

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: P457685

Luminaire Tested: **GALN-SA9A-740-U-SLL**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P457685  
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-SA9A-740-U-SLL  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 4000K, 615mA 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: 35736 lumens  
Efficiency: N/A  
Efficacy: 130.4 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

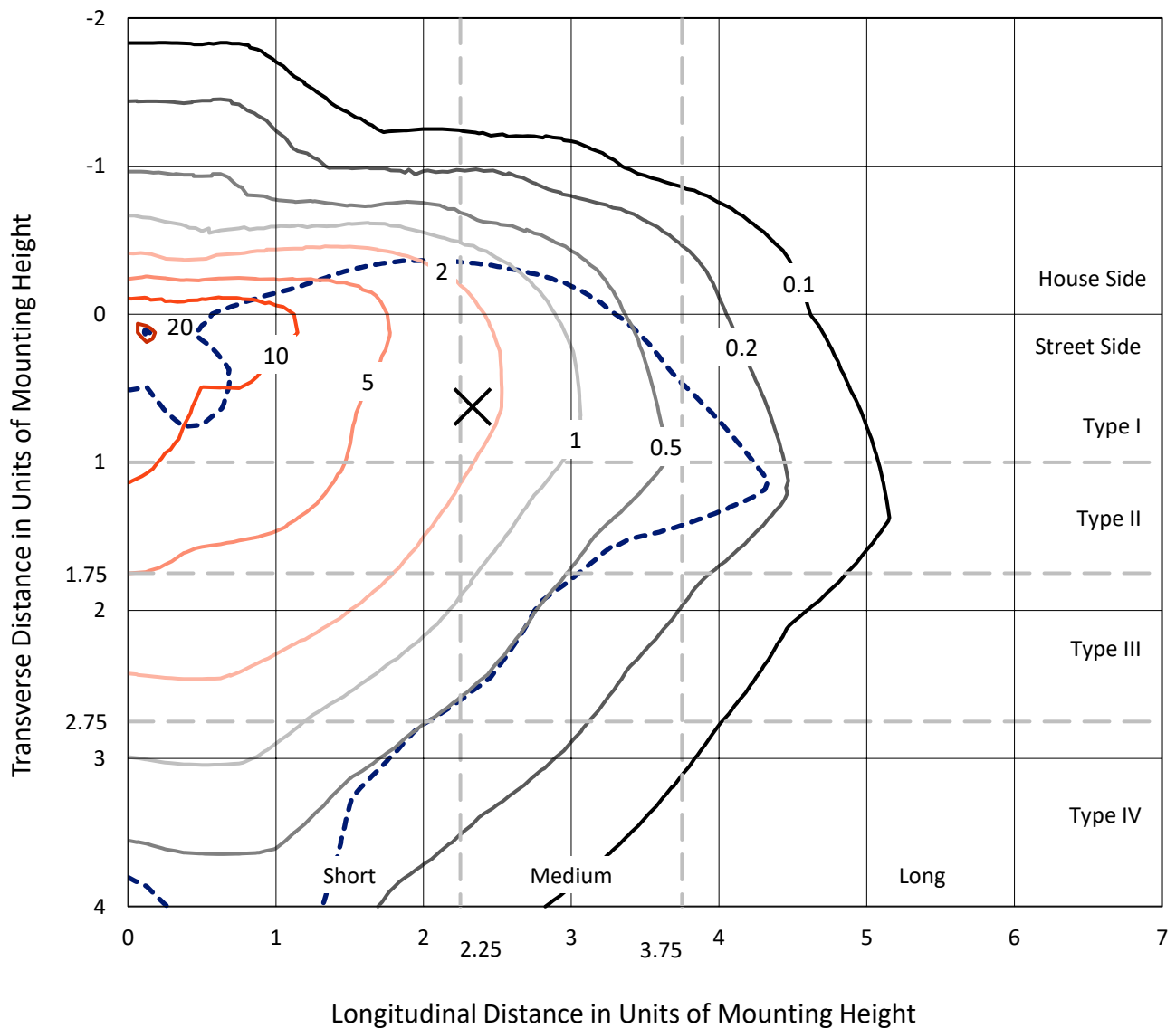
Input Watts (W): 274  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

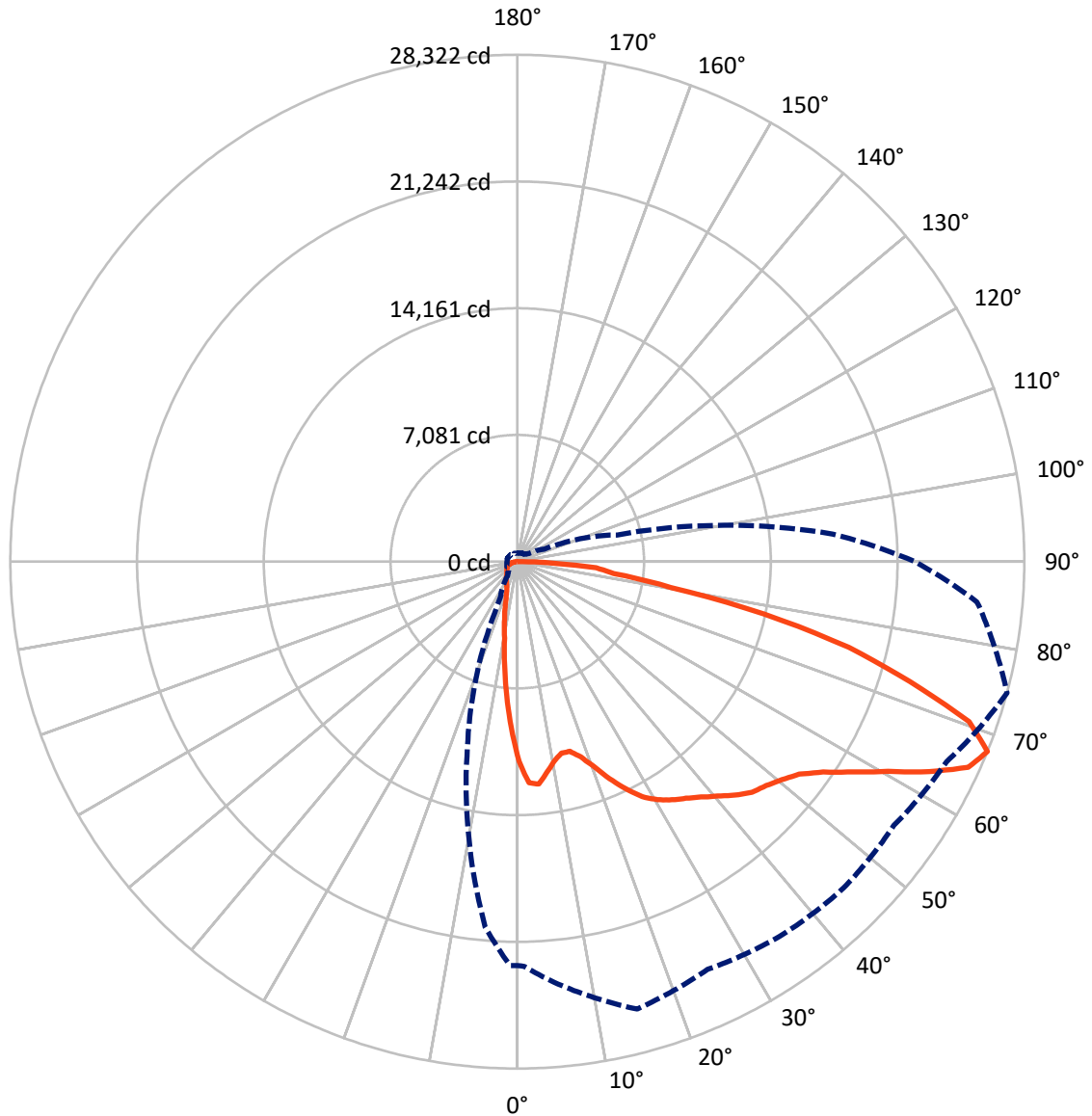
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 22 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	6040.1	0.0	6040.1
	% Fixture	16.9	0.0	16.9
<b>Street Side</b>	Lumens	29695.9	0.0	29695.9
	% Fixture	83.1	0.0	83.1
<b>Total</b>	Lumens	35736.0	0.0	35736.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	846.8	2.4
10°-20°	1766.1	4.9
20°-30°	2541.4	7.1
30°-40°	3660.3	10.2
40°-50°	5141.7	14.4
50°-60°	7170.9	20.1
60°-70°	8525.8	23.9
70°-80°	5021.2	14.1
80°-90°	1061.8	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°	35736.0	100.0
0°-180°	35736.0	100.0

**Coefficient of Utilization**



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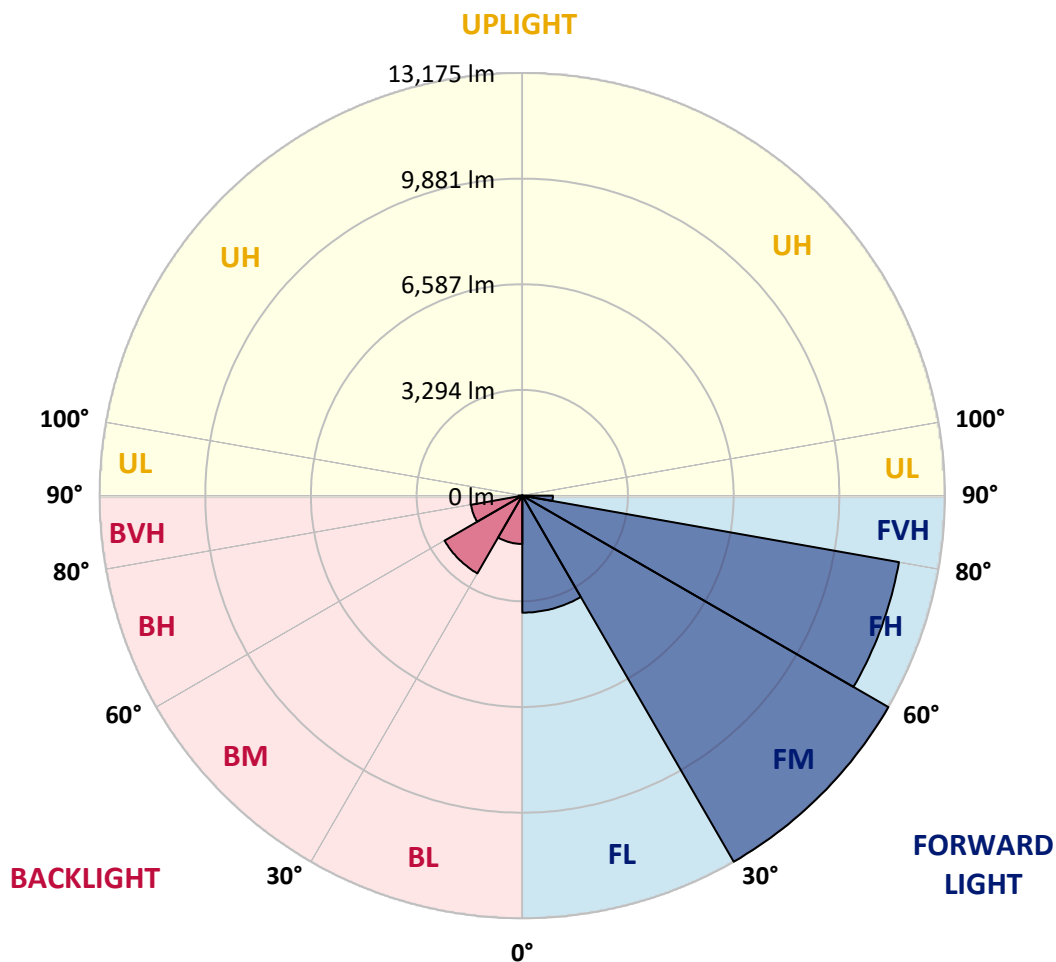
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3647.7	10.2			
FM	(30°-60°)	13174.5	36.9			
FH	(60°-80°)	11921.7	33.4			G4/12000
FVH	(80°-90°)	952.0	2.7			G5
BL	(0°-30°)	1506.6	4.2	B3/2500		
BM	(30°-60°)	2798.4	7.8	B3/5000		
BH	(60°-80°)	1625.3	4.5	B3/2500		G3/2500
BVH	(80°-90°)	109.8	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°	11164.8	11164.8	11164.8	11164.8	11164.8	11164.8	11164.8	11164.8	11164.8	11164.8	11164.8
2.5°	12037.9	12053.9	12157.0	12457.2	12663.5	12739.1	12791.8	12693.3	12597.0	12363.3	12010.4
5°	12001.2	12095.2	12363.3	13037.0	13568.7	13797.8	13866.6	13571.0	13082.9	12482.5	11760.6
7.5°	11300.0	11426.0	11838.5	12968.3	13905.5	14441.8	14370.7	13836.8	12956.8	11886.6	10878.3
10°	10468.1	10607.9	11105.2	12471.0	13678.7	14416.6	14416.6	13765.8	12597.0	11325.2	10163.3
12.5°	9808.1	9954.8	10523.1	11960.0	13206.6	13905.5	14022.4	13463.3	12338.1	10970.0	9693.6
15°	9590.4	9732.5	10344.4	11650.6	12707.0	13133.3	13172.2	12988.9	12212.0	10995.2	9672.9
17.5°	9860.8	10044.2	10662.9	11742.3	12248.7	12273.9	12303.7	12448.1	12225.8	11455.8	10090.0
20°	10642.3	10839.4	11485.6	12037.9	11847.7	11586.4	11602.5	11973.7	12388.5	12216.6	11086.9
22.5°	11769.8	11941.6	12603.9	12558.1	11678.1	11139.6	11027.3	11545.2	12629.1	13165.4	12147.9
25°	12986.6	13188.3	13949.1	13330.4	11726.2	10873.7	10802.7	11293.1	12878.9	14052.2	13373.9
27.5°	14379.9	14577.0	15177.4	14109.5	11978.3	10853.1	10768.3	11270.2	13103.5	14872.6	14544.9
30°	15415.7	15596.8	16004.7	14764.9	12287.7	10990.6	10885.2	11451.2	13296.0	15434.1	15686.1
32.5°	16229.3	16417.2	16639.5	15172.8	12695.6	11240.4	11045.6	11781.2	13548.1	15862.6	16531.7
35°	17077.2	17299.4	17283.4	15534.9	13076.0	11529.1	11338.9	12257.9	13944.5	16236.1	17604.2
37.5°	18151.9	18241.3	18126.7	15860.3	13532.0	12049.3	11943.9	12966.0	14508.2	16687.6	18857.7
40°	19242.7	19421.5	18832.5	16254.5	14086.6	13027.9	13016.4	14013.3	15177.4	17216.9	20072.3
42.5°	20177.7	20329.0	19492.5	16598.2	14758.0	14221.8	14308.9	15418.0	16055.1	17831.1	21048.5
45°	20881.2	21016.4	20102.1	16930.5	15642.6	15601.3	16114.7	16923.6	17161.9	18383.4	21621.4
47.5°	21479.4	21610.0	20526.0	17434.6	16735.7	17249.0	18142.8	18493.4	18108.4	18699.6	22263.1
50°	21983.5	22022.5	20817.1	18035.0	18092.3	19267.9	20134.2	20361.0	19043.4	19153.4	22820.0
52.5°	22508.3	22457.9	21318.9	18791.3	19559.0	21183.7	21813.9	22050.0	19939.4	19712.5	23631.2
55°	23683.9	23732.0	22444.1	19744.6	21041.7	23065.2	23894.7	23667.9	20931.7	20741.5	24662.4
57.5°	25104.7	25063.4	24027.6	21236.4	22551.8	24816.0	25434.7	25070.3	22256.2	22155.4	25707.4
60°	25657.0	25712.0	25352.2	22840.6	24041.4	26349.0	26981.5	26415.5	23844.3	23798.5	26495.7
62.5°	25102.4	25411.8	25654.7	24268.3	25310.9	27476.5	28104.4	27458.2	25501.1	25833.4	27048.0
65°	23997.8	24064.3	24891.6	25478.2	25922.8	27662.1	27989.8	27646.1	26885.3	27687.4	27022.8
67.5°	22563.3	22620.6	23589.9	25874.7	25134.5	25553.9	25783.0	25682.2	26456.8	28322.1	25778.4
70°	21197.5	21151.7	22176.0	24864.1	21880.4	21243.3	21433.5	21117.3	22829.1	26770.7	23337.9
72.5°	18539.2	18704.2	19804.2	22054.5	17324.6	16288.8	16703.6	15885.5	17558.4	22927.7	18942.5
75°	14522.0	14561.0	16396.5	18509.4	13069.1	11435.2	11996.6	11655.2	13449.5	19125.9	13080.6
77.5°	10055.6	9968.5	11941.6	14137.0	9320.0	8371.3	8380.5	8217.7	9391.1	14082.0	8886.9
80°	6386.7	6253.8	7475.3	8733.4	6405.1	6851.9	6627.4	6620.5	6114.0	8687.5	5373.8
82.5°	3451.2	3597.8	4723.0	5474.7	4594.7	5295.9	4853.7	4711.6	4196.0	5438.0	3437.4
85°	1572.1	1709.5	2518.5	3723.9	3490.1	3529.1	2358.1	2782.0	3471.8	4416.0	1835.6
87.5°	153.5	197.1	520.2	1757.7	1191.6	939.6	350.6	676.0	873.1	1569.8	146.7
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°	11164.8	11164.8	11164.8	11164.8	11164.8	11164.8	11164.8	11164.8	11164.8	11164.8	11164.8
2.5°	11866.0	11746.8	11341.2	11006.7	10651.4	10381.0	10028.1	9792.1	9629.4	9384.2	9354.4
5°	11320.6	11029.6	10323.7	9604.2	8983.1	8515.7	8041.3	7605.9	7349.2	7269.0	7165.9
7.5°	10401.7	9911.3	9003.8	8178.8	7466.1	6769.4	6233.2	5852.8	5598.4	5449.5	5270.7
10°	9645.4	9077.1	7972.5	6961.9	6375.3	5942.2	5470.1	5062.2	4748.2	4480.1	4333.5
12.5°	9136.7	8495.0	7253.0	6432.6	5978.8	5518.2	4965.9	4507.6	4044.7	3739.9	3609.3
15°	8983.1	8304.8	7030.7	6169.0	5518.2	4915.5	4296.8	3698.7	3240.4	2951.6	2855.4
17.5°	9359.0	8538.6	7028.4	5818.4	4977.4	4257.8	3464.9	2903.5	2433.7	2218.3	2149.5
20°	10060.2	8987.7	7049.0	5472.4	4390.7	3377.8	2520.8	2060.2	1835.6	1743.9	1709.5
22.5°	11038.7	9672.9	7110.9	5130.9	3749.1	2594.1	1888.3	1654.5	1574.3	1558.3	1551.4
25°	12244.1	10520.8	7319.4	4823.9	3208.3	1980.0	1578.9	1473.5	1427.7	1411.6	1409.3
27.5°	13353.3	11616.2	7571.5	4560.3	2685.8	1707.3	1427.7	1338.3	1292.5	1290.2	1294.8
30°	14354.7	12532.9	7782.3	4264.7	2289.3	1517.1	1329.1	1239.8	1196.2	1193.9	1207.7
32.5°	15220.9	13286.8	7938.2	3973.7	2069.3	1400.2	1239.8	1143.5	1106.9	1100.0	1106.9
35°	16146.8	14038.5	7867.1	3746.8	1943.3	1303.9	1173.3	1079.4	1035.8	1015.2	1015.2
37.5°	17203.2	14813.0	7745.7	3558.9	1886.0	1223.7	1116.0	1024.4	980.8	960.2	957.9
40°	18355.9	15587.6	7578.4	3391.6	1828.7	1175.6	1077.1	980.8	928.1	907.5	902.9
42.5°	19373.4	16249.9	7440.9	3281.6	1734.8	1184.8	1042.7	948.7	882.3	854.8	852.5
45°	20257.9	16916.7	7415.7	3217.4	1656.8	1171.0	1033.5	923.5	845.6	815.8	811.2
47.5°	20950.0	17611.1	7560.1	3180.8	1572.1	1097.7	1093.1	907.5	813.5	781.4	776.9
50°	21793.3	18596.5	7890.0	3105.1	1494.1	1028.9	1155.0	905.2	788.3	747.1	735.6
52.5°	22916.2	19879.8	8336.9	2969.9	1381.8	964.8	1102.3	905.2	758.5	717.3	703.5
55°	24614.3	21516.0	8774.6	2779.7	1223.7	880.0	994.6	877.7	715.0	678.3	669.2
57.5°	25739.5	22712.2	9054.2	2516.2	1026.6	818.1	857.1	834.1	671.4	632.5	632.5
60°	25796.8	23033.1	8921.3	2183.9	902.9	760.8	744.8	841.0	632.5	591.2	586.7
62.5°	25136.8	22247.0	8229.2	1886.0	836.4	698.9	673.7	737.9	593.5	552.3	545.4
65°	24105.5	20241.9	7028.4	1743.9	799.8	643.9	607.3	605.0	552.3	513.3	504.2
67.5°	22210.4	17689.0	5774.9	1661.4	781.4	582.1	547.7	536.2	504.2	472.1	467.5
70°	19416.9	14815.3	4631.4	1627.1	772.3	517.9	490.4	476.7	449.2	423.9	421.7
72.5°	15106.4	12017.3	3822.4	1604.1	767.7	458.3	428.5	410.2	394.2	371.2	371.2
75°	10850.8	8841.1	2917.2	1446.0	710.4	394.2	362.1	350.6	327.7	309.4	314.0
77.5°	6840.5	5953.6	1920.4	1063.3	550.0	316.2	288.7	281.9	263.5	238.3	254.4
80°	4619.9	4186.8	1120.6	669.2	346.0	231.5	222.3	220.0	199.4	171.9	174.2
82.5°	3144.1	3084.5	582.1	380.4	199.4	135.2	130.6	135.2	112.3	91.7	91.7
85°	1228.3	1677.5	275.0	149.0	64.2	20.6	29.8	32.1	18.3	9.2	11.5
87.5°	22.9	171.9	6.9	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°	11164.8	11164.8	11164.8	11164.8	11164.8	11164.8	11164.8	11164.8	11164.8	11164.8	11164.8
2.5°	9308.6	9287.9	9322.3	9175.6	9205.4	9260.4	9287.9	9304.0	9530.8	9478.1	9622.5
5°	7262.1	7241.5	7374.4	7392.8	7461.5	7447.8	7514.2	7530.3	7612.8	7642.6	7844.2
7.5°	5282.2	5371.6	5522.8	5600.7	5717.6	5754.3	5719.9	5804.7	5632.8	5756.5	5793.2
10°	4244.1	4136.4	4072.2	4251.0	4273.9	4443.5	4374.7	4319.7	4420.5	4425.1	4521.4
12.5°	3533.7	3302.2	3148.7	3199.1	3254.1	3327.4	3338.9	3448.9	3522.2	3591.0	3648.3
15°	2770.6	2690.4	2550.6	2481.8	2559.7	2589.5	2660.6	2752.2	2830.2	2850.8	2928.7
17.5°	2126.6	2140.4	2117.5	2076.2	2124.3	2147.2	2151.8	2154.1	2174.7	2161.0	2275.6
20°	1711.8	1760.0	1817.3	1826.4	1842.5	1853.9	1833.3	1755.4	1757.7	1805.8	1842.5
22.5°	1549.1	1558.3	1622.5	1643.1	1693.5	1672.9	1613.3	1576.6	1572.1	1583.5	1601.8
25°	1420.8	1434.6	1480.4	1512.5	1551.4	1514.8	1471.2	1436.8	1432.3	1443.7	1462.1
27.5°	1306.2	1326.8	1368.1	1400.2	1436.8	1402.5	1361.2	1331.4	1329.1	1326.8	1338.3
30°	1214.6	1237.5	1267.3	1303.9	1329.1	1299.3	1260.4	1244.3	1242.1	1237.5	1242.1
32.5°	1122.9	1159.6	1189.4	1207.7	1232.9	1210.0	1180.2	1171.0	1155.0	1141.2	1134.4
35°	1019.8	1058.7	1104.6	1127.5	1152.7	1129.8	1109.1	1070.2	1042.7	1040.4	1045.0
37.5°	960.2	976.2	1012.9	1051.9	1077.1	1065.6	1026.6	987.7	980.8	980.8	985.4
40°	907.5	914.4	930.4	980.8	1026.6	992.3	944.1	932.7	932.7	930.4	932.7
42.5°	854.8	861.6	861.6	900.6	973.9	918.9	882.3	882.3	882.3	884.6	891.4
45°	806.7	808.9	806.7	834.1	902.9	857.1	831.9	838.7	843.3	847.9	852.5
47.5°	765.4	767.7	765.4	788.3	822.7	804.4	790.6	799.8	808.9	815.8	820.4
50°	728.7	726.4	731.0	744.8	760.8	765.4	756.2	770.0	774.6	783.7	795.2
52.5°	696.7	694.4	698.9	705.8	728.7	728.7	728.7	740.2	749.4	758.5	774.6
55°	660.0	662.3	669.2	678.3	708.1	703.5	705.8	715.0	724.2	737.9	747.1
57.5°	625.6	630.2	639.4	653.1	682.9	680.6	682.9	687.5	698.9	705.8	715.0
60°	586.7	595.8	607.3	616.4	646.2	643.9	655.4	664.6	671.4	671.4	676.0
62.5°	547.7	561.4	572.9	579.8	611.9	614.2	630.2	637.1	641.7	637.1	643.9
65°	508.7	529.4	533.9	543.1	575.2	577.5	595.8	611.9	607.3	602.7	614.2
67.5°	469.8	495.0	492.7	504.2	536.2	540.8	556.9	584.4	575.2	570.6	579.8
70°	426.2	444.6	446.9	453.7	497.3	490.4	515.6	540.8	533.9	536.2	536.2
72.5°	378.1	394.2	394.2	407.9	453.7	442.3	462.9	490.4	490.4	488.1	488.1
75°	320.8	330.0	339.2	359.8	407.9	394.2	407.9	433.1	437.7	433.1	433.1
77.5°	259.0	272.7	277.3	304.8	339.2	336.9	350.6	362.1	371.2	366.7	366.7
80°	183.3	197.1	215.4	245.2	265.8	272.7	279.6	288.7	293.3	293.3	297.9
82.5°	103.1	123.7	139.8	169.6	178.7	213.1	210.8	217.7	210.8	185.6	206.2
85°	22.9	43.5	61.9	77.9	89.4	123.7	130.6	146.7	121.5	112.3	112.3
87.5°	0.0	0.0	0.0	0.0	0.0	18.3	36.7	50.4	43.5	36.7	36.7
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°	11164.8	11164.8	11164.8	11164.8	11164.8	11164.8	11164.8	11164.8	11164.8	11164.8
2.5°	9744.0	9943.3	10184.0	10598.7	10889.8	11203.7	11520.0	11856.8	11946.2	12037.9
5°	7899.2	8291.1	8504.2	9061.1	9645.4	10387.9	10995.2	11659.8	11937.0	12001.2
7.5°	5983.4	6249.2	6808.4	7372.1	8096.3	8875.4	9805.8	10841.7	11164.8	11300.0
10°	4743.7	5105.7	5596.1	6201.1	6835.9	7674.6	8724.2	9934.2	10392.5	10468.1
12.5°	4037.8	4441.2	4975.1	5614.5	6214.9	6847.4	7906.1	9155.0	9645.4	9808.1
15°	3228.9	3717.0	4333.5	5007.2	5660.3	6352.4	7424.8	8834.2	9400.2	9590.4
17.5°	2536.8	2931.0	3597.8	4328.9	5103.4	5978.8	7324.0	8987.7	9684.4	9860.8
20°	1941.0	2222.9	2784.3	3556.6	4464.1	5609.9	7349.2	9567.5	10401.7	10642.3
22.5°	1677.5	1821.8	2163.3	2898.9	3914.1	5289.1	7452.3	10362.7	11368.7	11769.8
25°	1519.3	1595.0	1787.5	2268.7	3389.3	4977.4	7688.4	11432.9	12720.8	12986.6
27.5°	1384.1	1439.1	1558.3	1904.3	2912.6	4688.7	7963.4	12620.0	13983.5	14379.9
30°	1255.8	1329.1	1441.4	1691.2	2607.9	4425.1	8309.4	13582.4	15046.8	15415.7
32.5°	1157.3	1230.6	1333.7	1542.3	2348.9	4147.8	8515.7	14428.0	15915.3	16229.3
35°	1077.1	1138.9	1246.6	1423.1	2151.8	3937.0	8474.4	15099.5	16756.3	17077.2
37.5°	1019.8	1072.5	1180.2	1310.8	2002.9	3717.0	8453.8	15986.3	17780.7	18151.9
40°	967.1	1022.1	1120.6	1237.5	1853.9	3458.1	8465.2	16866.3	18871.5	19242.7
42.5°	925.8	987.7	1067.9	1216.9	1700.4	3249.5	8465.2	17631.7	19820.2	20177.7
45°	891.4	957.9	1035.8	1214.6	1578.9	3091.4	8408.0	18289.4	20576.5	20881.2
47.5°	861.6	935.0	1047.3	1173.3	1549.1	2976.8	8357.5	18816.5	21192.9	21479.4
50°	841.0	928.1	1113.7	1125.2	1558.3	2942.4	8600.4	19481.1	21736.0	21983.5
52.5°	825.0	930.4	1111.4	1054.1	1542.3	2965.4	9106.9	20519.2	22490.0	22508.3
55°	792.9	928.1	1054.1	973.9	1475.8	3004.3	9757.7	22027.1	23670.1	23683.9
57.5°	760.8	902.9	978.5	905.2	1340.6	3004.3	10541.5	23454.7	25093.2	25104.7
60°	728.7	939.6	859.4	845.6	1164.1	2949.3	11368.7	24082.6	25540.1	25657.0
62.5°	696.7	946.4	767.7	792.9	1035.8	2816.4	11985.2	23388.3	24935.1	25102.4
65°	660.0	763.1	708.1	737.9	969.4	2594.1	11790.4	22116.4	23798.5	23997.8
67.5°	616.4	646.2	643.9	680.6	946.4	2266.4	10763.7	20507.7	22574.7	22563.3
70°	563.7	579.8	586.7	625.6	902.9	2012.0	8969.4	18420.0	20940.8	21197.5
72.5°	508.7	522.5	529.4	563.7	859.4	1867.7	6961.9	15544.1	18138.2	18539.2
75°	449.2	458.3	467.5	497.3	813.5	1654.5	4959.1	11866.0	13891.8	14522.0
77.5°	387.3	387.3	398.7	428.5	685.2	1365.8	3327.4	8323.2	9411.7	10055.6
80°	314.0	316.2	311.7	343.7	504.2	935.0	1890.6	5559.5	6263.0	6386.7
82.5°	240.6	233.7	236.0	252.1	375.8	637.1	1008.3	3453.5	3519.9	3451.2
85°	151.2	151.2	146.7	165.0	240.6	332.3	550.0	2115.2	1652.3	1572.1
87.5°	61.9	50.4	57.3	66.5	114.6	135.2	215.4	435.4	167.3	153.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)