

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: P651301

Luminaire Tested: **GALN-SA3D-840-U-SLR**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P651301  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-22)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA3D-840-U-SLR  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 80 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT  
ELIMINATOR RIGHT OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 16741 lumens  
Efficiency: N/A  
Efficacy: 91.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G3

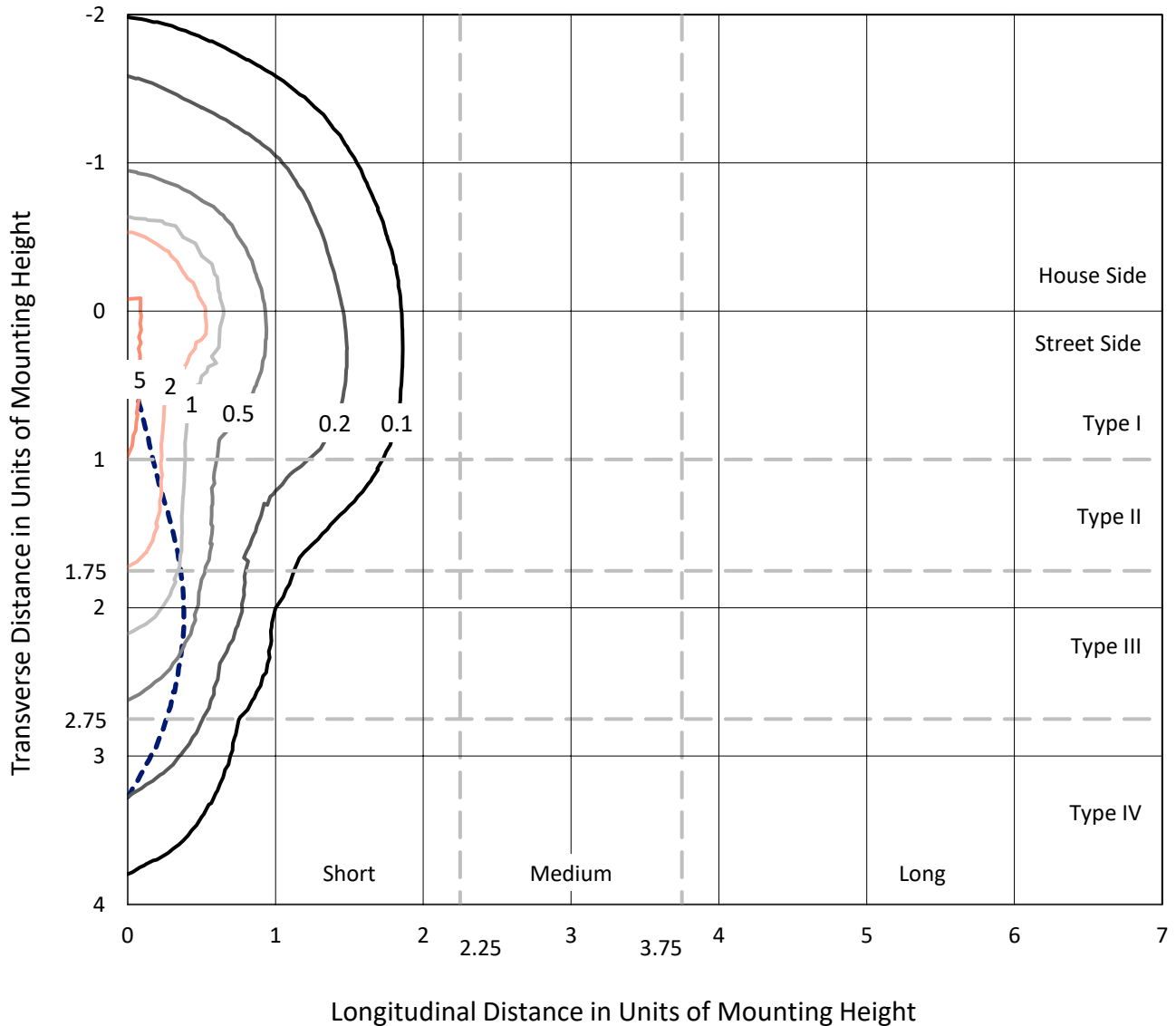
Input Watts (W): 184  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

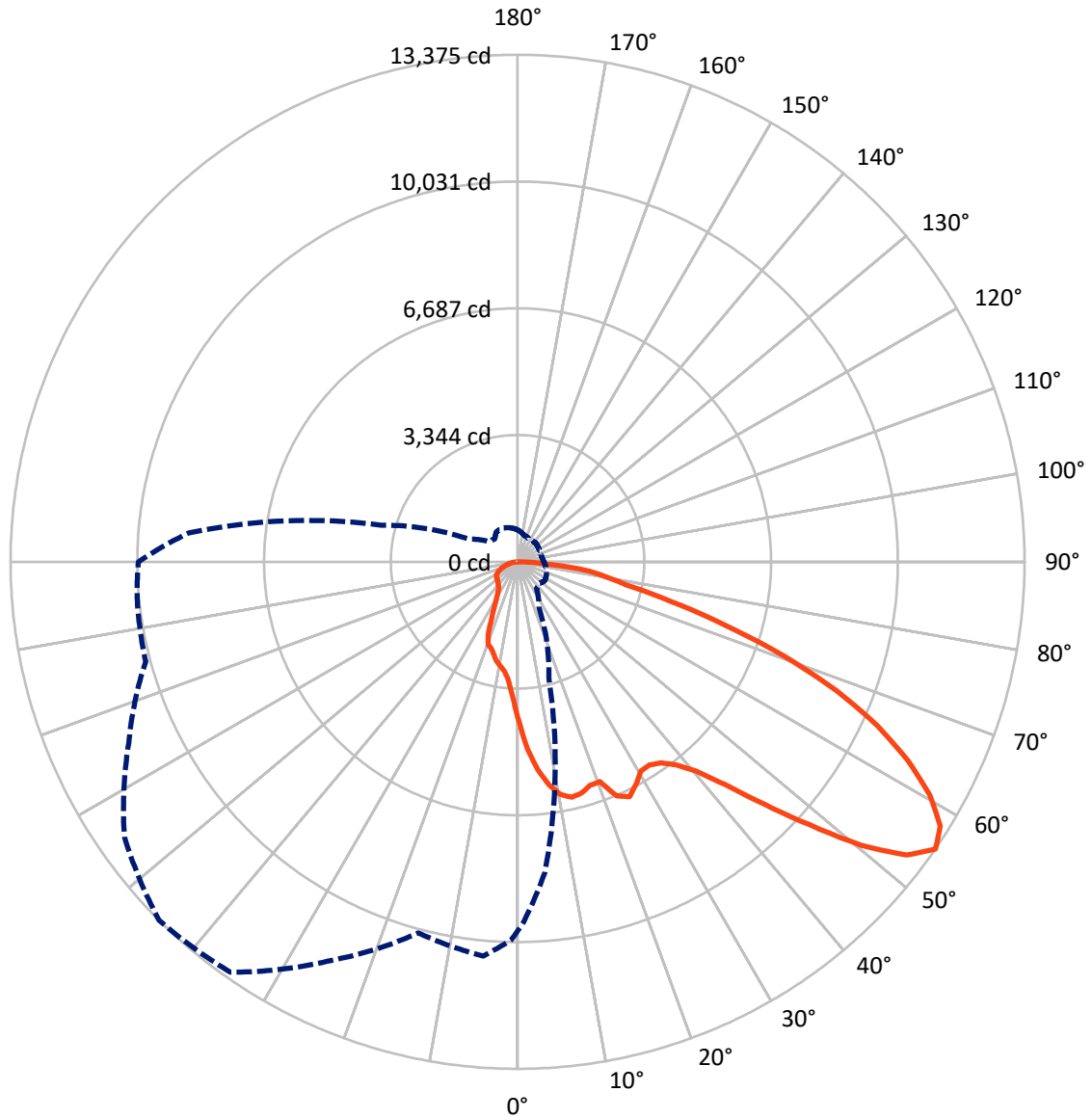
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.2 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 315-Deg Lateral      - - - Horizontal Cone Through 55-Deg Vertical

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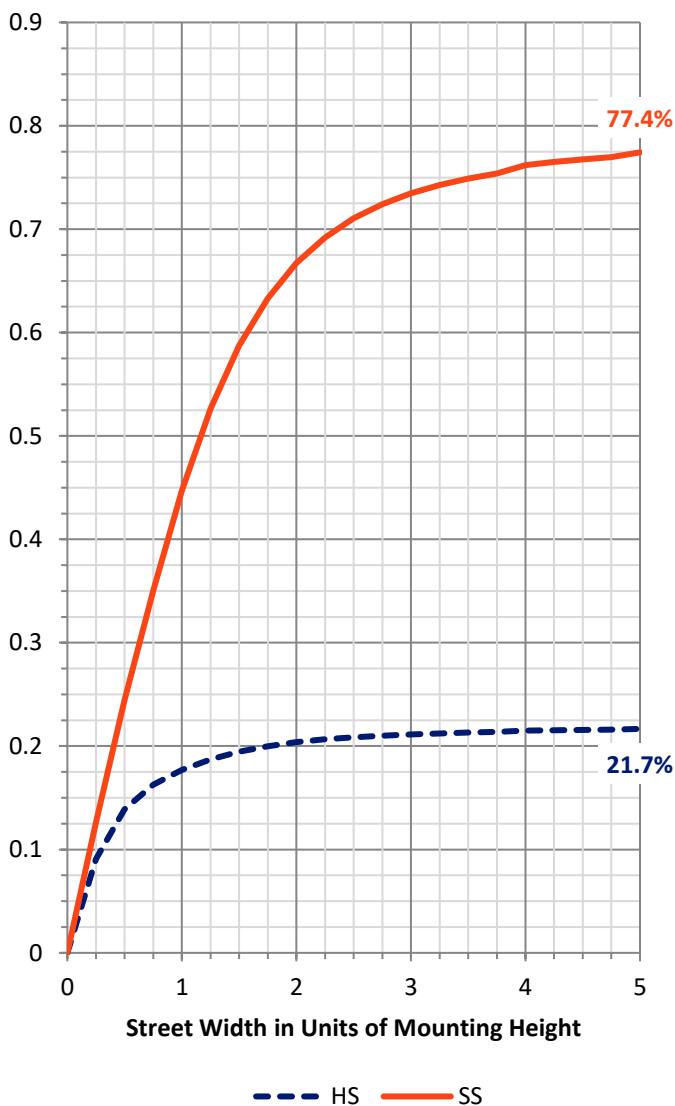
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3662.0	0.0	3662.0
	% Fixture	21.9	0.0	21.9
<b>Street Side</b>	Lumens	13078.9	0.0	13078.9
	% Fixture	78.1	0.0	78.1
<b>Total</b>	Lumens	16741.0	0.0	16741.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	356.1	2.1
10°-20°	944.7	5.6
20°-30°	1632.0	9.7
30°-40°	1896.6	11.3
40°-50°	2646.1	15.8
50°-60°	3590.5	21.4
60°-70°	3416.0	20.4
70°-80°	1845.4	11.0
80°-90°	413.6	2.5
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°	16741.0	100.0
0°-180°	16741.0	100.0

**Coefficient of Utilization**

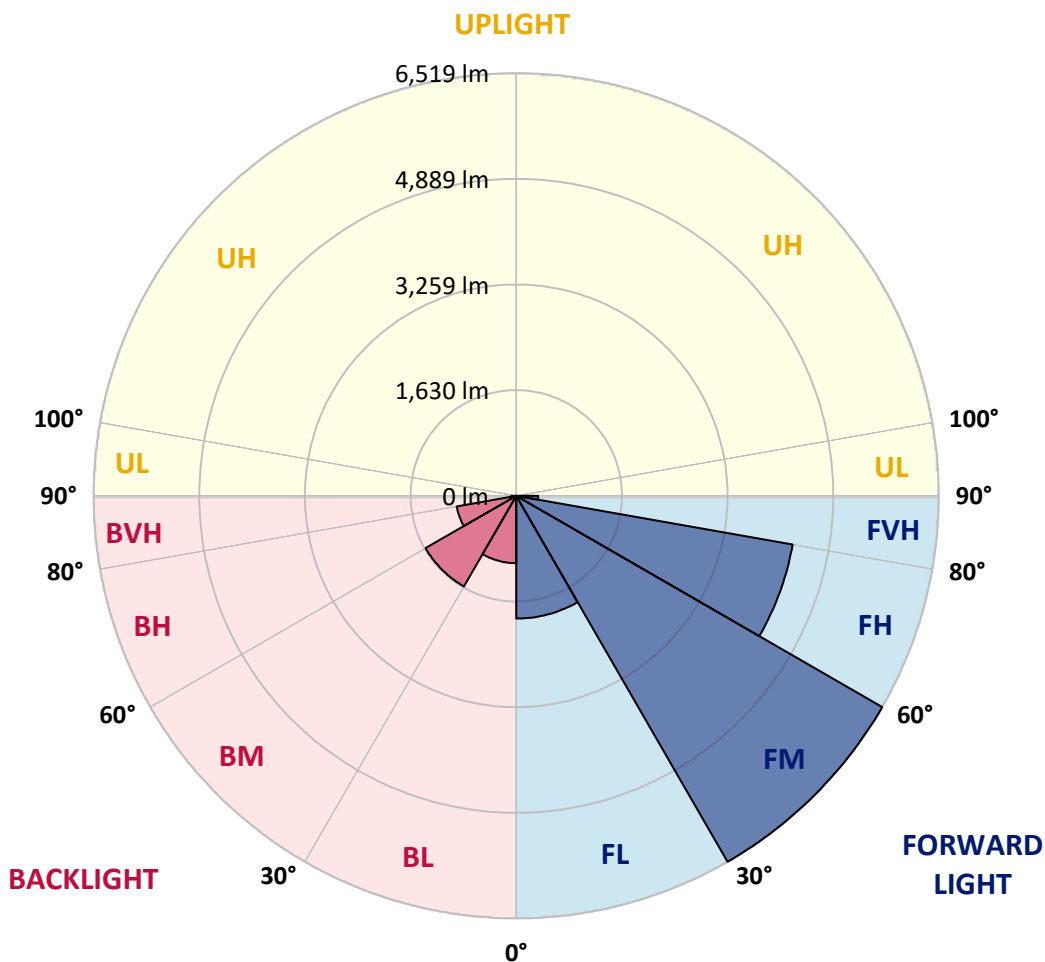


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1893.4	11.3			
FM (30°-60°)	6518.6	38.9			
FH (60°-80°)	4328.9	25.9			G2/5000
FVH (80°-90°)	338.0	2.0			G3/500
BL (0°-30°)	1039.3	6.2	B3/2500		
BM (30°-60°)	1614.7	9.6	B2/2500		
BH (60°-80°)	932.4	5.6	B2/1000		G2/1000
BVH (80°-90°)	75.6	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G3**  
 Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	4201.3	4201.3	4201.3	4201.3	4201.3	4201.3	4201.3	4201.3	4201.3	4201.3	4201.3
2.5°	4667.4	4649.7	4600.0	4469.7	4338.3	4204.7	4101.9	3973.8	3840.2	3768.4	3676.7
5°	4731.5	4711.6	4594.5	4300.7	4034.5	3755.1	3532.0	3336.5	3257.0	3140.0	3046.1
7.5°	4581.3	4572.4	4396.8	3974.9	3610.4	3244.8	2991.9	2835.1	2692.6	2639.6	2650.7
10°	4444.3	4408.9	4189.2	3638.1	3212.9	2915.7	2734.6	2581.1	2480.6	2454.1	2459.6
12.5°	4330.6	4283.0	4023.5	3411.6	3039.5	2802.0	2571.2	2411.0	2319.3	2344.7	2430.9
15°	4307.3	4243.3	3954.0	3334.3	2944.4	2638.6	2385.6	2201.1	2132.7	2187.9	2326.0
17.5°	4457.6	4376.9	4073.2	3359.7	2853.9	2471.8	2161.4	1950.4	1893.0	1981.4	2161.4
20°	4940.2	4820.9	4445.4	3506.6	2845.0	2388.9	2031.1	1819.0	1843.3	2011.2	2199.0
22.5°	5832.6	5653.7	5097.0	3720.9	2891.4	2367.9	2004.6	1894.1	2027.7	2170.2	2293.9
25°	6009.3	5869.0	5214.1	3769.4	2881.5	2353.5	2079.7	2134.9	2284.0	2354.7	2311.6
27.5°	6108.7	5948.6	5206.4	3528.8	2576.7	2134.9	1988.0	2079.7	2117.2	2048.8	1931.7
30°	6340.6	6173.9	5337.8	3275.8	2121.7	1583.8	1388.3	1350.7	1376.1	1389.4	1347.5
32.5°	6659.8	6495.3	5585.2	3110.1	1834.5	1309.9	1117.7	1064.7	1052.5	1038.2	1021.6
35°	7072.9	6820.0	5828.2	3004.1	1716.3	1211.5	1034.9	994.0	977.4	957.6	939.9
37.5°	7492.6	7227.6	6135.2	2892.5	1637.9	1143.1	979.7	960.8	932.2	911.1	885.7
40°	7938.8	7641.7	6414.6	2795.4	1561.7	1098.9	939.9	937.7	900.1	875.8	846.0
42.5°	8325.3	8019.4	6664.3	2735.7	1503.1	1052.5	915.6	922.2	883.6	847.1	808.5
45°	8632.4	8332.0	6895.1	2735.7	1455.7	1006.2	911.1	906.8	868.1	822.8	778.6
47.5°	8901.8	8591.5	7120.4	2805.3	1425.8	967.5	886.8	894.6	854.9	797.4	754.4
50°	9110.6	8836.7	7424.1	2913.6	1396.1	936.5	856.0	897.9	843.8	784.1	734.4
52.5°	9376.7	9131.6	7789.7	3061.5	1370.7	902.3	828.3	897.9	842.7	785.2	731.2
55°	9745.7	9487.2	8230.4	3184.1	1329.8	870.3	804.1	872.5	839.4	779.8	722.3
57.5°	10004.1	9810.9	8541.8	3265.9	1271.3	829.5	782.0	848.2	825.0	758.8	695.8
58°	10016.2	9827.4	8587.1	3284.6	1256.9	821.7	776.4	837.1	818.4	749.9	686.9
60°	9877.1	9714.7	8595.9	3258.1	1175.1	783.1	747.7	791.9	783.1	698.0	639.5
62.5°	9371.3	9197.8	8239.2	3042.7	1066.9	735.5	703.5	731.2	711.2	625.1	571.0
65°	8652.3	8333.0	7505.8	2704.8	989.6	684.7	643.9	646.1	625.1	563.3	515.8
67.5°	7694.7	7338.0	6355.0	2279.6	931.1	628.4	573.2	567.7	542.3	502.5	463.9
70°	6516.2	6272.2	5164.4	1854.4	865.9	566.6	493.7	490.4	474.9	445.1	410.8
72.5°	5281.5	4971.2	4170.4	1484.4	786.3	507.0	419.7	426.3	406.5	385.4	354.6
75°	3897.6	3694.3	3223.9	1190.6	679.3	441.8	350.1	352.3	343.5	321.4	297.1
77.5°	2566.7	2506.0	2306.1	782.0	522.4	351.2	286.0	288.3	281.7	261.7	236.3
80°	1727.3	1686.5	1562.8	503.6	349.0	254.0	220.9	223.1	222.0	201.0	166.8
82.5°	1064.7	1047.0	1007.3	340.2	241.9	182.2	145.7	152.4	164.6	141.4	113.8
85°	502.5	503.6	608.5	185.5	142.5	117.1	79.6	85.0	85.0	85.0	64.1
87.5°	65.2	68.5	83.9	78.4	51.9	44.2	28.7	24.3	21.0	27.6	19.8
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°	4201.3	4201.3	4201.3	4201.3	4201.3	4201.3	4201.3	4201.3	4201.3	4201.3	4201.3
2.5°	3644.6	3622.6	3575.1	3564.1	3557.4	3576.2	3526.5	3539.8	3517.7	3579.5	3569.5
5°	3051.6	3053.8	3092.4	3117.8	3126.7	3117.8	3084.7	3027.3	2983.1	2965.5	2969.8
7.5°	2629.7	2668.3	2734.6	2808.6	2876.0	2895.9	2877.1	2767.7	2648.5	2573.4	2549.1
10°	2489.4	2541.3	2617.5	2676.1	2735.7	2783.2	2793.1	2708.1	2566.7	2388.9	2319.3
12.5°	2497.2	2567.8	2640.7	2659.5	2654.0	2672.8	2664.0	2649.6	2556.8	2330.4	2214.4
15°	2424.3	2508.2	2559.0	2549.1	2531.4	2514.8	2491.6	2455.2	2422.1	2263.0	2134.9
17.5°	2256.4	2342.5	2384.5	2387.9	2387.9	2383.4	2327.0	2313.8	2309.4	2232.1	2153.7
20°	2287.4	2334.8	2316.0	2285.1	2293.9	2323.8	2290.6	2284.0	2309.4	2343.6	2329.3
22.5°	2305.0	2288.4	2147.1	2010.1	1979.2	2072.0	2090.7	2164.7	2267.4	2391.1	2471.8
25°	2195.7	2062.0	1809.1	1654.5	1567.2	1653.3	1766.0	1902.9	2056.5	2215.5	2309.4
27.5°	1835.6	1734.0	1552.8	1413.7	1337.5	1350.7	1446.9	1571.7	1714.1	1821.3	1889.7
30°	1382.8	1337.5	1243.6	1196.2	1149.7	1138.7	1179.6	1227.0	1290.0	1303.2	1321.0
32.5°	1018.3	1011.6	1017.2	1001.7	992.9	991.8	979.7	990.7	997.3	1005.1	989.6
35°	921.1	912.3	896.8	892.4	886.8	889.1	883.6	878.0	882.5	889.1	893.5
37.5°	871.4	858.2	836.0	828.3	828.3	831.7	822.8	820.6	828.3	849.3	860.3
40°	832.8	817.3	791.9	782.0	788.6	797.4	785.2	780.9	799.6	821.7	839.4
42.5°	796.3	784.1	759.8	748.8	754.4	770.9	753.2	749.9	774.2	798.5	819.5
45°	765.4	753.2	731.2	725.6	727.8	743.3	731.2	731.2	754.4	780.9	799.6
47.5°	741.1	725.6	711.2	706.9	709.0	717.9	715.7	715.7	737.8	765.4	784.1
50°	716.8	703.5	684.7	686.9	692.5	704.7	703.5	706.9	728.9	763.2	783.1
52.5°	705.8	685.8	664.9	667.1	683.6	698.0	693.6	696.9	722.3	786.3	815.1
55°	693.6	667.1	642.8	646.1	664.9	685.8	680.4	684.7	714.6	801.8	841.6
57.5°	670.4	639.5	613.0	615.2	642.8	664.9	656.1	661.5	696.9	785.2	827.2
58°	660.4	633.9	608.5	609.6	636.1	660.4	650.5	655.0	691.4	780.9	820.6
60°	618.5	603.0	581.0	582.1	607.5	628.4	622.9	627.3	662.7	748.8	778.6
62.5°	561.0	552.2	546.7	546.7	562.1	582.1	587.6	593.1	625.1	677.0	703.5
65°	499.2	499.2	500.3	500.3	510.2	535.6	539.0	553.3	583.1	608.5	628.4
67.5°	457.3	455.1	457.3	451.7	456.2	471.6	488.2	501.4	532.4	550.0	556.7
70°	403.1	402.0	403.1	395.4	400.9	414.2	425.2	447.3	479.4	492.6	495.9
72.5°	350.1	350.1	352.3	346.8	346.8	361.1	368.9	393.2	423.0	430.8	431.9
75°	294.9	298.2	298.2	290.5	292.7	301.5	311.4	331.4	358.9	364.5	364.5
77.5°	234.1	246.3	246.3	238.6	241.9	243.0	256.3	266.2	287.1	289.4	280.6
80°	170.1	182.2	192.2	185.5	191.1	184.4	192.2	198.8	219.8	209.8	195.4
82.5°	121.5	130.4	138.1	139.2	133.6	121.5	131.4	132.5	142.5	129.3	121.5
85°	67.4	75.1	85.0	80.7	71.8	64.1	67.4	69.6	68.5	65.2	60.7
87.5°	17.7	18.8	21.0	15.5	14.4	12.1	16.6	16.6	18.8	19.8	18.8
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):**

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	4201.3	4201.3	4201.3	4201.3	4201.3	4201.3	4201.3	4201.3	4201.3	4201.3	4201.3
2.5°	3577.3	3625.9	3730.8	3810.3	3907.5	4025.7	4164.9	4305.2	4456.5	4504.0	4570.2
5°	2959.9	3081.4	3132.2	3276.9	3420.5	3635.8	3865.6	4131.7	4423.3	4563.6	4698.3
7.5°	2529.2	2594.3	2647.4	2753.3	2925.7	3187.5	3475.7	3808.1	4221.2	4425.5	4623.2
10°	2297.3	2303.9	2369.0	2500.5	2650.7	2881.5	3154.3	3526.5	3987.1	4235.5	4467.5
12.5°	2143.7	2115.0	2185.7	2322.7	2492.7	2705.9	2956.6	3311.1	3818.1	4073.2	4353.8
15°	2009.0	1963.7	2016.7	2157.0	2324.9	2575.6	2845.0	3220.6	3751.8	4048.9	4360.3
17.5°	2012.3	1887.5	1906.3	2024.5	2191.2	2446.4	2773.3	3217.2	3852.3	4194.7	4563.6
20°	2260.8	2060.9	1975.8	1998.0	2159.2	2437.6	2806.4	3371.9	4182.5	4681.8	5076.0
22.5°	2504.9	2384.5	2247.6	2202.2	2290.6	2582.2	3017.3	3737.5	4900.4	5652.5	6364.9
25°	2419.8	2522.6	2488.4	2424.3	2444.1	2686.0	3160.9	4037.9	5458.2	6305.3	6974.6
27.5°	1936.1	2122.8	2160.3	2159.2	2166.9	2365.7	2842.8	3835.7	5527.7	6430.1	7069.6
30°	1360.7	1377.2	1397.2	1435.8	1471.2	1648.9	2224.4	3367.4	5496.9	6486.5	7127.0
32.5°	981.9	1004.0	1031.6	1084.6	1168.5	1394.9	1946.1	3218.3	5660.3	6719.5	7294.9
35°	897.9	923.3	949.8	1010.5	1090.1	1299.9	1835.6	3156.5	5928.7	7097.2	7596.4
37.5°	871.4	900.1	923.3	967.5	1031.6	1231.5	1735.1	3114.6	6203.7	7497.0	8000.6
40°	852.6	885.7	904.6	939.9	984.1	1168.5	1645.7	3081.4	6469.9	7862.6	8325.3
42.5°	836.0	870.3	894.6	920.0	956.5	1112.1	1566.1	3048.3	6700.7	8217.1	8648.9
45°	816.2	859.2	890.2	910.0	942.1	1064.7	1505.4	3021.8	6963.6	8531.9	8975.8
47.5°	799.6	847.1	885.7	909.0	921.1	1031.6	1456.8	3058.2	7279.4	8861.0	9279.6
50°	800.7	846.0	894.6	931.1	899.0	1004.0	1426.9	3202.9	7690.3	9252.0	9519.3
52.5°	836.0	891.3	930.0	938.8	868.1	970.9	1411.5	3455.8	8176.2	9597.7	9761.2
55°	875.8	933.3	975.2	969.7	851.5	928.8	1408.2	3725.3	8708.6	10000.8	10075.9
57.5°	861.4	945.4	1009.5	980.8	852.6	888.0	1393.8	3942.9	9153.7	10302.3	10387.4
58°	857.1	941.0	1013.9	978.5	849.3	875.8	1390.5	3961.7	9215.5	10323.3	10431.5
60°	814.0	902.3	1010.5	961.9	830.6	842.7	1354.1	4022.4	9198.9	10215.0	10458.0
62.5°	735.5	808.5	934.4	881.4	773.1	798.5	1272.3	3947.3	8750.5	9693.8	10070.4
65°	647.2	701.3	785.2	775.3	691.4	753.2	1160.7	3650.2	7852.7	8847.7	9244.3
67.5°	581.0	625.1	678.1	663.8	621.8	692.5	1040.4	3147.7	6845.4	7831.6	8330.9
70°	513.6	547.8	574.3	564.4	551.1	632.9	933.3	2554.6	5880.1	6866.3	7350.1
72.5°	445.1	477.1	499.2	484.8	477.1	569.9	846.0	1982.5	4644.2	5664.7	6286.6
75°	372.2	404.3	419.7	403.1	398.7	502.5	716.8	1481.1	3484.5	4367.0	4903.8
77.5°	288.3	322.5	342.4	336.8	339.1	413.1	578.7	1013.9	2491.6	2976.5	3542.0
80°	202.1	239.7	252.9	247.4	262.9	314.8	408.6	643.9	1718.5	1931.7	2330.4
82.5°	124.8	160.1	162.3	167.9	178.9	233.0	308.1	392.1	1079.1	1115.5	1404.9
85°	63.0	76.2	81.7	90.6	100.5	142.5	175.6	243.0	694.7	525.7	785.2
87.5°	21.0	22.1	26.5	33.1	40.9	58.5	75.1	99.4	172.3	94.9	243.0
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):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	4201.3	4201.3	4201.3	4201.3	4201.3	4201.3	4201.3	4201.3	4201.3	4201.3
2.5°	4703.9	4797.7	4866.2	4929.2	4868.4	4862.9	4803.3	4707.2	4667.4	4667.4
5°	4981.1	5200.8	5378.7	5492.4	5443.8	5326.7	5133.5	4887.2	4754.7	4731.5
7.5°	5057.3	5491.3	5821.6	5938.6	5856.9	5598.5	5228.5	4813.2	4623.2	4581.3
10°	5010.8	5575.2	6060.1	6245.7	6131.9	5740.9	5236.2	4727.0	4492.9	4444.3
12.5°	4962.3	5586.3	6104.3	6372.7	6298.7	5855.8	5292.5	4670.7	4400.1	4330.6
15°	4997.6	5590.7	6050.2	6327.3	6374.9	5993.8	5385.3	4711.6	4381.4	4307.3
17.5°	5220.8	5674.6	5972.9	6197.1	6363.8	6181.6	5649.2	4907.1	4549.2	4457.6
20°	5686.8	5875.6	6017.0	6190.4	6458.8	6564.8	6189.3	5443.8	5020.9	4940.2
22.5°	7036.5	7002.2	6712.9	6709.5	7098.3	7523.5	7498.1	6535.0	5898.9	5832.6
25°	7542.3	7383.2	6964.7	6863.1	7034.2	7690.3	7595.3	6758.1	6170.6	6009.3
27.5°	7344.6	6950.3	6675.3	6652.1	6595.8	7215.4	7444.0	6848.7	6265.5	6108.7
30°	7332.4	6752.6	6359.4	6405.8	6459.9	7051.9	7528.0	7132.5	6508.5	6340.6
32.5°	7362.3	6780.2	6382.6	6391.4	6552.7	7076.2	7620.7	7441.8	6827.7	6659.8
35°	7482.6	6937.1	6530.6	6509.6	6761.5	7235.2	7778.7	7927.8	7264.0	7072.9
37.5°	7677.0	7249.6	6801.2	6795.7	7161.3	7522.4	7975.2	8418.1	7698.0	7492.6
40°	7963.1	7615.2	7282.7	7253.0	7704.7	7989.6	8230.4	8940.5	8202.8	7938.8
42.5°	8308.7	8053.7	7917.8	8036.0	8470.0	8514.2	8628.0	9423.2	8632.4	8325.3
45°	8629.1	8616.9	8805.8	9119.5	9372.4	9107.3	9043.2	9746.8	8965.9	8632.4
47.5°	9010.1	9339.2	9909.1	10368.6	10633.6	9797.6	9397.8	9957.7	9208.9	8901.8
50°	9396.7	10204.0	11114.1	11754.7	11811.0	10547.5	9641.8	10156.5	9429.8	9110.6
52.5°	9803.1	10894.3	12105.9	12850.2	12740.9	11200.2	9878.2	10291.2	9657.3	9376.7
55°	10156.5	11317.3	12660.3	13374.8	13214.7	11597.8	10133.3	10437.1	9982.0	9745.7
57.5°	10354.2	11352.7	12522.2	13146.3	12972.8	11520.5	10250.4	10545.3	10189.6	10004.1
58°	10382.9	11305.1	12399.6	13013.7	12837.0	11455.3	10249.3	10540.8	10202.9	10016.2
60°	10357.5	10997.0	11943.5	12490.2	12304.7	11046.7	10207.3	10458.0	10035.1	9877.1
62.5°	10122.3	10462.5	11156.0	11553.7	11500.6	10408.3	10035.1	10145.5	9523.7	9371.3
65°	9813.0	9733.5	10147.7	10429.3	10469.1	9930.1	9863.8	9469.6	8867.6	8652.3
67.5°	9437.5	8907.4	8906.3	9066.4	9132.7	9194.6	9507.1	8735.0	7922.2	7694.7
70°	8800.2	7633.9	7282.7	7471.6	7416.4	7938.8	8869.9	7703.6	6782.4	6516.2
72.5°	7631.7	6057.9	5495.8	5738.7	5599.5	6225.8	7761.0	6339.5	5608.4	5281.5
75°	6186.1	4531.6	3951.7	4174.8	4088.7	4722.6	6457.7	4604.5	4022.4	3897.6
77.5°	4803.3	3283.5	2946.7	2915.7	2979.8	3514.4	4737.0	3109.0	2651.8	2566.7
80°	3085.8	2350.3	2370.1	2330.4	2363.5	2215.5	2876.0	1983.6	1795.9	1727.3
82.5°	2031.1	1637.9	1952.6	1802.4	1711.9	1489.9	1886.4	1298.8	1102.2	1064.7
85°	1383.9	1206.1	1097.8	839.4	988.5	1147.5	1414.8	699.1	554.5	502.5
87.5°	625.1	419.7	308.1	190.0	300.4	346.8	686.9	81.7	63.0	65.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)