

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: P451390

Luminaire Tested: **GALN-SA2B-730-U-SL4**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P451390  
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-730-U-SL4  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 3000K, 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: 10201 lumens  
Efficiency: N/A  
Efficacy: 124.4 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G3

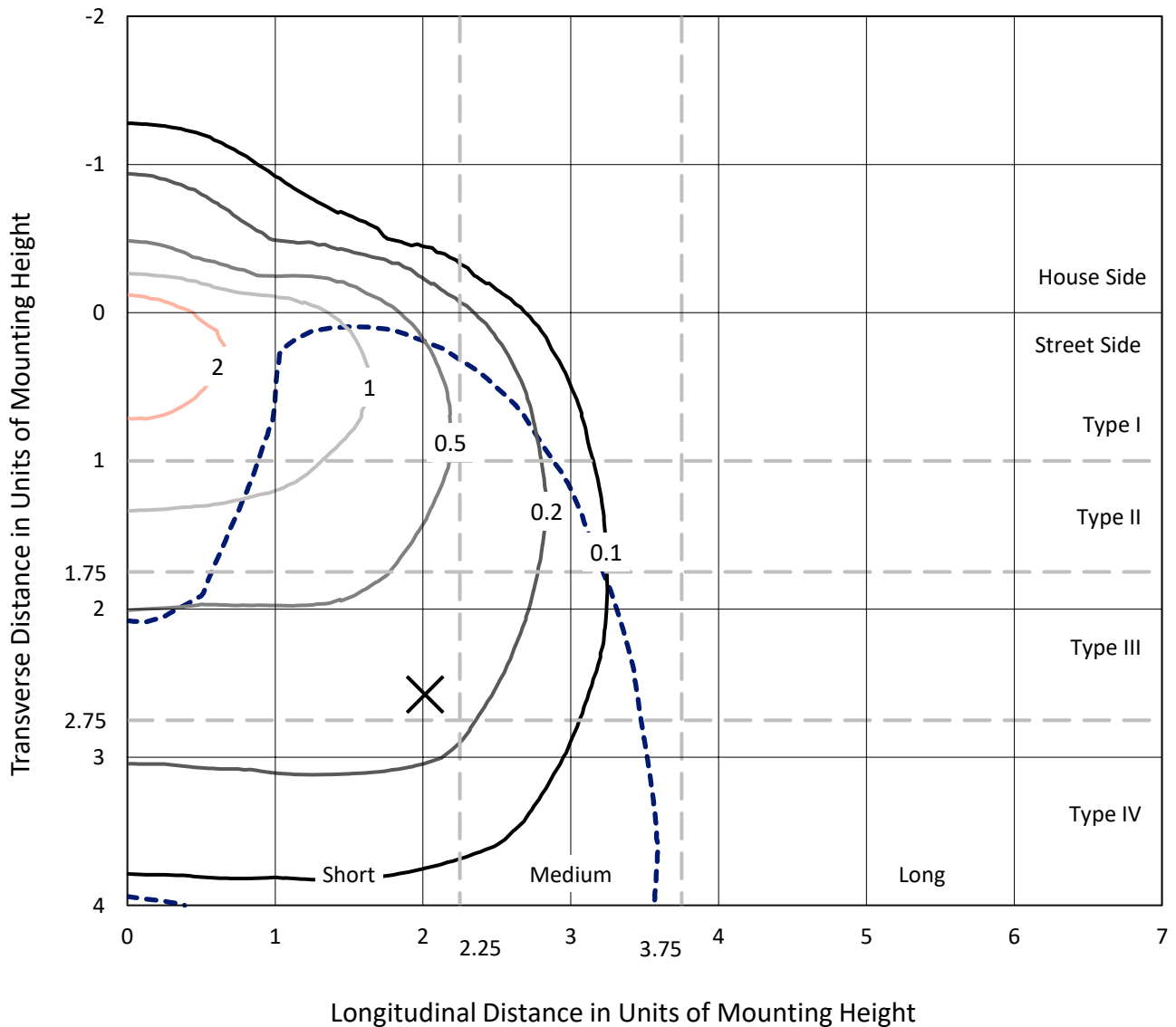
Input Watts (W): 82  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

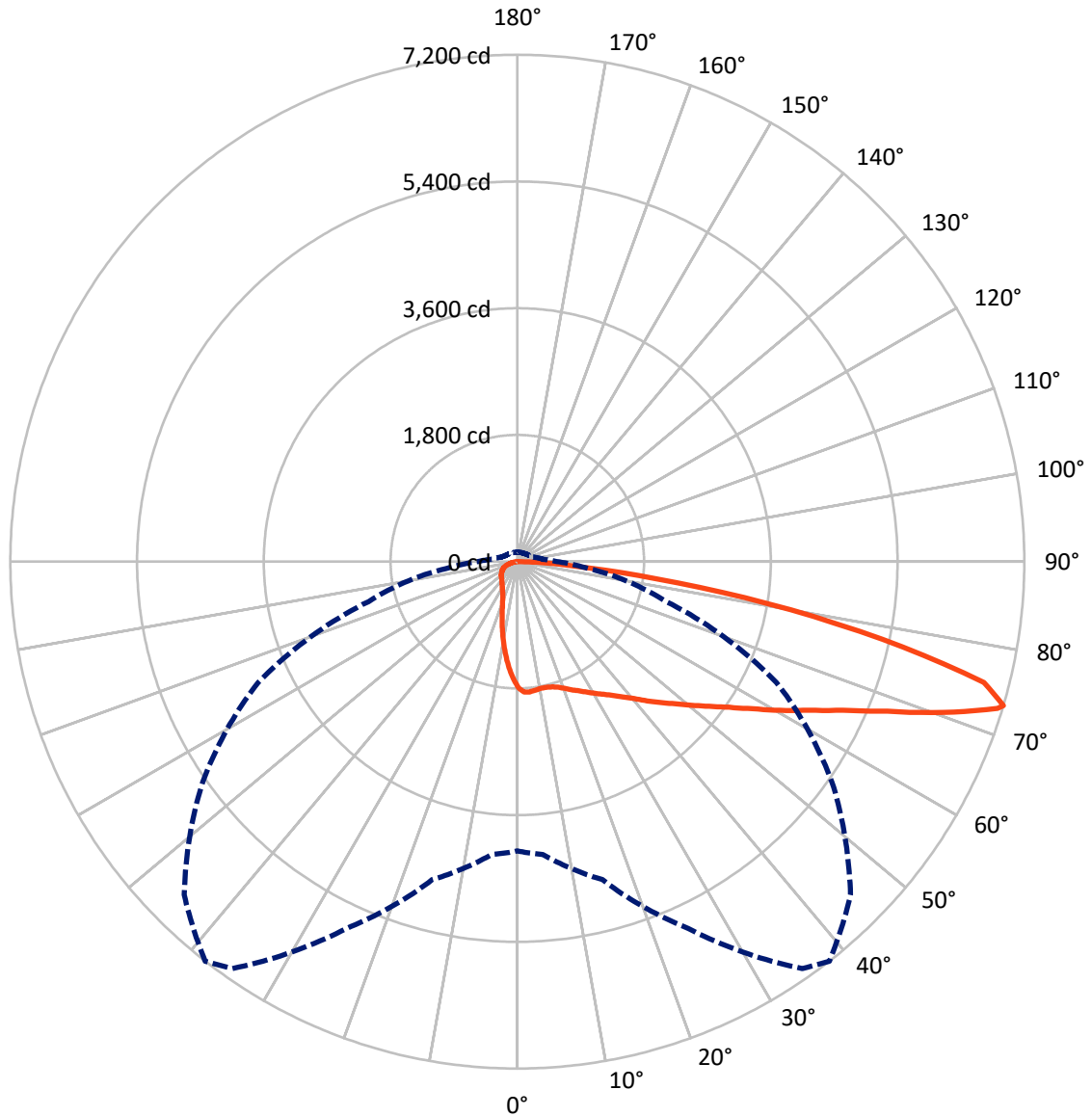
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.9 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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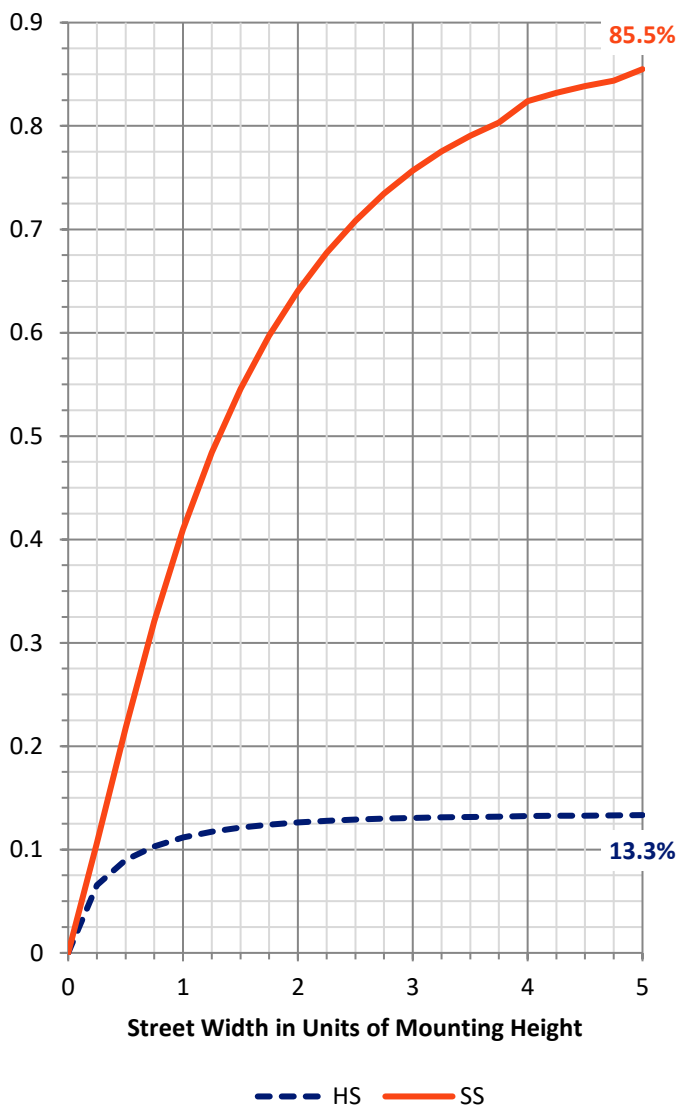
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1371.3	0.0	1371.3
	% Fixture	13.4	0.0	13.4
<b>Street Side</b>	Lumens	8829.7	0.0	8829.7
	% Fixture	86.6	0.0	86.6
<b>Total</b>	Lumens	10201.0	0.0	10201.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	156.4	1.5
10°-20°	401.1	3.9
20°-30°	624.7	6.1
30°-40°	916.2	9.0
40°-50°	1359.1	13.3
50°-60°	1925.6	18.9
60°-70°	2442.7	23.9
70°-80°	2033.4	19.9
80°-90°	341.6	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°	10201.0	100.0
0°-180°	10201.0	100.0

**Coefficient of Utilization**



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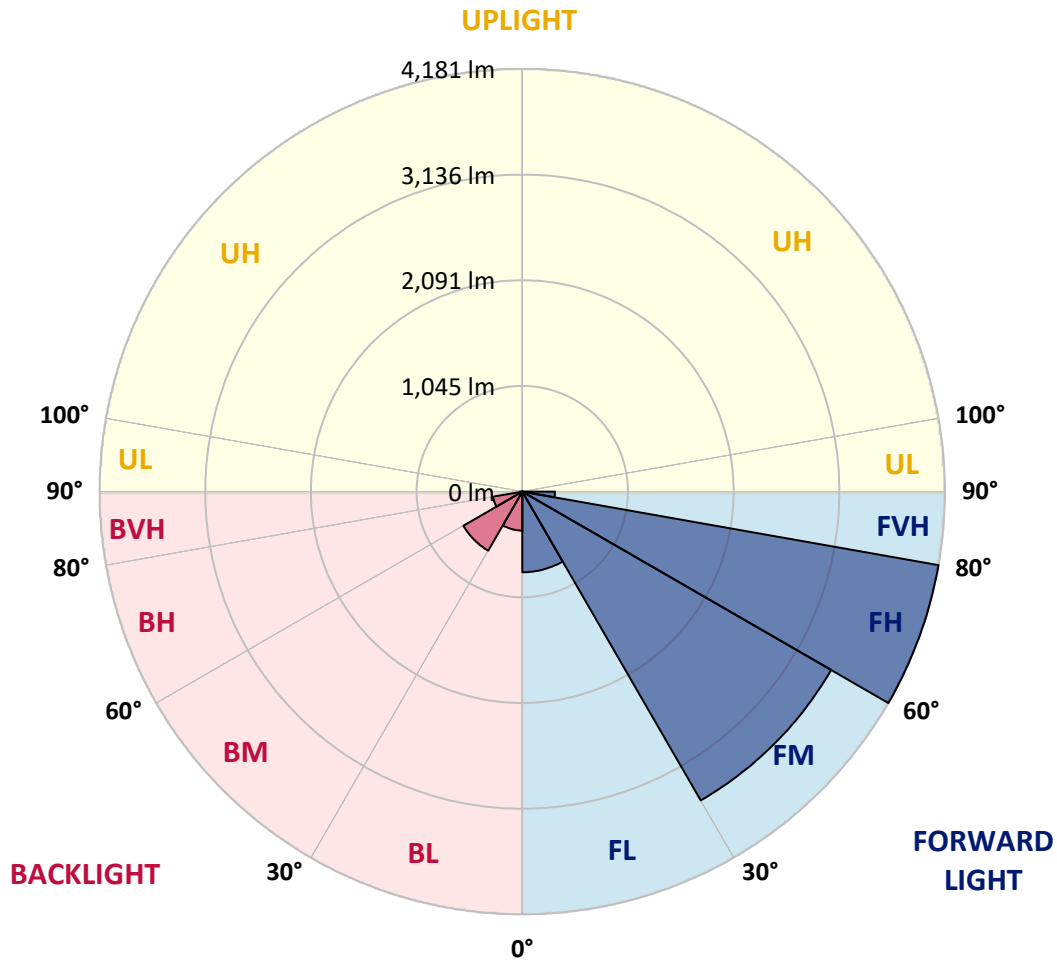
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	797.4	7.8			
FM	(30°-60°)	3527.8	34.6			
FH	(60°-80°)	4181.4	41.0			G2/5000
FVH	(80°-90°)	323.1	3.2			G3/500
BL	(0°-30°)	384.8	3.8	B1/500		
BM	(30°-60°)	673.2	6.6	B1/1000		
BH	(60°-80°)	294.8	2.9	B1/500		G1/500
BVH	(80°-90°)	18.5	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°	1792.1	1792.1	1792.1	1792.1	1792.1	1792.1	1792.1	1792.1	1792.1	1792.1	1792.1
2.5°	1864.2	1873.4	1868.8	1862.4	1858.4	1854.4	1848.6	1831.9	1818.6	1804.2	1781.8
5°	1878.0	1883.7	1879.7	1871.6	1862.4	1858.4	1847.4	1825.6	1804.2	1780.0	1746.6
7.5°	1869.9	1872.2	1867.6	1857.8	1849.7	1842.3	1829.6	1805.4	1779.5	1750.1	1706.3
10°	1841.1	1849.7	1849.7	1841.7	1833.6	1829.6	1816.9	1793.9	1770.3	1736.8	1685.0
12.5°	1817.5	1826.7	1834.2	1831.9	1831.3	1831.3	1821.5	1804.2	1776.6	1744.9	1683.3
15°	1801.4	1812.3	1828.4	1837.7	1843.4	1845.1	1841.1	1826.1	1797.9	1761.0	1690.2
17.5°	1797.9	1811.2	1840.5	1860.7	1875.7	1875.1	1873.9	1853.2	1822.1	1784.1	1698.8
20°	1813.5	1830.7	1871.6	1903.3	1925.2	1921.2	1914.8	1887.8	1851.5	1808.8	1706.9
22.5°	1860.1	1878.0	1922.9	1957.5	1978.8	1978.8	1959.8	1924.1	1885.5	1837.7	1717.8
25°	1926.9	1946.5	1994.3	2029.5	2039.3	2031.8	2012.8	1969.6	1925.2	1879.1	1740.9
27.5°	2008.7	2032.4	2076.7	2106.1	2103.2	2097.5	2077.9	2022.6	1978.2	1936.2	1780.0
30°	2110.7	2128.0	2174.1	2181.0	2170.6	2169.5	2141.8	2086.5	2045.0	2012.8	1835.9
32.5°	2206.9	2222.5	2259.3	2262.2	2243.8	2246.1	2220.2	2169.5	2145.8	2134.3	1929.8
35°	2308.9	2316.9	2348.6	2345.2	2333.1	2331.3	2321.0	2272.6	2280.1	2300.8	2062.9
37.5°	2394.1	2410.3	2428.1	2431.0	2430.4	2436.2	2443.1	2420.1	2463.3	2528.4	2237.4
40°	2472.5	2486.3	2512.8	2522.0	2544.5	2556.0	2579.6	2580.2	2679.9	2787.0	2452.3
42.5°	2525.5	2549.1	2598.6	2615.3	2670.1	2704.6	2739.8	2777.2	2921.8	3059.5	2705.8
45°	2571.6	2602.7	2685.0	2736.9	2811.2	2853.3	2927.6	3005.9	3213.9	3394.2	2963.3
47.5°	2641.3	2668.9	2763.4	2855.0	2967.3	3015.7	3126.9	3243.8	3515.7	3713.3	3209.8
50°	2738.0	2754.7	2851.0	3000.2	3143.6	3205.8	3352.7	3521.5	3838.3	4028.4	3426.4
52.5°	2861.9	2868.8	2945.4	3144.2	3333.1	3410.3	3605.0	3802.0	4120.6	4302.1	3598.1
55°	3008.2	2996.7	3056.6	3296.8	3549.7	3650.5	3859.6	4086.0	4438.0	4523.3	3723.1
57.5°	3152.8	3135.0	3182.8	3482.3	3817.0	3938.6	4182.2	4378.7	4721.4	4730.1	3810.7
60°	3306.0	3292.8	3349.8	3700.1	4144.8	4288.8	4514.1	4682.3	4995.6	4874.1	3824.5
62.5°	3463.3	3442.0	3523.2	3944.9	4514.1	4644.8	4863.2	5004.9	5264.7	4927.7	3691.4
65°	3616.0	3606.2	3731.8	4235.8	4934.6	5083.2	5295.2	5391.4	5480.1	4847.0	3361.3
67.5°	3778.4	3798.0	3998.5	4624.1	5483.0	5669.6	5898.3	5807.9	5541.8	4465.1	2830.8
70°	4026.1	4038.8	4348.7	5132.8	6189.8	6415.1	6525.7	5956.0	5244.5	3739.8	2128.0
72.5°	4132.7	4188.6	4661.5	5666.8	6992.9	7130.6	6736.5	5625.9	4368.9	2540.5	1118.1
73°	4109.1	4175.9	4675.9	5748.0	7055.7	7200.3	6691.6	5455.9	4061.3	2187.9	958.6
75°	3814.7	3897.1	4488.7	5680.0	6933.5	6847.1	5969.2	4650.0	2744.4	994.9	436.7
77.5°	3009.9	3033.6	3556.6	4586.6	5460.0	5299.8	4467.4	2906.3	1121.0	369.8	247.7
80°	1509.9	1596.9	2004.7	2627.4	3651.1	3598.7	2819.8	1374.5	467.2	217.2	164.2
82.5°	726.4	788.1	976.4	1281.2	2017.4	1969.6	1396.4	751.2	296.7	126.7	96.8
85°	467.8	513.9	621.6	611.2	829.5	792.1	627.3	568.6	175.7	66.2	67.4
87.5°	308.8	338.2	405.6	324.3	301.9	273.1	277.1	320.3	34.6	25.3	9.2
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°	1792.1	1792.1	1792.1	1792.1	1792.1	1792.1	1792.1	1792.1	1792.1	1792.1	1792.1
2.5°	1772.6	1765.1	1740.3	1716.1	1693.1	1671.2	1656.8	1637.8	1625.1	1628.5	1633.7
5°	1728.2	1711.5	1667.7	1625.1	1584.8	1536.9	1498.3	1467.2	1443.6	1435.0	1433.3
7.5°	1681.5	1653.3	1590.5	1517.4	1448.8	1389.5	1320.9	1286.9	1247.2	1233.4	1228.7
10°	1653.3	1615.3	1527.2	1425.2	1322.1	1223.6	1149.3	1088.8	1034.0	1023.7	1018.5
12.5°	1645.2	1595.1	1476.5	1345.1	1208.0	1087.0	977.0	897.5	844.5	832.4	814.6
15°	1640.6	1578.4	1429.2	1264.5	1090.5	943.0	827.2	734.5	686.1	653.8	654.4
17.5°	1636.6	1559.4	1376.2	1176.3	989.1	819.2	691.3	607.8	563.4	546.1	544.4
20°	1630.8	1536.9	1315.2	1083.6	873.3	706.3	590.5	528.3	498.3	483.9	483.3
22.5°	1628.5	1515.1	1255.2	989.1	770.8	619.3	523.6	479.9	460.9	451.1	451.1
25°	1634.3	1499.5	1192.5	899.2	679.8	545.0	477.6	447.6	436.7	431.5	429.7
27.5°	1652.2	1492.6	1130.2	809.4	596.2	494.3	446.5	425.7	417.6	413.6	414.2
30°	1686.1	1492.0	1069.2	720.7	534.0	455.7	421.7	407.3	400.9	398.6	398.1
32.5°	1740.9	1504.7	1009.3	647.5	481.6	423.4	398.6	388.3	385.4	383.7	383.1
35°	1833.6	1540.4	949.9	580.7	441.3	394.6	376.7	371.6	367.5	369.3	369.8
37.5°	1958.6	1602.0	893.5	528.3	410.7	373.3	358.3	353.7	351.4	353.1	354.9
40°	2126.3	1690.8	846.2	486.2	388.8	355.4	342.2	338.2	335.8	338.7	339.3
42.5°	2311.2	1793.3	807.1	453.4	371.0	340.5	327.8	323.2	321.4	323.2	323.7
45°	2501.3	1912.5	786.9	429.7	356.0	329.5	316.3	311.1	307.0	305.9	307.6
47.5°	2688.5	2016.2	786.3	415.3	343.9	319.7	305.3	299.6	294.4	291.5	290.9
50°	2841.2	2098.6	800.2	409.0	333.5	308.8	294.4	288.6	281.7	275.9	277.1
52.5°	2956.4	2152.2	806.5	406.1	327.8	297.3	282.8	277.7	269.6	262.1	262.1
55°	3030.7	2164.9	790.9	403.2	323.2	285.2	269.6	265.0	256.9	249.4	249.4
57.5°	3056.0	2125.7	735.1	396.3	318.6	274.8	256.3	252.3	246.0	238.5	237.3
60°	2997.3	1993.2	637.1	375.6	309.3	263.8	241.9	240.2	237.9	231.6	231.0
62.5°	2770.9	1712.1	530.6	348.5	293.8	252.3	228.7	231.6	233.3	229.9	229.3
65°	2394.1	1390.0	453.4	311.1	273.1	236.2	214.3	221.8	226.4	226.4	225.2
67.5°	1941.9	1067.5	381.9	278.8	247.1	214.3	198.2	203.9	207.4	206.2	209.1
70°	1380.3	723.0	311.1	241.9	214.3	189.5	177.4	177.4	175.1	174.0	174.0
72.5°	669.4	413.0	252.3	202.2	182.6	161.9	152.1	148.0	143.4	142.9	140.0
73°	559.4	370.4	240.8	194.7	175.1	157.8	146.9	140.6	137.7	135.4	134.8
75°	340.5	281.1	201.0	164.2	149.2	136.0	126.2	120.4	117.5	115.8	115.2
77.5°	224.1	209.7	156.1	125.6	114.1	106.0	102.0	96.2	94.5	92.2	92.2
80°	167.1	160.1	111.8	88.7	81.8	74.9	73.7	72.6	68.0	65.1	63.9
82.5°	107.7	114.1	76.0	59.3	51.8	46.1	46.7	48.4	43.8	39.7	38.6
85°	76.6	82.4	46.1	27.1	21.9	19.0	21.3	19.0	19.6	15.6	12.7
87.5°	12.7	21.9	8.1	3.5	1.7	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)