

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: P451829

Luminaire Tested: **GALN-SA2D-727-U-SLR**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P451829  
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-SA2D-727-U-SLR  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 2700K, 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: 11215 lumens  
Efficiency: N/A  
Efficacy: 89.7 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G3

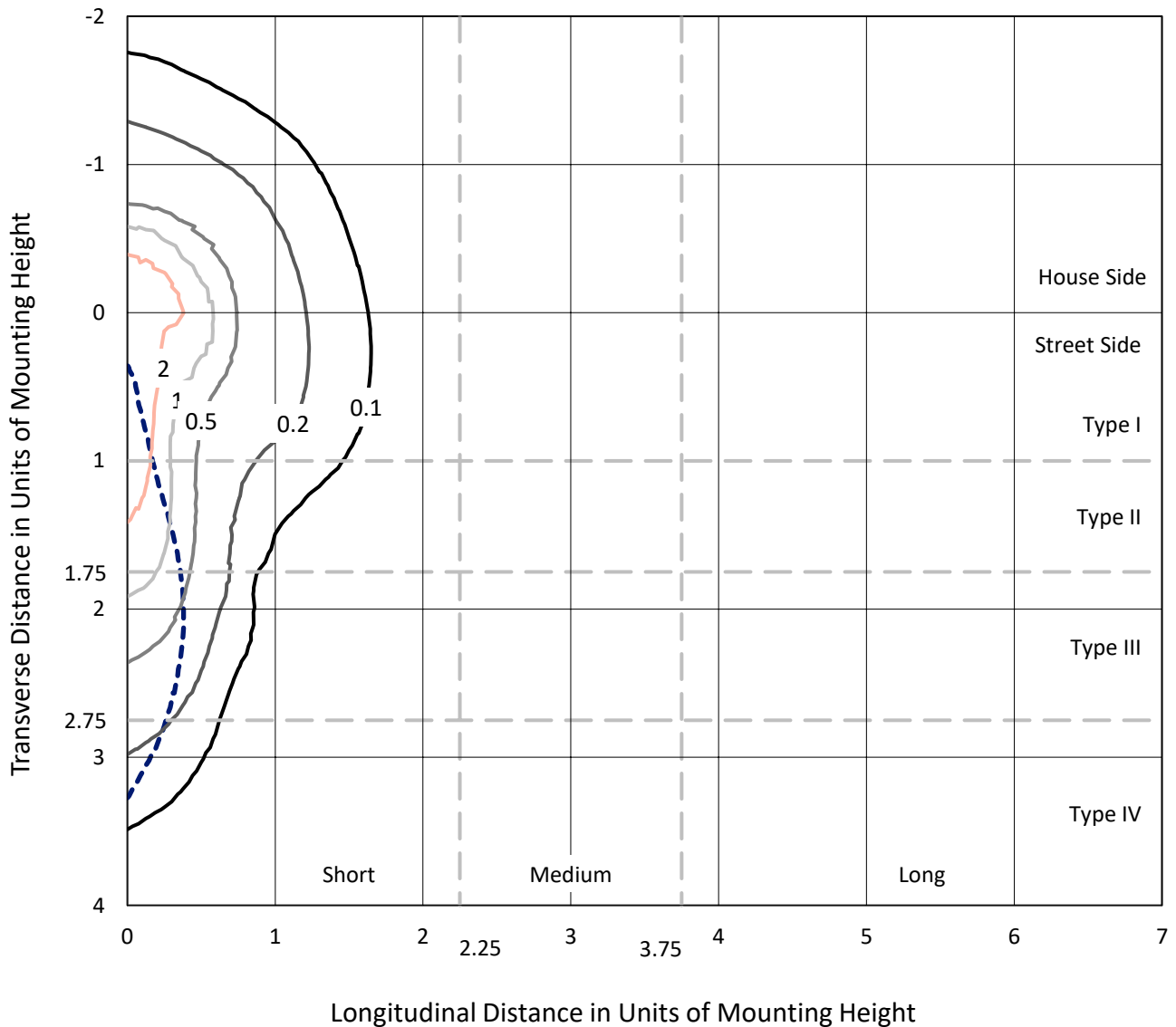
Input Watts (W): 125  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

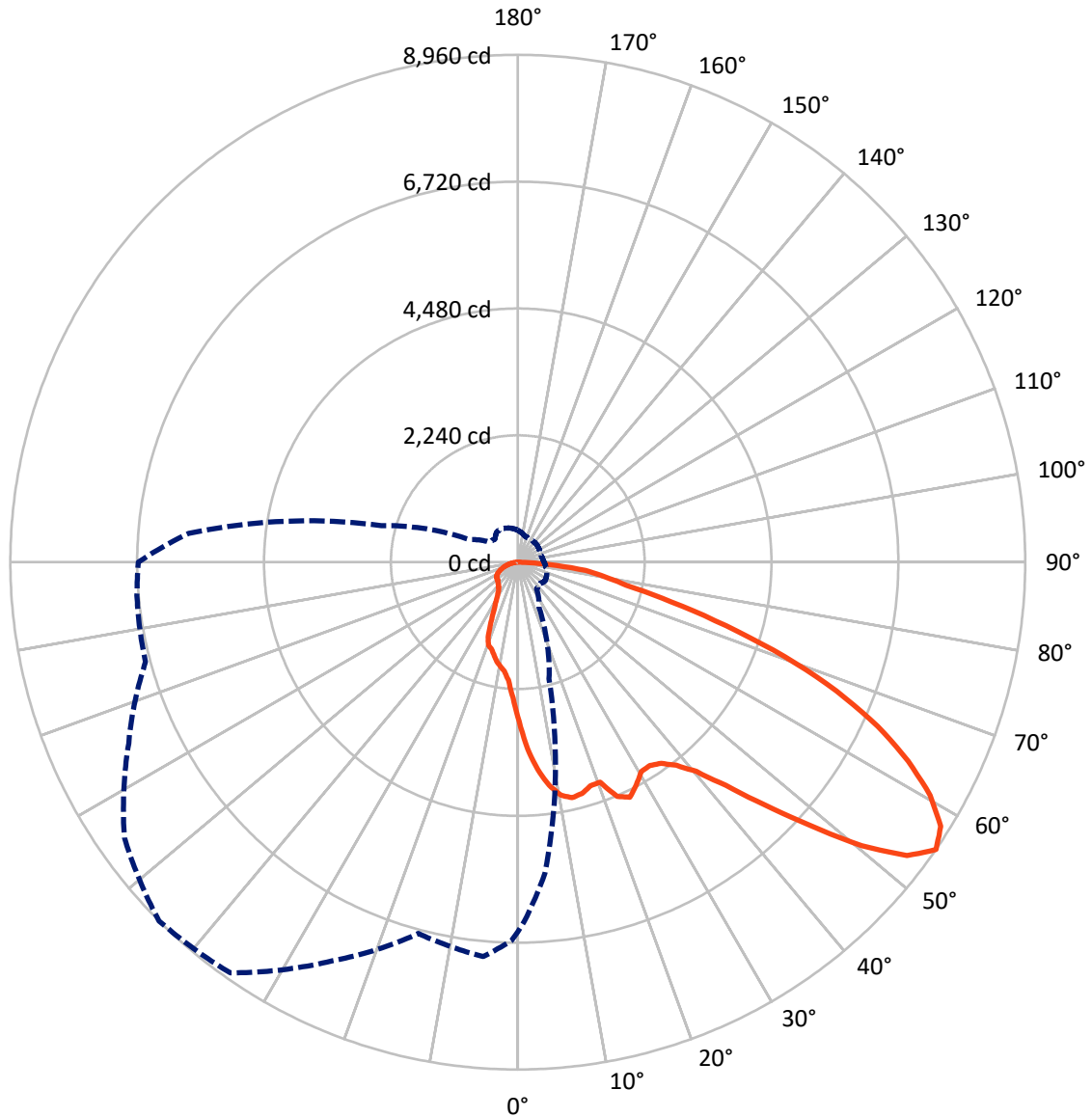
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.8 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	2453.2	0.0	2453.2
	% Fixture	21.9	0.0	21.9
<b>Street Side</b>	Lumens	8761.8	0.0	8761.8
	% Fixture	78.1	0.0	78.1
<b>Total</b>	Lumens	11215.0	0.0	11215.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	238.5	2.1
10°-20°	632.9	5.6
20°-30°	1093.3	9.7
30°-40°	1270.6	11.3
40°-50°	1772.7	15.8
50°-60°	2405.3	21.4
60°-70°	2288.4	20.4
70°-80°	1236.3	11.0
80°-90°	277.1	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°	11215.0	100.0
0°-180°	11215.0	100.0

**Coefficient of Utilization**



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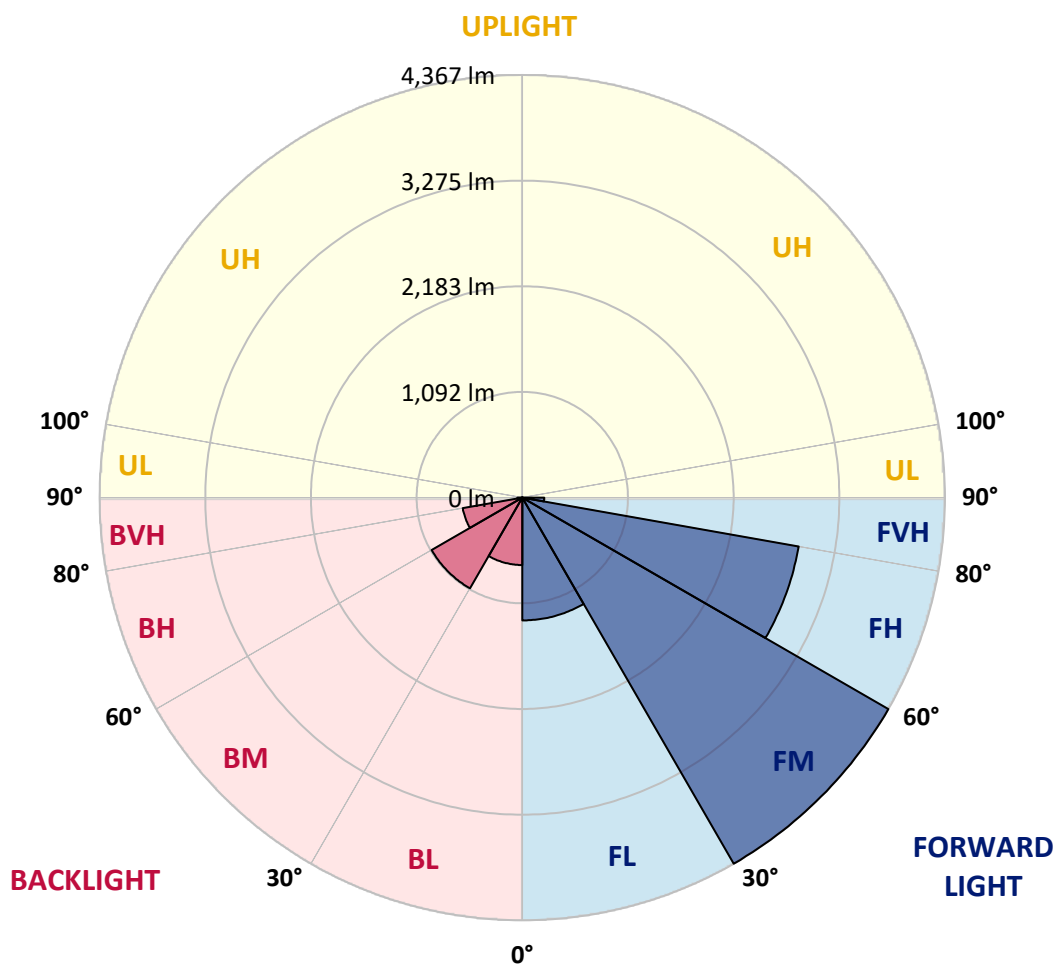
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1268.4	11.3			
FM	(30°-60°)	4366.9	38.9			
FH	(60°-80°)	2900.0	25.9			G2/5000
FVH	(80°-90°)	226.4	2.0			G3/500
BL	(0°-30°)	696.2	6.2	B2/1000		
BM	(30°-60°)	1081.7	9.6	B2/2500		
BH	(60°-80°)	624.7	5.6	B2/1000		G2/1000
BVH	(80°-90°)	50.6	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-G3**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	2814.5	2814.5	2814.5	2814.5	2814.5	2814.5	2814.5	2814.5	2814.5	2814.5	2814.5
2.5°	3126.8	3114.9	3081.6	2994.3	2906.3	2816.7	2747.9	2662.1	2572.6	2524.5	2463.1
5°	3169.7	3156.4	3077.9	2881.1	2702.8	2515.6	2366.2	2235.2	2181.9	2103.5	2040.6
7.5°	3069.0	3063.1	2945.5	2662.9	2418.7	2173.8	2004.4	1899.3	1803.8	1768.3	1775.7
10°	2977.3	2953.6	2806.4	2437.2	2152.3	1953.3	1832.0	1729.1	1661.8	1644.0	1647.7
12.5°	2901.1	2869.3	2695.4	2285.5	2036.2	1877.1	1722.5	1615.2	1553.8	1570.8	1628.5
15°	2885.6	2842.6	2648.8	2233.7	1972.5	1767.6	1598.2	1474.6	1428.7	1465.7	1558.2
17.5°	2986.2	2932.2	2728.7	2250.7	1911.9	1655.9	1448.0	1306.6	1268.2	1327.4	1448.0
20°	3309.5	3229.6	2978.0	2349.1	1905.9	1600.4	1360.7	1218.6	1234.9	1347.3	1473.1
22.5°	3907.3	3787.5	3414.6	2492.7	1937.0	1586.3	1342.9	1268.9	1358.4	1453.9	1536.7
25°	4025.7	3931.8	3493.0	2525.2	1930.4	1576.7	1393.2	1430.2	1530.1	1577.4	1548.6
27.5°	4092.3	3985.0	3487.8	2363.9	1726.2	1430.2	1331.8	1393.2	1418.4	1372.5	1294.1
30°	4247.7	4136.0	3575.9	2194.5	1421.3	1061.0	930.0	904.9	921.9	930.8	902.7
32.5°	4461.5	4351.3	3741.6	2083.5	1229.0	877.5	748.8	713.3	705.1	695.5	684.4
35°	4738.2	4568.8	3904.4	2012.5	1149.8	811.7	693.3	665.9	654.8	641.5	629.6
37.5°	5019.4	4841.8	4110.1	1937.8	1097.3	765.8	656.3	643.7	624.5	610.4	593.4
40°	5318.3	5119.3	4297.3	1872.7	1046.2	736.2	629.6	628.2	603.0	586.7	566.8
42.5°	5577.3	5372.3	4464.5	1832.7	1007.0	705.1	613.4	617.8	591.9	567.5	541.6
45°	5783.0	5581.7	4619.1	1832.7	975.2	674.0	610.4	607.4	581.6	551.2	521.6
47.5°	5963.5	5755.6	4770.0	1879.3	955.2	648.1	594.1	599.3	572.7	534.2	505.3
50°	6103.3	5919.8	4973.5	1951.8	935.2	627.4	573.4	601.5	565.3	525.3	492.0
52.5°	6281.6	6117.4	5218.4	2051.0	918.2	604.5	554.9	601.5	564.5	526.1	489.8
55°	6528.8	6355.6	5513.6	2133.1	890.8	583.0	538.6	584.5	562.3	522.4	483.9
57.5°	6701.9	6572.4	5722.3	2187.8	851.6	555.7	523.8	568.2	552.7	508.3	466.1
58°	6710.0	6583.5	5752.6	2200.4	842.0	550.5	520.1	560.8	548.3	502.4	460.2
60°	6616.8	6508.0	5758.5	2182.7	787.2	524.6	500.9	530.5	524.6	467.6	428.4
62.5°	6277.9	6161.8	5519.6	2038.4	714.7	492.8	471.3	489.8	476.5	418.8	382.5
65°	5796.3	5582.4	5028.3	1812.0	662.9	458.7	431.4	432.8	418.8	377.3	345.5
67.5°	5154.8	4915.8	4257.3	1527.1	623.7	421.0	384.0	380.3	363.3	336.6	310.8
70°	4365.3	4201.8	3459.7	1242.3	580.1	379.6	330.7	328.5	318.2	298.2	275.2
72.5°	3538.1	3330.2	2793.8	994.4	526.8	339.6	281.2	285.6	272.3	258.2	237.5
75°	2611.1	2474.9	2159.7	797.6	455.0	296.0	234.5	236.0	230.1	215.3	199.0
77.5°	1719.5	1678.8	1544.9	523.8	350.0	235.3	191.6	193.1	188.7	175.4	158.3
80°	1157.2	1129.8	1046.9	337.4	233.8	170.2	148.0	149.5	148.7	134.7	111.7
82.5°	713.3	701.4	674.8	227.9	162.0	122.1	97.7	102.1	110.2	94.7	76.2
85°	336.6	337.4	407.7	124.3	95.4	78.4	53.3	57.0	57.0	57.0	42.9
87.5°	43.7	45.9	56.2	52.5	34.8	29.6	19.2	16.3	14.1	18.5	13.3
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°	2814.5	2814.5	2814.5	2814.5	2814.5	2814.5	2814.5	2814.5	2814.5	2814.5	2814.5
2.5°	2441.6	2426.8	2395.0	2387.6	2383.2	2395.8	2362.5	2371.3	2356.5	2398.0	2391.3
5°	2044.3	2045.8	2071.7	2088.7	2094.6	2088.7	2066.5	2028.0	1998.4	1986.6	1989.6
7.5°	1761.7	1787.6	1832.0	1881.5	1926.7	1940.0	1927.4	1854.2	1774.2	1723.9	1707.7
10°	1667.7	1702.5	1753.5	1792.7	1832.7	1864.5	1871.2	1814.2	1719.5	1600.4	1553.8
12.5°	1672.9	1720.2	1769.1	1781.6	1777.9	1790.5	1784.6	1775.0	1712.8	1561.2	1483.5
15°	1624.1	1680.3	1714.3	1707.7	1695.8	1684.7	1669.2	1644.8	1622.6	1516.0	1430.2
17.5°	1511.6	1569.3	1597.4	1599.6	1599.6	1596.7	1558.9	1550.1	1547.1	1495.3	1442.8
20°	1532.3	1564.1	1551.5	1530.8	1536.7	1556.7	1534.5	1530.1	1547.1	1570.0	1560.4
22.5°	1544.1	1533.0	1438.3	1346.6	1325.9	1388.0	1400.6	1450.2	1519.0	1601.9	1655.9
25°	1470.9	1381.4	1211.9	1108.3	1049.9	1107.6	1183.1	1274.8	1377.7	1484.2	1547.1
27.5°	1229.7	1161.6	1040.3	947.1	896.0	904.9	969.3	1052.9	1148.3	1220.1	1265.9
30°	926.3	896.0	833.1	801.3	770.2	762.8	790.2	822.0	864.2	873.1	884.9
32.5°	682.2	677.7	681.4	671.1	665.2	664.4	656.3	663.7	668.1	673.3	662.9
35°	617.1	611.1	600.8	597.8	594.1	595.6	591.9	588.2	591.2	595.6	598.6
37.5°	583.8	574.9	560.1	554.9	554.9	557.1	551.2	549.7	554.9	569.0	576.4
40°	557.9	547.5	530.5	523.8	528.3	534.2	526.1	523.1	535.7	550.5	562.3
42.5°	533.5	525.3	509.0	501.6	505.3	516.4	504.6	502.4	518.7	534.9	549.0
45°	512.7	504.6	489.8	486.1	487.6	497.9	489.8	489.8	505.3	523.1	535.7
47.5°	496.5	486.1	476.5	473.5	475.0	480.9	479.4	479.4	494.2	512.7	525.3
50°	480.2	471.3	458.7	460.2	463.9	472.0	471.3	473.5	488.3	511.3	524.6
52.5°	472.8	459.5	445.4	446.9	458.0	467.6	464.6	466.9	483.9	526.8	546.0
55°	464.6	446.9	430.6	432.8	445.4	459.5	455.8	458.7	478.7	537.2	563.8
57.5°	449.1	428.4	410.6	412.1	430.6	445.4	439.5	443.2	466.9	526.1	554.2
58°	442.5	424.7	407.7	408.4	426.2	442.5	435.8	438.8	463.2	523.1	549.7
60°	414.3	404.0	389.2	389.9	406.9	421.0	417.3	420.3	443.9	501.6	521.6
62.5°	375.9	369.9	366.2	366.2	376.6	389.9	393.6	397.3	418.8	453.6	471.3
65°	334.4	334.4	335.2	335.2	341.8	358.8	361.1	370.7	390.7	407.7	421.0
67.5°	306.3	304.8	306.3	302.6	305.6	315.9	327.0	335.9	356.6	368.5	372.9
70°	270.1	269.3	270.1	264.9	268.6	277.5	284.9	299.7	321.1	330.0	332.2
72.5°	234.5	234.5	236.0	232.3	232.3	241.9	247.1	263.4	283.4	288.6	289.3
75°	197.5	199.8	199.8	194.6	196.1	202.0	208.6	222.0	240.5	244.2	244.2
77.5°	156.9	165.0	165.0	159.8	162.0	162.8	171.7	178.3	192.4	193.9	187.9
80°	113.9	122.1	128.7	124.3	128.0	123.6	128.7	133.2	147.2	140.6	131.0
82.5°	81.4	87.3	92.5	93.2	89.5	81.4	88.0	88.8	95.4	86.6	81.4
85°	45.1	50.3	57.0	54.0	48.1	42.9	45.1	46.6	45.9	43.7	40.7
87.5°	11.8	12.6	14.1	10.4	9.6	8.1	11.1	11.1	12.6	13.3	12.6
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):**

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	2814.5	2814.5	2814.5	2814.5	2814.5	2814.5	2814.5	2814.5	2814.5	2814.5	2814.5
2.5°	2396.5	2429.0	2499.3	2552.6	2617.7	2696.9	2790.1	2884.1	2985.4	3017.3	3061.6
5°	1982.9	2064.3	2098.3	2195.2	2291.4	2435.7	2589.6	2767.9	2963.2	3057.2	3147.5
7.5°	1694.3	1738.0	1773.5	1844.5	1960.0	2135.3	2328.4	2551.1	2827.8	2964.7	3097.2
10°	1539.0	1543.4	1587.1	1675.1	1775.7	1930.4	2113.1	2362.5	2671.0	2837.5	2992.8
12.5°	1436.1	1416.9	1464.2	1556.0	1669.9	1812.7	1980.7	2218.2	2557.8	2728.7	2916.6
15°	1345.9	1315.5	1351.0	1445.0	1557.5	1725.4	1905.9	2157.5	2513.4	2712.4	2921.1
17.5°	1348.1	1264.5	1277.0	1356.2	1467.9	1638.8	1857.9	2155.3	2580.7	2810.1	3057.2
20°	1514.5	1380.6	1323.7	1338.5	1446.5	1632.9	1880.1	2258.9	2801.9	3136.4	3400.5
22.5°	1678.1	1597.4	1505.7	1475.3	1534.5	1729.9	2021.4	2503.8	3282.9	3786.7	4264.0
25°	1621.1	1689.9	1667.0	1624.1	1637.4	1799.4	2117.6	2705.0	3656.5	4224.0	4672.4
27.5°	1297.0	1422.1	1447.2	1446.5	1451.7	1584.8	1904.5	2569.6	3703.1	4307.6	4736.0
30°	911.5	922.6	936.0	961.9	985.5	1104.7	1490.1	2255.9	3682.4	4345.4	4774.5
32.5°	657.8	672.6	691.1	726.6	782.8	934.5	1303.7	2156.0	3791.9	4501.5	4886.9
35°	601.5	618.5	636.3	677.0	730.3	870.8	1229.7	2114.6	3971.7	4754.5	5088.9
37.5°	583.8	603.0	618.5	648.1	691.1	825.0	1162.4	2086.5	4155.9	5022.3	5359.7
40°	571.2	593.4	606.0	629.6	659.2	782.8	1102.4	2064.3	4334.3	5267.2	5577.3
42.5°	560.1	583.0	599.3	616.3	640.7	745.1	1049.2	2042.1	4488.9	5504.8	5794.0
45°	546.8	575.6	596.3	609.7	631.1	713.3	1008.5	2024.3	4665.0	5715.6	6013.1
47.5°	535.7	567.5	593.4	608.9	617.1	691.1	975.9	2048.7	4876.6	5936.1	6216.5
50°	536.4	566.8	599.3	623.7	602.3	672.6	955.9	2145.7	5151.8	6198.0	6377.1
52.5°	560.1	597.1	623.0	628.9	581.6	650.4	945.6	2315.1	5477.4	6429.6	6539.1
55°	586.7	625.2	653.3	649.6	570.5	622.2	943.4	2495.6	5834.0	6699.7	6750.0
57.5°	577.1	633.3	676.3	657.0	571.2	594.9	933.7	2641.4	6132.2	6901.7	6958.6
58°	574.2	630.4	679.2	655.5	569.0	586.7	931.5	2654.0	6173.6	6915.7	6988.2
60°	545.3	604.5	677.0	644.4	556.4	564.5	907.1	2694.7	6162.5	6843.2	7006.0
62.5°	492.8	541.6	625.9	590.4	517.9	534.9	852.3	2644.4	5862.1	6494.0	6746.3
65°	433.6	469.8	526.1	519.4	463.2	504.6	777.6	2445.3	5260.6	5927.2	6192.8
67.5°	389.2	418.8	454.3	444.7	416.6	463.9	697.0	2108.7	4585.8	5246.5	5581.0
70°	344.0	367.0	384.7	378.1	369.2	424.0	625.2	1711.4	3939.2	4599.9	4923.9
72.5°	298.2	319.6	334.4	324.8	319.6	381.8	566.8	1328.1	3111.2	3794.9	4211.4
75°	249.3	270.8	281.2	270.1	267.1	336.6	480.2	992.2	2334.3	2925.5	3285.1
77.5°	193.1	216.0	229.4	225.7	227.1	276.7	387.7	679.2	1669.2	1994.0	2372.8
80°	135.4	160.6	169.4	165.7	176.1	210.9	273.8	431.4	1151.3	1294.1	1561.2
82.5°	83.6	107.3	108.8	112.5	119.9	156.1	206.4	262.7	722.9	747.3	941.1
85°	42.2	51.1	54.8	60.7	67.3	95.4	117.6	162.8	465.4	352.2	526.1
87.5°	14.1	14.8	17.8	22.2	27.4	39.2	50.3	66.6	115.4	63.6	162.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P451829

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**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	2814.5	2814.5	2814.5	2814.5	2814.5	2814.5	2814.5	2814.5	2814.5	2814.5
2.5°	3151.2	3214.1	3259.9	3302.1	3261.4	3257.7	3217.8	3153.4	3126.8	3126.8
5°	3336.9	3484.1	3603.2	3679.5	3646.9	3568.5	3439.0	3274.0	3185.2	3169.7
7.5°	3387.9	3678.7	3899.9	3978.4	3923.6	3750.5	3502.6	3224.4	3097.2	3069.0
10°	3356.9	3734.9	4059.8	4184.1	4107.8	3845.9	3507.8	3166.7	3009.9	2977.3
12.5°	3324.3	3742.3	4089.4	4269.1	4219.6	3922.9	3545.5	3129.0	2947.7	2901.1
15°	3348.0	3745.3	4053.1	4238.8	4270.6	4015.4	3607.7	3156.4	2935.1	2885.6
17.5°	3497.4	3801.5	4001.3	4151.5	4263.2	4141.1	3784.5	3287.3	3047.6	2986.2
20°	3809.7	3936.2	4030.9	4147.1	4326.9	4397.9	4146.3	3646.9	3363.5	3309.5
22.5°	4713.8	4690.9	4497.0	4494.8	4755.2	5040.1	5023.1	4377.9	3951.7	3907.3
25°	5052.7	4946.1	4665.7	4597.7	4712.3	5151.8	5088.2	4527.4	4133.7	4025.7
27.5°	4920.2	4656.1	4471.9	4456.3	4418.6	4833.7	4986.8	4588.0	4197.4	4092.3
30°	4912.1	4523.7	4260.3	4291.3	4327.6	4724.2	5043.1	4778.2	4360.1	4247.7
32.5°	4932.1	4542.2	4275.8	4281.7	4389.7	4740.5	5105.2	4985.4	4574.0	4461.5
35°	5012.7	4647.2	4374.9	4360.9	4529.6	4847.0	5211.0	5310.9	4866.2	4738.2
37.5°	5142.9	4856.6	4556.2	4552.5	4797.4	5039.4	5342.7	5639.4	5157.0	5019.4
40°	5334.6	5101.5	4878.8	4858.8	5161.4	5352.3	5513.6	5989.4	5495.1	5318.3
42.5°	5566.2	5395.2	5304.2	5383.4	5674.2	5703.8	5780.0	6312.7	5783.0	5577.3
45°	5780.7	5772.6	5899.1	6109.2	6278.7	6101.1	6058.2	6529.5	6006.4	5783.0
47.5°	6036.0	6256.5	6638.3	6946.1	7123.6	6563.5	6295.7	6670.8	6169.2	5963.5
50°	6295.0	6835.8	7445.5	7874.6	7912.3	7065.9	6459.2	6804.0	6317.1	6103.3
52.5°	6567.2	7298.2	8109.9	8608.6	8535.3	7503.2	6617.5	6894.3	6469.6	6281.6
55°	6804.0	7581.6	8481.3	8960.0	8852.7	7769.5	6788.5	6991.9	6687.1	6528.8
57.5°	6936.4	7605.3	8388.8	8806.9	8690.7	7717.8	6866.9	7064.4	6826.2	6701.9
58°	6955.7	7573.5	8306.7	8718.1	8599.7	7674.1	6866.1	7061.5	6835.1	6710.0
60°	6938.7	7367.0	8001.1	8367.4	8243.1	7400.3	6838.0	7006.0	6722.6	6616.8
62.5°	6781.1	7008.9	7473.6	7739.9	7704.4	6972.7	6722.6	6796.6	6380.0	6277.9
65°	6573.9	6520.6	6798.1	6986.7	7013.4	6652.3	6607.9	6343.8	5940.5	5796.3
67.5°	6322.3	5967.2	5966.4	6073.7	6118.1	6159.6	6368.9	5851.8	5307.2	5154.8
70°	5895.4	5114.1	4878.8	5005.3	4968.3	5318.3	5942.0	5160.7	4543.6	4365.3
72.5°	5112.6	4058.3	3681.7	3844.4	3751.2	4170.7	5199.2	4246.9	3757.1	3538.1
75°	4144.1	3035.8	2647.3	2796.8	2739.1	3163.8	4326.1	3084.6	2694.7	2611.1
77.5°	3217.8	2199.7	1974.0	1953.3	1996.2	2354.3	3173.4	2082.8	1776.5	1719.5
80°	2067.2	1574.5	1587.8	1561.2	1583.4	1484.2	1926.7	1328.8	1203.1	1157.2
82.5°	1360.7	1097.3	1308.1	1207.5	1146.8	998.1	1263.7	870.1	738.4	713.3
85°	927.1	808.0	735.4	562.3	662.2	768.7	947.8	468.3	371.4	336.6
87.5°	418.8	281.2	206.4	127.3	201.2	232.3	460.2	54.8	42.2	43.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)