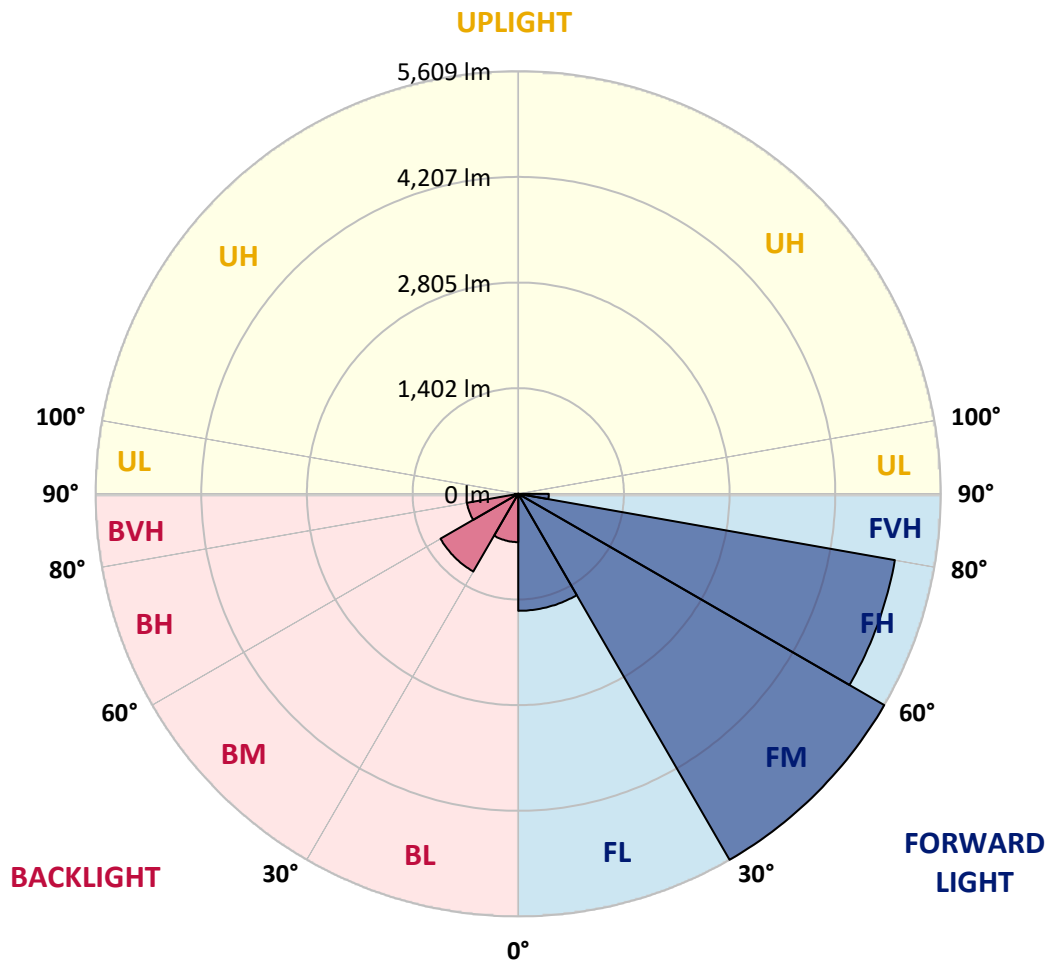


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1553.0	10.2			
FM (30°-60°)	5609.0	36.9			
FH (60°-80°)	5075.6	33.4			G3/7500
FVH (80°-90°)	405.3	2.7			G3/500
BL (0°-30°)	641.4	4.2	B2/1000		
BM (30°-60°)	1191.4	7.8	B2/2500		
BH (60°-80°)	692.0	4.5	B2/1000		G2/1000
BVH (80°-90°)	46.8	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G3**  
 Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	4753.4	4753.4	4753.4	4753.4	4753.4	4753.4	4753.4	4753.4	4753.4	4753.4	4753.4
2.5°	5125.1	5132.0	5175.9	5303.7	5391.5	5423.7	5446.1	5404.1	5363.1	5263.7	5113.4
5°	5109.5	5149.5	5263.7	5550.5	5776.8	5874.4	5903.7	5777.8	5570.0	5314.4	5007.1
7.5°	4810.9	4864.6	5040.2	5521.2	5920.2	6148.6	6118.4	5891.0	5516.4	5060.7	4631.4
10°	4456.8	4516.3	4728.0	5309.5	5823.7	6137.9	6137.9	5860.8	5363.1	4821.7	4327.0
12.5°	4175.8	4238.2	4480.2	5091.9	5622.7	5920.2	5970.0	5731.9	5252.9	4670.4	4127.0
15°	4083.1	4143.6	4404.1	4960.2	5410.0	5591.5	5608.0	5530.0	5199.2	4681.2	4118.2
17.5°	4198.3	4276.3	4539.7	4999.2	5214.9	5225.6	5238.3	5299.7	5205.1	4877.3	4295.8
20°	4531.0	4614.8	4890.0	5125.1	5044.1	4932.9	4939.7	5097.8	5274.4	5201.2	4720.2
22.5°	5010.9	5084.1	5366.1	5346.6	4971.9	4742.7	4694.8	4915.3	5376.8	5605.1	5171.9
25°	5529.0	5614.9	5938.8	5675.4	4992.4	4629.5	4599.3	4808.0	5483.2	5982.7	5693.9
27.5°	6122.2	6206.2	6461.7	6007.1	5099.7	4620.7	4584.6	4798.2	5578.8	6332.0	6192.5
30°	6563.2	6640.3	6814.0	6286.1	5231.4	4679.2	4634.3	4875.4	5660.8	6571.0	6678.4
32.5°	6909.6	6989.6	7084.2	6459.8	5405.1	4785.5	4702.6	5015.8	5768.1	6753.5	7038.3
35°	7270.5	7365.2	7358.4	6614.0	5567.1	4908.5	4827.5	5218.7	5936.9	6912.5	7495.0
37.5°	7728.1	7766.2	7717.4	6752.5	5761.3	5130.0	5085.1	5520.2	6176.9	7104.7	8028.6
40°	8192.5	8268.6	8017.9	6920.3	5997.3	5546.6	5541.7	5966.1	6461.7	7330.1	8545.7
42.5°	8590.6	8655.0	8298.9	7066.7	6283.2	6054.9	6092.0	6564.2	6835.4	7591.5	8961.4
45°	8890.1	8947.7	8558.4	7208.1	6659.8	6642.2	6860.8	7205.2	7306.7	7826.7	9205.2
47.5°	9144.8	9200.4	8738.9	7422.8	7125.2	7343.7	7724.2	7873.5	7709.6	7961.3	9478.5
50°	9359.4	9376.1	8862.8	7678.4	7702.8	8203.3	8572.1	8668.7	8107.7	8154.5	9715.6
52.5°	9582.9	9561.4	9076.5	8000.3	8327.2	9019.0	9287.2	9387.7	8489.1	8392.6	10061.0
55°	10083.3	10103.9	9555.5	8406.2	8958.4	9819.9	10173.2	10076.5	8911.6	8830.7	10500.0
57.5°	10688.3	10670.7	10229.8	9041.3	9601.4	10565.3	10828.8	10673.6	9475.5	9432.6	10944.9
60°	10923.4	10946.8	10793.6	9724.3	10235.6	11218.0	11487.3	11246.4	10151.6	10132.1	11280.5
62.5°	10687.3	10819.0	10922.4	10332.2	10776.1	11698.1	11965.4	11690.2	10857.1	10998.5	11515.6
65°	10217.1	10245.3	10597.5	10847.3	11036.6	11777.1	11916.6	11770.3	11446.3	11787.9	11504.9
67.5°	9606.2	9630.6	10043.4	11016.1	10701.0	10879.5	10977.1	10934.2	11263.9	12058.1	10975.1
70°	9024.8	9005.3	9441.4	10585.8	9315.5	9044.3	9125.3	8990.6	9719.4	11397.6	9936.1
72.5°	7893.0	7963.3	8431.6	9389.7	7375.9	6935.0	7111.5	6763.2	7475.5	9761.4	8064.8
75°	6182.7	6199.3	6980.8	7880.3	5564.1	4868.5	5107.6	4962.2	5726.1	8142.8	5569.0
77.5°	4281.2	4244.1	5084.1	6018.8	3968.0	3564.1	3567.9	3498.7	3998.2	5995.4	3783.6
80°	2719.1	2662.5	3182.6	3718.2	2726.9	2917.2	2821.6	2818.7	2603.1	3698.7	2287.9
82.5°	1469.3	1531.8	2010.8	2330.8	1956.2	2254.7	2066.4	2006.0	1786.5	2315.2	1463.5
85°	669.3	727.8	1072.3	1585.5	1485.9	1502.5	1004.0	1184.5	1478.1	1880.1	781.5
87.5°	65.3	83.9	221.4	748.3	507.4	400.0	149.3	287.8	371.7	668.3	62.4
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):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4753.4	4753.4	4753.4	4753.4	4753.4	4753.4	4753.4	4753.4	4753.4	4753.4	4753.4
2.5°	5052.0	5001.2	4828.5	4686.1	4534.8	4419.7	4269.4	4169.0	4099.7	3995.3	3982.6
5°	4819.7	4695.8	4395.3	4088.9	3824.5	3625.6	3423.5	3238.2	3128.9	3094.8	3050.9
7.5°	4428.5	4219.7	3833.4	3482.1	3178.6	2882.1	2653.8	2491.8	2383.5	2320.1	2244.0
10°	4106.5	3864.6	3394.3	2964.0	2714.2	2529.9	2328.9	2155.2	2021.5	1907.4	1845.0
12.5°	3890.0	3616.7	3087.9	2738.6	2545.5	2349.3	2114.3	1919.1	1722.0	1592.3	1536.7
15°	3824.5	3535.7	2993.3	2626.4	2349.3	2092.7	1829.3	1574.7	1379.6	1256.6	1215.7
17.5°	3984.6	3635.3	2992.4	2477.2	2119.2	1812.8	1475.2	1236.2	1036.1	944.4	915.2
20°	4283.1	3826.6	3001.1	2329.8	1869.4	1438.1	1073.2	877.1	781.5	742.4	727.8
22.5°	4699.8	4118.2	3027.4	2184.5	1596.1	1104.4	803.9	704.4	670.3	663.5	660.5
25°	5212.9	4479.3	3116.2	2053.7	1366.0	842.9	672.2	627.4	607.8	601.0	600.1
27.5°	5685.2	4945.6	3223.6	1941.5	1143.4	726.9	607.8	569.8	550.3	549.3	551.3
30°	6111.5	5335.8	3313.3	1815.7	974.7	645.9	565.9	527.8	509.3	508.3	514.2
32.5°	6480.3	5656.8	3379.6	1691.8	881.0	596.1	527.8	486.9	471.2	468.4	471.2
35°	6874.4	5976.8	3349.5	1595.2	827.4	555.1	499.6	459.5	441.0	432.2	432.2
37.5°	7324.2	6306.7	3297.7	1515.2	803.0	521.0	475.2	436.1	417.6	408.8	407.8
40°	7815.0	6636.4	3226.5	1444.0	778.6	500.5	458.6	417.6	395.1	386.4	384.4
42.5°	8248.2	6918.3	3168.0	1397.2	738.6	504.4	444.0	403.9	375.6	363.9	363.0
45°	8624.8	7202.2	3157.2	1369.8	705.4	498.5	440.0	393.2	360.0	347.3	345.4
47.5°	8919.4	7497.9	3218.7	1354.2	669.3	467.3	465.4	386.4	346.3	332.7	330.8
50°	9278.4	7917.4	3359.2	1322.0	636.1	438.1	491.7	385.3	335.6	318.1	313.2
52.5°	9756.5	8463.8	3549.4	1264.4	588.3	410.7	469.3	385.3	322.9	305.4	299.6
55°	10479.4	9160.4	3735.8	1183.5	521.0	374.7	423.4	373.7	304.4	288.8	284.9
57.5°	10958.6	9669.7	3854.8	1071.3	437.1	348.3	364.9	355.2	285.9	269.3	269.3
60°	10983.0	9806.3	3798.2	929.8	384.4	324.0	317.1	358.1	269.3	251.7	249.8
62.5°	10701.9	9471.6	3503.6	803.0	356.1	297.5	286.9	314.2	252.7	235.1	232.2
65°	10262.9	8618.0	2992.4	742.4	340.5	274.2	258.5	257.6	235.1	218.6	214.6
67.5°	9456.0	7531.1	2458.7	707.4	332.7	247.8	233.2	228.3	214.6	201.0	199.1
70°	8266.7	6307.6	1971.8	692.7	328.8	220.5	208.8	202.9	191.2	180.5	179.6
72.5°	6431.5	5116.3	1627.4	683.0	326.8	195.1	182.4	174.7	167.8	158.0	158.0
75°	4619.7	3764.1	1242.0	615.6	302.4	167.8	154.2	149.3	139.5	131.7	133.6
77.5°	2912.3	2534.8	817.6	452.7	234.1	134.6	123.0	120.0	112.2	101.5	108.3
80°	1966.9	1782.5	477.1	284.9	147.3	98.6	94.6	93.7	84.9	73.2	74.2
82.5°	1338.6	1313.2	247.8	162.0	84.9	57.5	55.6	57.5	47.8	39.0	39.0
85°	522.9	714.2	117.1	63.4	27.3	8.7	12.7	13.6	7.8	3.9	4.9
87.5°	9.8	73.2	2.9	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°	4753.4	4753.4	4753.4	4753.4	4753.4	4753.4	4753.4	4753.4	4753.4	4753.4	4753.4
2.5°	3963.1	3954.3	3968.9	3906.5	3919.2	3942.6	3954.3	3961.1	4057.7	4035.3	4096.8
5°	3091.9	3083.0	3139.6	3147.4	3176.7	3170.9	3199.2	3206.0	3241.1	3253.8	3339.7
7.5°	2248.9	2286.9	2351.4	2384.5	2434.3	2449.8	2435.2	2471.4	2398.2	2450.8	2466.5
10°	1806.9	1761.1	1733.7	1809.8	1819.6	1891.8	1862.6	1839.1	1882.1	1884.0	1925.0
12.5°	1504.5	1405.9	1340.6	1362.0	1385.5	1416.7	1421.5	1468.4	1499.6	1528.9	1553.2
15°	1179.6	1145.4	1085.9	1056.6	1089.8	1102.5	1132.7	1171.8	1204.9	1213.7	1246.9
17.5°	905.4	911.2	901.5	884.0	904.4	914.2	916.1	917.1	925.9	920.1	968.8
20°	728.8	749.3	773.7	777.6	784.4	789.3	780.5	747.3	748.3	768.8	784.4
22.5°	659.5	663.5	690.8	699.5	721.0	712.2	686.8	671.3	669.3	674.1	682.0
25°	604.9	610.7	630.2	644.0	660.5	644.9	626.4	611.7	609.8	614.7	622.5
27.5°	556.2	564.9	582.5	596.1	611.7	597.1	579.5	566.8	565.9	564.9	569.8
30°	517.1	526.9	539.5	555.1	565.9	553.2	536.6	529.7	528.8	526.9	528.8
32.5°	478.1	493.7	506.4	514.2	524.9	515.1	502.5	498.5	491.7	485.8	483.0
35°	434.1	450.8	470.3	480.0	490.7	481.0	472.2	455.7	444.0	443.0	444.9
37.5°	408.8	415.6	431.3	447.8	458.6	453.7	437.1	420.5	417.6	417.6	419.5
40°	386.4	389.3	396.1	417.6	437.1	422.4	402.0	397.1	397.1	396.1	397.1
42.5°	363.9	366.8	366.8	383.4	414.6	391.2	375.6	375.6	375.6	376.6	379.5
45°	343.5	344.4	343.5	355.2	384.4	364.9	354.1	357.1	359.0	361.0	363.0
47.5°	325.9	326.8	325.9	335.6	350.3	342.5	336.6	340.5	344.4	347.3	349.3
50°	310.2	309.3	311.3	317.1	324.0	325.9	321.9	327.8	329.8	333.7	338.6
52.5°	296.6	295.6	297.5	300.5	310.2	310.2	310.2	315.1	319.1	322.9	329.8
55°	281.0	282.0	284.9	288.8	301.5	299.6	300.5	304.4	308.3	314.2	318.1
57.5°	266.3	268.3	272.2	278.0	290.7	289.8	290.7	292.7	297.5	300.5	304.4
60°	249.8	253.6	258.5	262.5	275.2	274.2	279.0	282.9	285.9	285.9	287.8
62.5°	233.2	239.0	243.9	246.8	260.5	261.5	268.3	271.2	273.2	271.2	274.2
65°	216.6	225.4	227.3	231.2	244.9	245.8	253.6	260.5	258.5	256.6	261.5
67.5°	200.0	210.8	209.7	214.6	228.3	230.3	237.1	248.8	244.9	243.0	246.8
70°	181.5	189.3	190.2	193.2	211.7	208.8	219.5	230.3	227.3	228.3	228.3
72.5°	161.0	167.8	167.8	173.7	193.2	188.3	197.0	208.8	208.8	207.8	207.8
75°	136.6	140.5	144.4	153.1	173.7	167.8	173.7	184.4	186.4	184.4	184.4
77.5°	110.3	116.1	118.1	129.8	144.4	143.4	149.3	154.2	158.0	156.1	156.1
80°	78.0	83.9	91.8	104.4	113.2	116.1	119.0	123.0	124.9	124.9	126.8
82.5°	43.9	52.6	59.5	72.2	76.1	90.7	89.7	92.7	89.7	79.1	87.8
85°	9.8	18.5	26.3	33.1	38.0	52.6	55.6	62.4	51.7	47.8	47.8
87.5°	0.0	0.0	0.0	0.0	0.0	7.8	15.6	21.4	18.5	15.6	15.6
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°	4753.4	4753.4	4753.4	4753.4	4753.4	4753.4	4753.4	4753.4	4753.4	4753.4
2.5°	4148.5	4233.3	4335.8	4512.4	4636.3	4770.0	4904.6	5048.0	5086.1	5125.1
5°	3363.1	3529.9	3620.7	3857.8	4106.5	4422.7	4681.2	4964.1	5082.2	5109.5
7.5°	2547.4	2660.6	2898.7	3138.7	3447.0	3778.7	4174.8	4615.8	4753.4	4810.9
10°	2019.6	2173.7	2382.6	2640.2	2910.4	3267.5	3714.3	4229.5	4424.6	4456.8
12.5°	1719.1	1890.8	2118.1	2390.4	2646.0	2915.2	3366.0	3897.7	4106.5	4175.8
15°	1374.7	1582.5	1845.0	2131.8	2409.9	2704.5	3161.2	3761.1	4002.2	4083.1
17.5°	1080.0	1247.9	1531.8	1843.0	2172.8	2545.5	3118.2	3826.6	4123.1	4198.3
20°	826.4	946.4	1185.4	1514.2	1900.6	2388.4	3128.9	4073.4	4428.5	4531.0
22.5°	714.2	775.7	921.0	1234.2	1666.4	2251.8	3172.8	4411.9	4840.2	5010.9
25°	646.9	679.0	761.0	965.9	1443.0	2119.2	3273.3	4867.5	5415.9	5529.0
27.5°	589.3	612.7	663.5	810.8	1240.1	1996.2	3390.4	5372.9	5953.4	6122.2
30°	534.6	565.9	613.7	720.1	1110.3	1884.0	3537.8	5782.7	6406.1	6563.2
32.5°	492.7	523.9	567.8	656.7	1000.0	1765.9	3625.6	6142.7	6775.9	6909.6
35°	458.6	484.9	530.8	605.9	916.1	1676.2	3608.0	6428.6	7134.0	7270.5
37.5°	434.1	456.6	502.5	558.1	852.7	1582.5	3599.1	6806.1	7570.1	7728.1
40°	411.8	435.1	477.1	526.9	789.3	1472.3	3604.0	7180.8	8034.5	8192.5
42.5°	394.2	420.5	454.6	518.1	723.9	1383.4	3604.0	7506.7	8438.4	8590.6
45°	379.5	407.8	441.0	517.1	672.2	1316.2	3579.6	7786.7	8760.4	8890.1
47.5°	366.8	398.0	445.9	499.6	659.5	1267.4	3558.2	8011.1	9022.8	9144.8
50°	358.1	395.1	474.2	479.0	663.5	1252.8	3661.6	8294.0	9254.0	9359.4
52.5°	351.2	396.1	473.2	448.8	656.7	1262.5	3877.3	8736.0	9575.0	9582.9
55°	337.6	395.1	448.8	414.6	628.3	1279.1	4154.3	9378.0	10077.5	10083.3
57.5°	324.0	384.4	416.6	385.3	570.8	1279.1	4488.0	9985.8	10683.4	10688.3
60°	310.2	400.0	365.8	360.0	495.6	1255.7	4840.2	10253.1	10873.6	10923.4
62.5°	296.6	402.9	326.8	337.6	441.0	1199.1	5102.7	9957.5	10616.1	10687.3
65°	281.0	324.9	301.5	314.2	412.7	1104.4	5019.8	9416.0	10132.1	10217.1
67.5°	262.5	275.2	274.2	289.8	402.9	964.9	4582.6	8731.1	9611.1	9606.2
70°	240.0	246.8	249.8	266.3	384.4	856.6	3818.7	7842.3	8915.5	9024.8
72.5°	216.6	222.4	225.4	240.0	365.8	795.2	2964.0	6617.8	7722.3	7893.0
75°	191.2	195.1	199.1	211.7	346.3	704.4	2111.3	5052.0	5914.4	6182.7
77.5°	164.9	164.9	169.8	182.4	291.7	581.5	1416.7	3543.6	4007.0	4281.2
80°	133.6	134.6	132.7	146.3	214.6	398.0	804.9	2366.9	2666.5	2719.1
82.5°	102.4	99.5	100.5	107.3	160.0	271.2	429.2	1470.3	1498.6	1469.3
85°	64.4	64.4	62.4	70.2	102.4	141.5	234.1	900.5	703.4	669.3
87.5°	26.3	21.4	24.4	28.3	48.8	57.5	91.8	185.4	71.2	65.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)