

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: P648382

Luminaire Tested: **GALN-SA4B-835-U-SLL**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P648382  
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-SA4B-835-U-SLL  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 80 CRI, 3500K, 800mA 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: 15192.5 lumens  
Efficiency: N/A  
Efficacy: 92.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B2 - U0 - G3

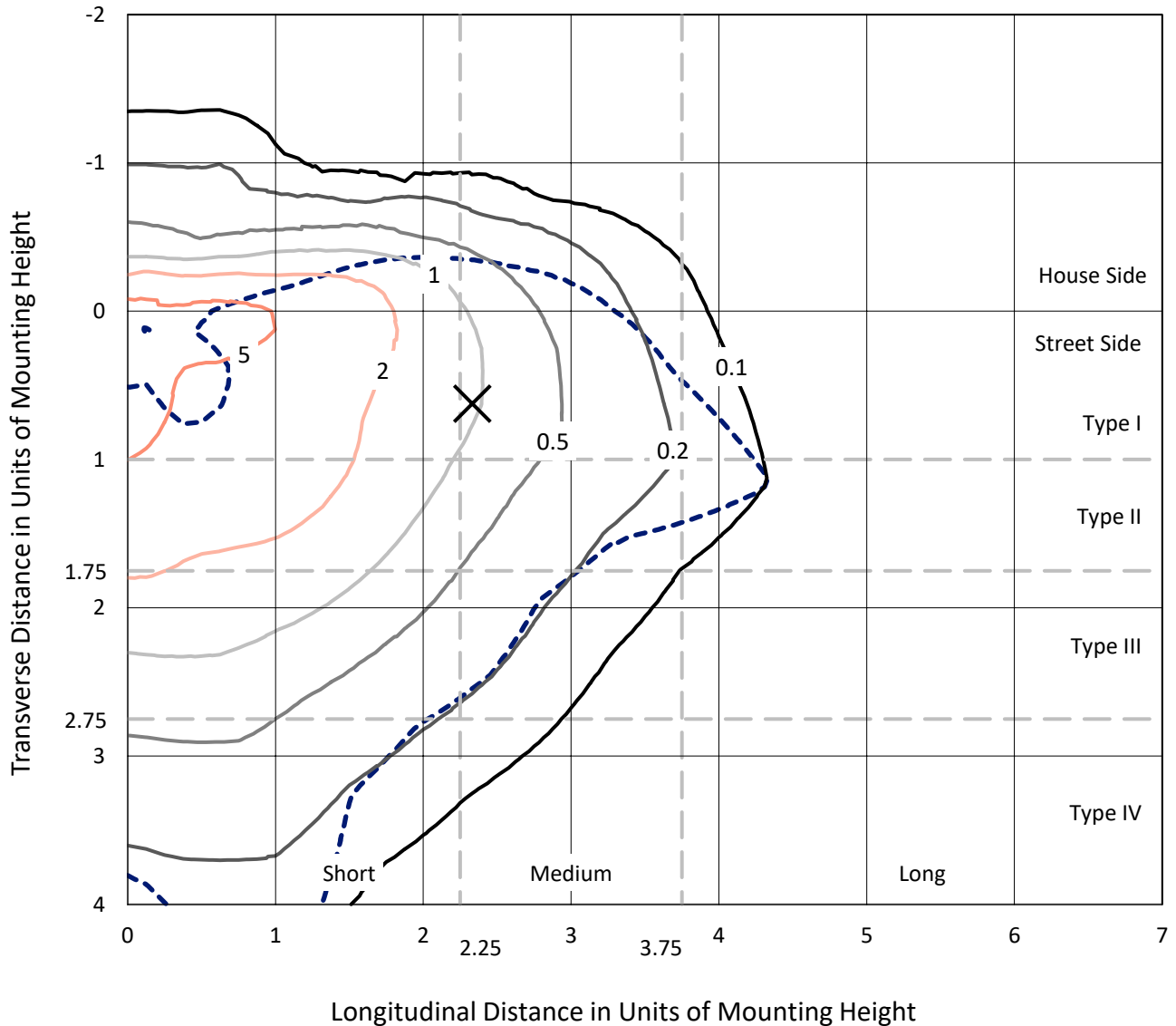
Input Watts (W): 164  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

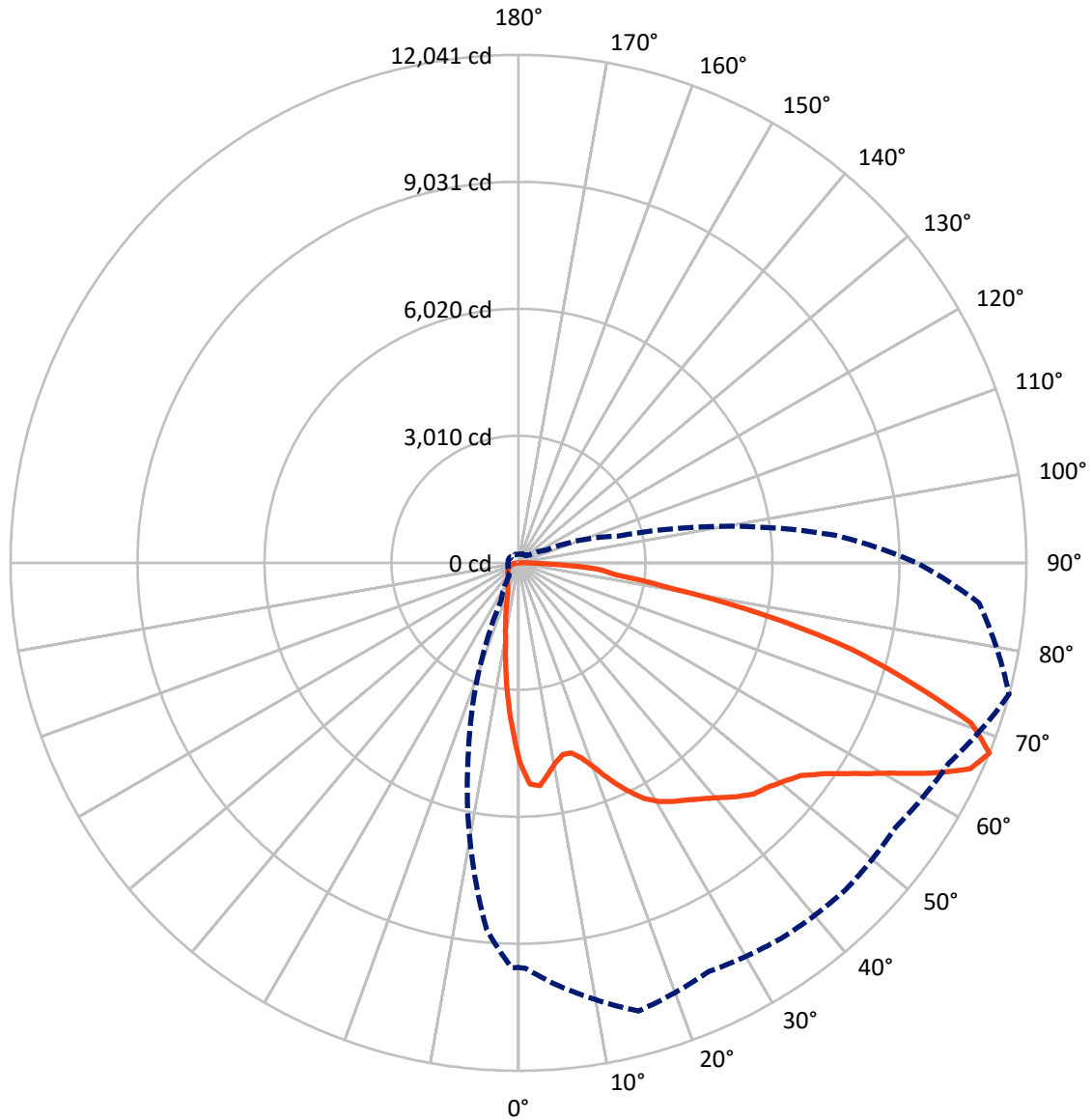
× Max cd  
 - - - 1/2 Max cd



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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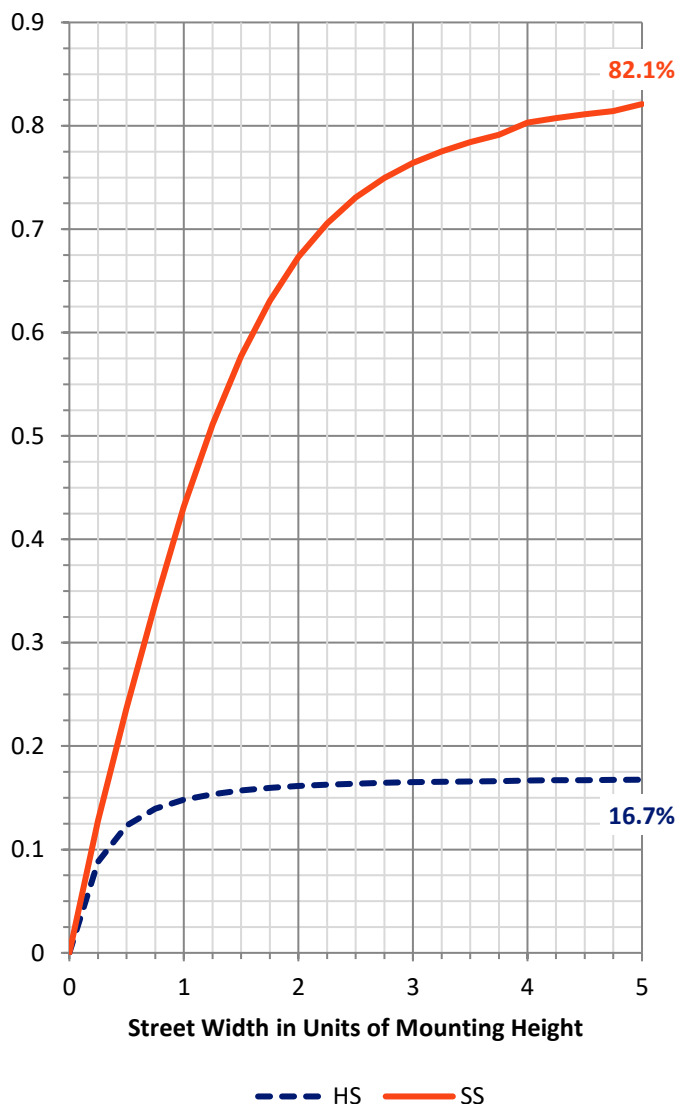
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2567.9	0.0	2567.9
	% Fixture	16.9	0.0	16.9
<b>Street Side</b>	Lumens	12624.7	0.0	12624.7
	% Fixture	83.1	0.0	83.1
<b>Total</b>	Lumens	15192.5	0.0	15192.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	360.0	2.4
10°-20°	750.8	4.9
20°-30°	1080.4	7.1
30°-40°	1556.1	10.2
40°-50°	2185.9	14.4
50°-60°	3048.6	20.1
60°-70°	3624.6	23.9
70°-80°	2134.7	14.1
80°-90°	451.4	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°	15192.5	100.0
0°-180°	15192.5	100.0

**Coefficient of Utilization**

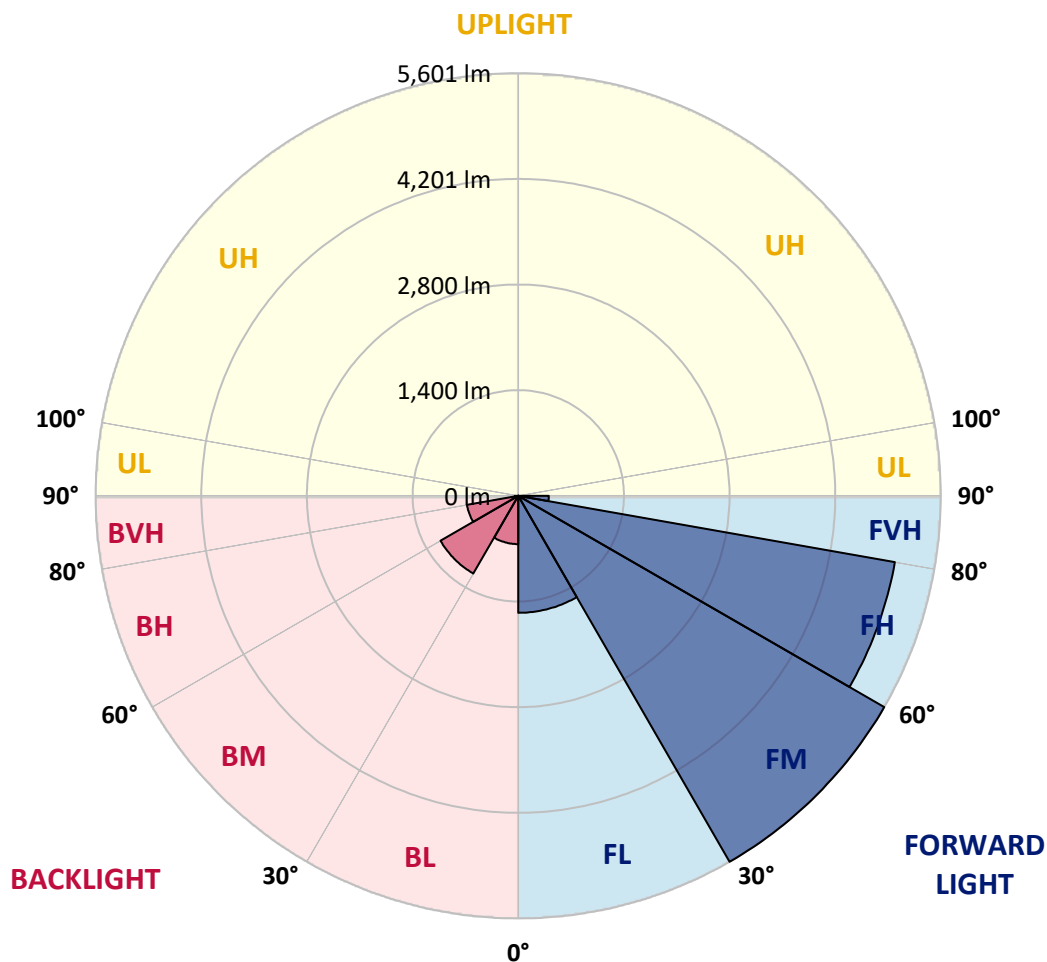


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1550.7	10.2			
FM (30°-60°)	5600.9	36.9			
FH (60°-80°)	5068.3	33.4			G3/7500
FVH (80°-90°)	404.7	2.7			G3/500
BL (0°-30°)	640.5	4.2	B2/1000		
BM (30°-60°)	1189.7	7.8	B2/2500		
BH (60°-80°)	691.0	4.5	B2/1000		G2/1000
BVH (80°-90°)	46.7	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°	4746.5	4746.5	4746.5	4746.5	4746.5	4746.5	4746.5	4746.5	4746.5	4746.5	4746.5
2.5°	5117.7	5124.5	5168.3	5296.0	5383.7	5415.9	5438.2	5396.4	5355.4	5256.0	5106.0
5°	5102.1	5142.0	5256.0	5542.5	5768.5	5865.9	5895.1	5769.5	5562.0	5306.7	4999.8
7.5°	4804.0	4857.6	5033.0	5513.3	5911.7	6139.7	6109.5	5882.4	5508.4	5053.4	4624.7
10°	4450.3	4509.8	4721.2	5301.8	5815.3	6128.9	6128.9	5852.3	5355.4	4814.7	4320.8
12.5°	4169.8	4232.1	4473.7	5084.6	5614.6	5911.7	5961.4	5723.7	5245.3	4663.7	4121.1
15°	4077.2	4137.6	4397.7	4953.0	5402.2	5583.4	5599.9	5522.0	5191.8	4674.4	4112.3
17.5°	4192.2	4270.1	4533.2	4992.0	5207.3	5218.1	5230.7	5292.1	5197.6	4870.3	4289.6
20°	4524.4	4608.2	4882.9	5117.7	5036.8	4925.8	4932.6	5090.4	5266.8	5193.7	4713.4
22.5°	5003.7	5076.8	5358.3	5338.9	4964.8	4735.8	4688.1	4908.2	5369.0	5597.0	5164.4
25°	5521.0	5606.7	5930.2	5667.2	4985.2	4622.8	4592.6	4801.0	5475.3	5974.1	5685.7
27.5°	6113.4	6197.1	6452.4	5998.4	5092.4	4614.0	4578.0	4791.3	5570.7	6322.8	6183.5
30°	6553.7	6630.7	6804.1	6277.1	5223.9	4672.5	4627.7	4868.3	5652.6	6561.5	6668.7
32.5°	6899.6	6979.5	7074.0	6450.4	5397.3	4778.6	4695.9	5008.6	5759.7	6743.7	7028.2
35°	7260.1	7354.6	7347.8	6604.4	5559.1	4901.4	4820.5	5211.3	5928.2	6902.5	7484.1
37.5°	7717.0	7755.0	7706.3	6742.7	5752.9	5122.5	5077.8	5512.2	6167.9	7094.4	8017.1
40°	8180.7	8256.7	8006.3	6910.3	5988.7	5538.6	5533.7	5957.5	6452.4	7319.5	8533.4
42.5°	8578.2	8642.5	8286.9	7056.5	6274.1	6046.2	6083.2	6554.7	6825.6	7580.6	8948.4
45°	8877.3	8934.8	8546.1	7197.7	6650.2	6632.6	6850.9	7194.8	7296.1	7815.4	9192.0
47.5°	9131.6	9187.1	8726.3	7412.0	7114.9	7333.1	7713.1	7862.1	7698.5	7949.8	9464.7
50°	9345.9	9362.5	8850.0	7667.3	7691.6	8191.4	8559.7	8656.1	8096.0	8142.7	9701.5
52.5°	9569.0	9547.6	9063.4	7988.8	8315.1	9005.9	9273.9	9374.2	8476.9	8380.4	10046.4
55°	10068.8	10089.3	9541.7	8394.1	8945.5	9805.7	10158.4	10062.0	8898.7	8817.9	10484.8
57.5°	10672.8	10655.3	10214.9	9028.3	9587.5	10550.1	10813.2	10658.2	9461.9	9419.0	10929.0
60°	10907.7	10931.0	10778.1	9710.3	10220.8	11201.8	11470.7	11230.1	10137.0	10117.5	11264.2
62.5°	10671.8	10803.4	10906.6	10317.2	10760.5	11681.2	11948.1	11673.4	10841.3	10982.7	11499.0
65°	10202.3	10230.5	10582.2	10831.6	11020.6	11760.1	11899.4	11753.3	11429.8	11770.8	11488.3
67.5°	9592.4	9616.7	10028.8	11000.2	10685.5	10863.8	10961.2	10918.3	11247.6	12040.7	10959.3
70°	9011.8	8992.3	9427.7	10570.5	9302.0	9031.2	9112.1	8977.6	9705.4	11381.1	9921.7
72.5°	7881.6	7951.8	8419.4	9376.1	7365.3	6924.9	7101.3	6753.5	7464.7	9747.3	8053.1
75°	6173.8	6190.3	6970.7	7869.0	5556.1	4861.5	5100.1	4955.0	5717.9	8131.1	5560.9
77.5°	4274.9	4238.0	5076.8	6010.1	3962.2	3558.9	3562.8	3493.7	3992.4	5986.7	3778.1
80°	2715.2	2658.7	3178.0	3712.8	2723.0	2913.0	2817.5	2814.6	2599.2	3693.3	2284.6
82.5°	1467.2	1529.6	2007.9	2327.5	1953.4	2251.4	2063.4	2003.1	1783.8	2311.9	1461.4
85°	668.4	726.8	1070.7	1583.1	1483.8	1500.3	1002.5	1182.7	1476.0	1877.4	780.3
87.5°	65.3	83.8	221.1	747.2	506.6	399.4	149.1	287.4	371.2	667.4	62.3
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°	4746.5	4746.5	4746.5	4746.5	4746.5	4746.5	4746.5	4746.5	4746.5	4746.5	4746.5
2.5°	5044.6	4994.0	4821.6	4679.3	4528.2	4413.3	4263.3	4163.0	4093.8	3989.5	3976.9
5°	4812.8	4689.0	4388.9	4083.0	3819.0	3620.3	3418.7	3233.5	3124.4	3090.3	3046.5
7.5°	4422.1	4213.6	3827.8	3477.1	3174.0	2877.9	2649.9	2488.2	2380.1	2316.7	2240.8
10°	4100.6	3859.0	3389.4	2959.7	2710.4	2526.2	2325.5	2152.1	2018.7	1904.6	1842.3
12.5°	3884.3	3611.5	3083.5	2734.7	2541.8	2345.9	2111.2	1916.3	1719.5	1590.0	1534.4
15°	3819.0	3530.6	2988.9	2622.7	2345.9	2089.7	1826.7	1572.4	1377.6	1254.8	1213.9
17.5°	3978.8	3630.1	2988.0	2473.6	2116.1	1810.1	1473.1	1234.4	1034.7	943.0	913.8
20°	4276.9	3821.0	2996.8	2326.5	1866.7	1436.0	1071.7	875.9	780.3	741.4	726.8
22.5°	4692.9	4112.3	3023.1	2181.4	1593.9	1102.9	802.8	703.4	669.3	662.5	659.6
25°	5205.4	4472.7	3111.7	2050.8	1363.9	841.7	671.3	626.4	607.0	600.2	599.2
27.5°	5676.9	4938.5	3218.9	1938.7	1141.8	725.8	607.0	568.9	549.5	548.5	550.4
30°	6102.6	5328.2	3308.6	1813.0	973.3	645.0	565.1	527.0	508.6	507.6	513.4
32.5°	6470.9	5648.6	3374.8	1689.3	879.8	595.2	527.0	486.2	470.6	467.6	470.6
35°	6864.5	5968.2	3344.6	1592.9	826.1	554.4	498.8	458.8	440.4	431.6	431.6
37.5°	7313.6	6297.5	3292.9	1513.0	801.8	520.2	474.4	435.5	416.9	408.2	407.2
40°	7803.7	6626.8	3221.8	1441.9	777.4	499.8	457.9	416.9	394.6	385.8	383.8
42.5°	8236.2	6908.3	3163.4	1395.1	737.5	503.7	443.3	403.3	375.1	363.4	362.5
45°	8612.3	7191.9	3152.7	1367.8	704.4	497.8	439.4	392.6	359.5	346.9	344.9
47.5°	8906.5	7487.0	3214.1	1352.2	668.4	466.7	464.7	385.8	345.9	332.2	330.3
50°	9265.1	7906.0	3354.3	1320.1	635.2	437.5	491.0	384.8	335.1	317.6	312.7
52.5°	9742.4	8451.5	3544.3	1262.6	587.5	410.1	468.6	384.8	322.4	304.9	299.1
55°	10464.3	9147.2	3730.4	1181.8	520.2	374.1	422.8	373.1	304.0	288.4	284.5
57.5°	10942.7	9655.7	3849.2	1069.7	436.4	347.8	364.3	354.6	285.5	268.9	268.9
60°	10967.1	9792.1	3792.7	928.5	383.8	323.5	316.6	357.5	268.9	251.3	249.4
62.5°	10686.5	9457.9	3498.5	801.8	355.6	297.1	286.4	313.7	252.4	234.8	231.8
65°	10248.1	8605.5	2988.0	741.4	340.0	273.7	258.2	257.2	234.8	218.2	214.3
67.5°	9442.4	7520.2	2455.1	706.3	332.2	247.4	232.9	228.0	214.3	200.7	198.7
70°	8254.8	6298.5	1968.9	691.7	328.3	220.2	208.5	202.6	191.0	180.2	179.2
72.5°	6422.2	5108.9	1625.0	682.0	326.4	194.8	182.2	174.4	167.6	157.9	157.9
75°	4613.0	3758.6	1240.2	614.7	302.0	167.6	153.9	149.1	139.3	131.5	133.5
77.5°	2908.1	2531.0	816.4	452.0	233.8	134.4	122.8	119.8	112.0	101.3	108.1
80°	1964.1	1779.9	476.4	284.5	147.1	98.4	94.5	93.5	84.7	73.1	74.1
82.5°	1336.7	1311.4	247.4	161.7	84.7	57.5	55.5	57.5	47.8	39.0	39.0
85°	522.2	713.2	116.9	63.3	27.2	8.8	12.7	13.6	7.8	3.9	4.9
87.5°	9.7	73.1	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°	4746.5	4746.5	4746.5	4746.5	4746.5	4746.5	4746.5	4746.5	4746.5	4746.5	4746.5
2.5°	3957.4	3948.6	3963.2	3900.9	3913.5	3936.9	3948.6	3955.4	4051.9	4029.5	4090.9
5°	3087.4	3078.6	3135.1	3142.9	3172.2	3166.3	3194.6	3201.4	3236.5	3249.1	3334.8
7.5°	2245.6	2283.6	2347.9	2381.0	2430.7	2446.3	2431.7	2467.8	2394.7	2447.3	2462.8
10°	1804.3	1758.5	1731.2	1807.2	1817.0	1889.1	1859.9	1836.4	1879.3	1881.2	1922.2
12.5°	1502.3	1403.9	1338.6	1360.1	1383.4	1414.6	1419.5	1466.2	1497.4	1526.6	1551.0
15°	1177.9	1143.7	1084.3	1055.1	1088.2	1100.9	1131.1	1170.0	1203.2	1211.9	1245.0
17.5°	904.1	909.9	900.2	882.7	903.1	912.9	914.8	915.8	924.6	918.7	967.4
20°	727.8	748.2	772.6	776.5	783.3	788.2	779.4	746.3	747.2	767.7	783.3
22.5°	658.6	662.5	689.7	698.5	720.0	711.2	685.8	670.2	668.4	673.2	681.0
25°	604.0	609.9	629.4	643.0	659.6	643.9	625.5	610.8	608.9	613.8	621.5
27.5°	555.3	564.1	581.6	595.2	610.8	596.3	578.7	566.0	565.1	564.1	568.9
30°	516.3	526.1	538.8	554.4	565.1	552.4	535.8	529.0	528.1	526.1	528.1
32.5°	477.4	493.0	505.7	513.4	524.1	514.4	501.7	497.8	491.0	485.1	482.2
35°	433.5	450.1	469.6	479.4	490.1	480.3	471.5	455.0	443.3	442.3	444.3
37.5°	408.2	415.0	430.6	447.2	457.9	453.0	436.4	419.9	416.9	416.9	418.9
40°	385.8	388.8	395.6	416.9	436.4	421.9	401.4	396.5	396.5	395.6	396.5
42.5°	363.4	366.3	366.3	382.9	414.1	390.6	375.1	375.1	375.1	376.1	379.0
45°	343.0	343.9	343.0	354.6	383.8	364.3	353.7	356.6	358.5	360.5	362.5
47.5°	325.4	326.4	325.4	335.1	349.8	341.9	336.1	340.0	343.9	346.9	348.7
50°	309.8	308.8	310.8	316.6	323.5	325.4	321.5	327.4	329.3	333.2	338.1
52.5°	296.2	295.2	297.1	300.0	309.8	309.8	309.8	314.7	318.6	322.4	329.3
55°	280.5	281.6	284.5	288.4	301.1	299.1	300.0	304.0	307.9	313.7	317.6
57.5°	266.0	267.9	271.8	277.7	290.3	289.3	290.3	292.3	297.1	300.0	304.0
60°	249.4	253.3	258.2	262.1	274.8	273.7	278.7	282.5	285.5	285.5	287.4
62.5°	232.9	238.7	243.6	246.5	260.1	261.1	267.9	270.8	272.8	270.8	273.7
65°	216.3	225.0	227.0	230.9	244.5	245.5	253.3	260.1	258.2	256.2	261.1
67.5°	199.7	210.5	209.5	214.3	228.0	229.9	236.8	248.4	244.5	242.6	246.5
70°	181.2	189.0	190.0	192.9	211.4	208.5	219.2	229.9	227.0	228.0	228.0
72.5°	160.7	167.6	167.6	173.4	192.9	188.0	196.8	208.5	208.5	207.5	207.5
75°	136.4	140.3	144.2	152.9	173.4	167.6	173.4	184.2	186.1	184.2	184.2
77.5°	110.1	116.0	117.9	129.6	144.2	143.2	149.1	153.9	157.9	155.9	155.9
80°	77.9	83.8	91.6	104.2	113.0	116.0	118.9	122.8	124.7	124.7	126.7
82.5°	43.8	52.6	59.4	72.1	76.0	90.6	89.7	92.6	89.7	78.9	87.7
85°	9.7	18.5	26.3	33.1	38.0	52.6	55.5	62.3	51.6	47.8	47.8
87.5°	0.0	0.0	0.0	0.0	0.0	7.8	15.6	21.5	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°	4746.5	4746.5	4746.5	4746.5	4746.5	4746.5	4746.5	4746.5	4746.5	4746.5
2.5°	4142.5	4227.3	4329.5	4505.9	4629.6	4763.1	4897.5	5040.7	5078.7	5117.7
5°	3358.2	3524.8	3615.4	3852.1	4100.6	4416.3	4674.4	4956.9	5074.9	5102.1
7.5°	2543.7	2656.8	2894.4	3134.1	3442.0	3773.3	4168.8	4609.1	4746.5	4804.0
10°	2016.7	2170.6	2379.1	2636.3	2906.2	3262.8	3708.9	4223.3	4418.2	4450.3
12.5°	1716.6	1888.0	2115.1	2386.9	2642.2	2911.0	3361.1	3892.1	4100.6	4169.8
15°	1372.7	1580.3	1842.3	2128.7	2406.4	2700.6	3156.6	3755.7	3996.4	4077.2
17.5°	1078.5	1246.1	1529.6	1840.4	2169.6	2541.8	3113.7	3821.0	4117.2	4192.2
20°	825.2	945.0	1183.7	1512.1	1897.8	2384.9	3124.4	4067.5	4422.1	4524.4
22.5°	713.2	774.5	919.7	1232.4	1664.0	2248.5	3168.3	4405.5	4833.2	5003.7
25°	645.9	678.1	759.9	964.5	1440.9	2116.1	3268.6	4860.5	5408.0	5521.0
27.5°	588.4	611.8	662.5	809.6	1238.2	1993.3	3385.5	5365.2	5944.8	6113.4
30°	533.8	565.1	612.8	719.0	1108.6	1881.2	3532.6	5774.3	6396.9	6553.7
32.5°	492.0	523.2	567.0	655.7	998.6	1763.4	3620.3	6133.9	6766.1	6899.6
35°	457.9	484.2	530.0	605.0	914.8	1673.7	3602.7	6419.3	7123.7	7260.1
37.5°	433.5	455.9	501.7	557.3	851.5	1580.3	3594.0	6796.3	7559.2	7717.0
40°	411.2	434.5	476.4	526.1	788.2	1470.2	3598.8	7170.4	8022.9	8180.7
42.5°	393.6	419.9	454.0	517.3	722.9	1381.4	3598.8	7495.8	8426.3	8578.2
45°	379.0	407.2	440.4	516.3	671.3	1314.3	3574.5	7775.4	8747.8	8877.3
47.5°	366.3	397.5	445.2	498.8	658.6	1265.6	3553.1	7999.5	9009.8	9131.6
50°	357.5	394.6	473.5	478.3	662.5	1250.9	3656.3	8282.0	9240.7	9345.9
52.5°	350.7	395.6	472.5	448.2	655.7	1260.7	3871.6	8723.4	9561.2	9569.0
55°	337.1	394.6	448.2	414.1	627.4	1277.2	4148.3	9364.4	10063.0	10068.8
57.5°	323.5	383.8	416.0	384.8	569.9	1277.2	4481.5	9971.3	10668.0	10672.8
60°	309.8	399.4	365.3	359.5	494.9	1253.8	4833.2	10238.4	10857.9	10907.7
62.5°	296.2	402.4	326.4	337.1	440.4	1197.4	5095.3	9943.2	10600.7	10671.8
65°	280.5	324.4	301.1	313.7	412.1	1102.9	5012.5	9402.4	10117.5	10202.3
67.5°	262.1	274.8	273.7	289.3	402.4	963.6	4576.0	8718.5	9597.2	9592.4
70°	239.7	246.5	249.4	266.0	383.8	855.3	3813.2	7830.9	8902.6	9011.8
72.5°	216.3	222.1	225.0	239.7	365.3	794.0	2959.7	6608.3	7711.1	7881.6
75°	191.0	194.8	198.7	211.4	345.9	703.4	2108.2	5044.6	5905.9	6173.8
77.5°	164.7	164.7	169.5	182.2	291.3	580.7	1414.6	3538.5	4001.2	4274.9
80°	133.5	134.4	132.5	146.1	214.3	397.5	803.7	2363.5	2662.6	2715.2
82.5°	102.3	99.4	100.4	107.2	159.8	270.8	428.7	1468.2	1496.5	1467.2
85°	64.3	64.3	62.3	70.2	102.3	141.3	233.8	899.2	702.4	668.4
87.5°	26.3	21.5	24.4	28.3	48.7	57.5	91.6	185.1	71.1	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)