

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: P652507

Luminaire Tested: **GALN-SA7B-840-U-SLL**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P652507  
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-SA7B-840-U-SLL  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 80 CRI, 4000K, 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: 28731.1 lumens  
Efficiency: N/A  
Efficacy: 100.5 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

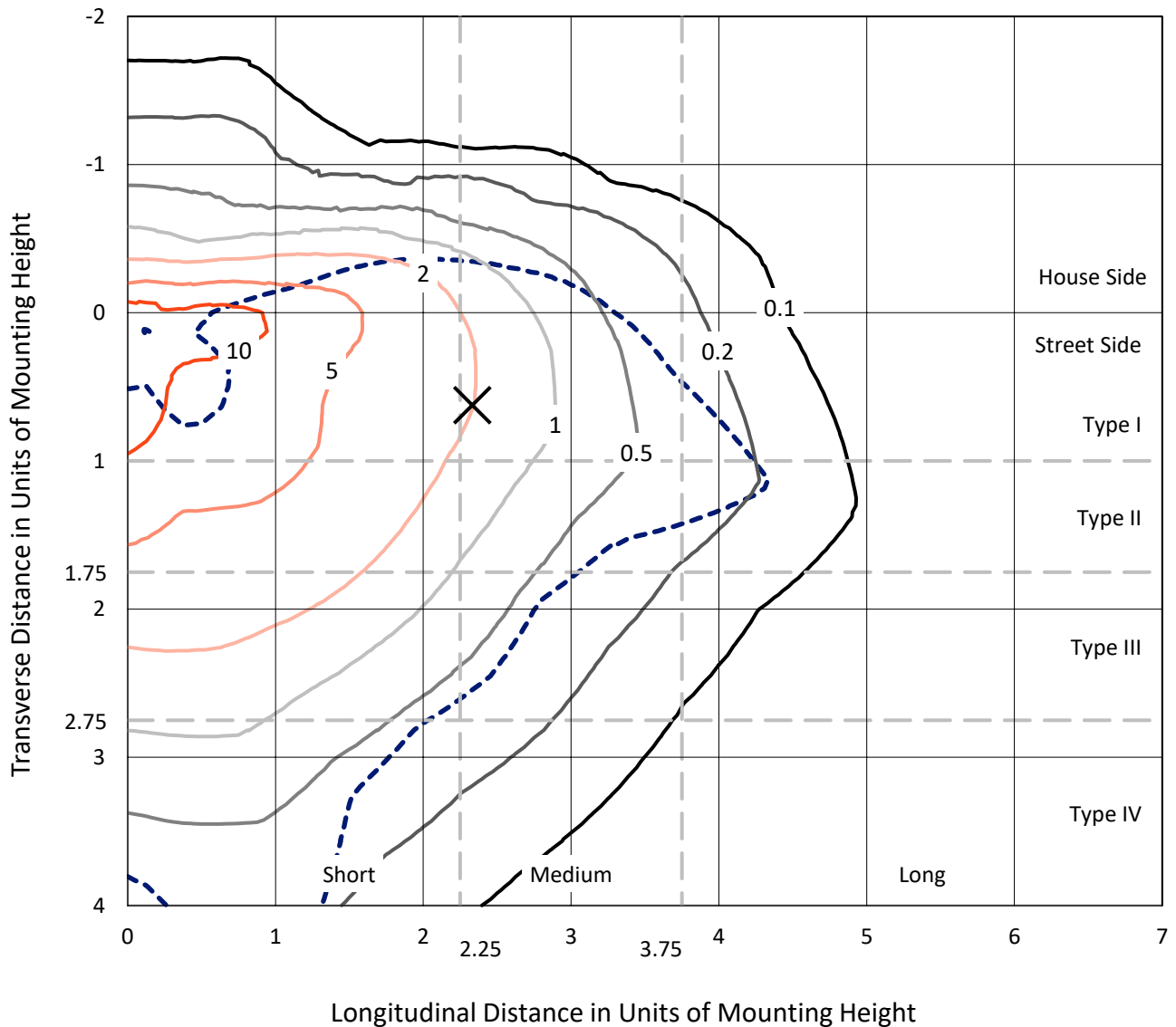
Input Watts (W): 286  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

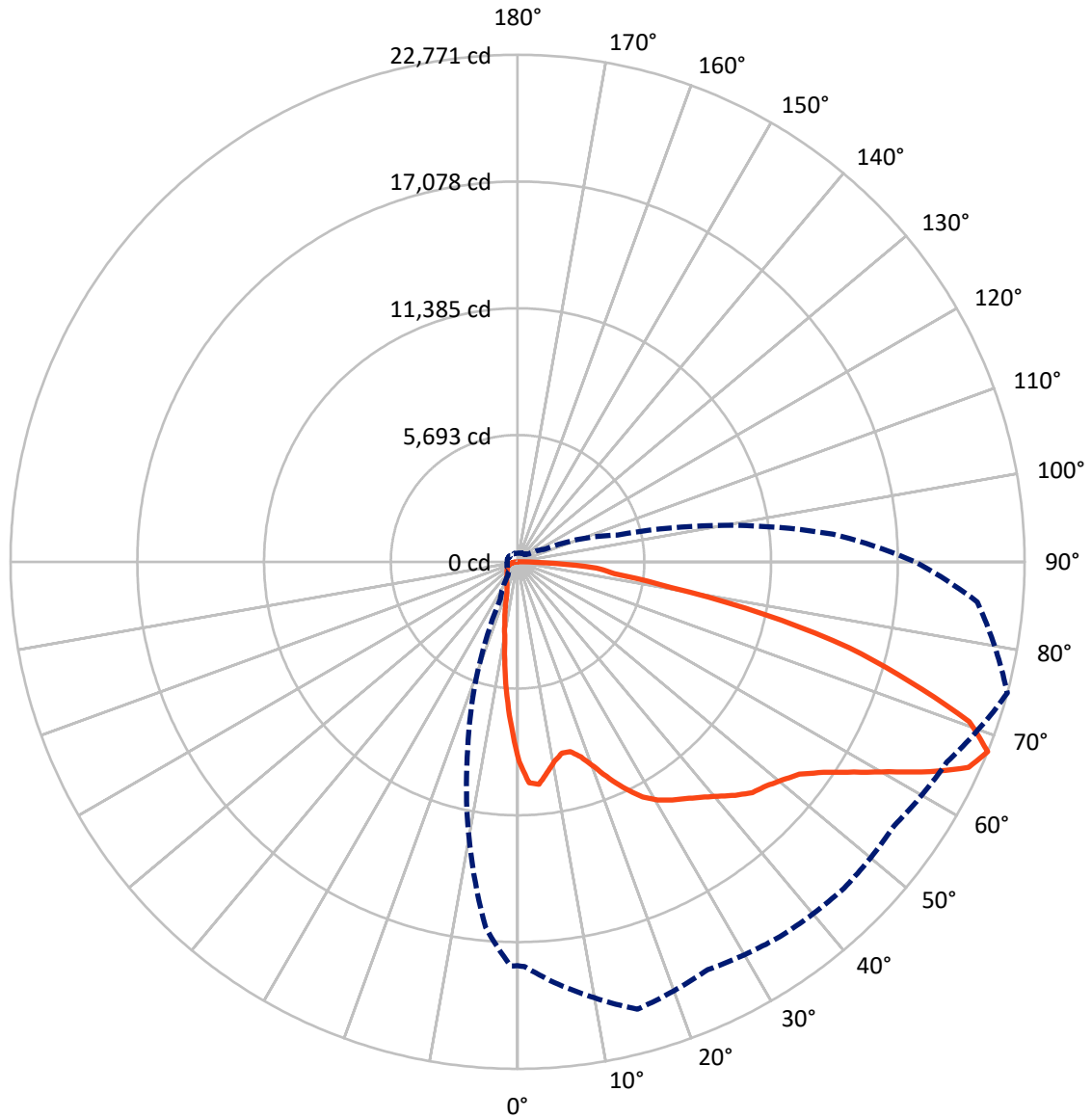
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.7 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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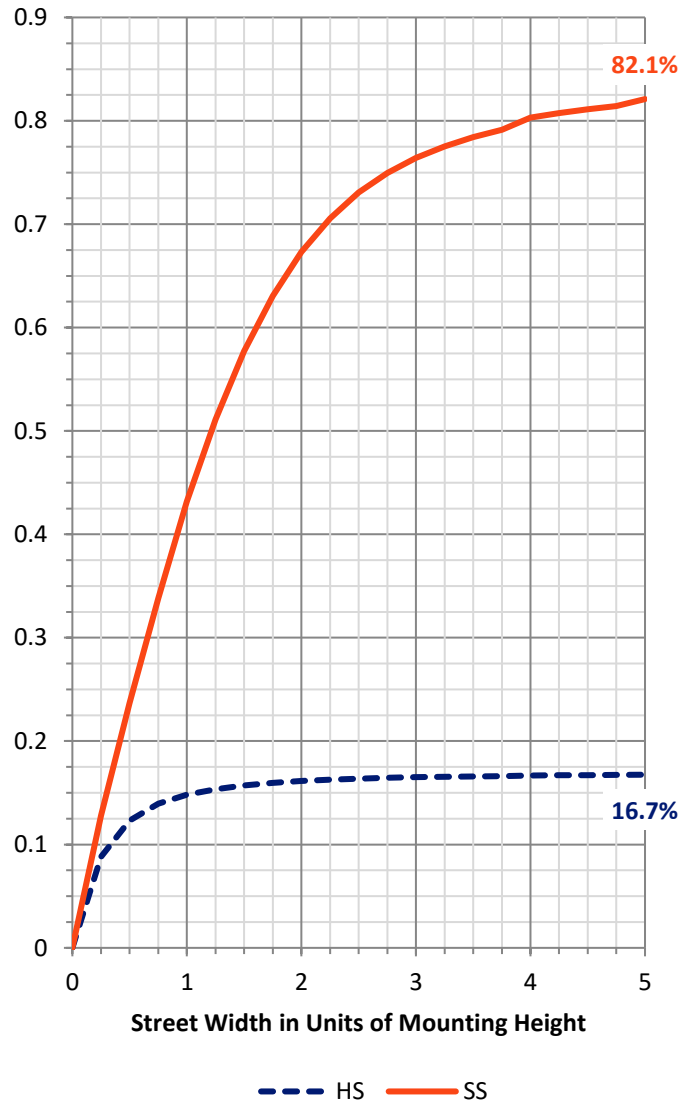
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4856.2	0.0	4856.2
	% Fixture	16.9	0.0	16.9
<b>Street Side</b>	Lumens	23874.9	0.0	23874.9
	% Fixture	83.1	0.0	83.1
<b>Total</b>	Lumens	28731.1	0.0	28731.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	680.8	2.4
10°-20°	1419.9	4.9
20°-30°	2043.2	7.1
30°-40°	2942.8	10.2
40°-50°	4133.9	14.4
50°-60°	5765.3	20.1
60°-70°	6854.6	23.9
70°-80°	4036.9	14.1
80°-90°	853.7	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°	28731.1	100.0
0°-180°	28731.1	100.0

**Coefficient of Utilization**

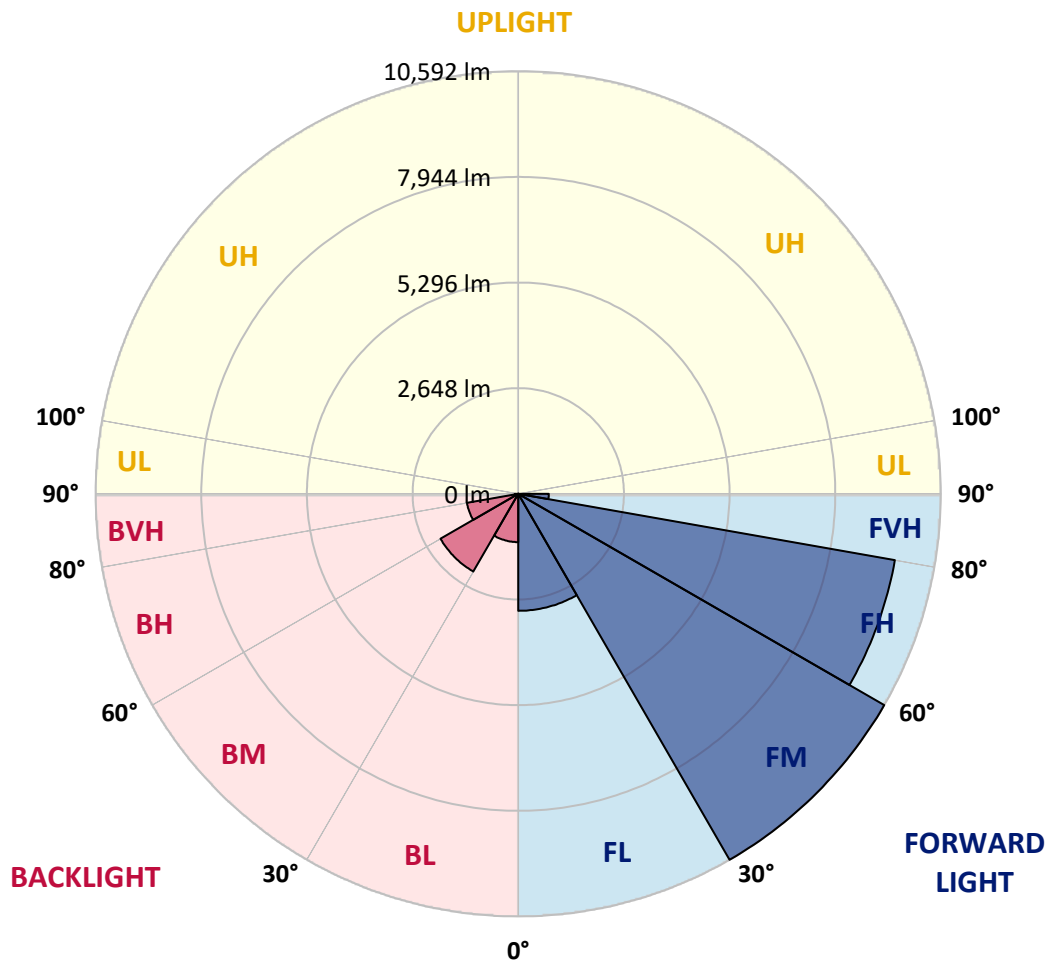


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2932.7	10.2			
FM (30°-60°)	10592.1	36.9			
FH (60°-80°)	9584.8	33.4			G4/12000
FVH (80°-90°)	765.4	2.7			G5
BL (0°-30°)	1211.3	4.2	B3/2500		
BM (30°-60°)	2249.9	7.8	B2/2500		
BH (60°-80°)	1306.7	4.5	B3/2500		G3/2500
BVH (80°-90°)	88.3	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-G5**  
 Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	8976.2	8976.2	8976.2	8976.2	8976.2	8976.2	8976.2	8976.2	8976.2	8976.2	8976.2
2.5°	9678.2	9691.1	9774.0	10015.4	10181.2	10242.0	10284.4	10205.2	10127.7	9939.9	9656.1
5°	9648.8	9724.3	9939.9	10481.6	10908.9	11093.2	11148.5	10910.8	10518.4	10035.7	9455.3
7.5°	9085.0	9186.3	9517.9	10426.2	11179.8	11610.9	11553.8	11124.5	10417.0	9556.6	8746.0
10°	8416.1	8528.6	8928.4	10026.5	10997.4	11590.7	11590.7	11067.4	10127.7	9105.3	8171.2
12.5°	7885.6	8003.5	8460.4	9615.6	10617.9	11179.8	11273.8	10824.3	9919.6	8819.7	7793.5
15°	7710.5	7824.7	8316.6	9366.9	10216.2	10558.9	10590.2	10442.9	9818.3	8839.9	7776.9
17.5°	7927.9	8075.4	8572.8	9440.6	9847.8	9868.0	9891.9	10008.0	9829.3	9210.3	8112.2
20°	8556.2	8714.6	9234.2	9678.2	9525.3	9315.3	9328.2	9626.7	9960.1	9822.0	8913.6
22.5°	9462.7	9600.9	10133.3	10096.5	9389.0	8956.0	8865.7	9282.1	10153.6	10584.7	9766.7
25°	10441.0	10603.2	11214.8	10717.4	9427.7	8742.3	8685.2	9079.4	10354.4	11297.7	10752.4
27.5°	11561.2	11719.7	12202.3	11343.7	9630.3	8725.7	8657.5	9061.0	10535.0	11957.3	11693.9
30°	12394.0	12539.5	12867.5	11870.7	9879.1	8836.2	8751.5	9206.6	10689.7	12408.7	12611.4
32.5°	13048.0	13199.1	13377.8	12198.6	10207.0	9037.0	8880.5	9471.8	10892.4	12753.3	13291.2
35°	13729.7	13908.5	13895.5	12489.8	10512.8	9269.2	9116.3	9855.1	11211.1	13053.6	14153.4
37.5°	14593.8	14665.7	14573.5	12751.4	10879.5	9687.5	9602.7	10424.4	11664.3	13416.5	15161.3
40°	15470.8	15614.5	15141.0	13068.3	11325.3	10474.2	10465.0	11266.4	12202.3	13842.1	16137.8
42.5°	16222.5	16344.1	15671.6	13344.7	11865.2	11434.1	11504.0	12395.8	12908.0	14335.9	16922.6
45°	16788.1	16896.9	16161.7	13611.8	12576.4	12543.2	12955.9	13606.3	13797.9	14779.9	17383.2
47.5°	17269.0	17374.1	16502.5	14017.1	13455.2	13867.9	14586.5	14868.3	14558.8	15034.1	17899.1
50°	17674.4	17705.7	16736.6	14499.8	14545.9	15491.1	16187.5	16369.9	15310.5	15399.0	18346.8
52.5°	18096.2	18055.7	17140.0	15107.8	15725.0	17031.3	17538.0	17727.8	16030.9	15848.5	18999.0
55°	19041.4	19080.1	18044.7	15874.3	16917.1	18544.0	19210.9	19028.6	16828.7	16675.8	19828.1
57.5°	20183.7	20150.5	19317.8	17073.7	18131.3	19951.5	20449.0	20156.1	17893.6	17812.5	20668.2
60°	20627.7	20671.9	20382.7	18363.4	19328.8	21184.1	21692.7	21237.6	19170.3	19133.5	21302.0
62.5°	20181.9	20430.6	20625.9	19511.2	20349.5	22090.6	22595.4	22075.9	20502.5	20769.6	21746.1
65°	19293.8	19347.3	20012.4	20484.0	20841.5	22239.8	22503.3	22227.0	21615.3	22260.1	21725.8
67.5°	18140.5	18186.5	18965.9	20802.7	20207.6	20544.8	20729.1	20648.0	21270.7	22770.5	20725.4
70°	17042.4	17005.5	17829.1	19990.2	17591.4	17079.2	17232.2	16977.9	18354.2	21523.1	18763.2
72.5°	14905.2	15037.8	15922.2	17731.5	13928.7	13095.9	13429.4	12771.7	14116.6	18433.4	15229.4
75°	11675.4	11706.7	13182.5	14881.2	10507.3	9193.6	9645.1	9370.5	10813.2	15376.8	10516.5
77.5°	8084.5	8014.6	9600.9	11365.9	7493.1	6730.4	6737.8	6606.9	7550.2	11321.7	7144.9
80°	5134.8	5028.0	6010.0	7021.4	5149.5	5508.8	5328.2	5322.8	4915.6	6984.6	4320.5
82.5°	2774.7	2892.6	3797.2	4401.5	3694.1	4257.8	3902.2	3788.0	3373.5	4372.0	2763.6
85°	1263.9	1374.4	2024.8	2994.0	2806.0	2837.4	1895.9	2236.7	2791.3	3550.4	1475.8
87.5°	123.5	158.4	418.2	1413.1	958.1	755.4	281.9	543.5	702.0	1262.1	117.9
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°	8976.2	8976.2	8976.2	8976.2	8976.2	8976.2	8976.2	8976.2	8976.2	8976.2	8976.2
2.5°	9540.1	9444.3	9118.1	8849.2	8563.6	8346.2	8062.4	7872.7	7741.8	7544.7	7520.7
5°	9101.6	8867.6	8300.1	7721.6	7222.3	6846.4	6465.0	6115.0	5908.6	5844.2	5761.3
7.5°	8362.7	7968.5	7238.9	6575.6	6002.6	5442.5	5011.4	4705.6	4501.0	4381.3	4237.5
10°	7754.8	7297.9	6409.8	5597.3	5125.6	4777.4	4397.8	4069.9	3817.5	3601.9	3484.0
12.5°	7345.7	6829.8	5831.2	5171.6	4806.9	4436.5	3992.6	3624.0	3251.9	3006.8	2901.8
15°	7222.3	6677.0	5652.5	4959.8	4436.5	3952.0	3454.6	2973.7	2605.2	2373.0	2295.7
17.5°	7524.4	6864.8	5650.7	4677.9	4001.7	3423.2	2785.7	2334.4	1956.7	1783.4	1728.2
20°	8088.2	7226.0	5667.2	4399.7	3530.1	2715.8	2026.6	1656.3	1475.8	1402.1	1374.4
22.5°	8874.9	7776.9	5717.0	4125.2	3014.2	2085.6	1518.2	1330.2	1265.7	1252.8	1247.3
25°	9844.1	8458.5	5884.7	3878.3	2579.3	1591.8	1269.4	1184.7	1147.8	1134.9	1133.1
27.5°	10735.8	9339.2	6087.3	3666.4	2159.4	1372.6	1147.8	1076.0	1039.1	1037.3	1041.0
30°	11541.0	10076.2	6256.9	3428.8	1840.6	1219.7	1068.6	996.8	961.8	959.9	970.9
32.5°	12237.4	10682.4	6382.2	3194.8	1663.7	1125.7	996.8	919.4	889.9	884.4	889.9
35°	12981.7	11286.6	6325.0	3012.4	1562.4	1048.3	943.3	867.7	832.8	816.2	816.2
37.5°	13831.1	11909.4	6227.4	2861.3	1516.3	983.9	897.3	823.6	788.5	772.0	770.1
40°	14757.8	12532.2	6092.9	2726.8	1470.2	945.2	866.0	788.5	746.2	729.6	726.0
42.5°	15575.8	13064.6	5982.4	2638.4	1394.7	952.5	838.3	762.8	709.3	687.2	685.4
45°	16287.0	13600.7	5962.1	2586.7	1332.1	941.5	830.9	742.5	679.9	655.9	652.2
47.5°	16843.4	14159.0	6078.2	2557.3	1263.9	882.5	878.8	729.6	654.0	628.2	624.6
50°	17521.4	14951.2	6343.4	2496.5	1201.3	827.2	928.5	727.7	633.8	600.6	591.4
52.5°	18424.2	15983.0	6702.7	2387.8	1111.0	775.7	886.2	727.7	609.8	576.7	565.7
55°	19789.4	17298.4	7054.6	2234.9	983.9	707.4	799.6	705.7	574.8	545.4	538.0
57.5°	20694.1	18260.2	7279.4	2022.9	825.4	657.7	689.0	670.6	539.8	508.5	508.5
60°	20740.2	18518.1	7172.6	1755.8	726.0	611.7	598.8	676.2	508.5	475.3	471.6
62.5°	20209.5	17886.2	6616.1	1516.3	672.5	562.0	541.7	593.2	477.2	444.0	438.5
65°	19380.4	16274.1	5650.7	1402.1	643.0	517.7	488.2	486.4	444.0	412.7	405.4
67.5°	17856.7	14221.6	4642.9	1335.8	628.2	468.0	440.3	431.1	405.4	379.5	375.8
70°	15610.8	11911.3	3723.5	1308.1	620.9	416.4	394.3	383.2	361.1	340.9	339.0
72.5°	12145.2	9661.7	3073.2	1289.7	617.2	368.4	344.6	329.8	316.9	298.5	298.5
75°	8723.9	7108.0	2345.4	1162.6	571.1	316.9	291.1	281.9	263.5	248.8	252.4
77.5°	5499.6	4786.6	1543.9	854.9	442.2	254.2	232.1	226.6	211.8	191.6	204.5
80°	3714.4	3366.1	901.0	538.0	278.2	186.1	178.7	176.9	160.3	138.2	140.0
82.5°	2527.8	2479.9	468.0	305.9	160.3	108.7	105.0	108.7	90.2	73.7	73.7
85°	987.5	1348.6	221.1	119.8	51.6	16.6	24.0	25.8	14.7	7.4	9.3
87.5°	18.4	138.2	5.6	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°	8976.2	8976.2	8976.2	8976.2	8976.2	8976.2	8976.2	8976.2	8976.2	8976.2	8976.2
2.5°	7483.9	7467.3	7495.0	7377.1	7401.0	7445.2	7467.3	7480.2	7662.6	7620.2	7736.4
5°	5838.6	5822.1	5928.9	5943.7	5998.9	5987.8	6041.3	6054.2	6120.5	6144.4	6306.6
7.5°	4246.8	4318.6	4440.2	4502.9	4596.8	4626.3	4598.7	4666.9	4528.7	4628.2	4657.6
10°	3412.2	3325.6	3274.0	3417.7	3436.1	3572.5	3517.1	3473.0	3554.1	3557.7	3635.1
12.5°	2841.0	2655.0	2531.5	2572.0	2616.3	2675.2	2684.4	2772.9	2831.8	2887.1	2933.2
15°	2227.5	2163.0	2050.6	1995.4	2058.0	2081.9	2139.1	2212.8	2275.4	2292.0	2354.6
17.5°	1709.8	1720.9	1702.4	1669.2	1707.9	1726.3	1730.0	1731.9	1748.4	1737.4	1829.5
20°	1376.3	1415.0	1461.1	1468.4	1481.3	1490.5	1473.9	1411.3	1413.1	1451.8	1481.3
22.5°	1245.4	1252.8	1304.5	1321.0	1361.6	1344.9	1297.1	1267.6	1263.9	1273.1	1287.8
25°	1142.3	1153.3	1190.2	1216.0	1247.3	1217.9	1182.9	1155.2	1151.5	1160.7	1175.5
27.5°	1050.2	1066.7	1099.9	1125.7	1155.2	1127.5	1094.4	1070.4	1068.6	1066.7	1076.0
30°	976.5	994.9	1018.9	1048.3	1068.6	1044.7	1013.3	1000.5	998.6	994.9	998.6
32.5°	902.8	932.2	956.2	970.9	991.2	972.8	948.8	941.5	928.5	917.5	912.0
35°	819.9	851.2	888.0	906.4	926.7	908.3	891.7	860.4	838.3	836.5	840.2
37.5°	772.0	784.9	814.3	845.7	866.0	856.7	825.4	794.1	788.5	788.5	792.2
40°	729.6	735.1	748.0	788.5	825.4	797.8	759.1	749.8	749.8	748.0	749.8
42.5°	687.2	692.7	692.7	724.1	783.1	738.8	709.3	709.3	709.3	711.1	716.7
45°	648.5	650.3	648.5	670.6	726.0	689.0	668.8	674.3	678.0	681.7	685.4
47.5°	615.4	617.2	615.4	633.8	661.4	646.7	635.6	643.0	650.3	655.9	659.6
50°	585.9	584.1	587.7	598.8	611.7	615.4	608.0	619.1	622.8	630.1	639.3
52.5°	560.1	558.3	562.0	567.5	585.9	585.9	585.9	595.1	602.5	609.8	622.8
55°	530.6	532.4	538.0	545.4	569.3	565.7	567.5	574.8	582.2	593.2	600.6
57.5°	503.0	506.7	514.0	525.1	549.0	547.2	549.0	552.7	562.0	567.5	574.8
60°	471.6	479.0	488.2	495.6	519.6	517.7	527.0	534.3	539.8	539.8	543.5
62.5°	440.3	451.4	460.6	466.2	491.9	493.8	506.7	512.2	515.9	512.2	517.7
65°	409.0	425.6	429.2	436.6	462.5	464.3	479.0	491.9	488.2	484.6	493.8
67.5°	377.7	398.0	396.1	405.4	431.1	434.8	447.7	469.8	462.5	458.8	466.2
70°	342.7	357.4	359.3	364.8	399.8	394.3	414.5	434.8	429.2	431.1	431.1
72.5°	304.0	316.9	316.9	328.0	364.8	355.6	372.1	394.3	394.3	392.4	392.4
75°	257.9	265.3	272.7	289.2	328.0	316.9	328.0	348.3	351.9	348.3	348.3
77.5°	208.2	219.2	222.9	245.1	272.7	270.8	281.9	291.1	298.5	294.8	294.8
80°	147.4	158.4	173.2	197.1	213.7	219.2	224.8	232.1	235.8	235.8	239.5
82.5°	82.9	99.5	112.4	136.3	143.7	171.3	169.5	175.0	169.5	149.3	165.8
85°	18.4	35.0	49.8	62.7	71.8	99.5	105.0	117.9	97.6	90.2	90.2
87.5°	0.0	0.0	0.0	0.0	0.0	14.7	29.5	40.5	35.0	29.5	29.5
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°	8976.2	8976.2	8976.2	8976.2	8976.2	8976.2	8976.2	8976.2	8976.2	8976.2
2.5°	7834.0	7994.3	8187.7	8521.2	8755.1	9007.6	9261.8	9532.7	9604.6	9678.2
5°	6350.8	6665.9	6837.2	7284.9	7754.8	8351.7	8839.9	9374.2	9597.2	9648.8
7.5°	4810.5	5024.3	5473.8	5927.0	6509.3	7135.7	7883.7	8716.5	8976.2	9085.0
10°	3813.9	4104.9	4499.2	4985.6	5495.9	6170.2	7014.1	7986.9	8355.3	8416.1
12.5°	3246.3	3570.6	3999.9	4513.9	4996.6	5505.2	6356.4	7360.4	7754.8	7885.6
15°	2596.0	2988.4	3484.0	4025.7	4550.8	5107.2	5969.4	7102.5	7557.6	7710.5
17.5°	2039.6	2356.5	2892.6	3480.3	4103.1	4806.9	5888.3	7226.0	7786.1	7927.9
20°	1560.6	1787.1	2238.6	2859.4	3589.1	4510.3	5908.6	7692.1	8362.7	8556.2
22.5°	1348.6	1464.7	1739.3	2330.7	3146.9	4252.3	5991.5	8331.5	9140.2	9462.7
25°	1221.6	1282.4	1437.1	1824.0	2724.9	4001.7	6181.3	9191.8	10227.2	10441.0
27.5°	1112.8	1157.0	1252.8	1531.0	2341.7	3769.6	6402.4	10146.2	11242.5	11561.2
30°	1009.6	1068.6	1158.9	1359.7	2096.7	3557.7	6680.7	10920.0	12097.4	12394.0
32.5°	930.4	989.4	1072.3	1240.0	1888.5	3334.8	6846.4	11599.9	12795.6	13048.0
35°	866.0	915.7	1002.3	1144.2	1730.0	3165.3	6813.3	12139.7	13471.8	13729.7
37.5°	819.9	862.3	948.8	1053.9	1610.3	2988.4	6796.7	12852.8	14295.3	14593.8
40°	777.5	821.7	901.0	994.9	1490.5	2780.2	6805.9	13560.2	15172.3	15470.8
42.5°	744.4	794.1	858.6	978.3	1367.0	2612.6	6805.9	14175.6	15935.1	16222.5
45°	716.7	770.1	832.8	976.5	1269.4	2485.4	6759.9	14704.4	16543.1	16788.1
47.5°	692.7	751.7	842.0	943.3	1245.4	2393.3	6719.3	15128.1	17038.7	17269.0
50°	676.2	746.2	895.4	904.7	1252.8	2365.6	6914.6	15662.4	17475.4	17674.4
52.5°	663.3	748.0	893.6	847.5	1240.0	2384.1	7321.7	16497.1	18081.5	18096.2
55°	637.5	746.2	847.5	783.1	1186.5	2415.4	7845.0	17709.4	19030.3	19041.4
57.5°	611.7	726.0	786.7	727.7	1077.8	2415.4	8475.1	18857.2	20174.5	20183.7
60°	585.9	755.4	690.9	679.9	935.9	2371.2	9140.2	19362.0	20533.8	20627.7
62.5°	560.1	760.9	617.2	637.5	832.8	2264.3	9635.8	18803.8	20047.3	20181.9
65°	530.6	613.5	569.3	593.2	779.4	2085.6	9479.2	17781.2	19133.5	19293.8
67.5°	495.6	519.6	517.7	547.2	760.9	1822.2	8653.8	16487.8	18149.7	18140.5
70°	453.2	466.2	471.6	503.0	726.0	1617.7	7211.2	14809.3	16836.1	17042.4
72.5°	409.0	420.1	425.6	453.2	690.9	1501.6	5597.3	12497.2	14582.8	14905.2
75°	361.1	368.4	375.8	399.8	654.0	1330.2	3987.0	9540.1	11168.7	11675.4
77.5°	311.3	311.3	320.6	344.6	550.9	1098.1	2675.2	6691.7	7566.8	8084.5
80°	252.4	254.2	250.5	276.4	405.4	751.7	1520.0	4469.7	5035.3	5134.8
82.5°	193.4	188.0	189.7	202.7	302.2	512.2	810.6	2776.6	2830.0	2774.7
85°	121.6	121.6	117.9	132.6	193.4	267.2	442.2	1700.6	1328.4	1263.9
87.5°	49.8	40.5	46.1	53.4	92.1	108.7	173.2	350.0	134.5	123.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)