

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: P452438

Luminaire Tested: **GALN-SA3B-827-U-SLR**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P452438  
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-SA3B-827-U-SLR  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 80 CRI, 2700K, 800mA 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: 10764 lumens  
Efficiency: N/A  
Efficacy: 89.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G2

Input Watts (W): 121  
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

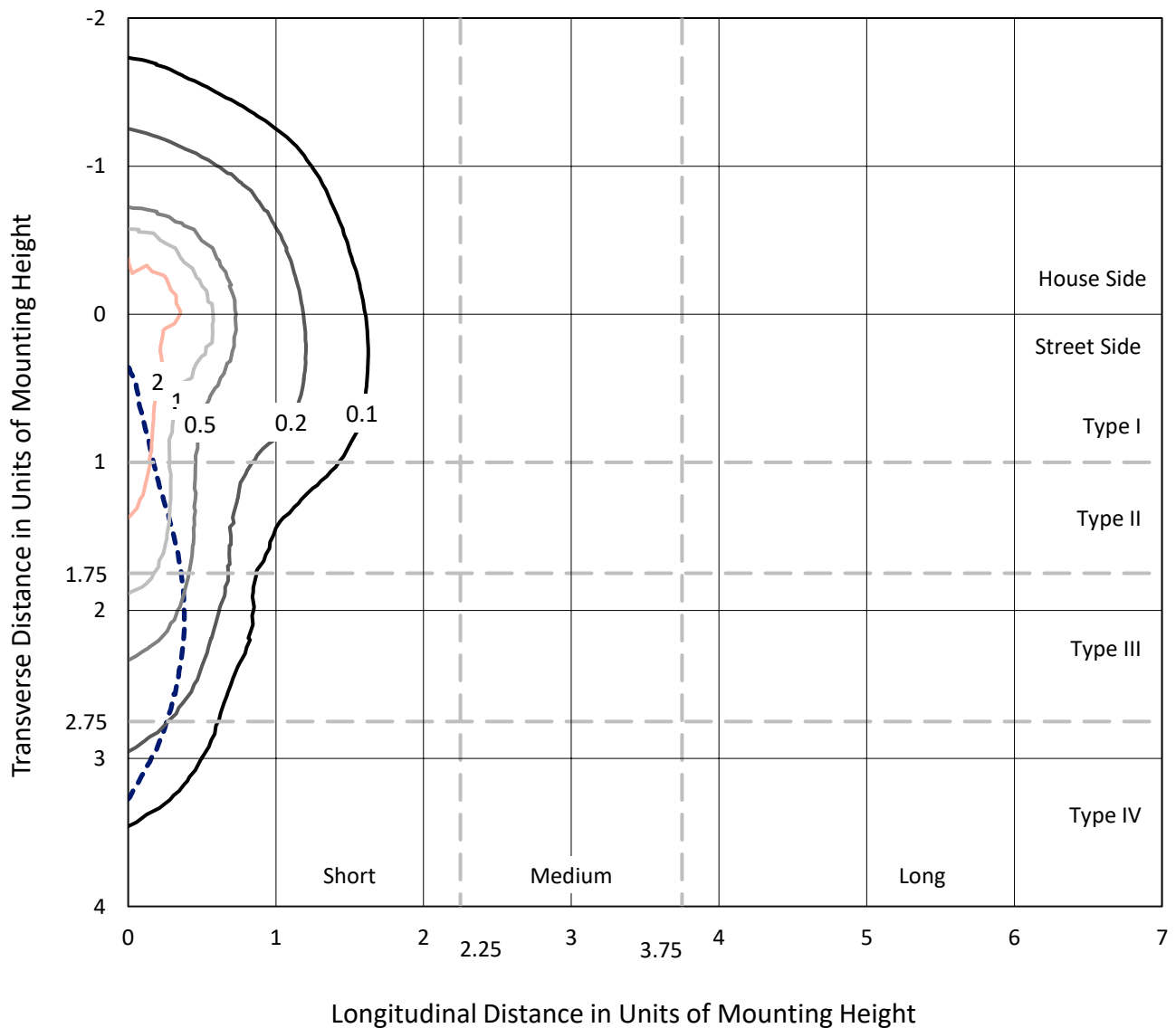




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### Iso-Footcandle Lines of Horizontal Illumination

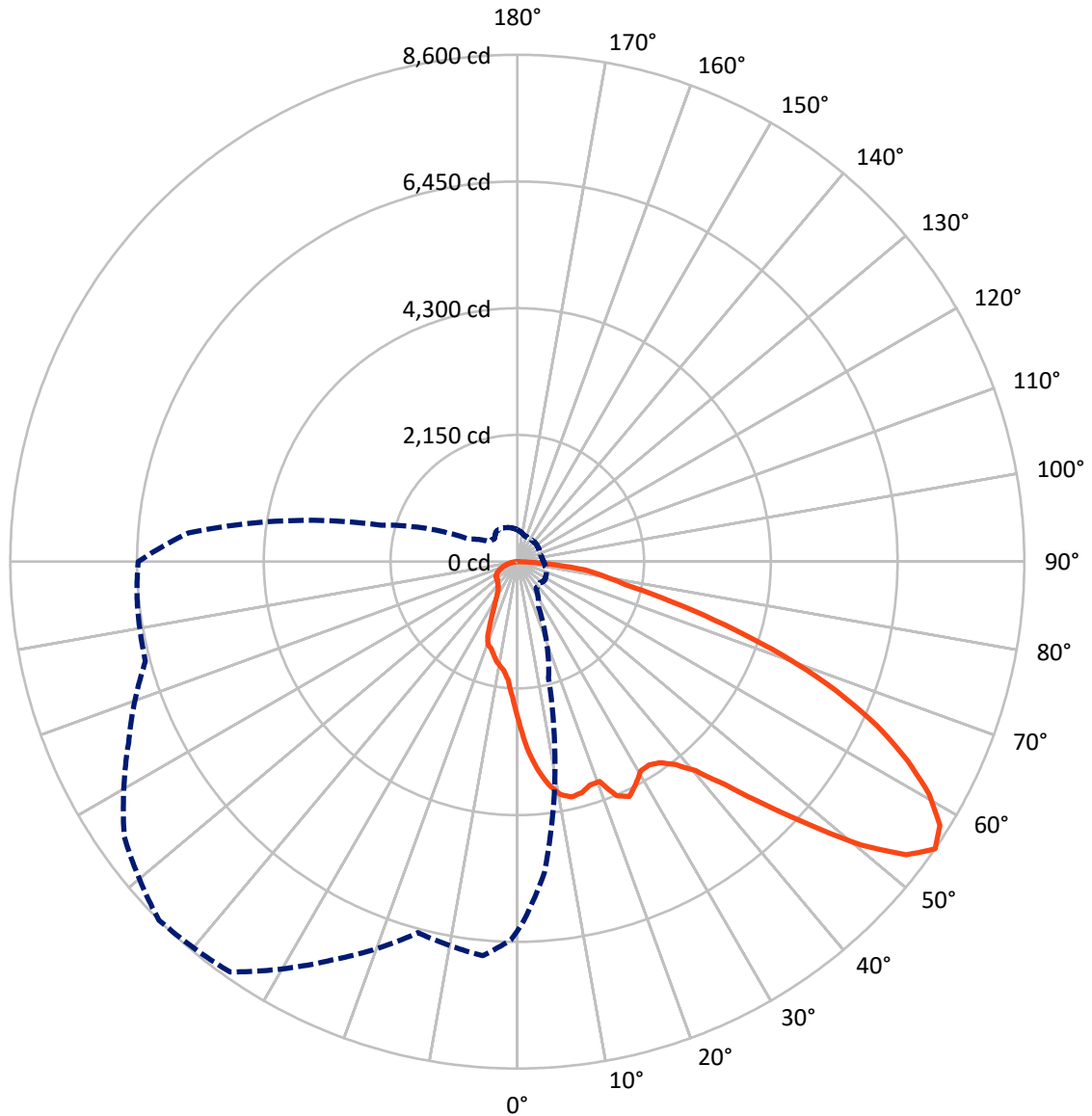
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.6 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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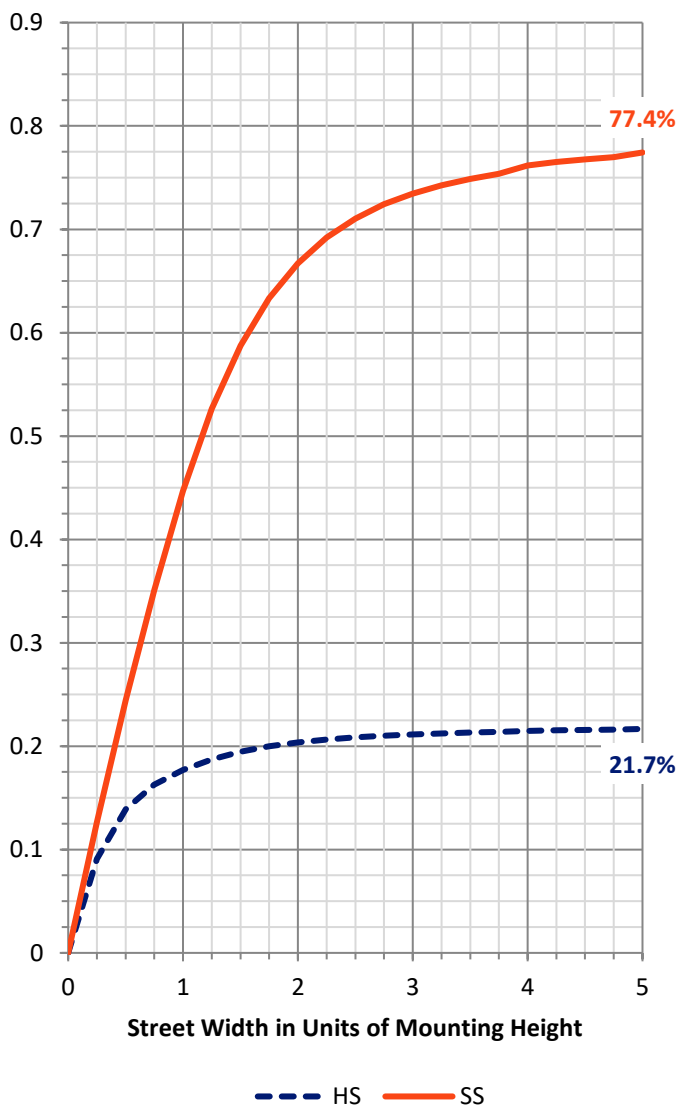
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2354.6	0.0	2354.6
	% Fixture	21.9	0.0	21.9
<b>Street Side</b>	Lumens	8409.4	0.0	8409.4
	% Fixture	78.1	0.0	78.1
<b>Total</b>	Lumens	10764.0	0.0	10764.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	229.0	2.1
10°-20°	607.4	5.6
20°-30°	1049.3	9.7
30°-40°	1219.5	11.3
40°-50°	1701.4	15.8
50°-60°	2308.6	21.4
60°-70°	2196.4	20.4
70°-80°	1186.5	11.0
80°-90°	265.9	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°	10764.0	100.0
0°-180°	10764.0	100.0

**Coefficient of Utilization**



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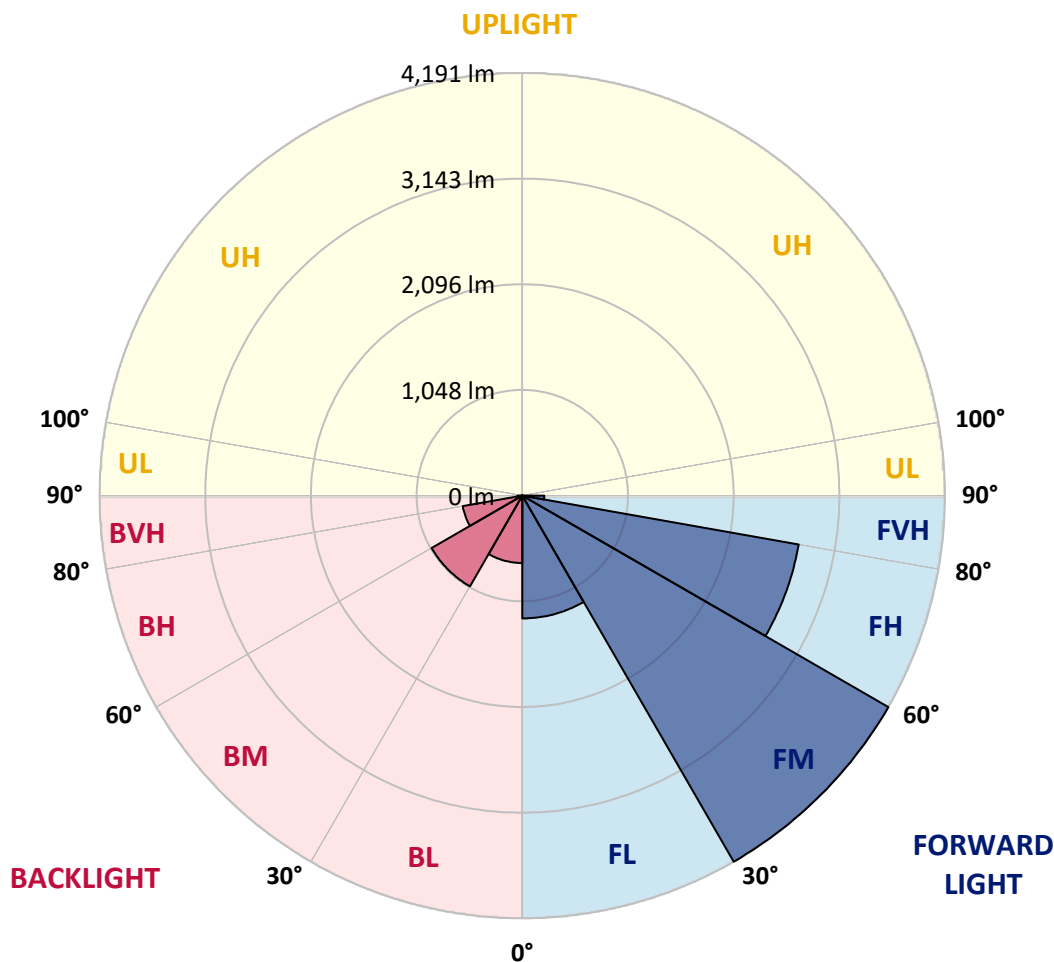
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1217.4	11.3			
FM	(30°-60°)	4191.3	38.9			
FH	(60°-80°)	2783.4	25.9			G2/5000
FVH	(80°-90°)	217.3	2.0			G2/225
BL	(0°-30°)	668.2	6.2	B2/1000		
BM	(30°-60°)	1038.2	9.6	B2/2500		
BH	(60°-80°)	599.5	5.6	B2/1000		G2/1000
BVH	(80°-90°)	48.6	0.5			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G2**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	2701.3	2701.3	2701.3	2701.3	2701.3	2701.3	2701.3	2701.3	2701.3	2701.3	2701.3
2.5°	3001.0	2989.7	2957.7	2873.9	2789.4	2703.5	2637.4	2555.1	2469.1	2423.0	2364.0
5°	3042.2	3029.4	2954.2	2765.3	2594.1	2414.5	2271.0	2145.3	2094.2	2018.9	1958.5
7.5°	2945.6	2939.9	2827.0	2555.8	2321.4	2086.4	1923.7	1822.9	1731.3	1697.2	1704.3
10°	2857.6	2834.8	2693.5	2339.2	2065.8	1874.7	1758.3	1659.6	1595.0	1577.9	1581.5
12.5°	2784.4	2753.9	2587.0	2193.6	1954.3	1801.6	1653.2	1550.2	1491.3	1507.6	1563.0
15°	2769.5	2728.3	2542.3	2143.9	1893.2	1696.5	1533.9	1415.3	1371.3	1406.8	1495.5
17.5°	2866.1	2814.3	2619.0	2160.2	1835.0	1589.3	1389.7	1254.1	1217.2	1274.0	1389.7
20°	3176.4	3099.7	2858.3	2254.7	1829.3	1536.0	1305.9	1169.6	1185.2	1293.2	1413.9
22.5°	3750.2	3635.2	3277.3	2392.4	1859.1	1522.5	1288.9	1217.9	1303.8	1395.4	1474.9
25°	3863.8	3773.6	3352.5	2423.7	1852.7	1513.3	1337.2	1372.7	1468.6	1514.0	1486.3
27.5°	3927.7	3824.8	3347.6	2268.9	1656.7	1372.7	1278.2	1337.2	1361.3	1317.3	1242.0
30°	4076.9	3969.6	3432.1	2106.3	1364.2	1018.3	892.6	868.5	884.8	893.3	866.4
32.5°	4282.1	4176.3	3591.1	1999.7	1179.5	842.2	718.7	684.6	676.8	667.5	656.9
35°	4547.7	4385.1	3747.4	1931.6	1103.5	779.0	665.4	639.1	628.5	615.7	604.3
37.5°	4817.5	4647.1	3944.8	1859.8	1053.1	735.0	629.9	617.8	599.4	585.9	569.5
40°	5104.4	4913.4	4124.4	1797.3	1004.1	706.6	604.3	602.9	578.8	563.1	544.0
42.5°	5353.0	5156.3	4284.9	1759.0	966.5	676.8	588.7	593.0	568.1	544.7	519.8
45°	5550.4	5357.2	4433.4	1759.0	936.0	646.9	585.9	583.0	558.2	529.0	500.6
47.5°	5723.7	5524.1	4578.2	1803.7	916.8	622.1	570.2	575.2	549.6	512.7	485.0
50°	5857.9	5681.8	4773.5	1873.3	897.6	602.2	550.4	577.3	542.5	504.2	472.2
52.5°	6029.0	5871.4	5008.6	1968.5	881.3	580.2	532.6	577.3	541.8	504.9	470.1
55°	6266.2	6100.0	5291.9	2047.3	855.0	559.6	517.0	561.0	539.7	501.4	464.4
57.5°	6432.4	6308.1	5492.2	2099.9	817.4	533.3	502.8	545.4	530.5	487.9	447.4
58°	6440.2	6318.8	5521.3	2111.9	808.1	528.3	499.2	538.3	526.2	482.2	441.7
60°	6350.7	6246.3	5527.0	2094.9	755.6	503.5	480.8	509.2	503.5	448.8	411.2
62.5°	6025.5	5914.0	5297.6	1956.4	686.0	472.9	452.4	470.1	457.3	401.9	367.1
65°	5563.2	5357.9	4826.1	1739.1	636.3	440.3	414.0	415.4	401.9	362.2	331.6
67.5°	4947.5	4718.1	4086.1	1465.7	598.6	404.1	368.6	365.0	348.7	323.1	298.3
70°	4189.8	4032.8	3320.6	1192.3	556.7	364.3	317.4	315.3	305.4	286.2	264.2
72.5°	3395.9	3196.3	2681.5	954.4	505.6	326.0	269.9	274.1	261.3	247.8	228.0
75°	2506.1	2375.4	2072.9	765.5	436.7	284.1	225.1	226.5	220.9	206.6	191.0
77.5°	1650.3	1611.3	1482.8	502.8	335.9	225.8	183.9	185.3	181.1	168.3	152.0
80°	1110.6	1084.4	1004.8	323.8	224.4	163.3	142.0	143.4	142.7	129.2	107.2
82.5°	684.6	673.2	647.6	218.7	155.5	117.2	93.7	98.0	105.8	90.9	73.1
85°	323.1	323.8	391.3	119.3	91.6	75.3	51.1	54.7	54.7	54.7	41.2
87.5°	41.9	44.0	54.0	50.4	33.4	28.4	18.5	15.6	13.5	17.8	12.8
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°	2701.3	2701.3	2701.3	2701.3	2701.3	2701.3	2701.3	2701.3	2701.3	2701.3	2701.3
2.5°	2343.4	2329.2	2298.7	2291.6	2287.3	2299.4	2267.5	2276.0	2261.8	2301.5	2295.1
5°	1962.1	1963.5	1988.4	2004.7	2010.4	2004.7	1983.4	1946.5	1918.1	1906.7	1909.5
7.5°	1690.8	1715.7	1758.3	1805.9	1849.2	1862.0	1849.9	1779.6	1702.9	1654.6	1639.0
10°	1600.6	1634.0	1683.0	1720.7	1759.0	1789.5	1795.9	1741.2	1650.3	1536.0	1491.3
12.5°	1605.6	1651.1	1697.9	1710.0	1706.4	1718.5	1712.8	1703.6	1644.0	1498.4	1423.8
15°	1558.7	1612.7	1645.4	1639.0	1627.6	1617.0	1602.1	1578.6	1557.3	1455.1	1372.7
17.5°	1450.8	1506.2	1533.2	1535.3	1535.3	1532.5	1496.2	1487.7	1484.9	1435.2	1384.8
20°	1470.7	1501.2	1489.1	1469.3	1474.9	1494.1	1472.8	1468.6	1484.9	1506.9	1497.7
22.5°	1482.0	1471.4	1380.5	1292.4	1272.6	1332.2	1344.3	1391.9	1457.9	1537.4	1589.3
25°	1411.7	1325.8	1163.2	1063.8	1007.7	1063.1	1135.5	1223.6	1322.3	1424.5	1484.9
27.5°	1180.2	1114.9	998.4	909.0	860.0	868.5	930.3	1010.5	1102.1	1171.0	1215.0
30°	889.1	860.0	799.6	769.1	739.2	732.1	758.4	789.0	829.4	838.0	849.3
32.5°	654.7	650.5	654.0	644.1	638.4	637.7	629.9	637.0	641.2	646.2	636.3
35°	592.3	586.6	576.6	573.8	570.2	571.7	568.1	564.6	567.4	571.7	574.5
37.5°	560.3	551.8	537.6	532.6	532.6	534.7	529.0	527.6	532.6	546.1	553.2
40°	535.4	525.5	509.2	502.8	507.0	512.7	504.9	502.1	514.1	528.3	539.7
42.5°	512.0	504.2	488.6	481.5	485.0	495.7	484.3	482.2	497.8	513.4	526.9
45°	492.1	484.3	470.1	466.6	468.0	477.9	470.1	470.1	485.0	502.1	514.1
47.5°	476.5	466.6	457.3	454.5	455.9	461.6	460.2	460.2	474.4	492.1	504.2
50°	460.9	452.4	440.3	441.7	445.3	453.1	452.4	454.5	468.7	490.7	503.5
52.5°	453.8	441.0	427.5	428.9	439.6	448.8	446.0	448.1	464.4	505.6	524.1
55°	446.0	428.9	413.3	415.4	427.5	441.0	437.4	440.3	459.5	515.6	541.1
57.5°	431.1	411.2	394.1	395.5	413.3	427.5	421.8	425.4	448.1	504.9	531.9
58°	424.7	407.6	391.3	392.0	409.0	424.7	418.3	421.1	444.5	502.1	527.6
60°	397.7	387.7	373.5	374.2	390.6	404.1	400.5	403.4	426.1	481.5	500.6
62.5°	360.7	355.1	351.5	351.5	361.5	374.2	377.8	381.3	401.9	435.3	452.4
65°	321.0	321.0	321.7	321.7	328.1	344.4	346.5	355.8	374.9	391.3	404.1
67.5°	294.0	292.6	294.0	290.4	293.3	303.2	313.9	322.4	342.3	353.6	357.9
70°	259.2	258.5	259.2	254.2	257.8	266.3	273.4	287.6	308.2	316.7	318.8
72.5°	225.1	225.1	226.5	223.0	223.0	232.2	237.2	252.8	272.0	277.0	277.7
75°	189.6	191.7	191.7	186.8	188.2	193.9	200.3	213.0	230.8	234.3	234.3
77.5°	150.5	158.4	158.4	153.4	155.5	156.2	164.8	171.1	184.6	186.1	180.4
80°	109.4	117.2	123.6	119.3	122.9	118.6	123.6	127.8	141.3	134.9	125.7
82.5°	78.1	83.8	88.8	89.5	85.9	78.1	84.5	85.2	91.6	83.1	78.1
85°	43.3	48.3	54.7	51.8	46.2	41.2	43.3	44.7	44.0	41.9	39.1
87.5°	11.4	12.1	13.5	9.9	9.2	7.8	10.7	10.7	12.1	12.8	12.1
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):**

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	2701.3	2701.3	2701.3	2701.3	2701.3	2701.3	2701.3	2701.3	2701.3	2701.3	2701.3
2.5°	2300.1	2331.4	2398.8	2450.0	2512.4	2588.4	2677.9	2768.1	2865.4	2895.9	2938.5
5°	1903.2	1981.3	2013.9	2107.0	2199.3	2337.8	2485.5	2656.6	2844.1	2934.3	3020.9
7.5°	1626.2	1668.1	1702.2	1770.4	1881.1	2049.4	2234.8	2448.5	2714.1	2845.5	2972.6
10°	1477.1	1481.3	1523.2	1607.7	1704.3	1852.7	2028.1	2267.5	2563.6	2723.4	2872.5
12.5°	1378.4	1359.9	1405.4	1493.4	1602.8	1739.8	1901.0	2129.0	2454.9	2619.0	2799.3
15°	1291.7	1262.6	1296.7	1386.9	1494.8	1656.0	1829.3	2070.7	2412.3	2603.3	2803.6
17.5°	1293.9	1213.6	1225.7	1301.7	1408.9	1572.9	1783.1	2068.6	2476.9	2697.1	2934.3
20°	1453.6	1325.1	1270.4	1284.6	1388.3	1567.3	1804.4	2168.0	2689.3	3010.3	3263.8
22.5°	1610.6	1533.2	1445.1	1416.0	1472.8	1660.3	1940.1	2403.1	3150.9	3634.5	4092.5
25°	1555.9	1621.9	1599.9	1558.7	1571.5	1727.0	2032.4	2596.2	3509.5	4054.1	4484.5
27.5°	1244.9	1364.9	1389.0	1388.3	1393.3	1521.1	1827.9	2466.3	3554.2	4134.4	4545.6
30°	874.9	885.5	898.3	923.2	945.9	1060.2	1430.2	2165.2	3534.3	4170.6	4582.5
32.5°	631.3	645.5	663.3	697.3	751.3	896.9	1251.3	2069.3	3639.4	4320.4	4690.4
35°	577.3	593.7	610.7	649.8	700.9	835.8	1180.2	2029.6	3812.0	4563.3	4884.3
37.5°	560.3	578.8	593.7	622.1	663.3	791.8	1115.6	2002.6	3988.8	4820.4	5144.2
40°	548.2	569.5	581.6	604.3	632.7	751.3	1058.1	1981.3	4160.0	5055.4	5353.0
42.5°	537.6	559.6	575.2	591.5	615.0	715.1	1007.0	1960.0	4308.4	5283.4	5561.0
45°	524.8	552.5	572.4	585.1	605.7	684.6	967.9	1942.9	4477.4	5485.8	5771.2
47.5°	514.1	544.7	569.5	584.4	592.3	663.3	936.7	1966.4	4680.5	5697.4	5966.5
50°	514.8	544.0	575.2	598.6	578.0	645.5	917.5	2059.4	4944.7	5948.8	6120.6
52.5°	537.6	573.1	597.9	603.6	558.2	624.2	907.5	2222.0	5257.1	6171.1	6276.1
55°	563.1	600.1	627.0	623.5	547.5	597.2	905.4	2395.3	5599.4	6430.2	6478.5
57.5°	553.9	607.9	649.1	630.6	548.2	570.9	896.2	2535.2	5885.6	6624.1	6678.8
58°	551.1	605.0	651.9	629.2	546.1	563.1	894.1	2547.2	5925.3	6637.6	6707.2
60°	523.4	580.2	649.8	618.5	534.0	541.8	870.6	2586.3	5914.7	6568.0	6724.2
62.5°	472.9	519.8	600.8	566.7	497.1	513.4	818.1	2538.0	5626.4	6232.8	6475.0
65°	416.1	450.9	504.9	498.5	444.5	484.3	746.3	2347.0	5049.0	5688.9	5943.8
67.5°	373.5	401.9	436.0	426.8	399.8	445.3	668.9	2023.9	4401.4	5035.5	5356.5
70°	330.2	352.2	369.3	362.9	354.4	406.9	600.1	1642.5	3780.7	4414.9	4725.9
72.5°	286.2	306.8	321.0	311.7	306.8	366.4	544.0	1274.7	2986.1	3642.3	4042.1
75°	239.3	259.9	269.9	259.2	256.4	323.1	460.9	952.3	2240.5	2807.9	3153.0
77.5°	185.3	207.4	220.1	216.6	218.0	265.6	372.1	651.9	1602.1	1913.8	2277.4
80°	130.0	154.1	162.6	159.1	169.0	202.4	262.7	414.0	1105.0	1242.0	1498.4
82.5°	80.2	103.0	104.4	107.9	115.0	149.8	198.1	252.1	693.8	717.2	903.3
85°	40.5	49.0	52.5	58.2	64.6	91.6	112.9	156.2	446.7	338.0	504.9
87.5°	13.5	14.2	17.0	21.3	26.3	37.6	48.3	63.9	110.8	61.1	156.2
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):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	2701.3	2701.3	2701.3	2701.3	2701.3	2701.3	2701.3	2701.3	2701.3	2701.3
2.5°	3024.5	3084.8	3128.8	3169.3	3130.3	3126.7	3088.4	3026.6	3001.0	3001.0
5°	3202.7	3344.0	3458.3	3531.5	3500.2	3425.0	3300.7	3142.3	3057.1	3042.2
7.5°	3251.7	3530.8	3743.1	3818.4	3765.8	3599.7	3361.8	3094.8	2972.6	2945.6
10°	3221.9	3584.7	3896.5	4015.8	3942.7	3691.3	3366.7	3039.4	2888.8	2857.6
12.5°	3190.6	3591.8	3924.9	4097.5	4049.9	3765.1	3403.0	3003.1	2829.2	2784.4
15°	3213.3	3594.7	3890.1	4068.3	4098.9	3853.9	3462.6	3029.4	2817.1	2769.5
17.5°	3356.8	3648.7	3840.4	3984.6	4091.8	3974.6	3632.3	3155.1	2925.0	2866.1
20°	3656.5	3777.9	3868.8	3980.3	4152.9	4221.0	3979.6	3500.2	3228.3	3176.4
22.5°	4524.3	4502.2	4316.2	4314.1	4564.0	4837.4	4821.1	4201.9	3792.8	3750.2
25°	4849.5	4747.2	4478.1	4412.8	4522.8	4944.7	4883.6	4345.3	3967.5	3863.8
27.5°	4722.4	4468.9	4292.0	4277.1	4240.9	4639.3	4786.3	4403.5	4028.6	3927.7
30°	4714.6	4341.7	4088.9	4118.8	4153.6	4534.2	4840.3	4586.0	4184.8	4076.9
32.5°	4733.7	4359.5	4103.9	4109.5	4213.2	4549.8	4899.9	4784.9	4390.0	4282.1
35°	4811.1	4460.3	4199.0	4185.5	4347.4	4652.1	5001.5	5097.3	4670.5	4547.7
37.5°	4936.1	4661.3	4373.0	4369.4	4604.5	4836.7	5127.9	5412.6	4949.6	4817.5
40°	5120.1	4896.4	4682.6	4663.4	4953.9	5137.1	5291.9	5748.5	5274.2	5104.4
42.5°	5342.3	5178.3	5090.9	5166.9	5446.0	5474.4	5547.6	6058.8	5550.4	5353.0
45°	5548.3	5540.5	5661.9	5863.6	6026.2	5855.8	5814.6	6266.9	5764.9	5550.4
47.5°	5793.3	6004.9	6371.3	6666.7	6837.2	6299.6	6042.5	6402.6	5921.1	5723.7
50°	6041.8	6560.9	7146.1	7557.9	7594.2	6781.8	6199.5	6530.4	6063.1	5857.9
52.5°	6303.1	7004.7	7783.8	8262.4	8192.1	7201.5	6351.4	6617.0	6209.4	6029.0
55°	6530.4	7276.7	8140.2	8599.7	8496.7	7457.1	6515.5	6710.8	6418.2	6266.2
57.5°	6657.5	7299.5	8051.5	8452.7	8341.2	7407.4	6590.7	6780.3	6551.7	6432.4
58°	6676.0	7268.9	7972.7	8367.5	8253.9	7365.5	6590.0	6777.5	6560.2	6440.2
60°	6659.6	7070.8	7679.4	8030.9	7911.6	7102.7	6563.0	6724.2	6452.3	6350.7
62.5°	6508.4	6727.1	7173.0	7428.7	7394.6	6692.3	6452.3	6523.3	6123.5	6025.5
65°	6309.5	6258.4	6524.7	6705.8	6731.3	6384.8	6342.2	6088.7	5701.7	5563.2
67.5°	6068.1	5727.2	5726.5	5829.5	5872.1	5911.9	6112.8	5616.4	5093.8	4947.5
70°	5658.3	4908.4	4682.6	4804.0	4768.5	5104.4	5703.1	4953.2	4360.9	4189.8
72.5°	4907.0	3895.1	3533.6	3689.8	3600.4	4003.0	4990.1	4076.2	3606.1	3395.9
75°	3977.5	2913.7	2540.9	2684.3	2628.9	3036.5	4152.1	2960.5	2586.3	2506.1
77.5°	3088.4	2111.2	1894.6	1874.7	1915.9	2259.6	3045.8	1999.0	1705.0	1650.3
80°	1984.1	1511.2	1523.9	1498.4	1519.7	1424.5	1849.2	1275.4	1154.7	1110.6
82.5°	1305.9	1053.1	1255.5	1158.9	1100.7	958.0	1212.9	835.1	708.7	684.6
85°	889.8	775.5	705.9	539.7	635.6	737.8	909.7	449.5	356.5	323.1
87.5°	401.9	269.9	198.1	122.1	193.2	223.0	441.7	52.5	40.5	41.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)