

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: P527380

Luminaire Tested: **GALN-SA2B-827-U-SLR-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P527380  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-26)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA2B-827-U-SLR-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 80 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT  
ELIMINATOR RIGHT OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6265 lumens  
Efficiency: N/A  
Efficacy: 76.4 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G1

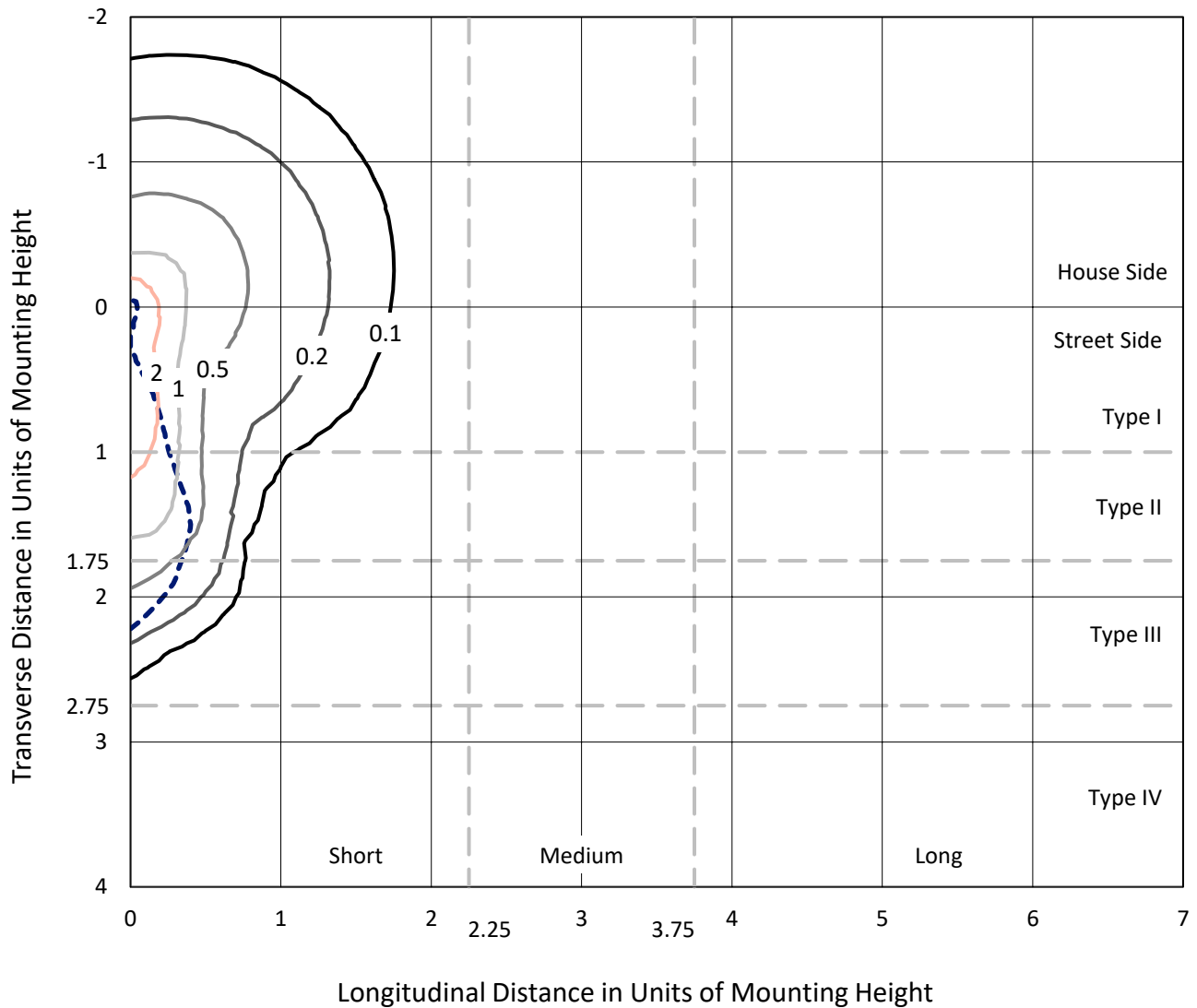
Input Watts (W): 82  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

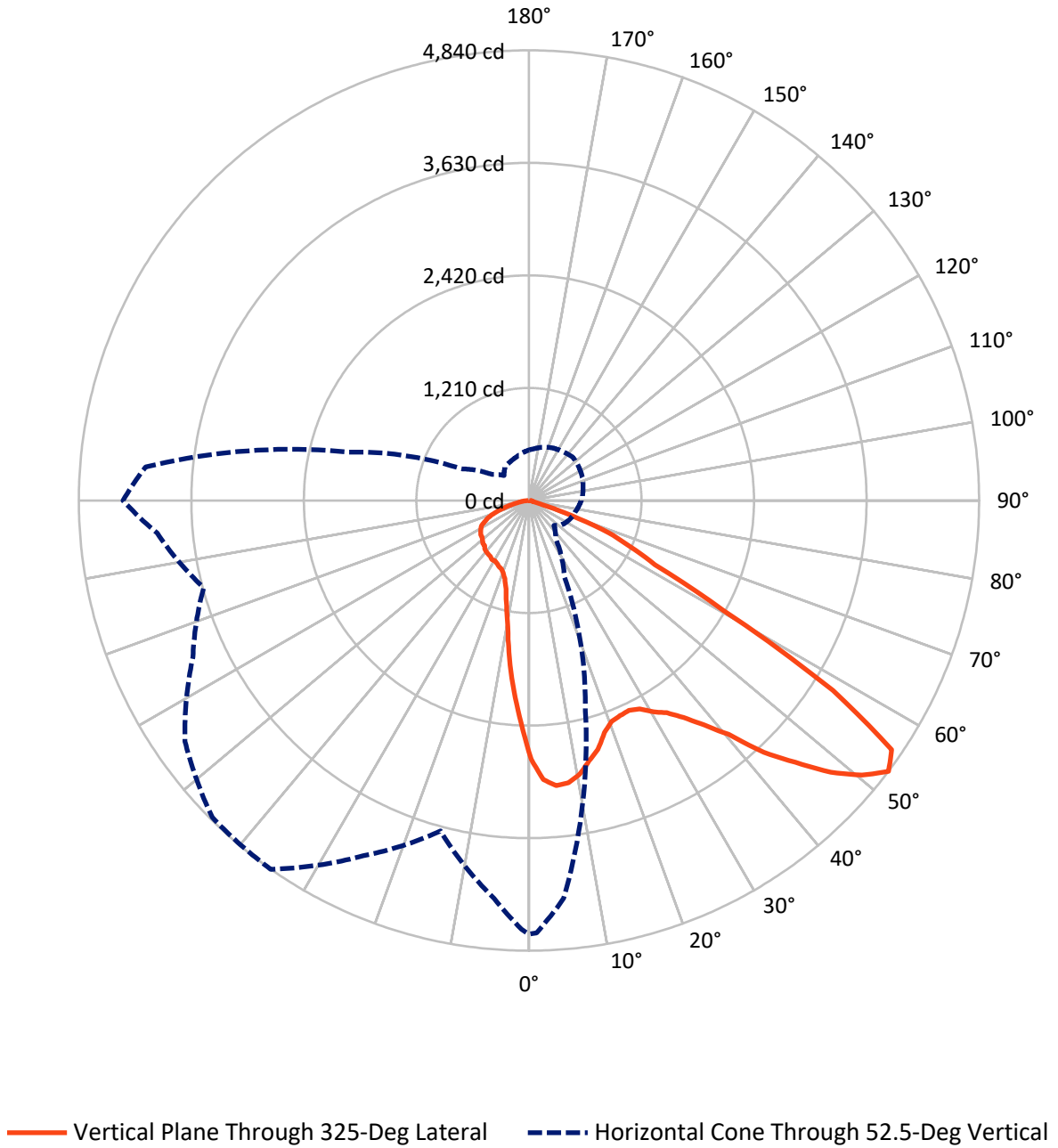
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.4 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



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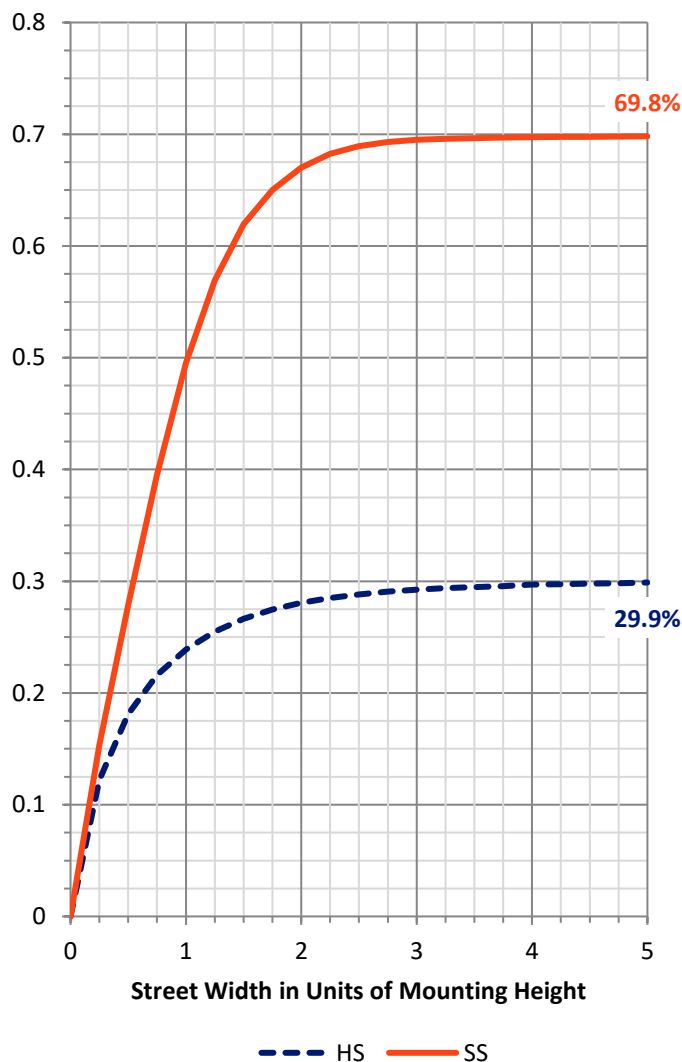
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1888.6	0.0	1888.6
	% Fixture	30.1	0.0	30.1
<b>Street Side</b>	Lumens	4376.4	0.0	4376.4
	% Fixture	69.9	0.0	69.9
<b>Total</b>	Lumens	6265.0	0.0	6265.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	212.1	3.4
10°-20°	459.9	7.3
20°-30°	694.8	11.1
30°-40°	1004.0	16.0
40°-50°	1336.2	21.3
50°-60°	1494.5	23.9
60°-70°	842.3	13.4
70°-80°	187.8	3.0
80°-90°	33.4	0.5
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°	6265.0	100.0
0°-180°	6265.0	100.0

**Coefficient of Utilization**



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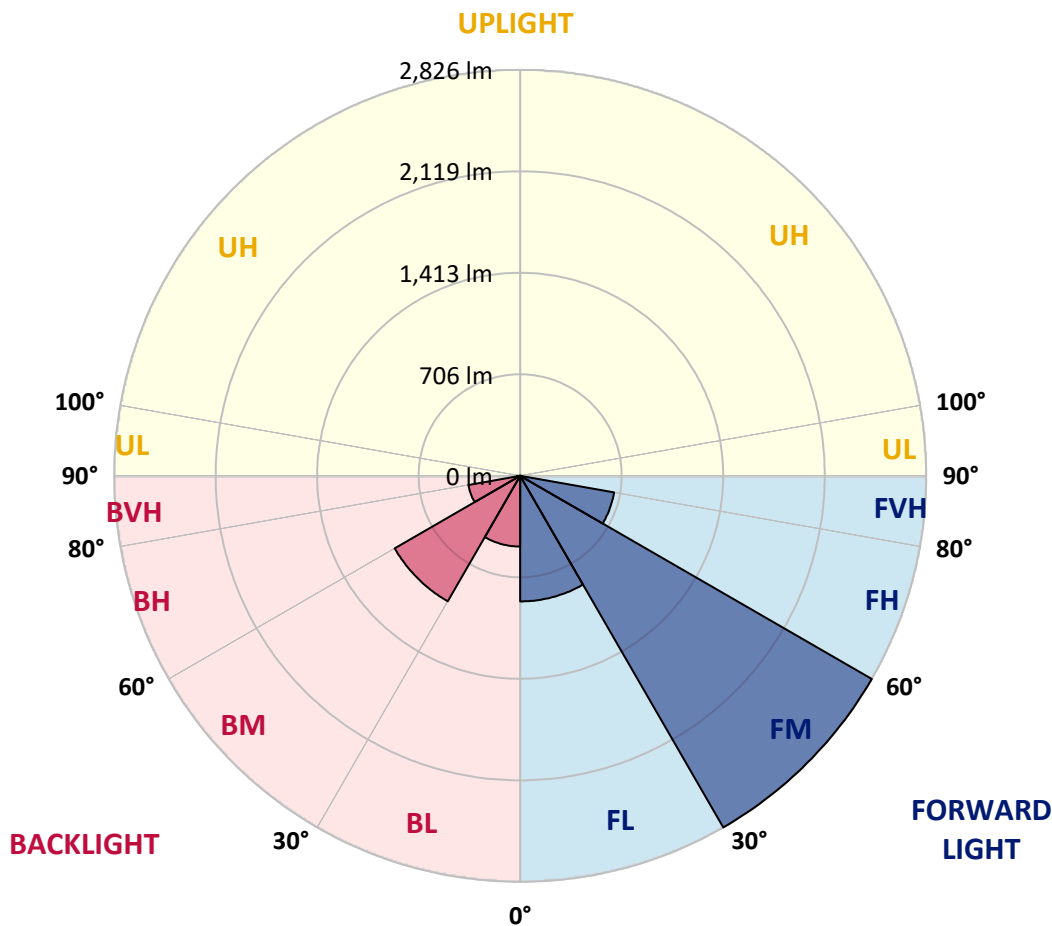
CATALOG NUMBER: GALN-SA2B-827-U-SLR-GRSWH

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	874.3	14.0			
FM (30°-60°)	2826.0	45.1			
FH (60°-80°)	664.0	10.6			G1/1800
FVH (80°-90°)	12.1	0.2			G1/100
BL (0°-30°)	492.5	7.9	B1/500		
BM (30°-60°)	1008.7	16.1	B2/2500		
BH (60°-80°)	366.1	5.8	B1/500		G1/500
BVH (80°-90°)	21.3	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G1**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	2780.4	2780.4	2780.4	2780.4	2780.4	2780.4	2780.4	2780.4	2780.4	2780.4	2780.4
2.5°	2826.8	2872.2	2823.1	2736.0	2674.2	2617.9	2558.9	2547.1	2469.9	2456.3	2400.0
5°	2666.0	2656.0	2596.1	2481.7	2355.5	2241.1	2156.6	2074.9	2019.5	1955.0	1950.5
7.5°	2470.8	2412.7	2378.2	2204.7	2048.6	1868.8	1791.6	1667.2	1628.1	1570.0	1540.1
10°	2296.5	2253.8	2173.0	1999.5	1781.6	1662.6	1580.0	1512.8	1467.4	1407.5	1332.1
12.5°	2210.2	2192.9	2102.1	1833.4	1671.7	1544.6	1486.5	1421.1	1343.9	1247.7	1210.4
15°	2225.6	2167.5	2098.5	1801.6	1578.2	1455.6	1363.0	1281.3	1182.3	1090.6	1037.0
17.5°	2340.9	2296.5	2158.4	1821.5	1542.8	1365.7	1197.7	1076.9	988.0	905.3	868.1
20°	2568.0	2503.5	2348.2	1847.0	1466.5	1240.4	1047.9	899.0	803.6	760.0	747.3
22.5°	2819.5	2781.4	2533.5	1904.2	1405.7	1124.2	889.0	740.1	704.6	692.8	716.5
25°	3125.5	3026.5	2821.3	1997.7	1358.4	1025.2	754.6	672.0	653.8	665.6	692.8
27.5°	3358.0	3331.6	3022.9	2085.8	1294.0	906.2	679.2	624.7	630.2	642.0	667.4
30°	3634.0	3500.5	3218.1	2146.6	1235.9	824.5	626.6	612.0	617.5	637.5	650.2
32.5°	3800.2	3750.2	3340.7	2238.3	1168.7	753.7	585.7	572.1	580.2	610.2	640.2
35°	4011.8	3912.8	3492.4	2261.9	1121.4	725.5	556.6	546.6	565.7	586.6	620.2
37.5°	4258.7	4190.6	3702.1	2245.6	1096.0	696.5	532.1	527.6	541.2	570.3	609.3
40°	4404.9	4384.1	3812.0	2255.6	1056.1	671.0	504.0	509.4	537.6	560.3	598.4
42.5°	4545.7	4409.5	3974.5	2252.0	1030.6	636.5	506.7	500.3	522.1	548.5	584.8
45°	4576.6	4441.3	4012.7	2226.5	999.8	602.9	485.8	488.5	514.9	547.6	571.2
47.5°	4556.6	4456.7	4083.5	2219.3	970.7	579.3	454.9	487.6	503.1	529.4	563.0
50°	4543.0	4537.5	4143.4	2253.8	931.7	542.1	417.7	475.8	491.3	517.6	553.9
52.5°	4662.8	4651.0	4293.3	2344.6	900.8	502.2	379.6	445.9	483.1	508.5	543.9
55°	4735.5	4683.7	4550.2	2456.3	849.0	449.5	353.2	408.6	463.1	485.8	522.1
57.5°	4259.7	4224.2	4116.2	2292.8	761.9	380.5	320.5	370.5	435.9	471.3	508.5
60°	3544.1	3488.7	3211.8	1948.7	562.1	296.0	300.6	340.5	428.6	442.2	485.8
62.5°	3341.6	3204.5	2827.7	1568.2	431.3	254.3	269.7	313.3	390.5	413.2	456.7
65°	2651.5	2549.8	2023.1	1132.3	288.8	220.7	246.1	282.4	336.9	381.4	421.3
67.5°	1659.9	1562.8	1079.7	535.7	201.6	188.9	219.7	257.9	302.4	342.3	386.8
70°	867.2	760.9	498.5	193.4	138.9	154.4	183.4	219.7	263.3	296.0	330.5
72.5°	323.3	262.4	162.5	83.5	96.3	118.0	148.9	175.3	206.1	246.1	265.2
75°	49.9	42.7	41.8	50.9	65.4	85.4	106.2	132.6	159.8	185.2	198.0
77.5°	23.6	22.7	25.4	33.6	43.6	60.8	77.2	102.6	124.4	140.7	148.0
80°	15.4	14.5	16.3	22.7	32.7	45.4	61.7	79.0	99.0	112.6	110.8
82.5°	9.1	10.0	10.0	15.4	22.7	32.7	44.5	59.9	73.6	85.4	78.1
85°	5.4	4.5	4.5	9.1	15.4	26.3	37.2	25.4	26.3	26.3	30.0
87.5°	1.8	1.8	1.8	0.9	1.8	1.8	2.7	4.5	5.4	6.4	8.2
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):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2780.4	2780.4	2780.4	2780.4	2780.4	2780.4	2780.4	2780.4	2780.4	2780.4	2780.4
2.5°	2398.2	2426.3	2416.3	2380.9	2408.1	2412.7	2394.5	2457.2	2469.0	2449.9	2455.4
5°	1944.1	1951.4	1967.7	2002.2	2026.8	2055.8	2055.8	2057.6	2033.1	2094.9	2076.7
7.5°	1514.6	1519.2	1538.2	1611.8	1632.7	1688.1	1711.7	1695.3	1646.3	1625.4	1642.7
10°	1307.6	1281.3	1274.9	1284.0	1331.2	1354.8	1374.8	1369.3	1361.2	1344.8	1326.7
12.5°	1169.6	1150.5	1135.1	1113.3	1116.0	1138.7	1154.1	1141.4	1145.0	1148.7	1154.1
15°	1019.7	1006.1	997.9	965.3	961.6	977.1	982.5	989.8	1003.4	1004.3	997.9
17.5°	860.8	849.0	867.2	885.3	872.6	873.5	883.5	889.9	886.3	869.9	861.7
20°	751.9	764.6	782.7	800.0	813.6	821.8	825.4	815.4	803.6	770.0	769.1
22.5°	720.1	736.4	751.9	778.2	790.9	811.8	792.7	770.0	753.7	737.3	718.3
25°	696.5	710.1	741.0	751.0	775.5	792.7	779.1	756.4	728.3	704.6	690.1
27.5°	679.2	694.7	714.6	741.9	760.9	770.9	757.3	748.2	719.2	691.0	670.1
30°	668.3	684.7	721.0	743.7	760.0	768.2	744.6	733.7	712.8	689.2	671.0
32.5°	661.1	675.6	706.5	735.5	746.4	746.4	750.0	737.3	708.3	668.3	652.9
35°	637.5	657.4	682.9	716.5	736.4	748.2	730.1	715.5	696.5	655.6	627.5
37.5°	623.8	637.5	670.1	701.9	719.2	731.9	724.6	699.2	673.8	640.2	617.5
40°	609.3	631.1	660.2	690.1	709.2	721.9	716.5	686.5	655.6	623.8	608.4
42.5°	599.3	613.8	643.8	677.4	700.1	724.6	708.3	671.0	649.3	605.7	588.4
45°	591.1	614.7	646.5	660.2	683.8	709.2	680.1	657.4	632.0	600.2	585.7
47.5°	581.2	602.9	623.8	660.2	671.0	682.9	677.4	641.1	619.3	584.8	574.8
50°	577.5	585.7	623.8	643.8	659.2	671.0	656.5	629.3	608.4	573.0	551.2
52.5°	563.0	578.4	602.9	629.3	648.3	662.9	639.3	622.0	593.9	556.6	543.0
55°	544.8	553.9	597.5	624.7	634.7	644.7	635.6	607.5	578.4	540.3	526.7
57.5°	521.2	542.1	577.5	615.7	628.4	633.8	619.3	596.6	560.3	526.7	504.9
60°	496.7	518.5	557.5	588.4	601.1	621.1	599.3	585.7	543.9	506.7	483.1
62.5°	472.2	496.7	525.8	564.8	575.7	583.9	578.4	559.4	525.8	484.0	454.9
65°	443.1	461.3	497.6	517.6	524.9	543.9	524.9	517.6	487.6	447.7	423.2
67.5°	399.5	415.0	446.8	465.8	471.3	479.4	478.5	470.4	436.8	409.5	387.7
70°	349.6	363.2	383.2	405.9	408.6	418.6	409.5	407.7	385.9	348.7	336.9
72.5°	280.6	293.3	319.6	329.6	330.5	334.2	329.6	323.3	317.8	278.8	267.0
75°	215.2	222.5	235.2	244.3	244.3	248.8	246.1	239.7	225.2	200.7	188.9
77.5°	149.8	157.1	173.4	178.9	178.0	179.8	171.6	165.3	143.5	130.8	120.8
80°	109.0	113.5	121.7	125.3	126.2	128.9	119.0	113.5	100.8	86.3	81.7
82.5°	79.0	81.7	82.6	87.2	87.2	82.6	79.9	74.5	65.4	56.3	52.7
85°	32.7	33.6	34.5	40.0	40.9	49.0	45.4	42.7	37.2	31.8	29.1
87.5°	8.2	9.1	11.8	10.0	11.8	11.8	12.7	14.5	14.5	11.8	11.8
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°	2780.4	2780.4	2780.4	2780.4	2780.4	2780.4	2780.4	2780.4	2780.4	2780.4	2780.4
2.5°	2476.2	2483.5	2576.1	2587.9	2633.3	2679.7	2773.2	2840.4	2894.9	2930.3	2940.3
5°	2095.8	2142.1	2184.8	2253.8	2316.4	2405.4	2508.0	2635.2	2795.0	2876.7	2909.4
7.5°	1640.8	1695.3	1757.1	1824.3	1916.0	2075.8	2212.9	2360.0	2564.3	2648.8	2776.8
10°	1339.4	1400.2	1481.9	1533.7	1644.5	1797.0	1956.8	2126.7	2321.9	2443.6	2591.6
12.5°	1184.1	1234.0	1309.4	1418.4	1501.0	1600.0	1718.9	1933.2	2212.9	2328.2	2429.9
15°	1012.5	1067.9	1155.0	1275.8	1374.8	1492.8	1626.3	1859.7	2157.5	2335.5	2421.8
17.5°	870.8	910.8	1002.5	1106.9	1220.4	1349.4	1541.0	1856.1	2215.6	2443.6	2584.3
20°	772.7	778.2	828.1	917.1	1071.5	1239.5	1488.3	1837.9	2401.8	2629.7	2807.7
22.5°	711.0	705.6	706.5	781.8	889.9	1131.4	1405.7	1899.6	2613.4	2925.7	3045.6
25°	680.1	665.6	656.5	672.9	770.9	1003.4	1343.0	1981.4	2841.3	3170.0	3317.1
27.5°	663.8	638.4	620.2	622.9	694.7	938.9	1304.0	2016.8	3067.4	3510.5	3562.3
30°	657.4	625.6	599.3	590.2	637.5	849.0	1220.4	2077.6	3269.9	3697.6	3742.1
32.5°	634.7	595.7	570.3	562.1	581.2	770.0	1160.5	2121.2	3448.8	3901.0	3885.5
35°	608.4	575.7	543.9	528.5	542.1	719.2	1112.4	2100.3	3659.4	4059.0	4050.8
37.5°	605.7	563.0	536.7	511.2	510.3	656.5	1047.0	2120.3	3793.8	4342.3	4230.6
40°	582.1	554.8	520.3	499.4	487.6	624.7	983.4	2073.1	3990.9	4456.7	4346.8
42.5°	583.0	542.1	512.1	487.6	475.8	578.4	939.8	2060.4	4059.9	4642.9	4401.3
45°	568.4	528.5	503.1	474.0	467.6	543.0	898.1	2001.3	4181.6	4651.9	4333.2
47.5°	553.9	518.5	491.3	456.7	442.2	530.3	865.4	1952.3	4118.0	4566.6	4238.8
50°	543.9	503.1	477.6	453.1	412.3	508.5	822.7	1940.5	4029.0	4451.3	4063.5
52.5°	526.7	490.3	464.0	444.9	379.6	488.5	806.3	2009.5	4138.0	4365.0	4012.7
55°	510.3	473.1	439.5	402.3	352.3	435.9	760.9	2074.0	4296.9	4563.9	4243.3
57.5°	493.1	457.7	421.3	376.8	326.0	381.4	713.7	2085.8	3999.0	4217.9	4028.1
60°	470.4	425.0	397.7	339.6	297.8	316.0	565.7	1838.8	3101.9	3522.3	3528.7
62.5°	444.9	395.9	372.3	304.2	268.8	272.4	461.3	1545.5	2516.2	2915.7	3089.2
65°	411.3	364.1	336.0	281.5	247.9	236.1	337.8	1132.3	1911.4	2365.5	2562.5
67.5°	367.8	323.3	287.9	245.2	221.6	202.5	230.6	637.5	1128.7	1588.2	1648.1
70°	321.4	283.3	246.1	210.7	184.3	170.7	168.9	282.4	539.4	854.5	972.5
72.5°	253.3	226.1	196.1	169.8	152.6	132.6	120.8	117.1	182.5	347.8	480.4
75°	181.6	158.9	141.7	124.4	111.7	100.8	91.7	83.5	76.3	87.2	119.9
77.5°	114.4	106.2	92.6	88.1	80.8	78.1	74.5	69.9	64.5	60.8	60.8
80°	77.2	71.7	67.2	66.3	63.6	62.7	63.6	59.0	53.6	49.0	50.9
82.5°	51.8	50.9	49.9	49.0	49.9	50.9	52.7	51.8	47.2	44.5	45.4
85°	30.9	32.7	34.5	36.3	40.0	35.4	29.1	24.5	21.8	20.0	19.1
87.5°	11.8	16.3	14.5	13.6	14.5	13.6	12.7	11.8	10.0	9.1	9.1
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°	2780.4	2780.4	2780.4	2780.4	2780.4	2780.4	2780.4	2780.4	2780.4	2780.4
2.5°	3006.5	3024.7	3040.1	3036.5	3004.7	2962.1	2944.8	2856.7	2838.6	2826.8
5°	3047.4	3152.7	3175.4	3161.8	3079.2	2974.8	2873.1	2744.1	2668.8	2666.0
7.5°	2972.0	3101.9	3142.8	3173.6	3063.8	2882.1	2707.8	2514.4	2467.2	2470.8
10°	2780.4	2987.5	3088.3	3120.1	2993.8	2836.7	2595.2	2399.1	2298.3	2296.5
12.5°	2674.2	2836.7	2864.9	2909.4	2872.2	2713.2	2529.8	2310.1	2212.0	2210.2
15°	2579.8	2686.9	2695.1	2757.7	2777.7	2670.6	2547.1	2312.8	2233.8	2225.6
17.5°	2662.4	2587.9	2557.1	2565.2	2624.3	2663.3	2647.0	2467.2	2386.4	2340.9
20°	2717.8	2551.6	2458.1	2467.2	2537.1	2679.7	2795.9	2690.5	2562.5	2568.0
22.5°	2865.8	2557.1	2410.9	2400.9	2511.7	2765.0	2963.9	2973.0	2849.5	2819.5
25°	3087.4	2619.7	2396.3	2393.6	2499.9	2856.7	3160.0	3307.1	3180.9	3125.5
27.5°	3265.3	2717.8	2441.7	2450.8	2537.1	2931.2	3327.1	3522.3	3426.1	3358.0
30°	3421.5	2819.5	2505.3	2463.5	2637.0	2970.2	3398.8	3767.5	3690.3	3634.0
32.5°	3486.0	2963.9	2606.1	2537.1	2719.6	3017.4	3547.7	4005.4	3939.1	3800.2
35°	3595.0	3044.7	2660.6	2655.1	2864.0	3131.0	3617.7	4162.5	4135.3	4011.8
37.5°	3682.1	3126.4	2854.0	2794.1	3061.9	3321.6	3730.3	4379.5	4316.9	4258.7
40°	3749.3	3272.6	3034.7	3113.7	3305.3	3495.1	3833.8	4393.1	4573.8	4404.9
42.5°	3687.6	3403.4	3331.6	3520.5	3702.1	3693.0	3845.6	4498.5	4633.8	4545.7
45°	3672.1	3624.9	3801.1	3972.7	4014.5	3857.4	3761.1	4382.2	4615.6	4576.6
47.5°	3634.9	3842.9	4149.8	4429.5	4365.9	3967.3	3660.3	4361.4	4626.5	4556.6
50°	3622.2	3890.1	4407.7	4680.1	4641.9	4062.6	3613.1	4227.0	4549.3	4543.0
52.5°	3621.3	3987.2	4514.8	4816.3	4839.9	4213.3	3677.6	4295.1	4609.3	4662.8
55°	3662.2	3956.4	4501.2	4740.9	4731.8	4146.2	3684.9	4340.5	4682.8	4735.5
57.5°	3454.2	3544.1	3714.8	3904.6	3855.6	3434.2	3290.8	4012.7	4297.8	4259.7
60°	2982.9	2701.4	2508.9	2499.9	2404.5	2272.8	2693.3	3581.3	3581.3	3544.1
62.5°	2612.5	1773.4	1523.7	1452.9	1521.0	1672.6	2597.9	3483.3	3384.3	3341.6
65°	2284.7	1353.9	1101.5	1081.5	1199.5	1428.4	2349.1	2967.5	2793.2	2651.5
67.5°	1470.1	991.6	819.1	783.6	926.2	1048.8	1563.7	1825.2	1715.3	1659.9
70°	948.0	645.6	455.8	427.7	483.1	646.5	998.9	1064.2	904.4	867.2
72.5°	448.6	278.8	159.8	131.7	148.0	247.0	395.0	425.0	353.2	323.3
75°	142.6	102.6	65.4	56.3	53.6	63.6	90.8	69.9	50.9	49.9
77.5°	63.6	60.8	51.8	43.6	38.1	31.8	26.3	21.8	22.7	23.6
80°	52.7	48.1	42.7	38.1	31.8	24.5	19.1	14.5	14.5	15.4
82.5°	46.3	41.8	37.2	31.8	27.2	20.0	14.5	10.0	9.1	9.1
85°	20.0	23.6	25.4	27.2	21.8	16.3	10.0	6.4	5.4	5.4
87.5°	8.2	7.3	6.4	5.4	4.5	4.5	3.6	2.7	1.8	1.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)