

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: P651184

Luminaire Tested: **GALN-SA1D-840-U-SLL-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P651184  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-23)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA1D-840-U-SLL-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 80 CRI, 4000K, 1200mA LIGHTSQUARE WITH 16 LEDS AND SPILL LIGHT  
ELIMINATOR LEFT OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3639 lumens  
Efficiency: N/A  
Efficacy: 56.0 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G0

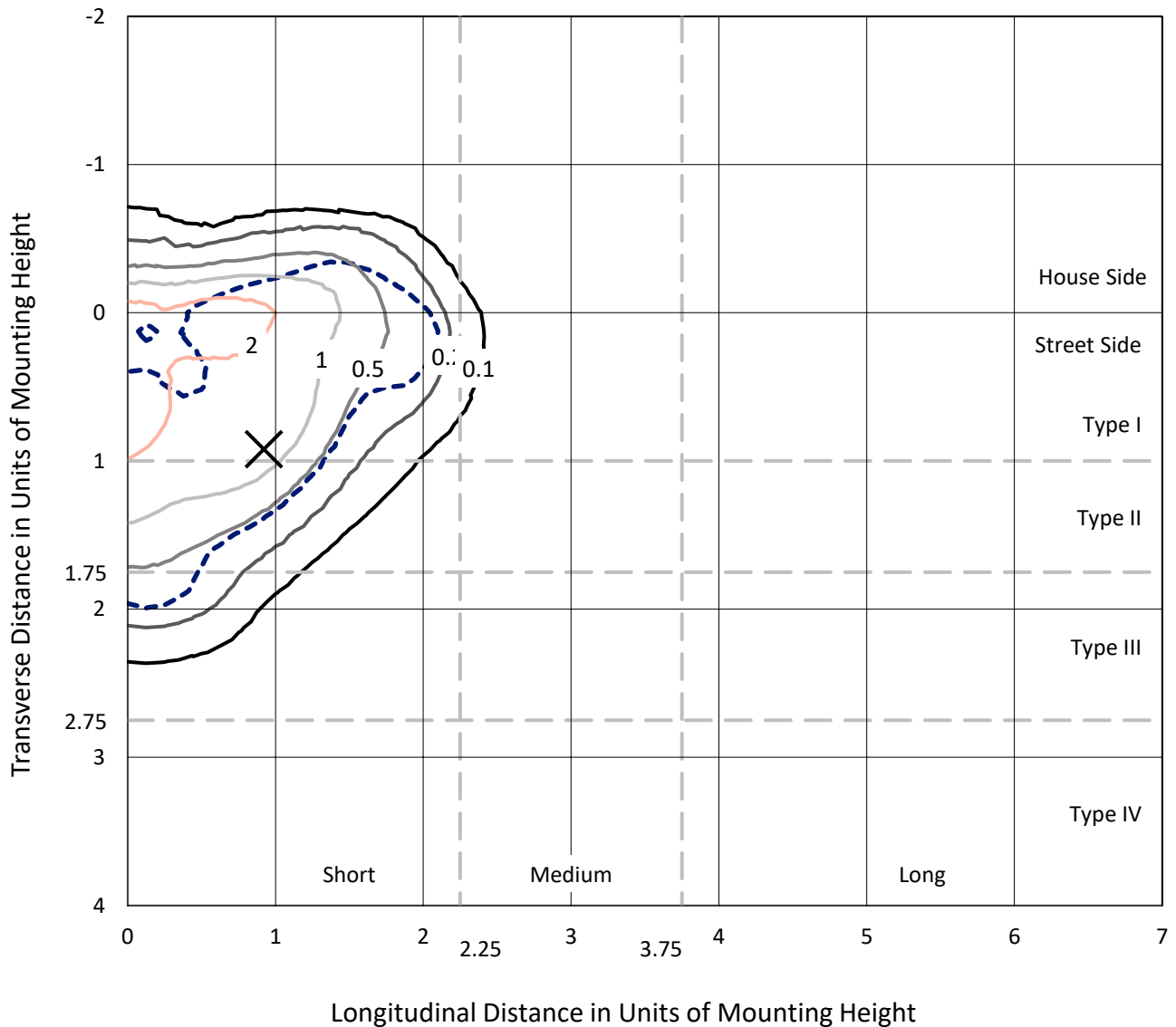
Input Watts (W): 65  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

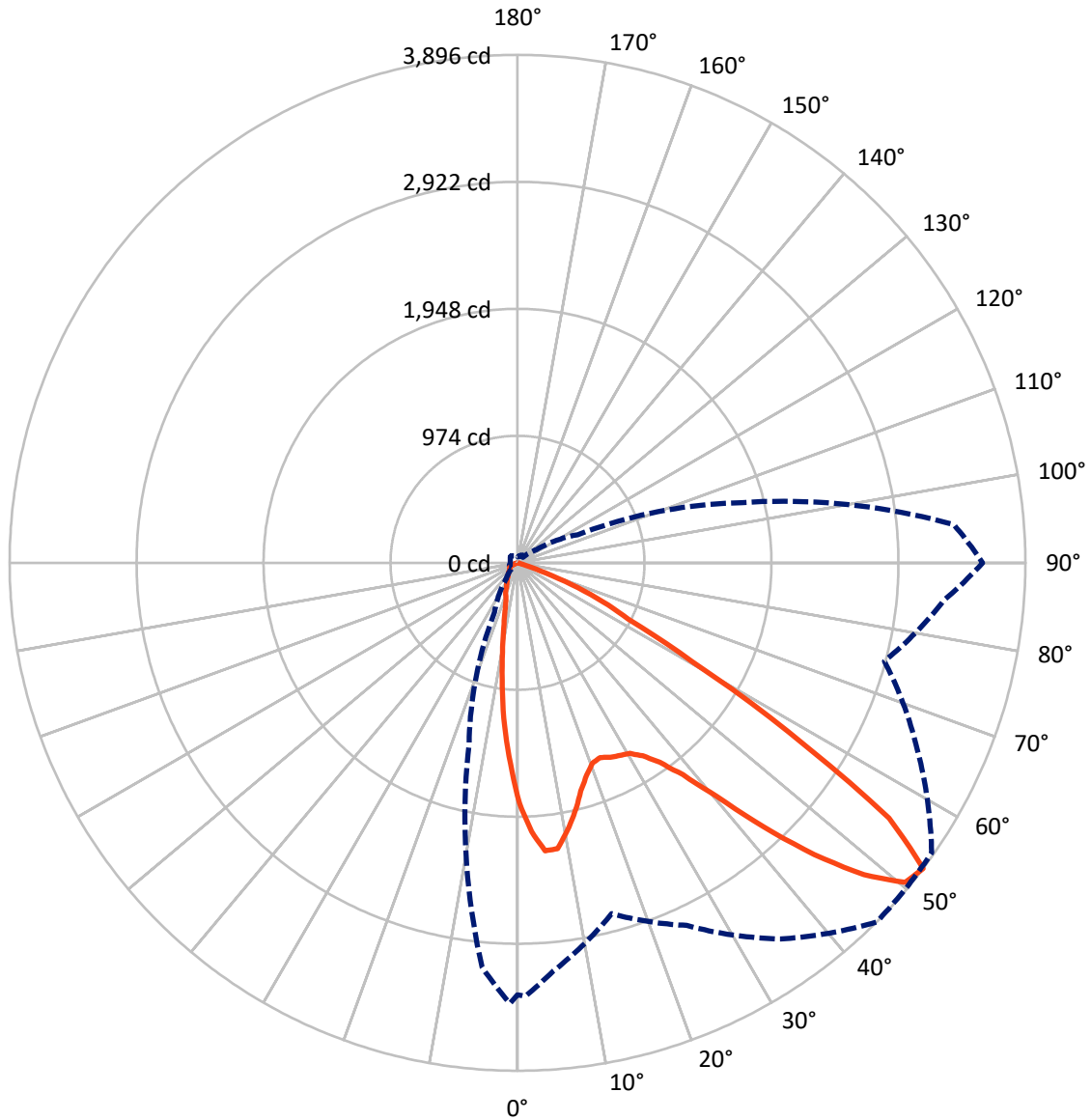
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.2 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral    - - - Horizontal Cone Through 52.5-Deg Vertical

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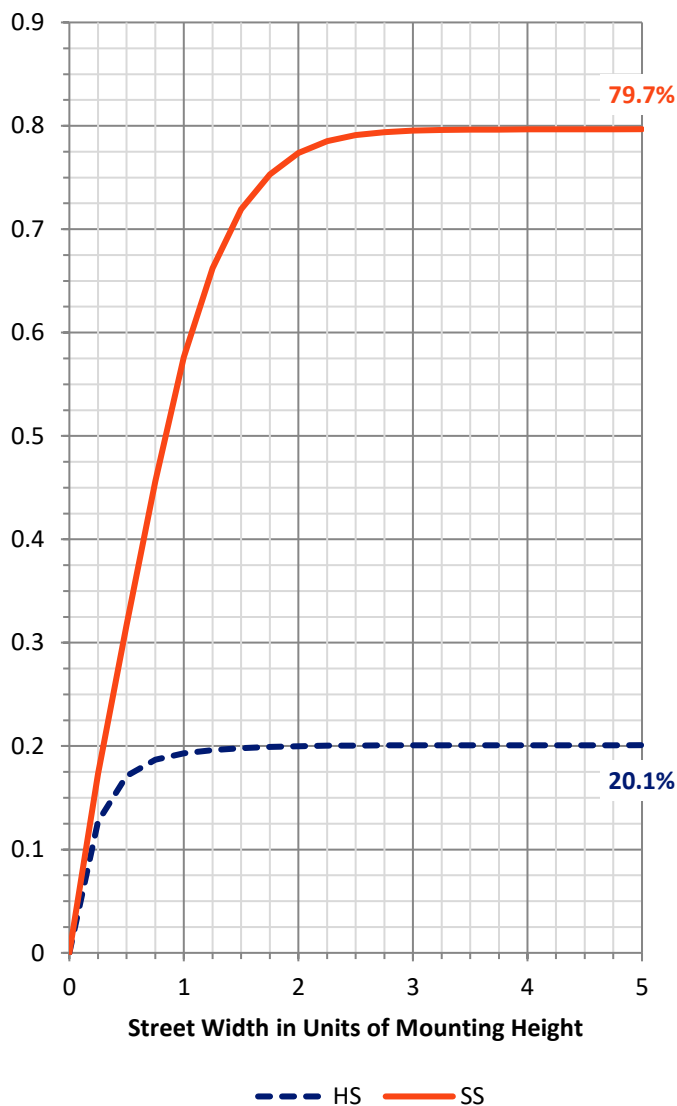
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	738.5	0.0	738.5
	% Fixture	20.3	0.0	20.3
<b>Street Side</b>	Lumens	2900.5	0.0	2900.5
	% Fixture	79.7	0.0	79.7
<b>Total</b>	Lumens	3639.0	0.0	3639.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	134.6	3.7
10°-20°	265.5	7.3
20°-30°	404.0	11.1
30°-40°	603.9	16.6
40°-50°	860.0	23.6
50°-60°	924.4	25.4
60°-70°	409.6	11.3
70°-80°	33.1	0.9
80°-90°	3.9	0.1
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°	3639.0	100.0
0°-180°	3639.0	100.0

**Coefficient of Utilization**

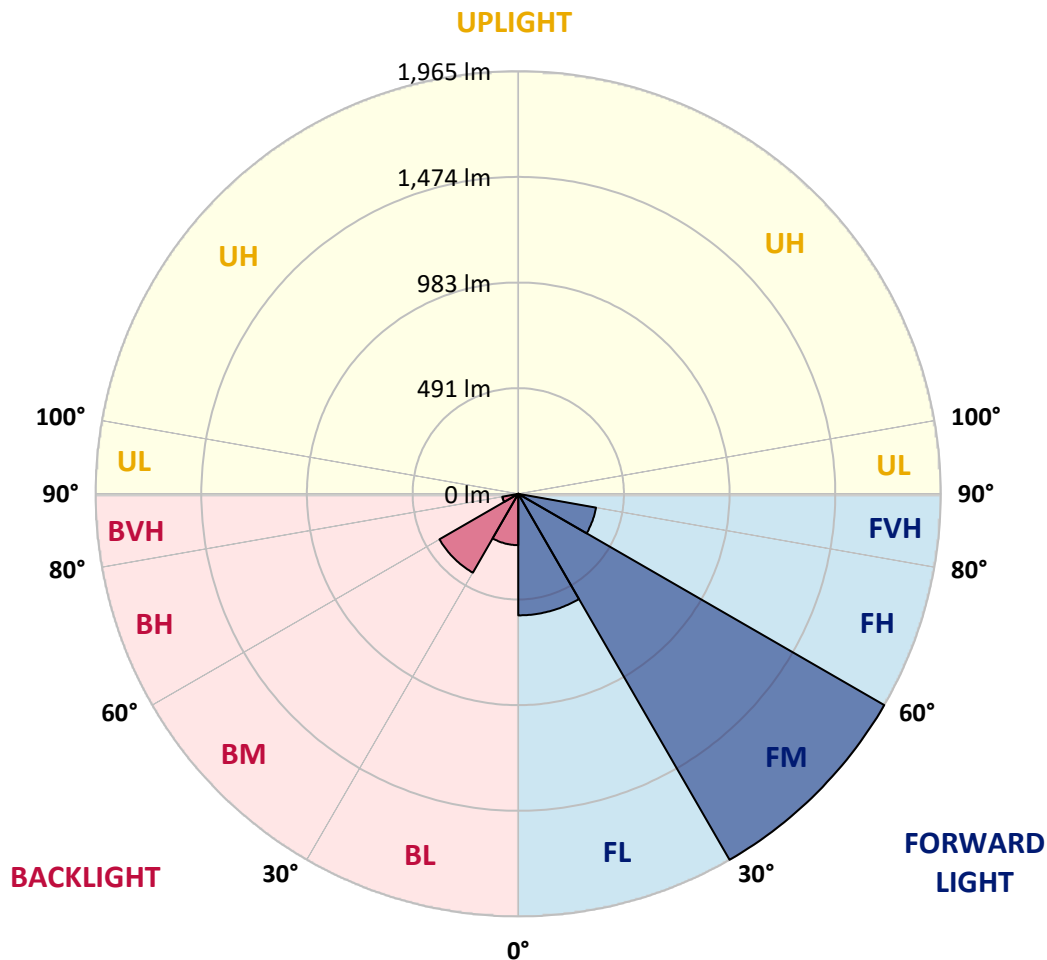


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	565.2	15.5			
FM (30°-60°)	1965.2	54.0			
FH (60°-80°)	367.2	10.1			G0/660
FVH (80°-90°)	2.9	0.1			G0/10
BL (0°-30°)	238.9	6.6	B1/500		
BM (30°-60°)	423.1	11.6	B1/1000		
BH (60°-80°)	75.6	2.1	B0/110		G0/110
BVH (80°-90°)	1.0	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G0**  
 Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1845.2	1845.2	1845.2	1845.2	1845.2	1845.2	1845.2	1845.2	1845.2	1845.2	1845.2
2.5°	1952.5	1958.3	1989.7	2029.1	2049.9	2097.1	2064.2	2072.7	2054.8	1991.9	1942.5
5°	1893.1	1892.4	1932.4	2029.8	2122.1	2215.9	2218.7	2168.7	2080.6	1984.0	1845.8
7.5°	1714.1	1742.0	1783.6	1938.9	2110.0	2180.1	2213.8	2155.1	2019.7	1881.7	1732.0
10°	1578.9	1593.2	1663.3	1850.9	1976.1	2069.9	2090.6	2057.0	1953.2	1780.7	1613.3
12.5°	1500.8	1508.0	1590.3	1747.8	1880.2	1949.6	1959.7	1975.4	1901.0	1739.2	1538.1
15°	1501.6	1507.3	1618.3	1750.0	1802.2	1783.6	1816.5	1815.8	1848.0	1731.4	1601.1
17.5°	1609.7	1616.1	1716.3	1781.4	1758.5	1714.9	1712.7	1745.7	1813.6	1829.4	1696.3
20°	1795.8	1810.8	1884.5	1880.9	1752.1	1664.1	1639.7	1664.8	1823.0	1912.4	1888.1
22.5°	2046.2	2067.0	2118.6	2019.7	1781.4	1629.7	1621.9	1670.5	1884.5	2097.8	2105.7
25°	2336.9	2372.0	2396.9	2270.3	1885.9	1689.1	1651.9	1735.7	1967.5	2299.0	2382.6
27.5°	2529.4	2565.9	2560.2	2379.1	1956.1	1704.9	1673.3	1751.4	2039.8	2346.9	2527.2
30°	2679.7	2701.9	2741.9	2437.8	2026.2	1749.3	1695.5	1818.0	2063.5	2429.9	2701.9
32.5°	2855.0	2870.1	2872.9	2541.6	2134.3	1805.0	1764.2	1901.0	2167.9	2509.4	2856.5
35°	3031.8	3054.0	3007.5	2669.7	2200.9	1908.8	1878.8	2044.8	2251.7	2591.6	3026.8
37.5°	3223.6	3235.1	3127.8	2722.7	2296.0	2077.8	2061.3	2200.1	2396.9	2740.5	3215.7
40°	3384.7	3395.5	3255.8	2787.7	2396.3	2313.9	2356.1	2496.4	2594.5	2837.1	3310.3
42.5°	3474.2	3499.2	3298.8	2752.0	2597.3	2581.6	2769.2	2818.5	2823.6	2864.4	3394.7
45°	3498.5	3487.0	3227.9	2781.4	2773.4	3021.8	3192.2	3257.3	3051.1	2914.4	3416.1
47.5°	3386.1	3401.2	3123.5	2755.5	3004.6	3355.3	3575.8	3696.7	3220.8	2870.8	3363.2
50°	3295.2	3275.9	3089.8	2737.0	3066.9	3512.8	3852.8	3880.0	3376.8	2924.5	3305.2
52.5°	3313.1	3325.2	3143.5	2786.3	3068.3	3522.1	3895.7	3877.1	3381.8	2912.3	3284.4
55°	3351.0	3297.4	3120.5	2677.6	2862.9	3262.3	3457.7	3429.0	3121.3	2782.8	3233.6
57.5°	2891.5	2974.5	2869.3	2390.5	2349.8	2457.8	2454.2	2542.3	2328.2	2394.8	2943.8
60°	2346.9	2361.2	2400.6	2044.8	1626.2	1588.9	1537.3	1481.6	1566.7	2047.7	2677.6
62.5°	2064.2	2047.0	2187.3	1860.2	1148.0	961.3	952.6	987.0	1208.9	1953.2	2511.5
65°	1500.2	1521.6	1623.3	1443.7	861.8	733.6	720.7	822.3	978.4	1565.3	1916.7
67.5°	916.1	957.6	967.0	890.4	584.7	464.5	445.9	538.2	706.4	1012.7	1123.7
70°	423.0	473.1	520.3	486.0	338.5	191.1	180.4	226.1	356.4	582.6	596.2
72.5°	128.1	128.8	180.4	188.2	109.5	43.0	37.9	50.1	120.9	192.5	202.5
75°	9.3	10.0	24.3	27.9	20.8	10.8	11.4	13.6	25.7	43.0	32.2
77.5°	0.8	0.8	0.8	3.6	6.5	7.1	9.3	10.8	13.6	15.7	14.3
80°	0.8	0.0	0.8	2.9	5.0	7.1	8.6	10.0	10.8	12.2	10.8
82.5°	0.0	0.0	0.0	2.2	5.0	7.1	7.9	10.8	12.2	14.3	12.2
85°	0.0	0.0	0.0	2.2	5.0	7.9	7.1	3.6	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	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):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1845.2	1845.2	1845.2	1845.2	1845.2	1845.2	1845.2	1845.2	1845.2	1845.2	1845.2
2.5°	1951.0	1923.2	1859.5	1827.2	1751.4	1740.6	1666.2	1654.1	1629.0	1615.4	1582.5
5°	1785.0	1751.4	1647.6	1560.3	1458.6	1387.8	1333.4	1284.0	1255.4	1228.9	1241.1
7.5°	1649.8	1551.7	1436.4	1290.4	1173.1	1097.2	1014.2	946.2	906.1	878.9	885.3
10°	1508.0	1444.3	1284.0	1120.1	978.4	924.7	859.6	807.4	750.8	702.2	679.2
12.5°	1463.7	1369.1	1168.1	1001.3	894.0	841.7	767.2	707.1	634.9	575.4	554.7
15°	1471.5	1380.7	1136.6	958.3	831.7	741.5	652.8	578.3	498.9	457.3	435.9
17.5°	1599.7	1442.2	1157.3	913.2	745.0	619.8	510.3	415.9	356.4	313.5	304.2
20°	1757.1	1575.3	1201.7	880.4	674.2	493.2	372.9	291.3	242.0	234.7	232.6
22.5°	1987.5	1792.9	1296.9	858.2	587.6	384.3	255.5	211.8	198.2	196.8	197.6
25°	2309.6	2065.6	1400.7	839.6	522.5	296.3	209.0	179.6	175.3	173.2	176.8
27.5°	2449.2	2230.2	1455.8	799.5	463.1	266.9	206.1	178.2	166.0	162.5	164.6
30°	2621.7	2339.7	1542.4	730.7	375.8	219.8	192.5	193.9	188.2	170.3	164.6
32.5°	2850.7	2476.4	1586.0	682.1	335.6	181.8	141.0	129.5	144.6	147.4	152.5
35°	2997.5	2615.3	1608.2	653.5	315.0	155.3	119.5	108.8	105.2	106.0	108.8
37.5°	3270.1	2802.8	1636.2	623.4	299.1	135.2	108.1	98.1	93.0	93.0	95.9
40°	3433.4	2951.7	1674.1	606.9	283.4	123.1	98.1	89.5	85.2	85.2	86.6
42.5°	3474.2	3025.4	1661.2	601.2	265.5	120.3	89.5	83.0	78.0	77.3	76.6
45°	3547.2	3137.8	1663.3	594.8	246.9	109.5	84.4	77.3	70.1	69.5	68.7
47.5°	3627.3	3218.6	1667.6	569.7	229.0	91.6	88.1	71.6	63.0	61.6	61.6
50°	3558.6	3283.0	1704.9	544.6	206.1	74.4	86.6	67.3	55.8	53.7	54.4
52.5°	3567.2	3358.9	1783.6	509.6	177.5	59.4	70.1	63.7	50.8	47.3	47.9
55°	3429.8	3278.7	1794.4	472.4	138.8	45.8	53.7	55.8	43.0	41.5	41.5
57.5°	2952.4	2776.3	1583.2	382.9	91.6	37.9	38.7	48.7	37.3	35.8	36.5
60°	2526.5	2228.7	1274.0	252.6	57.3	30.0	27.9	49.4	32.9	32.2	34.4
62.5°	2303.2	1831.5	966.2	156.8	39.4	22.9	19.3	40.1	28.6	28.6	31.5
65°	1664.1	1230.3	561.9	82.3	27.9	17.9	14.3	22.9	23.6	24.3	25.7
67.5°	1030.6	621.2	236.9	40.1	18.6	12.2	9.3	14.3	15.7	15.7	17.2
70°	508.9	247.7	78.7	22.9	14.3	10.0	6.5	7.9	7.9	7.1	7.9
72.5°	157.4	74.4	20.0	14.3	10.0	6.5	3.6	2.9	1.4	0.0	0.8
75°	17.9	14.3	12.9	10.0	6.5	2.9	0.8	0.0	0.0	0.0	0.0
77.5°	10.8	12.2	12.2	10.0	6.5	2.2	0.0	0.0	0.0	0.0	0.0
80°	8.6	9.3	10.0	9.3	5.7	2.9	0.0	0.0	0.0	0.0	0.0
82.5°	10.8	12.2	13.6	12.2	7.9	3.6	1.4	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	2.2	0.8	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	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°	1845.2	1845.2	1845.2	1845.2	1845.2	1845.2	1845.2	1845.2	1845.2	1845.2	1845.2
2.5°	1568.9	1553.2	1575.3	1542.4	1541.6	1542.4	1533.1	1524.5	1538.1	1574.6	1578.2
5°	1197.4	1231.1	1241.8	1276.9	1257.5	1228.9	1234.7	1215.3	1262.5	1283.3	1266.8
7.5°	871.8	869.6	941.9	946.2	955.5	956.2	954.8	916.9	878.2	886.8	912.6
10°	676.3	639.8	674.9	671.4	694.2	687.9	697.1	656.3	669.9	669.9	686.4
12.5°	551.1	512.4	506.0	496.7	506.0	509.6	513.2	505.3	528.2	538.9	550.4
15°	420.8	399.4	393.7	375.8	378.6	388.6	397.2	400.8	393.7	410.1	411.6
17.5°	305.6	304.9	308.5	307.7	304.9	302.8	302.0	292.8	289.9	291.3	297.0
20°	231.9	237.6	249.8	262.0	268.4	260.5	249.8	234.1	227.6	229.0	229.8
22.5°	198.2	206.9	223.3	236.9	243.4	229.0	209.7	196.1	193.3	192.5	191.8
25°	179.6	189.6	201.8	206.1	205.4	196.8	182.5	176.8	175.3	173.9	167.4
27.5°	169.6	173.2	175.3	180.4	182.5	176.8	173.2	164.6	163.2	163.2	158.9
30°	163.9	161.7	164.6	161.1	163.9	159.6	160.3	160.3	156.8	158.2	158.2
32.5°	152.5	153.1	153.1	146.0	148.2	143.1	148.2	152.5	153.1	153.9	159.6
35°	111.7	124.6	130.9	130.9	133.1	129.5	128.8	123.8	117.4	110.9	108.1
37.5°	98.1	103.1	111.7	116.6	120.3	117.4	110.9	103.1	99.5	96.6	93.8
40°	87.3	91.6	97.3	103.1	110.3	106.6	96.6	93.0	88.7	88.7	85.9
42.5°	78.7	80.9	84.4	93.0	100.9	93.8	86.6	83.8	81.6	80.9	80.1
45°	70.9	71.6	75.2	82.3	91.6	84.4	77.3	73.8	74.4	75.2	74.4
47.5°	63.7	65.1	67.3	75.9	81.6	78.0	70.1	68.0	68.0	68.0	68.7
50°	55.1	58.7	63.0	70.1	74.4	72.3	65.9	63.0	61.6	61.6	62.2
52.5°	49.4	52.2	57.9	66.5	72.3	68.7	62.2	57.9	55.1	54.4	55.8
55°	43.0	47.9	57.3	63.7	71.6	68.0	60.8	55.8	50.8	50.1	50.1
57.5°	38.7	46.5	55.1	63.0	69.5	66.5	60.8	54.4	47.9	47.3	47.3
60°	36.5	45.1	53.7	60.8	69.5	65.1	60.1	53.0	45.8	45.8	45.1
62.5°	34.4	42.2	50.8	57.9	66.5	63.0	57.9	50.8	43.6	43.6	42.2
65°	28.6	36.5	42.2	48.7	57.9	54.4	49.4	44.4	38.7	37.3	37.9
67.5°	20.0	25.1	30.8	37.3	43.0	41.5	39.4	35.8	30.8	30.0	29.4
70°	10.0	13.6	18.6	25.1	30.0	28.6	27.2	24.3	21.4	20.8	20.8
72.5°	1.4	4.3	7.9	11.4	15.7	16.5	15.7	15.1	14.3	13.6	14.3
75°	0.0	0.0	0.0	2.9	6.5	7.9	9.3	10.8	10.8	9.3	11.4
77.5°	0.0	0.0	0.0	0.0	0.8	3.6	7.1	9.3	11.4	10.0	13.6
80°	0.0	0.0	0.0	0.0	0.8	4.3	7.1	10.0	11.4	10.0	14.3
82.5°	0.0	0.0	0.0	0.0	0.8	5.0	7.1	9.3	10.8	10.0	12.9
85°	0.0	0.0	0.0	0.0	2.2	4.3	2.9	1.4	0.8	0.8	2.2
87.5°	0.0	0.0	0.0	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):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	1845.2	1845.2	1845.2	1845.2	1845.2	1845.2	1845.2	1845.2	1845.2	1845.2
2.5°	1598.2	1649.0	1703.4	1724.2	1788.6	1837.2	1870.2	1941.0	1951.8	1952.5
5°	1284.0	1309.8	1402.8	1446.5	1542.4	1616.8	1696.3	1810.8	1887.4	1893.1
7.5°	912.6	984.1	1023.5	1137.3	1255.4	1372.1	1490.2	1623.3	1712.0	1714.1
10°	734.4	780.9	851.0	936.2	1035.7	1154.4	1312.0	1466.5	1556.7	1578.9
12.5°	591.2	672.8	752.9	841.0	916.9	1006.3	1176.0	1382.1	1456.5	1500.8
15°	455.2	529.7	624.1	727.2	813.1	932.6	1125.8	1361.3	1486.6	1501.6
17.5°	335.6	402.3	489.5	586.9	715.7	885.3	1134.4	1466.5	1584.6	1609.7
20°	241.2	279.9	348.6	461.6	625.5	830.2	1143.0	1573.2	1752.8	1795.8
22.5°	191.1	206.9	252.0	352.1	524.6	772.3	1203.9	1777.1	1984.0	2046.2
25°	166.0	174.7	196.1	277.7	461.0	766.6	1301.2	2021.9	2291.7	2336.9
27.5°	160.3	161.7	180.4	254.8	426.6	728.6	1338.5	2195.9	2483.6	2529.4
30°	168.9	191.8	193.3	215.5	362.9	653.5	1357.7	2364.1	2646.0	2679.7
32.5°	146.0	138.8	143.9	166.8	319.2	609.8	1394.2	2510.8	2831.4	2855.0
35°	101.6	106.6	118.1	144.6	279.1	564.0	1403.5	2672.5	3007.5	3031.8
37.5°	93.8	96.6	106.0	123.1	245.5	538.2	1390.7	2790.6	3190.0	3223.6
40°	87.3	90.9	95.9	111.7	220.4	509.6	1372.8	2897.2	3301.7	3384.7
42.5°	82.3	85.2	89.5	106.6	199.0	481.0	1347.7	3047.5	3401.8	3474.2
45°	76.6	80.9	85.9	103.8	186.8	461.6	1329.1	3038.3	3459.8	3498.5
47.5°	70.9	78.0	83.8	96.6	183.3	452.4	1336.9	3003.2	3412.6	3386.1
50°	65.1	74.4	84.4	80.1	174.7	433.7	1346.3	3051.1	3300.3	3295.2
52.5°	60.1	70.9	78.7	65.9	155.3	415.9	1436.4	3114.1	3379.6	3313.1
55°	53.0	63.7	63.0	53.0	126.0	402.3	1507.3	3115.6	3326.0	3351.0
57.5°	47.9	56.5	49.4	44.4	93.0	336.4	1392.1	2612.4	2847.2	2891.5
60°	44.4	55.1	37.3	35.1	60.8	242.6	1215.3	2023.4	2263.1	2346.9
62.5°	40.8	52.2	29.4	28.6	42.2	172.5	999.2	1693.4	1950.4	2064.2
65°	35.8	37.3	23.6	22.2	30.0	93.0	608.4	1165.9	1458.0	1500.2
67.5°	29.4	28.6	19.3	17.9	20.0	45.1	268.4	584.1	845.3	916.1
70°	23.6	23.6	16.5	14.3	14.3	20.8	70.1	232.6	382.2	423.0
72.5°	17.2	17.9	12.9	11.4	10.8	10.0	11.4	46.5	100.2	128.1
75°	15.1	15.7	12.9	10.0	7.9	6.5	5.0	4.3	5.7	9.3
77.5°	16.5	16.5	13.6	9.3	7.1	5.0	2.9	1.4	1.4	0.8
80°	20.8	21.4	17.9	12.2	8.6	5.7	3.6	1.4	0.8	0.8
82.5°	22.2	24.3	20.0	15.1	10.8	6.5	3.6	0.8	0.0	0.0
85°	5.7	9.3	15.7	13.6	10.8	6.5	3.6	0.8	0.0	0.0
87.5°	0.0	0.8	2.2	2.2	2.9	2.9	2.2	0.8	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

(END OF REPORT)