

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: P651132

Luminaire Tested: **GALN-SA9C-840-U-SLL**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P651132  
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-SA9C-840-U-SLL  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 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: 46202.9 lumens  
Efficiency: N/A  
Efficacy: 96.1 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

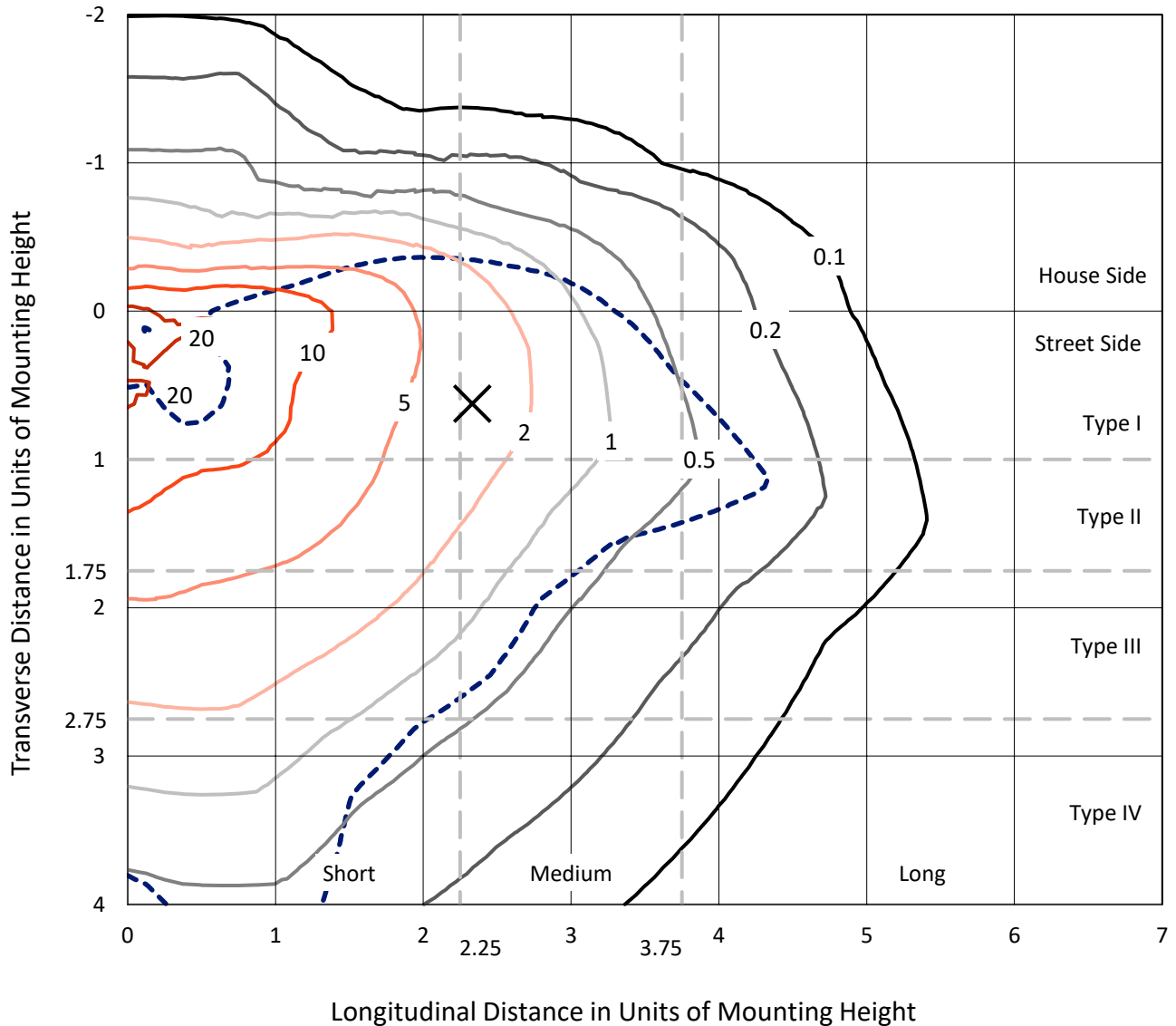
Input Watts (W): 481  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

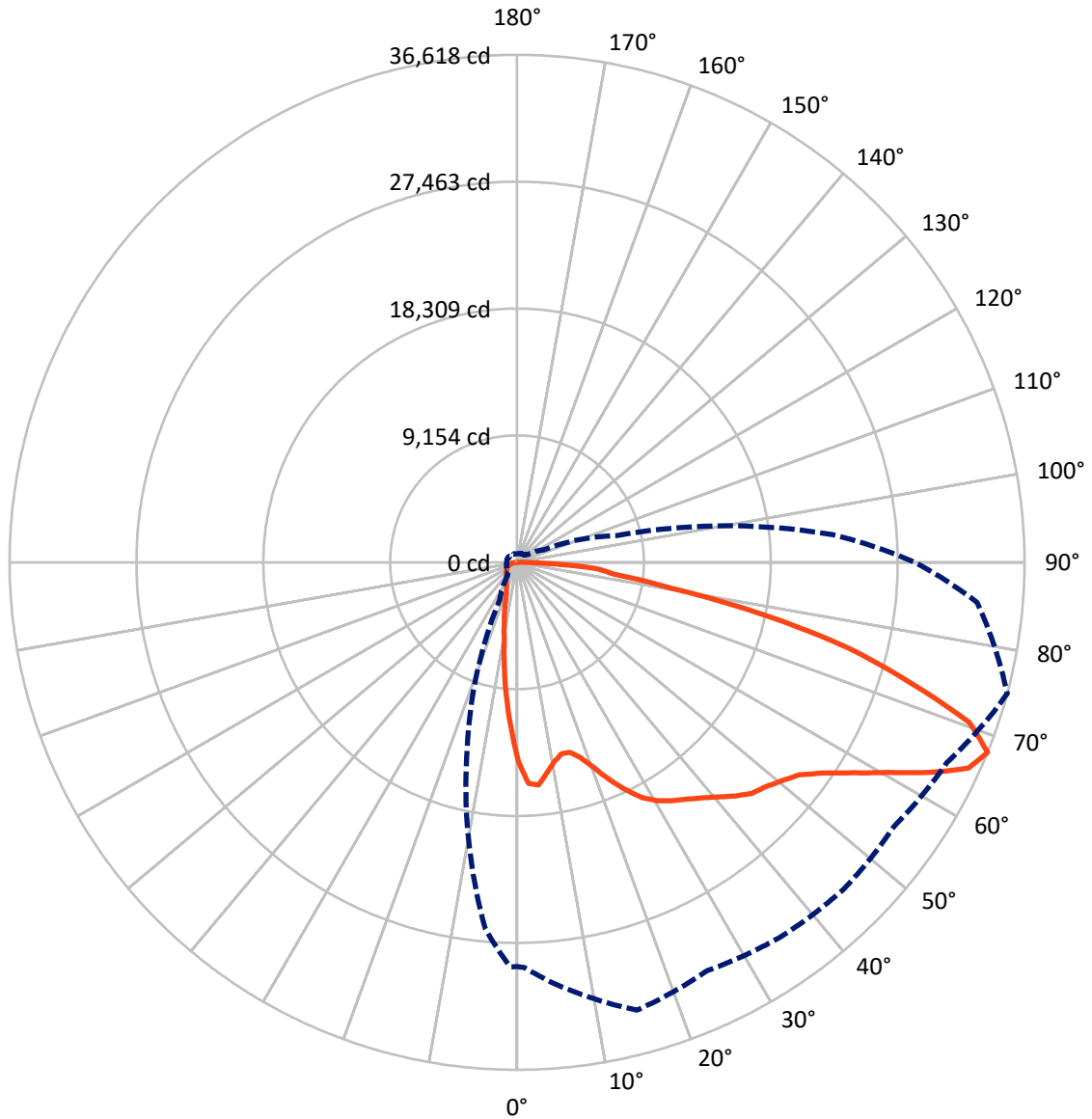
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 28.5 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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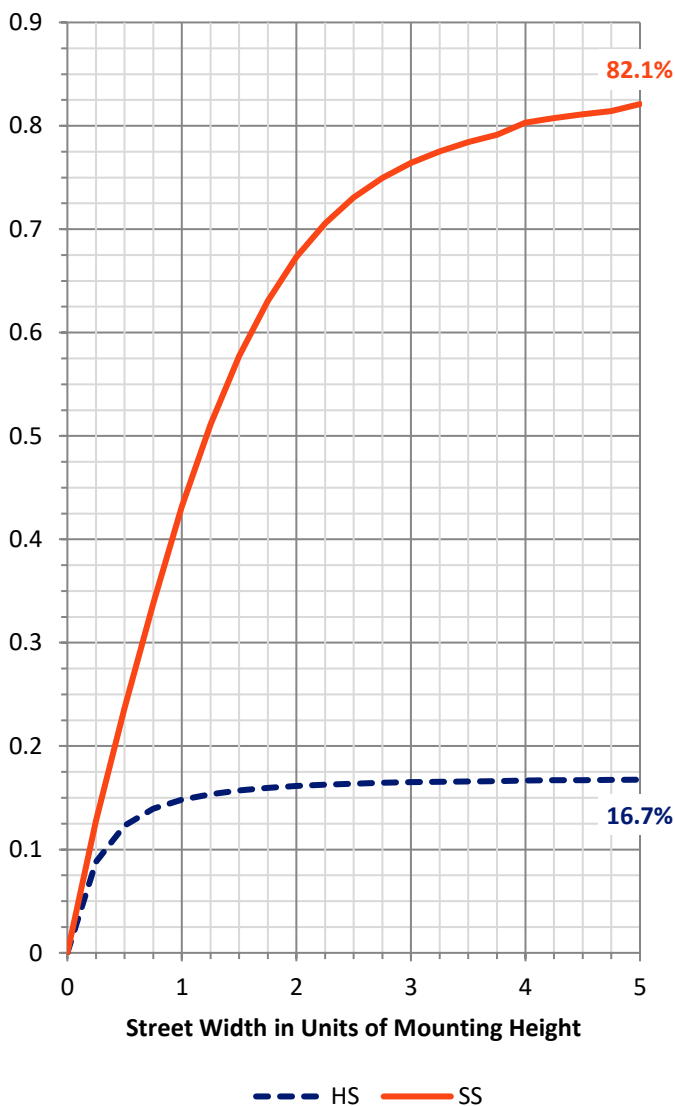
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	7809.3	0.0	7809.3
	% Fixture	16.9	0.0	16.9
<b>Street Side</b>	Lumens	38393.6	0.0	38393.6
	% Fixture	83.1	0.0	83.1
<b>Total</b>	Lumens	46202.9	0.0	46202.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1094.8	2.4
10°-20°	2283.3	4.9
20°-30°	3285.8	7.1
30°-40°	4732.4	10.2
40°-50°	6647.7	14.4
50°-60°	9271.2	20.1
60°-70°	11022.9	23.9
70°-80°	6491.9	14.1
80°-90°	1372.8	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°	46202.9	100.0
0°-180°	46202.9	100.0

**Coefficient of Utilization**

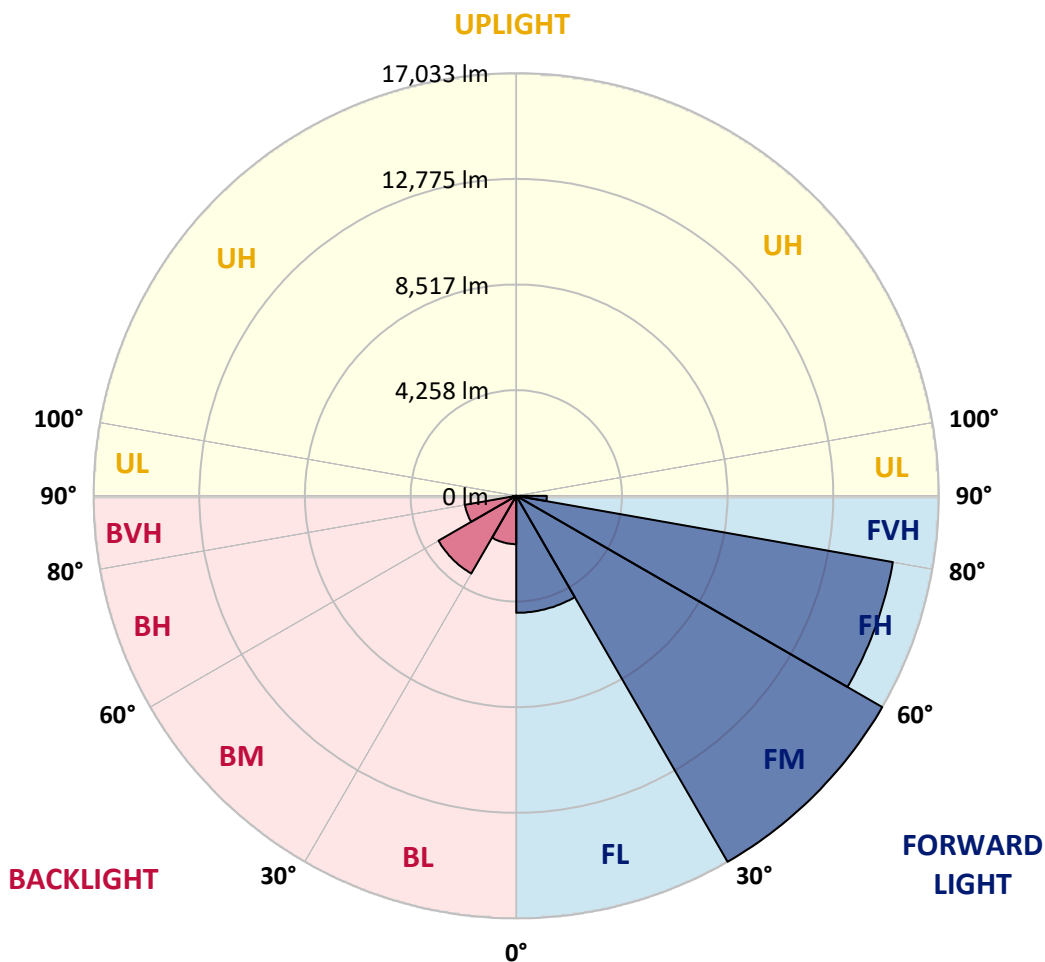


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4716.1	10.2			
FM	(30°-60°)	17033.3	36.9			
FH	(60°-80°)	15413.5	33.4			G5
FVH	(80°-90°)	1230.8	2.7			G5
BL	(0°-30°)	1947.9	4.2	B3/2500		
BM	(30°-60°)	3618.1	7.8	B3/5000		
BH	(60°-80°)	2101.3	4.5	B3/2500		G3/2500
BVH	(80°-90°)	142.0	0.3			G2/225
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°	14434.8	14434.8	14434.8	14434.8	14434.8	14434.8	14434.8	14434.8	14434.8	14434.8	14434.8
2.5°	15563.7	15584.4	15717.8	16105.9	16372.6	16470.3	16538.4	16411.1	16286.6	15984.4	15528.1
5°	15516.3	15637.8	15984.4	16855.5	17542.8	17839.1	17928.0	17545.9	16914.8	16138.5	15205.2
7.5°	14609.7	14772.7	15305.9	16766.6	17978.4	18671.7	18579.9	17889.5	16751.8	15368.2	14064.5
10°	13534.1	13714.9	14357.8	16123.7	17685.1	18639.1	18639.1	17797.7	16286.6	14642.2	13140.1
12.5°	12680.9	12870.5	13605.3	15463.0	17074.7	17978.4	18129.5	17406.6	15951.8	14183.0	12532.8
15°	12399.4	12583.1	13374.2	15063.0	16428.9	16980.0	17030.3	16793.3	15788.8	14215.6	12506.1
17.5°	12749.1	12986.0	13786.0	15181.5	15836.3	15868.9	15907.3	16094.0	15806.7	14811.1	13045.3
20°	13759.3	14014.2	14849.6	15563.7	15317.8	14980.1	15000.7	15480.7	16017.0	15794.8	14334.2
22.5°	15217.1	15439.2	16295.6	16236.3	15098.6	14402.3	14257.1	14926.7	16328.1	17021.4	15705.9
25°	16790.3	17051.0	18034.7	17234.7	15160.8	14058.6	13966.7	14600.8	16651.0	18168.0	17291.0
27.5°	18591.7	18846.5	19622.8	18242.1	15486.7	14031.9	13922.3	14571.2	16941.4	19228.7	18805.0
30°	19930.9	20165.0	20692.4	19089.4	15886.7	14209.7	14073.4	14805.2	17190.3	19954.6	20280.5
32.5°	20982.7	21225.7	21513.0	19616.8	16414.0	14532.6	14280.8	15231.9	17516.2	20508.6	21373.8
35°	22078.9	22366.3	22345.6	20084.9	16905.9	14906.0	14660.1	15848.1	18028.8	20991.6	22760.4
37.5°	23468.5	23584.1	23435.9	20505.7	17495.5	15578.5	15442.2	16763.7	18757.7	21575.3	24381.1
40°	24878.8	25109.9	24348.5	21015.3	18212.4	16843.6	16828.8	18117.7	19622.8	22259.7	25951.3
42.5°	26087.7	26283.2	25201.7	21459.7	19080.6	18387.3	18499.9	19933.9	20757.6	23053.7	27213.5
45°	26997.2	27172.0	25989.8	21889.3	20224.2	20170.9	20834.6	21880.5	22188.6	23767.8	27954.3
47.5°	27770.5	27939.4	26538.0	22541.2	21637.5	22301.1	23456.7	23910.0	23412.2	24176.6	28783.8
50°	28422.4	28472.7	26914.3	23317.4	23391.5	24911.4	26031.4	26324.6	24621.0	24763.2	29503.8
52.5°	29100.9	29035.6	27563.1	24295.1	25287.7	27388.3	28203.1	28508.3	25779.5	25486.2	30552.6
55°	30620.7	30683.0	29017.9	25527.6	27204.7	29820.8	30893.4	30600.0	27062.4	26816.5	31885.9
57.5°	32457.7	32404.4	31065.2	27456.5	29157.1	32084.4	32884.4	32413.2	28774.9	28644.5	33236.9
60°	33171.7	33242.9	32777.7	29530.5	31082.9	34066.6	34884.3	34152.4	30828.1	30768.9	34256.1
62.5°	32454.8	32854.8	33168.8	31376.3	32724.4	35524.3	36336.1	35500.5	32970.3	33399.9	34970.2
65°	31026.7	31112.6	32182.1	32940.6	33515.4	35764.2	36187.9	35743.5	34759.8	35796.8	34937.6
67.5°	29171.9	29246.0	30499.3	33453.2	32496.2	33038.4	33334.7	33204.4	34205.7	36617.5	33328.7
70°	27406.1	27346.9	28671.2	32146.6	28289.1	27465.4	27711.3	27302.4	29515.7	34611.7	30173.4
72.5°	23969.3	24182.5	25604.7	28514.2	22398.9	21059.7	21596.0	20538.3	22701.1	29643.1	24490.7
75°	18775.4	18825.8	21199.0	23930.7	16897.0	14784.4	15510.4	15068.9	17388.8	24727.7	16911.8
77.5°	13000.9	12888.2	15439.2	18277.6	12049.8	10823.2	10835.0	10624.7	12141.6	18206.6	11489.8
80°	8257.4	8085.5	9664.7	11291.4	8281.1	8858.8	8568.4	8559.6	7904.8	11232.1	6947.8
82.5°	4462.0	4651.7	6106.4	7078.2	5940.5	6847.1	6275.3	6091.5	5425.0	7030.8	4444.3
85°	2032.5	2210.2	3256.1	4814.6	4512.4	4562.8	3048.7	3596.9	4488.7	5709.4	2373.2
87.5°	198.5	254.8	672.5	2272.5	1540.6	1214.7	453.3	874.1	1128.9	2029.5	189.6
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):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	14434.8	14434.8	14434.8	14434.8	14434.8	14434.8	14434.8	14434.8	14434.8	14434.8	14434.8
2.5°	15341.5	15187.5	14663.0	14230.4	13771.2	13421.6	12965.3	12660.2	12449.7	12132.8	12094.3
5°	14636.3	14260.1	13347.5	12417.2	11614.3	11009.9	10396.5	9833.6	9501.8	9398.1	9264.7
7.5°	13448.3	12814.2	11641.0	10574.3	9652.9	8752.2	8058.9	7567.1	7238.2	7045.6	6814.5
10°	12470.5	11735.7	10307.6	9001.1	8242.6	7682.6	7072.2	6544.9	6139.0	5792.3	5602.7
12.5°	11812.8	10983.2	9377.3	8316.6	7730.0	7134.5	6420.4	5827.9	5229.3	4835.3	4666.5
15°	11614.3	10737.3	9089.9	7975.9	7134.5	6355.3	5555.3	4782.0	4189.4	3816.1	3691.7
17.5°	12100.1	11039.5	9087.0	7522.6	6435.2	5504.9	4479.8	3753.9	3146.5	2868.0	2779.1
20°	13006.8	11620.2	9113.7	7075.2	5676.8	4367.2	3259.1	2663.6	2373.2	2254.7	2210.2
22.5°	14271.9	12506.1	9193.6	6633.7	4847.2	3353.9	2441.3	2139.2	2035.5	2014.7	2005.9
25°	15830.4	13602.3	9463.3	6236.8	4148.0	2559.8	2041.4	1905.1	1845.8	1825.1	1822.1
27.5°	17264.4	15018.6	9789.2	5896.0	3472.4	2207.3	1845.8	1730.3	1671.1	1668.0	1674.0
30°	18559.1	16203.6	10061.7	5513.8	2959.9	1961.4	1718.4	1602.9	1546.6	1543.7	1561.4
32.5°	19679.1	17178.4	10263.2	5137.5	2675.4	1810.3	1602.9	1478.5	1431.0	1422.1	1431.0
35°	20876.1	18150.2	10171.4	4844.2	2512.5	1685.9	1517.0	1395.5	1339.2	1312.5	1312.5
37.5°	22241.9	19151.7	10014.4	4601.3	2438.4	1582.2	1442.9	1324.4	1268.1	1241.4	1238.5
40°	23732.2	20153.1	9798.1	4385.0	2364.3	1519.9	1392.5	1268.1	1199.9	1173.3	1167.4
42.5°	25047.7	21009.4	9620.3	4242.8	2242.9	1531.8	1348.1	1226.6	1140.6	1105.2	1102.1
45°	26191.3	21871.6	9587.7	4159.8	2142.1	1514.0	1336.3	1194.1	1093.3	1054.8	1048.8
47.5°	27086.1	22769.3	9774.4	4112.4	2032.5	1419.2	1413.3	1173.3	1051.8	1010.3	1004.4
50°	28176.4	24043.3	10201.0	4014.6	1931.8	1330.3	1493.3	1170.3	1019.2	965.9	951.1
52.5°	29628.2	25702.5	10778.8	3839.8	1786.6	1247.4	1425.2	1170.3	980.7	927.4	909.6
55°	31823.7	27817.9	11344.7	3593.9	1582.2	1137.7	1285.9	1134.8	924.4	877.0	865.1
57.5°	33278.4	29364.5	11706.1	3253.2	1327.4	1057.7	1108.1	1078.5	868.1	817.7	817.7
60°	33352.5	29779.3	11534.2	2823.6	1167.4	983.6	962.9	1087.3	817.7	764.4	758.5
62.5°	32499.2	28763.0	10639.5	2438.4	1081.4	903.7	871.1	954.0	767.4	714.0	705.2
65°	31165.9	26170.6	9087.0	2254.7	1034.0	832.6	785.2	782.2	714.0	663.6	651.9
67.5°	28715.7	22870.0	7466.3	2148.1	1010.3	752.5	708.1	693.3	651.9	610.3	604.4
70°	25104.0	19154.6	5987.8	2103.6	998.4	669.6	634.0	616.3	580.7	548.2	545.1
72.5°	19530.9	15537.1	4942.0	2074.0	992.5	592.6	554.1	530.3	509.6	480.0	480.0
75°	14029.0	11430.5	3771.6	1869.5	918.5	509.6	468.1	453.3	423.7	400.0	405.9
77.5°	8844.0	7697.4	2482.9	1374.8	711.1	408.9	373.3	364.4	340.7	308.1	328.9
80°	5973.0	5413.1	1448.8	865.1	447.4	299.2	287.4	284.4	257.8	222.2	225.1
82.5°	4065.0	3987.9	752.5	491.8	257.8	174.8	168.9	174.8	145.2	118.5	118.5
85°	1588.1	2168.8	355.6	192.6	82.9	26.7	38.5	41.5	23.7	11.9	14.8
87.5°	29.6	222.2	8.9	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°	14434.8	14434.8	14434.8	14434.8	14434.8	14434.8	14434.8	14434.8	14434.8	14434.8	14434.8
2.5°	12035.0	12008.3	12052.8	11863.1	11901.7	11972.7	12008.3	12029.1	12322.4	12254.2	12440.9
5°	9389.2	9362.5	9534.3	9558.0	9646.9	9629.2	9715.1	9735.8	9842.5	9881.0	10141.7
7.5°	6829.3	6944.9	7140.4	7241.1	7392.2	7439.7	7395.2	7504.8	7282.6	7442.6	7490.0
10°	5487.1	5347.9	5264.9	5496.0	5525.6	5744.9	5656.1	5584.9	5715.3	5721.2	5845.6
12.5°	4568.6	4269.4	4070.9	4136.1	4207.2	4302.1	4316.9	4459.1	4553.8	4642.7	4716.8
15°	3582.1	3478.4	3297.6	3208.8	3309.5	3348.0	3439.9	3558.4	3659.1	3685.8	3786.5
17.5°	2749.5	2767.3	2737.6	2684.3	2746.5	2776.1	2782.1	2785.1	2811.7	2794.0	2942.1
20°	2213.3	2275.4	2349.5	2361.4	2382.1	2396.9	2370.3	2269.5	2272.5	2334.7	2382.1
22.5°	2002.8	2014.7	2097.7	2124.4	2189.5	2162.9	2085.8	2038.4	2032.5	2047.3	2071.0
25°	1836.9	1854.7	1913.9	1955.5	2005.9	1958.4	1902.1	1857.7	1851.8	1866.6	1890.3
27.5°	1688.8	1715.5	1768.8	1810.3	1857.7	1813.3	1759.9	1721.4	1718.4	1715.5	1730.3
30°	1570.3	1599.9	1638.4	1685.9	1718.4	1679.9	1629.5	1608.8	1605.9	1599.9	1605.9
32.5°	1451.8	1499.2	1537.7	1561.4	1594.0	1564.3	1525.8	1514.0	1493.3	1475.5	1466.6
35°	1318.4	1368.8	1428.1	1457.7	1490.3	1460.6	1434.0	1383.6	1348.1	1345.1	1351.1
37.5°	1241.4	1262.2	1309.6	1359.9	1392.5	1377.7	1327.4	1277.0	1268.1	1268.1	1274.0
40°	1173.3	1182.2	1202.9	1268.1	1327.4	1282.9	1220.7	1205.9	1205.9	1202.9	1205.9
42.5°	1105.2	1114.0	1114.0	1164.4	1259.2	1188.1	1140.6	1140.6	1140.6	1143.7	1152.5
45°	1042.9	1045.9	1042.9	1078.5	1167.4	1108.1	1075.5	1084.4	1090.4	1096.2	1102.1
47.5°	989.6	992.5	989.6	1019.2	1063.6	1040.0	1022.2	1034.0	1045.9	1054.8	1060.7
50°	942.2	939.2	945.1	962.9	983.6	989.6	977.7	995.5	1001.5	1013.3	1028.1
52.5°	900.7	897.8	903.7	912.6	942.2	942.2	942.2	957.0	968.8	980.7	1001.5
55°	853.3	856.2	865.1	877.0	915.5	909.6	912.6	924.4	936.3	954.0	965.9
57.5°	808.9	814.8	826.6	844.4	882.9	879.9	882.9	888.9	903.7	912.6	924.4
60°	758.5	770.4	785.2	797.0	835.5	832.6	847.4	859.2	868.1	868.1	874.1
62.5°	708.1	725.9	740.7	749.6	791.0	794.1	814.8	823.7	829.6	823.7	832.6
65°	657.7	684.4	690.4	702.2	743.7	746.6	770.4	791.0	785.2	779.2	794.1
67.5°	607.4	640.0	637.0	651.9	693.3	699.2	720.0	755.6	743.7	737.7	749.6
70°	551.1	574.8	577.8	586.6	642.9	634.0	666.7	699.2	690.4	693.3	693.3
72.5°	488.9	509.6	509.6	527.4	586.6	571.8	598.5	634.0	634.0	631.1	631.1
75°	414.8	426.6	438.5	465.2	527.4	509.6	527.4	559.9	565.9	559.9	559.9
77.5°	334.8	352.5	358.5	394.1	438.5	435.6	453.3	468.1	480.0	474.1	474.1
80°	237.0	254.8	278.5	317.1	343.7	352.5	361.5	373.3	379.2	379.2	385.2
82.5°	133.3	160.0	180.7	219.2	231.1	275.5	272.6	281.5	272.6	240.0	266.7
85°	29.6	56.3	80.0	100.8	115.6	160.0	168.9	189.6	157.0	145.2	145.2
87.5°	0.0	0.0	0.0	0.0	0.0	23.7	47.4	65.2	56.3	47.4	47.4
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):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	14434.8	14434.8	14434.8	14434.8	14434.8	14434.8	14434.8	14434.8	14434.8	14434.8
2.5°	12597.9	12855.7	13166.8	13703.1	14079.3	14485.2	14894.1	15329.7	15445.2	15563.7
5°	10212.9	10719.5	10995.1	11715.0	12470.5	13430.4	14215.6	15074.8	15433.4	15516.3
7.5°	7735.9	8079.7	8802.6	9531.4	10467.7	11475.0	12677.9	14017.1	14434.8	14609.7
10°	6133.1	6601.2	7235.2	8017.4	8838.1	9922.5	11279.5	12843.8	13436.4	13534.1
12.5°	5220.5	5741.9	6432.3	7258.9	8035.2	8852.9	10221.8	11836.5	12470.5	12680.9
15°	4174.6	4805.7	5602.7	6473.8	7318.1	8213.0	9599.5	11421.7	12153.5	12399.4
17.5°	3279.8	3789.5	4651.7	5596.8	6598.2	7730.0	9469.2	11620.2	12520.9	12749.1
20°	2509.5	2873.9	3599.8	4598.3	5771.6	7253.0	9501.8	12369.8	13448.3	13759.3
22.5°	2168.8	2355.5	2796.9	3748.0	5060.5	6838.2	9635.1	13397.9	14698.6	15217.1
25°	1964.3	2062.1	2311.0	2933.2	4382.0	6435.2	9940.3	14781.5	16446.6	16790.3
27.5°	1789.6	1860.6	2014.7	2462.1	3765.7	6061.9	10295.8	16316.2	18079.1	18591.7
30°	1623.6	1718.4	1863.7	2186.6	3371.7	5721.2	10743.2	17560.7	19453.8	19930.9
32.5°	1496.2	1591.0	1724.4	1994.0	3036.9	5362.7	11009.9	18653.9	20576.8	20982.7
35°	1392.5	1472.5	1611.8	1839.9	2782.1	5090.2	10956.5	19522.0	21664.2	22078.9
37.5°	1318.4	1386.6	1525.8	1694.7	2589.5	4805.7	10929.9	20668.7	22988.6	23468.5
40°	1250.3	1321.4	1448.8	1599.9	2396.9	4470.9	10944.7	21806.4	24398.8	24878.8
42.5°	1197.0	1277.0	1380.7	1573.3	2198.4	4201.3	10944.7	22796.0	25625.4	26087.7
45°	1152.5	1238.5	1339.2	1570.3	2041.4	3996.9	10870.6	23646.3	26603.2	26997.2
47.5°	1114.0	1208.9	1354.0	1517.0	2002.8	3848.7	10805.4	24327.7	27400.2	27770.5
50°	1087.3	1199.9	1440.0	1454.8	2014.7	3804.3	11119.4	25186.9	28102.4	28422.4
52.5°	1066.6	1202.9	1436.9	1362.9	1994.0	3833.9	11774.3	26529.1	29077.2	29100.9
55°	1025.1	1199.9	1362.9	1259.2	1908.1	3884.2	12615.7	28478.6	30603.0	30620.7
57.5°	983.6	1167.4	1265.1	1170.3	1733.2	3884.2	13629.0	30324.4	32442.9	32457.7
60°	942.2	1214.7	1111.0	1093.3	1505.1	3813.2	14698.6	31136.3	33020.6	33171.7
62.5°	900.7	1223.7	992.5	1025.1	1339.2	3641.3	15495.6	30238.6	32238.5	32454.8
65°	853.3	986.7	915.5	954.0	1253.3	3353.9	15243.7	28594.2	30768.9	31026.7
67.5°	797.0	835.5	832.6	879.9	1223.7	2930.2	13916.4	26514.3	29186.7	29171.9
70°	728.9	749.6	758.5	808.9	1167.4	2601.4	11596.5	23815.2	27074.2	27406.1
72.5°	657.7	675.5	684.4	728.9	1111.0	2414.7	9001.1	20096.8	23450.7	23969.3
75°	580.7	592.6	604.4	642.9	1051.8	2139.2	6411.5	15341.5	17960.6	18775.4
77.5°	500.7	500.7	515.5	554.1	885.9	1765.8	4302.1	10760.9	12168.3	13000.9
80°	405.9	408.9	402.9	444.4	651.9	1208.9	2444.4	7187.8	8097.4	8257.4
82.5°	311.1	302.2	305.2	325.9	485.9	823.7	1303.6	4465.0	4550.9	4462.0
85°	195.5	195.5	189.6	213.4	311.1	429.6	711.1	2734.7	2136.2	2032.5
87.5°	80.0	65.2	74.1	86.0	148.1	174.8	278.5	563.0	216.3	198.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)