

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: P650912

Luminaire Tested: **GALN-SA5C-840-U-SLL**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P650912  
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-SA5C-840-U-SLL  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 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: 25522.7 lumens  
Efficiency: N/A  
Efficacy: 94.9 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B3 - U0 - G4

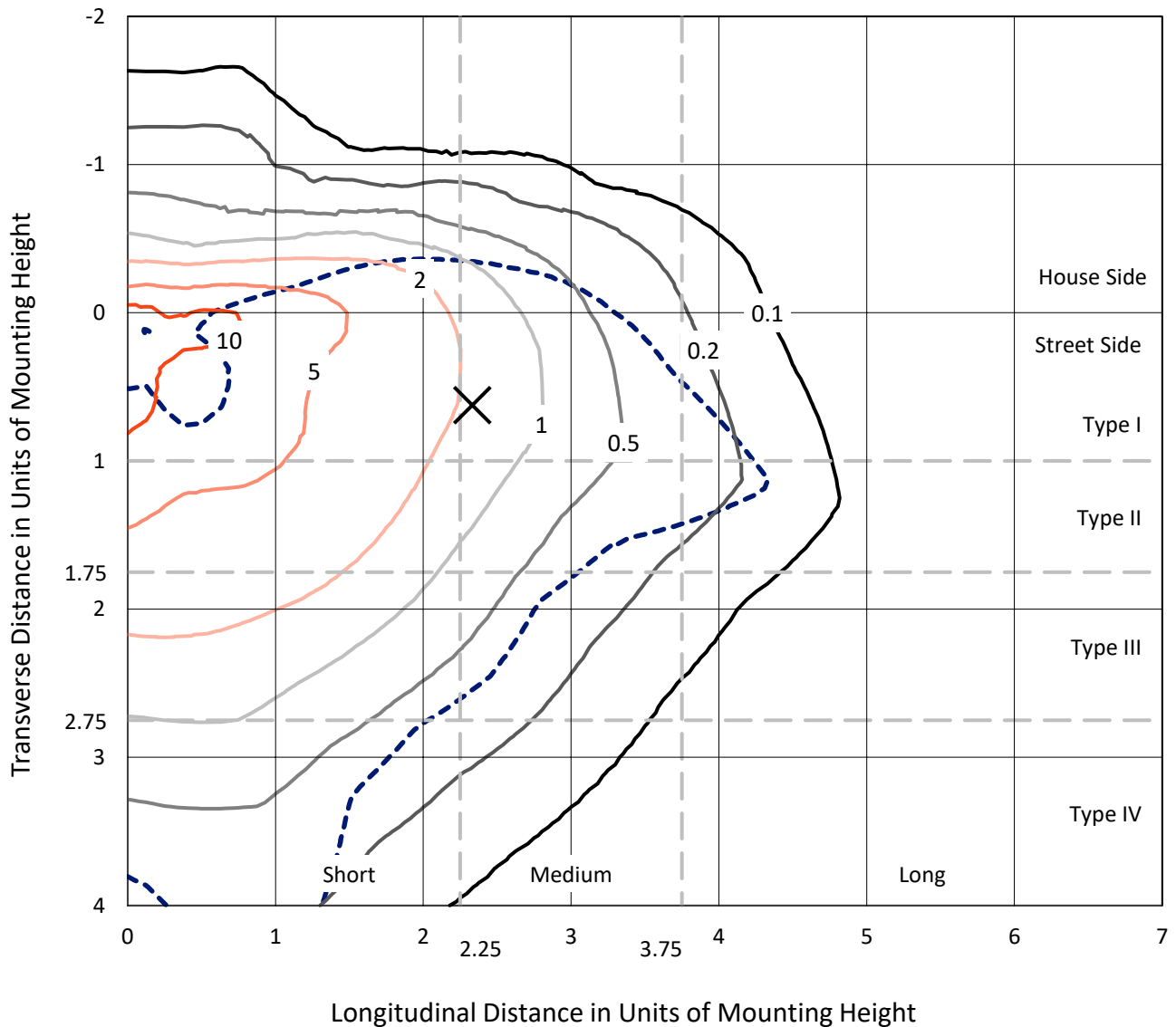
Input Watts (W): 269  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

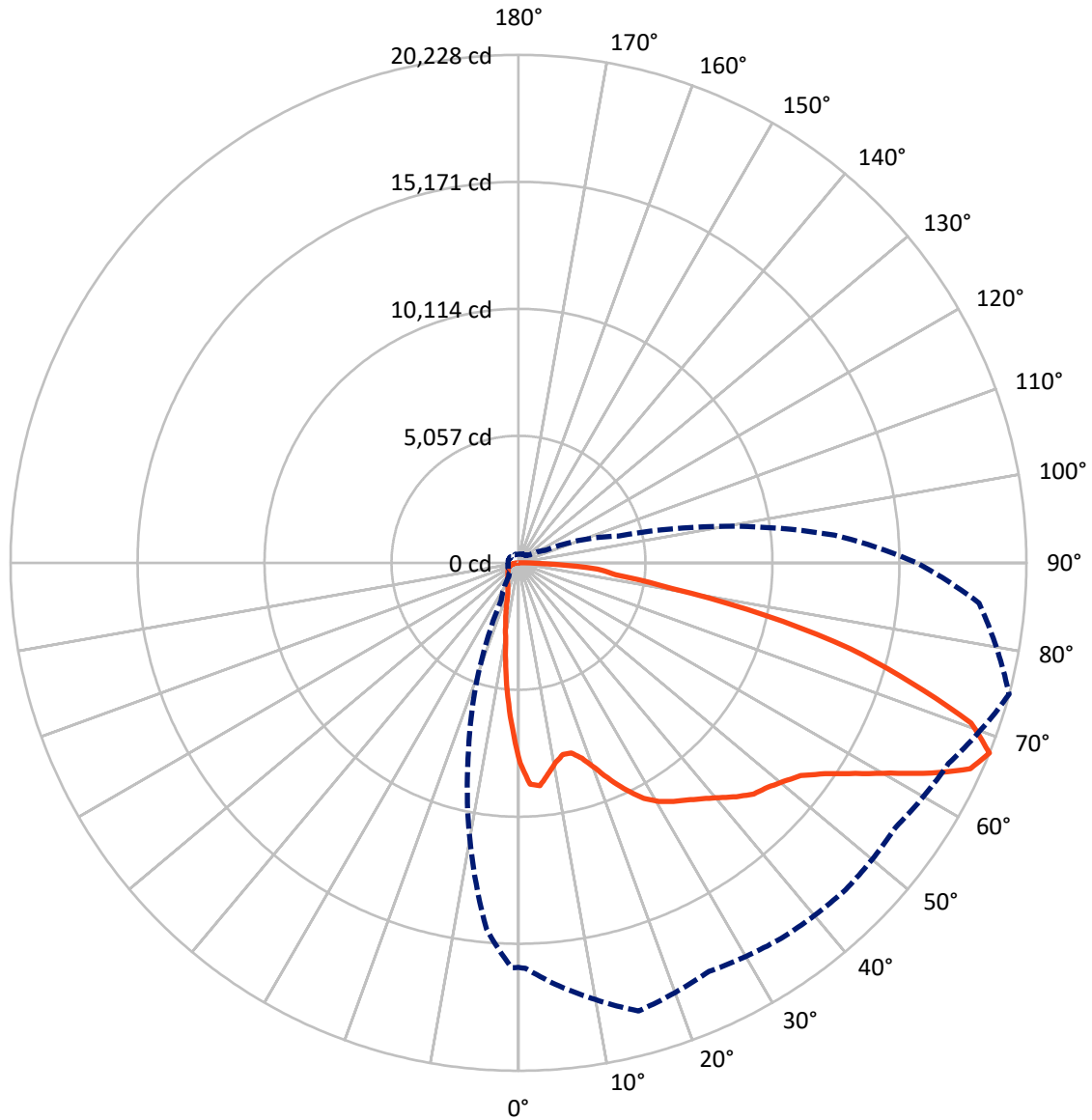
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.7 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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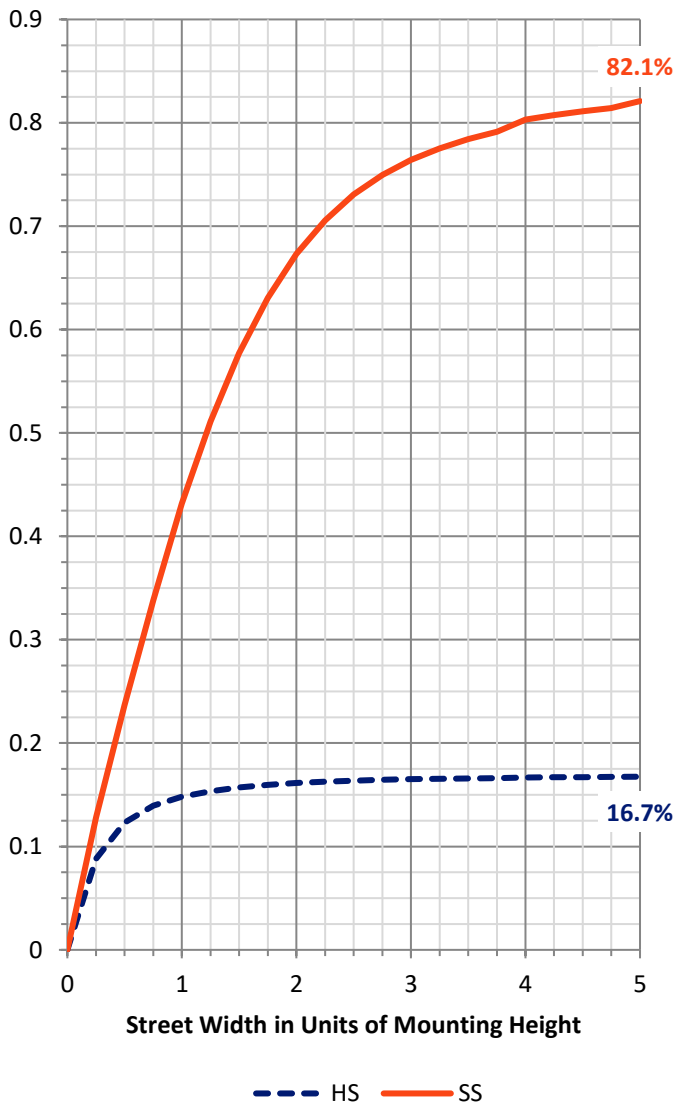
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4313.9	0.0	4313.9
	% Fixture	16.9	0.0	16.9
<b>Street Side</b>	Lumens	21208.8	0.0	21208.8
	% Fixture	83.1	0.0	83.1
<b>Total</b>	Lumens	25522.7	0.0	25522.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	604.8	2.4
10°-20°	1261.3	4.9
20°-30°	1815.1	7.1
30°-40°	2614.2	10.2
40°-50°	3672.2	14.4
50°-60°	5121.5	20.1
60°-70°	6089.1	23.9
70°-80°	3586.1	14.1
80°-90°	758.3	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°	25522.7	100.0
0°-180°	25522.7	100.0

**Coefficient of Utilization**

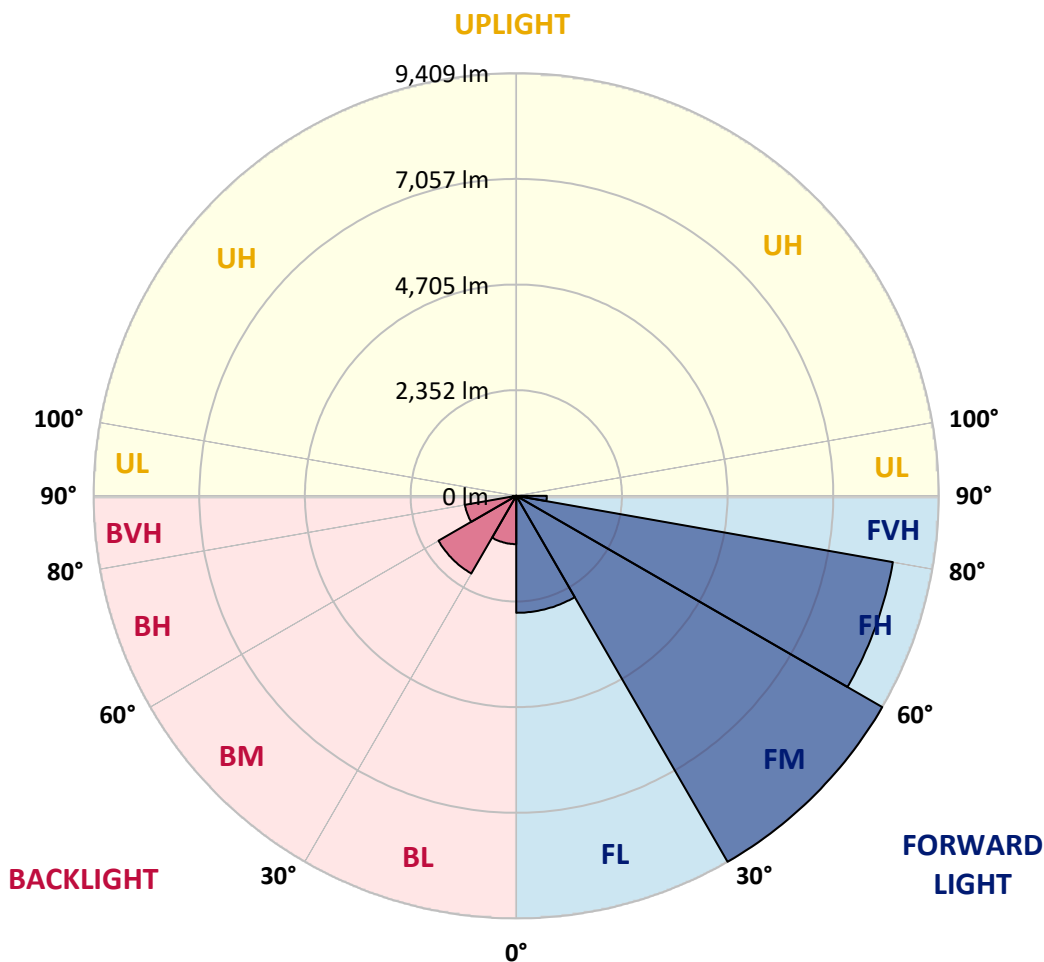


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2605.2	10.2			
FM (30°-60°)	9409.3	36.9			
FH (60°-80°)	8514.5	33.4			G4/12000
FVH (80°-90°)	679.9	2.7			G4/750
BL (0°-30°)	1076.0	4.2	B3/2500		
BM (30°-60°)	1998.6	7.8	B2/2500		
BH (60°-80°)	1160.8	4.5	B3/2500		G3/2500
BVH (80°-90°)	78.4	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°	7973.9	7973.9	7973.9	7973.9	7973.9	7973.9	7973.9	7973.9	7973.9	7973.9	7973.9
2.5°	8597.5	8608.9	8682.6	8896.9	9044.3	9098.3	9136.0	9065.6	8996.8	8829.8	8577.8
5°	8571.3	8638.4	8829.8	9311.0	9690.8	9854.4	9903.5	9692.4	9343.8	8914.9	8399.4
7.5°	8070.5	8160.5	8455.1	9261.9	9931.4	10314.4	10263.6	9882.3	9253.8	8489.5	7769.3
10°	7476.3	7576.1	7931.3	8906.8	9769.3	10296.4	10296.4	9831.5	8996.8	8088.5	7258.7
12.5°	7004.9	7109.7	7515.6	8541.8	9432.2	9931.4	10014.8	9615.5	8811.8	7834.8	6923.1
15°	6849.5	6950.9	7387.9	8320.9	9075.4	9379.8	9407.6	9276.7	8721.8	7852.8	6908.4
17.5°	7042.6	7173.6	7615.4	8386.4	8748.0	8766.0	8787.3	8890.5	8731.7	8181.8	7206.3
20°	7600.7	7741.5	8203.0	8597.5	8461.6	8275.0	8286.5	8551.6	8847.9	8725.1	7918.3
22.5°	8406.0	8528.7	9001.7	8969.0	8340.5	7955.9	7875.7	8245.6	9019.7	9402.7	8676.0
25°	9275.1	9419.0	9962.5	9520.5	8374.8	7766.0	7715.2	8065.5	9198.1	10036.1	9551.7
27.5°	10270.1	10410.9	10839.7	10077.0	8554.9	7751.3	7690.8	8049.2	9358.5	10622.0	10387.9
30°	11010.0	11139.2	11430.5	10545.1	8775.8	7849.5	7774.2	8178.5	9496.0	11023.0	11203.0
32.5°	11590.9	11725.1	11883.9	10836.5	9067.2	8027.9	7888.7	8414.1	9676.0	11329.1	11807.0
35°	12196.5	12355.3	12343.8	11095.1	9338.9	8234.1	8098.2	8754.6	9959.2	11595.9	12572.9
37.5°	12964.1	13027.9	12946.1	11327.4	9664.6	8605.6	8530.3	9260.3	10361.8	11918.3	13468.2
40°	13743.2	13870.9	13450.2	11608.9	10060.6	9304.5	9296.3	10008.2	10839.7	12296.3	14335.7
42.5°	14411.0	14518.9	13921.6	11854.5	10540.2	10157.2	10219.4	11011.5	11466.5	12735.0	15032.9
45°	14913.4	15009.9	14357.0	12091.7	11171.9	11142.5	11509.1	12086.9	12257.1	13129.4	15442.0
47.5°	15340.6	15433.9	14659.7	12451.8	11952.6	12319.2	12957.5	13208.0	12933.0	13355.2	15900.3
50°	15700.6	15728.5	14867.5	12880.7	12921.5	13761.2	14379.8	14541.9	13600.7	13679.4	16298.0
52.5°	16075.5	16039.4	15226.0	13420.8	13969.0	15129.4	15579.5	15748.1	14240.7	14078.7	16877.4
55°	16915.0	16949.4	16029.6	14101.6	15028.0	16473.2	17065.7	16903.6	14949.4	14813.5	17613.9
57.5°	17929.8	17900.3	17160.5	15167.1	16106.5	17723.6	18165.4	17905.2	15895.4	15823.4	18360.2
60°	18324.2	18363.5	18106.6	16312.7	17170.4	18818.5	19270.3	18866.0	17029.6	16996.9	18923.3
62.5°	17928.2	18149.1	18322.6	17332.4	18077.1	19623.7	20072.2	19610.7	18212.9	18450.3	19317.7
65°	17139.2	17186.8	17777.6	18196.5	18514.1	19756.4	19990.4	19744.8	19201.5	19774.3	19299.7
67.5°	16114.7	16155.6	16847.9	18479.7	17951.1	18250.5	18414.3	18342.2	18895.4	20227.6	18411.0
70°	15139.3	15106.5	15838.1	17758.0	15627.0	15172.0	15307.8	15082.0	16304.6	19119.6	16667.9
72.5°	13240.7	13358.5	14144.2	15751.3	12373.3	11633.5	11929.8	11345.4	12540.2	16374.9	13528.7
75°	10371.6	10399.5	11710.4	13219.4	9333.9	8167.0	8568.0	8324.1	9605.6	13659.7	9342.2
77.5°	7181.7	7119.6	8528.7	10096.6	6656.3	5978.8	5985.3	5869.1	6707.1	10057.4	6347.0
80°	4561.4	4466.5	5338.8	6237.4	4574.5	4893.7	4733.2	4728.4	4366.6	6204.6	3838.0
82.5°	2464.8	2569.6	3373.2	3910.0	3281.5	3782.4	3466.5	3365.0	2996.7	3883.8	2455.0
85°	1122.7	1221.0	1798.7	2659.6	2492.6	2520.5	1684.1	1986.9	2479.6	3153.8	1311.0
87.5°	109.7	140.8	371.6	1255.4	851.1	671.0	250.4	482.8	623.6	1121.1	104.8
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):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	7973.9	7973.9	7973.9	7973.9	7973.9	7973.9	7973.9	7973.9	7973.9	7973.9	7973.9
2.5°	8474.7	8389.6	8099.9	7861.0	7607.3	7414.2	7162.1	6993.5	6877.3	6702.2	6680.9
5°	8085.2	7877.3	7373.2	6859.3	6415.7	6081.9	5743.1	5432.1	5248.8	5191.6	5117.9
7.5°	7428.9	7078.6	6430.5	5841.3	5332.3	4834.7	4451.7	4180.1	3998.4	3892.0	3764.3
10°	6888.8	6482.8	5694.0	4972.2	4553.3	4243.9	3906.8	3615.5	3391.2	3199.7	3095.0
12.5°	6525.4	6067.1	5180.1	4594.1	4270.1	3941.1	3546.7	3219.3	2888.8	2671.0	2577.7
15°	6415.7	5931.3	5021.4	4405.9	3941.1	3510.7	3068.8	2641.6	2314.3	2108.1	2039.3
17.5°	6684.2	6098.3	5019.7	4155.5	3554.8	3041.0	2474.6	2073.7	1738.2	1584.3	1535.2
20°	7185.0	6419.0	5034.4	3908.4	3135.8	2412.5	1800.3	1471.4	1311.0	1245.5	1221.0
22.5°	7883.9	6908.4	5078.6	3664.5	2677.6	1852.7	1348.6	1181.7	1124.4	1113.0	1108.0
25°	8744.7	7514.0	5227.6	3445.2	2291.3	1414.1	1127.7	1052.3	1019.6	1008.2	1006.6
27.5°	9536.9	8296.3	5407.5	3257.0	1918.2	1219.3	1019.6	955.8	923.1	921.5	924.8
30°	10252.1	8951.0	5558.2	3045.8	1635.1	1083.5	949.2	885.4	854.4	852.7	862.5
32.5°	10870.8	9489.4	5669.4	2838.0	1477.9	1000.0	885.4	816.7	790.5	785.6	790.5
35°	11532.0	10026.3	5618.7	2676.0	1387.9	931.2	838.0	770.9	739.7	725.0	725.0
37.5°	12286.5	10579.4	5531.9	2541.8	1346.9	874.0	797.1	731.6	700.5	685.8	684.2
40°	13109.8	11132.7	5412.5	2422.2	1306.1	839.7	769.3	700.5	662.9	648.2	644.9
42.5°	13836.5	11605.6	5314.3	2343.7	1239.0	846.1	744.7	677.6	630.2	610.5	608.9
45°	14468.2	12082.0	5296.3	2297.9	1183.3	836.4	738.1	659.6	603.9	582.6	579.4
47.5°	14962.5	12577.8	5399.4	2271.7	1122.7	784.0	780.7	648.2	581.0	558.1	554.8
50°	15564.8	13281.7	5635.0	2217.7	1067.1	734.9	824.9	646.5	563.0	533.5	525.4
52.5°	16366.8	14198.2	5954.2	2121.2	986.9	689.0	787.3	646.5	541.8	512.3	502.5
55°	17579.5	15366.8	6266.8	1985.3	874.0	628.5	710.3	626.9	510.7	484.4	477.9
57.5°	18383.2	16221.1	6466.5	1797.0	733.3	584.3	612.1	595.8	479.5	451.7	451.7
60°	18424.0	16450.2	6371.6	1559.7	644.9	543.4	531.9	600.6	451.7	422.3	419.0
62.5°	17952.7	15888.8	5877.3	1346.9	597.4	499.2	481.2	527.0	423.9	394.4	389.6
65°	17216.2	14456.8	5019.7	1245.5	571.2	459.9	433.7	432.1	394.4	366.6	360.0
67.5°	15862.7	12633.5	4124.4	1186.6	558.1	415.7	391.1	383.0	360.0	337.2	333.9
70°	13867.6	10581.1	3307.7	1162.0	551.5	369.9	350.3	340.4	320.8	302.8	301.2
72.5°	10788.9	8582.7	2730.0	1145.7	548.2	327.3	306.0	293.0	281.5	265.2	265.2
75°	7749.6	6314.3	2083.5	1032.7	507.4	281.5	258.6	250.4	234.1	220.9	224.2
77.5°	4885.5	4252.1	1371.5	759.4	392.8	225.9	206.2	201.3	188.2	170.2	181.7
80°	3299.6	2990.2	800.3	477.9	247.2	165.3	158.8	157.1	142.4	122.8	124.4
82.5°	2245.6	2203.0	415.7	271.7	142.4	96.5	93.3	96.5	80.2	65.4	65.4
85°	877.2	1198.1	196.4	106.4	45.8	14.7	21.3	22.9	13.1	6.6	8.2
87.5°	16.4	122.8	4.9	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°	7973.9	7973.9	7973.9	7973.9	7973.9	7973.9	7973.9	7973.9	7973.9	7973.9	7973.9
2.5°	6648.2	6633.5	6658.0	6553.2	6574.5	6613.8	6633.5	6644.9	6807.0	6769.3	6872.4
5°	5186.6	5171.9	5266.8	5279.9	5329.0	5319.2	5366.7	5378.1	5437.1	5458.3	5602.3
7.5°	3772.6	3836.4	3944.4	4000.0	4083.5	4109.7	4085.2	4145.7	4022.9	4111.3	4137.6
10°	3031.1	2954.2	2908.3	3036.0	3052.4	3173.5	3124.4	3085.1	3157.1	3160.4	3229.2
12.5°	2523.8	2358.4	2248.8	2284.8	2324.1	2376.4	2384.7	2463.2	2515.6	2564.6	2605.6
15°	1978.7	1921.4	1821.6	1772.5	1828.2	1849.4	1900.2	1965.7	2021.3	2036.1	2091.7
17.5°	1518.8	1528.7	1512.3	1482.9	1517.2	1533.6	1536.8	1538.4	1553.2	1543.4	1625.2
20°	1222.6	1257.0	1297.9	1304.4	1315.9	1324.1	1309.4	1253.7	1255.4	1289.7	1315.9
22.5°	1106.4	1113.0	1158.7	1173.5	1209.5	1194.8	1152.3	1126.0	1122.7	1131.0	1144.0
25°	1014.8	1024.6	1057.3	1080.2	1108.0	1081.9	1050.7	1026.2	1022.9	1031.1	1044.2
27.5°	932.9	947.6	977.1	1000.0	1026.2	1001.6	972.2	950.9	949.2	947.6	955.8
30°	867.4	883.8	905.1	931.2	949.2	928.0	900.2	888.7	887.1	883.8	887.1
32.5°	802.0	828.1	849.4	862.5	880.5	864.1	842.9	836.4	824.9	815.1	810.1
35°	728.3	756.1	788.9	805.3	823.3	806.9	792.1	764.3	744.7	743.0	746.3
37.5°	685.8	697.2	723.4	751.3	769.3	761.0	733.3	705.4	700.5	700.5	703.7
40°	648.2	653.0	664.5	700.5	733.3	708.7	674.3	666.2	666.2	664.5	666.2
42.5°	610.5	615.4	615.4	643.2	695.6	656.3	630.2	630.2	630.2	631.8	636.6
45°	576.1	577.8	576.1	595.8	644.9	612.1	594.1	599.0	602.3	605.6	608.9
47.5°	546.6	548.2	546.6	563.0	587.6	574.5	564.6	571.2	577.8	582.6	585.9
50°	520.5	518.8	522.1	531.9	543.4	546.6	540.1	549.9	553.2	559.8	567.9
52.5°	497.5	495.9	499.2	504.1	520.5	520.5	520.5	528.7	535.2	541.8	553.2
55°	471.4	473.0	477.9	484.4	505.7	502.5	504.1	510.7	517.2	527.0	533.5
57.5°	446.8	450.1	456.7	466.4	487.7	486.1	487.7	491.0	499.2	504.1	510.7
60°	419.0	425.5	433.7	440.3	461.5	459.9	468.1	474.7	479.5	479.5	482.8
62.5°	391.1	401.0	409.1	414.1	437.0	438.7	450.1	455.0	458.3	455.0	459.9
65°	363.3	378.1	381.3	387.9	410.8	412.4	425.5	437.0	433.7	430.4	438.7
67.5°	335.6	353.6	351.9	360.0	383.0	386.3	397.7	417.4	410.8	407.5	414.1
70°	304.4	317.5	319.2	324.0	355.2	350.3	368.3	386.3	381.3	383.0	383.0
72.5°	270.0	281.5	281.5	291.3	324.0	315.9	330.6	350.3	350.3	348.6	348.6
75°	229.2	235.6	242.2	256.9	291.3	281.5	291.3	309.3	312.6	309.3	309.3
77.5°	184.9	194.8	198.1	217.7	242.2	240.6	250.4	258.6	265.2	261.9	261.9
80°	130.9	140.8	153.8	175.1	189.8	194.8	199.7	206.2	209.5	209.5	212.8
82.5°	73.7	88.4	99.8	121.1	127.7	152.2	150.5	155.5	150.5	132.5	147.3
85°	16.4	31.1	44.2	55.7	63.8	88.4	93.3	104.8	86.7	80.2	80.2
87.5°	0.0	0.0	0.0	0.0	0.0	13.1	26.2	36.0	31.1	26.2	26.2
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°	7973.9	7973.9	7973.9	7973.9	7973.9	7973.9	7973.9	7973.9	7973.9	7973.9
2.5°	6959.1	7101.6	7273.4	7569.6	7777.5	8001.7	8227.6	8468.2	8532.0	8597.5
5°	5641.6	5921.5	6073.7	6471.4	6888.8	7419.0	7852.8	8327.4	8525.5	8571.3
7.5°	4273.4	4463.2	4862.6	5265.2	5782.4	6338.9	7003.3	7743.1	7973.9	8070.5
10°	3387.9	3646.5	3996.8	4428.9	4882.2	5481.2	6230.8	7095.0	7422.3	7476.3
12.5°	2883.8	3171.9	3553.2	4009.9	4438.6	4890.4	5646.6	6538.5	6888.8	7004.9
15°	2306.1	2654.7	3095.0	3576.1	4042.6	4536.9	5302.8	6309.4	6713.6	6849.5
17.5°	1811.8	2093.3	2569.6	3091.7	3644.9	4270.1	5230.9	6419.0	6916.6	7042.6
20°	1386.3	1587.6	1988.5	2540.2	3188.2	4006.6	5248.8	6833.1	7428.9	7600.7
22.5°	1198.1	1301.2	1545.0	2070.4	2795.5	3777.4	5322.4	7401.1	8119.5	8406.0
25°	1085.1	1139.1	1276.6	1620.3	2420.7	3554.8	5491.1	8165.4	9085.2	9275.1
27.5°	988.5	1027.9	1113.0	1360.1	2080.2	3348.6	5687.4	9013.2	9987.0	10270.1
30°	896.9	949.2	1029.5	1207.8	1862.6	3160.4	5934.6	9700.6	10746.4	11010.0
32.5°	826.5	878.9	952.5	1101.5	1677.6	2962.4	6081.9	10304.5	11366.7	11590.9
35°	769.3	813.4	890.4	1016.3	1536.8	2811.8	6052.4	10784.1	11967.3	12196.5
37.5°	728.3	766.0	842.9	936.2	1430.5	2654.7	6037.7	11417.4	12698.9	12964.1
40°	690.7	730.0	800.3	883.8	1324.1	2469.8	6045.9	12045.9	13478.0	13743.2
42.5°	661.2	705.4	762.7	869.1	1214.4	2320.8	6045.9	12592.5	14155.6	14411.0
45°	636.6	684.2	739.7	867.4	1127.7	2207.9	6005.0	13062.3	14695.7	14913.4
47.5°	615.4	667.8	748.0	838.0	1106.4	2126.0	5969.0	13438.8	15136.0	15340.6
50°	600.6	662.9	795.4	803.6	1113.0	2101.5	6142.4	13913.4	15523.9	15700.6
52.5°	589.2	664.5	793.8	752.9	1101.5	2117.9	6504.1	14654.8	16062.3	16075.5
55°	566.3	662.9	752.9	695.6	1054.0	2145.6	6968.9	15731.7	16905.2	16915.0
57.5°	543.4	644.9	698.9	646.5	957.5	2145.6	7528.7	16751.4	17921.6	17929.8
60°	520.5	671.0	613.8	603.9	831.4	2106.4	8119.5	17199.8	18240.8	18324.2
62.5°	497.5	675.9	548.2	566.3	739.7	2011.5	8559.8	16703.9	17808.7	17928.2
65°	471.4	545.1	505.7	527.0	692.3	1852.7	8420.7	15795.6	16996.9	17139.2
67.5°	440.3	461.5	459.9	486.1	675.9	1618.7	7687.5	14646.6	16122.9	16114.7
70°	402.6	414.1	419.0	446.8	644.9	1437.0	6406.0	13155.6	14955.9	15139.3
72.5°	363.3	373.2	378.1	402.6	613.8	1333.9	4972.2	11101.5	12954.3	13240.7
75°	320.8	327.3	333.9	355.2	581.0	1181.7	3541.8	8474.7	9921.5	10371.6
77.5°	276.6	276.6	284.8	306.0	489.4	975.5	2376.4	5944.4	6721.9	7181.7
80°	224.2	225.9	222.6	245.5	360.0	667.8	1350.2	3970.6	4473.0	4561.4
82.5°	171.8	166.9	168.5	180.1	268.4	455.0	720.1	2466.5	2513.9	2464.8
85°	108.0	108.0	104.8	117.8	171.8	237.3	392.8	1510.7	1180.0	1122.7
87.5°	44.2	36.0	41.0	47.4	81.8	96.5	153.8	311.0	119.5	109.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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