

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: P458669

Luminaire Tested: **GALN-SA2B-735-U-SL4**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P458669  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-18)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA2B-735-U-SL4  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL  
LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 10434 lumens  
Efficiency: N/A  
Efficacy: 127.2 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G3

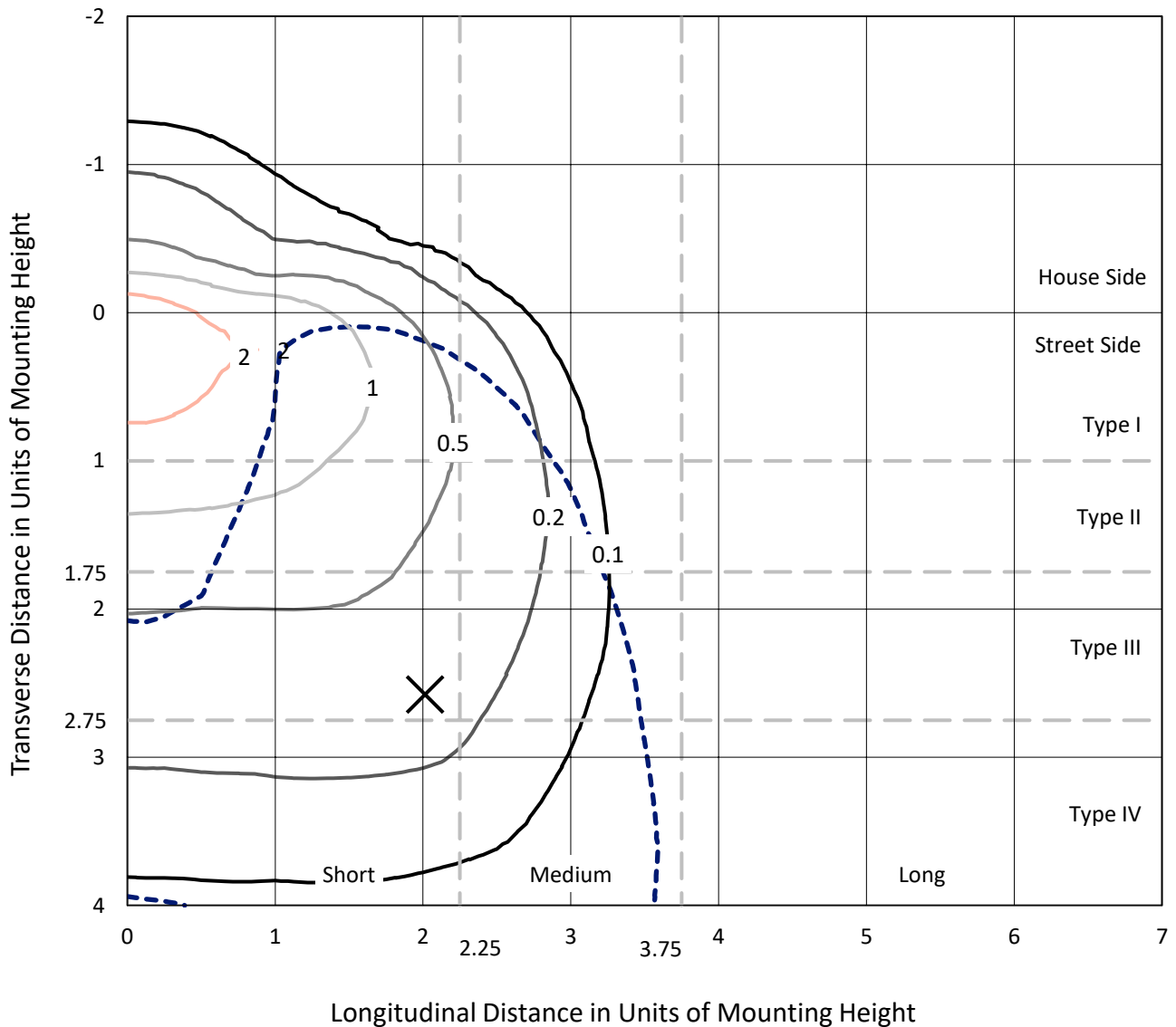
Input Watts (W): 82  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

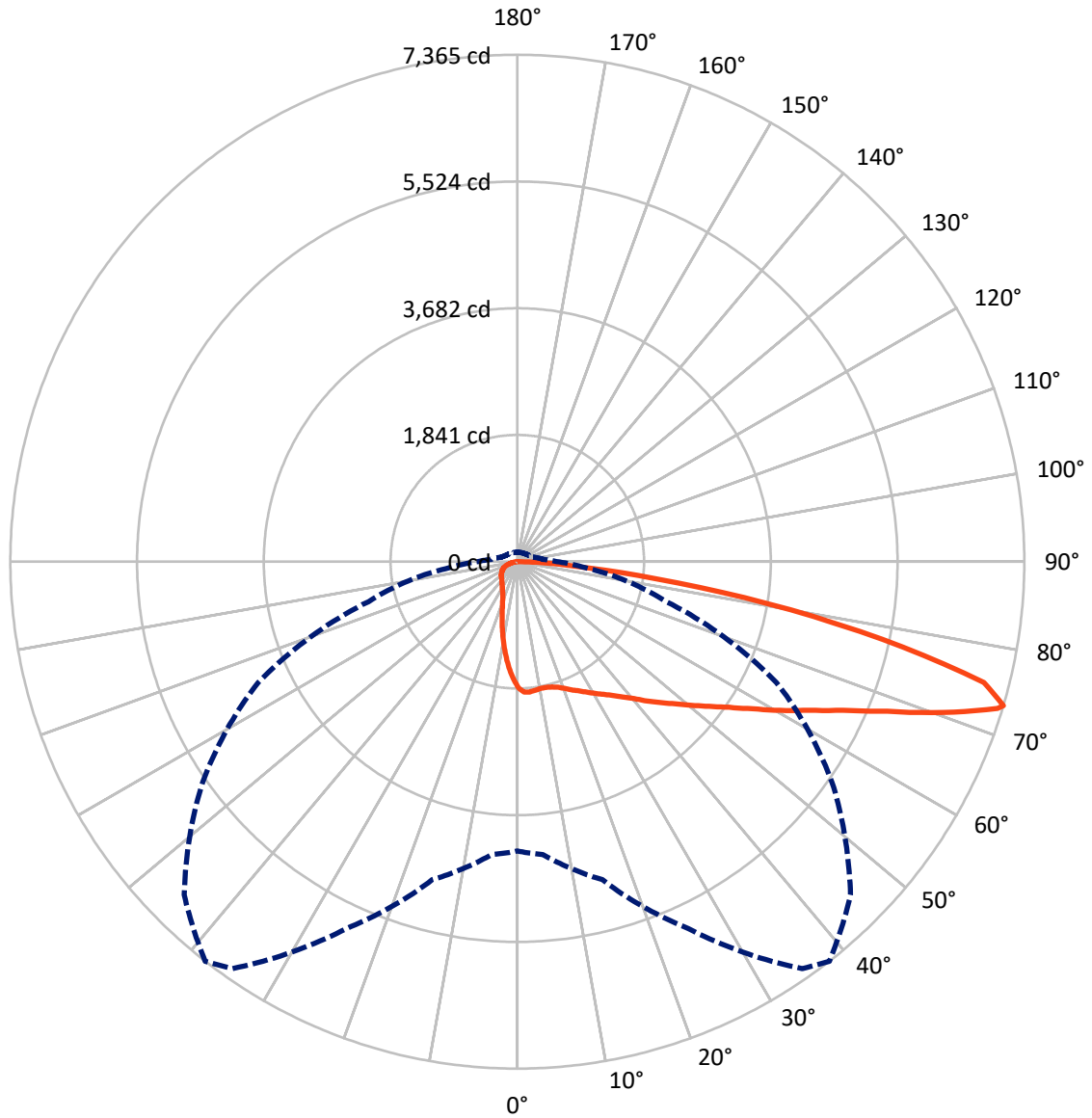
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral    - - - Horizontal Cone Through 73-Deg Vertical

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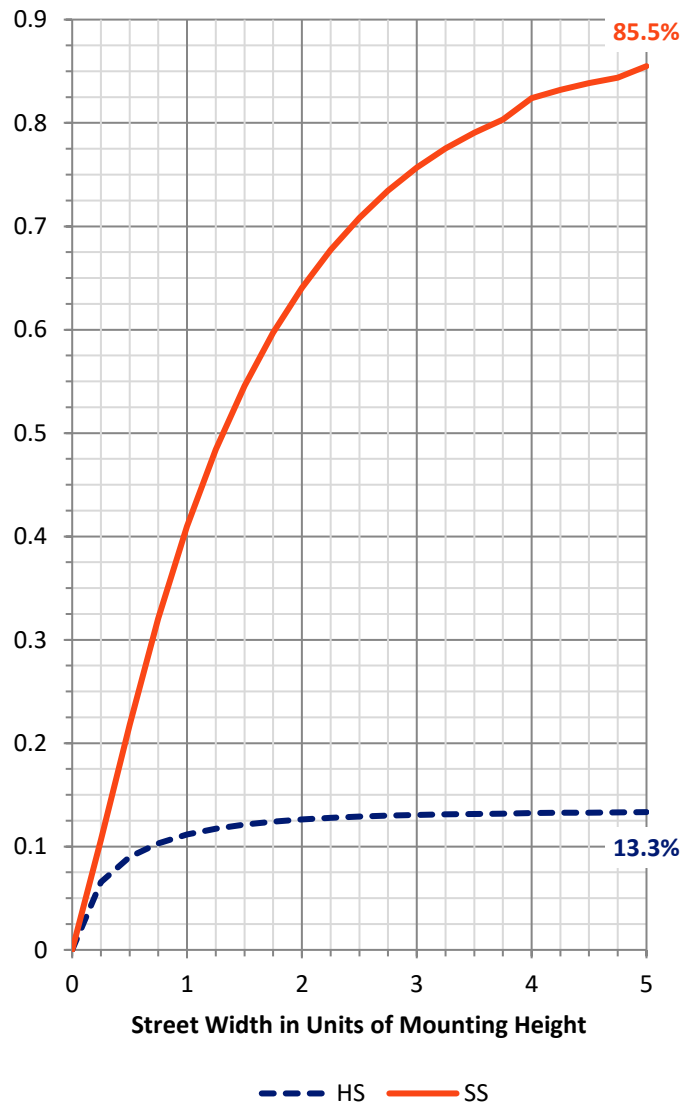
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1402.6	0.0	1402.6
	% Fixture	13.4	0.0	13.4
<b>Street Side</b>	Lumens	9031.4	0.0	9031.4
	% Fixture	86.6	0.0	86.6
<b>Total</b>	Lumens	10434.0	0.0	10434.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	160.0	1.5
10°-20°	410.3	3.9
20°-30°	638.9	6.1
30°-40°	937.2	9.0
40°-50°	1390.2	13.3
50°-60°	1969.6	18.9
60°-70°	2498.5	23.9
70°-80°	2079.8	19.9
80°-90°	349.4	3.3
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°	10434.0	100.0
0°-180°	10434.0	100.0

**Coefficient of Utilization**



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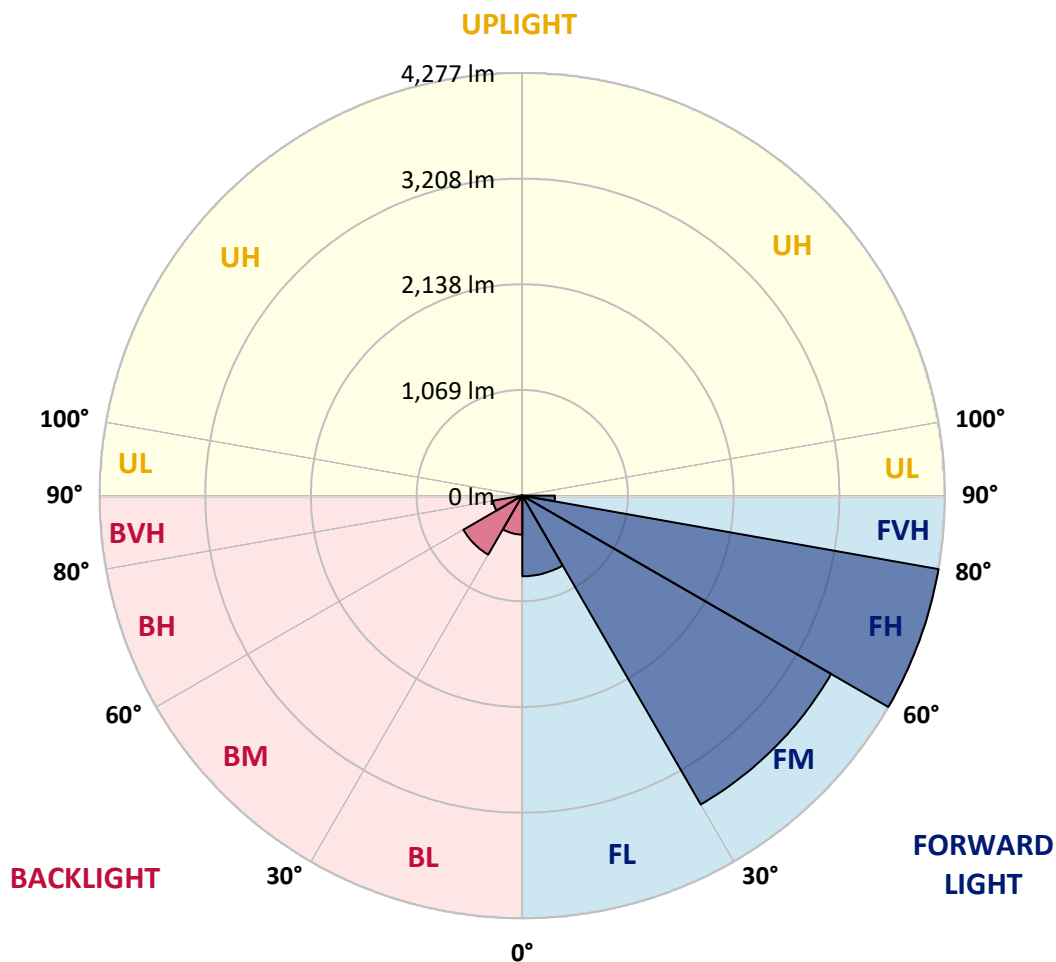
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	815.7	7.8			
FM (30°-60°)	3608.4	34.6			
FH (60°-80°)	4276.9	41.0			G2/5000
FVH (80°-90°)	330.5	3.2			G3/500
BL (0°-30°)	393.6	3.8	B1/500		
BM (30°-60°)	688.6	6.6	B1/1000		
BH (60°-80°)	301.5	2.9	B1/500		G1/500
BVH (80°-90°)	18.9	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G3**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	1833.1	1833.1	1833.1	1833.1	1833.1	1833.1	1833.1	1833.1	1833.1	1833.1	1833.1
2.5°	1906.7	1916.2	1911.4	1905.0	1900.8	1896.7	1890.8	1873.7	1860.2	1845.5	1822.5
5°	1920.9	1926.8	1922.6	1914.4	1905.0	1900.8	1889.6	1867.3	1845.5	1820.7	1786.5
7.5°	1912.6	1915.0	1910.3	1900.2	1892.0	1884.3	1871.4	1846.6	1820.1	1790.1	1745.3
10°	1883.2	1892.0	1892.0	1883.8	1875.5	1871.4	1858.4	1834.8	1810.7	1776.5	1723.5
12.5°	1859.0	1868.4	1876.1	1873.7	1873.1	1873.1	1863.1	1845.5	1817.2	1784.8	1721.7
15°	1842.5	1853.7	1870.2	1879.6	1885.5	1887.3	1883.2	1867.8	1839.0	1801.3	1728.8
17.5°	1839.0	1852.5	1882.6	1903.2	1918.5	1917.9	1916.7	1895.5	1863.7	1824.8	1737.6
20°	1854.9	1872.6	1914.4	1946.8	1969.2	1965.1	1958.6	1930.9	1893.8	1850.2	1745.9
22.5°	1902.6	1920.9	1966.8	2002.2	2024.0	2024.0	2004.5	1968.0	1928.5	1879.6	1757.1
25°	1971.0	1991.0	2039.9	2075.8	2085.9	2078.2	2058.7	2014.6	1969.2	1922.0	1780.6
27.5°	2054.6	2078.8	2124.2	2154.2	2151.3	2145.4	2125.3	2068.8	2023.4	1980.4	1820.7
30°	2158.9	2176.6	2223.7	2230.8	2220.2	2219.0	2190.7	2134.2	2091.7	2058.7	1877.9
32.5°	2257.3	2273.2	2310.9	2313.9	2295.0	2297.4	2270.9	2219.0	2194.9	2183.1	1973.9
35°	2361.6	2369.9	2402.3	2398.7	2386.4	2384.6	2374.0	2324.5	2332.1	2353.4	2110.0
37.5°	2448.8	2465.3	2483.6	2486.5	2485.9	2491.8	2498.9	2475.3	2519.5	2586.1	2288.5
40°	2529.0	2543.1	2570.2	2579.6	2602.6	2614.4	2638.5	2639.1	2741.1	2850.7	2508.3
42.5°	2583.2	2607.3	2658.0	2675.1	2731.1	2766.4	2802.4	2840.7	2988.5	3129.4	2767.6
45°	2630.3	2662.1	2746.4	2799.4	2875.4	2918.4	2994.4	3074.6	3287.3	3471.7	3031.0
47.5°	2701.6	2729.9	2826.5	2920.2	3035.1	3084.6	3198.3	3317.9	3596.0	3798.1	3283.2
50°	2800.6	2817.7	2916.1	3068.7	3215.4	3279.0	3429.3	3601.9	3926.0	4120.4	3504.7
52.5°	2927.3	2934.3	3012.7	3216.0	3409.3	3488.2	3687.4	3888.9	4214.7	4400.3	3680.3
55°	3076.9	3065.1	3126.4	3372.1	3630.8	3733.9	3947.8	4179.4	4539.4	4626.6	3808.2
57.5°	3224.8	3206.6	3255.5	3561.9	3904.2	4028.5	4277.8	4478.7	4829.3	4838.1	3897.7
60°	3381.6	3368.0	3426.3	3784.6	4239.5	4386.8	4617.2	4789.2	5109.8	4985.4	3911.9
62.5°	3542.4	3520.6	3603.7	4035.0	4617.2	4750.9	4974.2	5119.2	5384.9	5040.2	3775.7
65°	3698.6	3688.5	3817.0	4332.6	5047.3	5199.3	5416.2	5514.6	5605.3	4957.7	3438.1
67.5°	3864.7	3884.8	4089.8	4729.7	5608.2	5799.1	6033.1	5940.6	5668.3	4567.1	2895.4
70°	4118.1	4131.1	4448.1	5250.0	6331.2	6561.6	6674.7	6092.0	5364.3	3825.2	2176.6
72.5°	4227.1	4284.3	4768.0	5796.2	7152.6	7293.4	6890.4	5754.4	4468.7	2598.5	1143.7
73°	4202.9	4271.3	4782.7	5879.3	7216.8	7364.7	6844.4	5580.5	4154.0	2237.9	980.5
75°	3901.8	3986.1	4591.2	5809.8	7091.9	7003.5	6105.5	4756.2	2807.1	1017.6	446.6
77.5°	3078.7	3102.9	3637.9	4691.4	5584.7	5420.9	4569.4	2972.6	1146.6	378.3	253.4
80°	1544.4	1633.3	2050.5	2687.5	3734.5	3680.9	2884.3	1405.9	477.9	222.1	167.9
82.5°	743.0	806.1	998.7	1310.4	2063.5	2014.6	1428.3	768.3	303.5	129.6	99.0
85°	478.5	525.6	635.8	625.2	848.5	810.2	641.7	581.6	179.7	67.8	68.9
87.5°	315.8	345.9	414.8	331.7	308.8	279.3	283.4	327.6	35.4	25.9	9.4
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°	1833.1	1833.1	1833.1	1833.1	1833.1	1833.1	1833.1	1833.1	1833.1	1833.1	1833.1
2.5°	1813.0	1805.4	1780.0	1755.3	1731.7	1709.3	1694.6	1675.2	1662.2	1665.7	1671.0
5°	1767.7	1750.6	1705.8	1662.2	1621.0	1572.1	1532.6	1500.8	1476.6	1467.8	1466.0
7.5°	1719.9	1691.1	1626.8	1552.0	1481.9	1421.2	1351.1	1316.3	1275.7	1261.5	1256.8
10°	1691.1	1652.2	1562.0	1457.7	1352.3	1251.5	1175.5	1113.6	1057.7	1047.1	1041.7
12.5°	1682.8	1631.6	1510.2	1375.8	1235.6	1111.9	999.3	918.0	863.8	851.4	833.2
15°	1678.1	1614.5	1461.9	1293.3	1115.4	964.6	846.1	751.3	701.8	668.8	669.4
17.5°	1674.0	1595.0	1407.7	1203.2	1011.7	837.9	707.1	621.6	576.3	558.6	556.8
20°	1668.1	1572.1	1345.2	1108.3	893.3	722.4	604.0	540.3	509.7	494.9	494.4
22.5°	1665.7	1549.7	1283.9	1011.7	788.4	633.4	535.6	490.8	471.4	461.4	461.4
25°	1671.6	1533.8	1219.7	919.8	695.3	557.4	488.5	457.8	446.6	441.3	439.6
27.5°	1689.9	1526.7	1156.1	827.9	609.8	505.6	456.6	435.4	427.2	423.1	423.7
30°	1724.7	1526.1	1093.6	737.1	546.2	466.1	431.3	416.6	410.1	407.7	407.2
32.5°	1780.6	1539.1	1032.3	662.3	492.6	433.1	407.7	397.1	394.2	392.4	391.8
35°	1875.5	1575.6	971.6	593.9	451.3	403.6	385.4	380.0	375.9	377.7	378.3
37.5°	2003.4	1638.6	913.9	540.3	420.1	381.8	366.5	361.8	359.4	361.2	363.0
40°	2174.8	1729.4	865.6	497.3	397.7	363.6	350.0	345.9	343.5	346.5	347.1
42.5°	2364.0	1834.3	825.5	463.7	379.5	348.2	335.3	330.6	328.8	330.6	331.1
45°	2558.4	1956.2	804.9	439.6	364.1	337.0	323.5	318.2	314.1	312.9	314.6
47.5°	2749.9	2062.3	804.3	424.8	351.8	327.0	312.3	306.4	301.1	298.1	297.6
50°	2906.1	2146.5	818.4	418.3	341.2	315.8	301.1	295.2	288.1	282.2	283.4
52.5°	3023.9	2201.3	824.9	415.4	335.3	304.0	289.3	284.0	275.8	268.1	268.1
55°	3099.9	2214.3	809.0	412.5	330.6	291.7	275.8	271.0	262.8	255.1	255.1
57.5°	3125.8	2174.2	751.9	405.4	325.8	281.1	262.2	258.1	251.6	243.9	242.8
60°	3065.7	2038.7	651.7	384.2	316.4	269.9	247.5	245.7	243.3	236.9	236.3
62.5°	2834.2	1751.2	542.7	356.5	300.5	258.1	233.9	236.9	238.6	235.1	234.5
65°	2448.8	1421.8	463.7	318.2	279.3	241.6	219.2	226.9	231.6	231.6	230.4
67.5°	1986.3	1091.8	390.7	285.2	252.8	219.2	202.7	208.6	212.1	210.9	213.9
70°	1411.8	739.5	318.2	247.5	219.2	193.9	181.5	181.5	179.1	177.9	177.9
72.5°	684.7	422.5	258.1	206.8	186.8	165.6	155.6	151.4	146.7	146.1	143.2
73°	572.1	378.9	246.3	199.2	179.1	161.4	150.3	143.8	140.8	138.5	137.9
75°	348.2	287.5	205.6	167.9	152.6	139.1	129.0	123.1	120.2	118.4	117.8
77.5°	229.2	214.5	159.7	128.5	116.7	108.4	104.3	98.4	96.6	94.3	94.3
80°	170.9	163.8	114.3	90.7	83.7	76.6	75.4	74.2	69.5	66.6	65.4
82.5°	110.2	116.7	77.8	60.7	53.0	47.1	47.7	49.5	44.8	40.7	39.5
85°	78.4	84.3	47.1	27.7	22.4	19.4	21.8	19.4	20.0	15.9	13.0
87.5°	13.0	22.4	8.2	3.5	1.8	1.2	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

(END OF REPORT)