

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: STREETWORKS

Report Number: P507728

Luminaire Tested: **VERD-S-CA1-80-730-U-T2-HSS**

Issue Date: 3/30/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P507728  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2103-168-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/30/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: VERD-S-CA1-80-730-U-T2-HSS  
Description: VERDEON-S ROADWAY AND AREA LUMINAIRE  
(1) 70 CRI, 3000K, 1500mA LED AND TYPE II OPTIC WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9859 lumens  
Efficiency: N/A  
Efficacy: 118.6 lumens/watt  
Luminous Opening: Rectangular (W 0.83' x L: 0.83' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G2

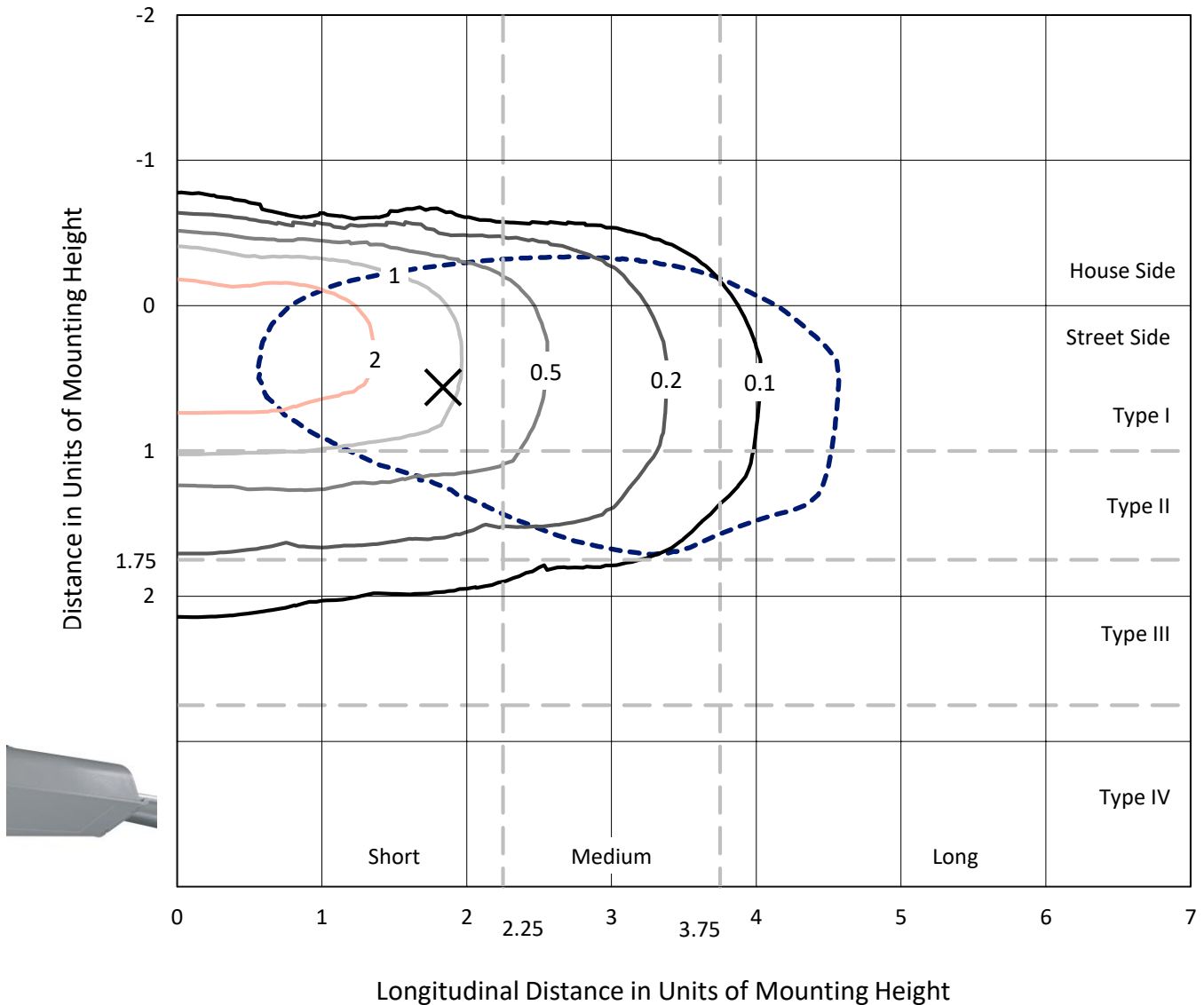
Input Watts (W): 83.1  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

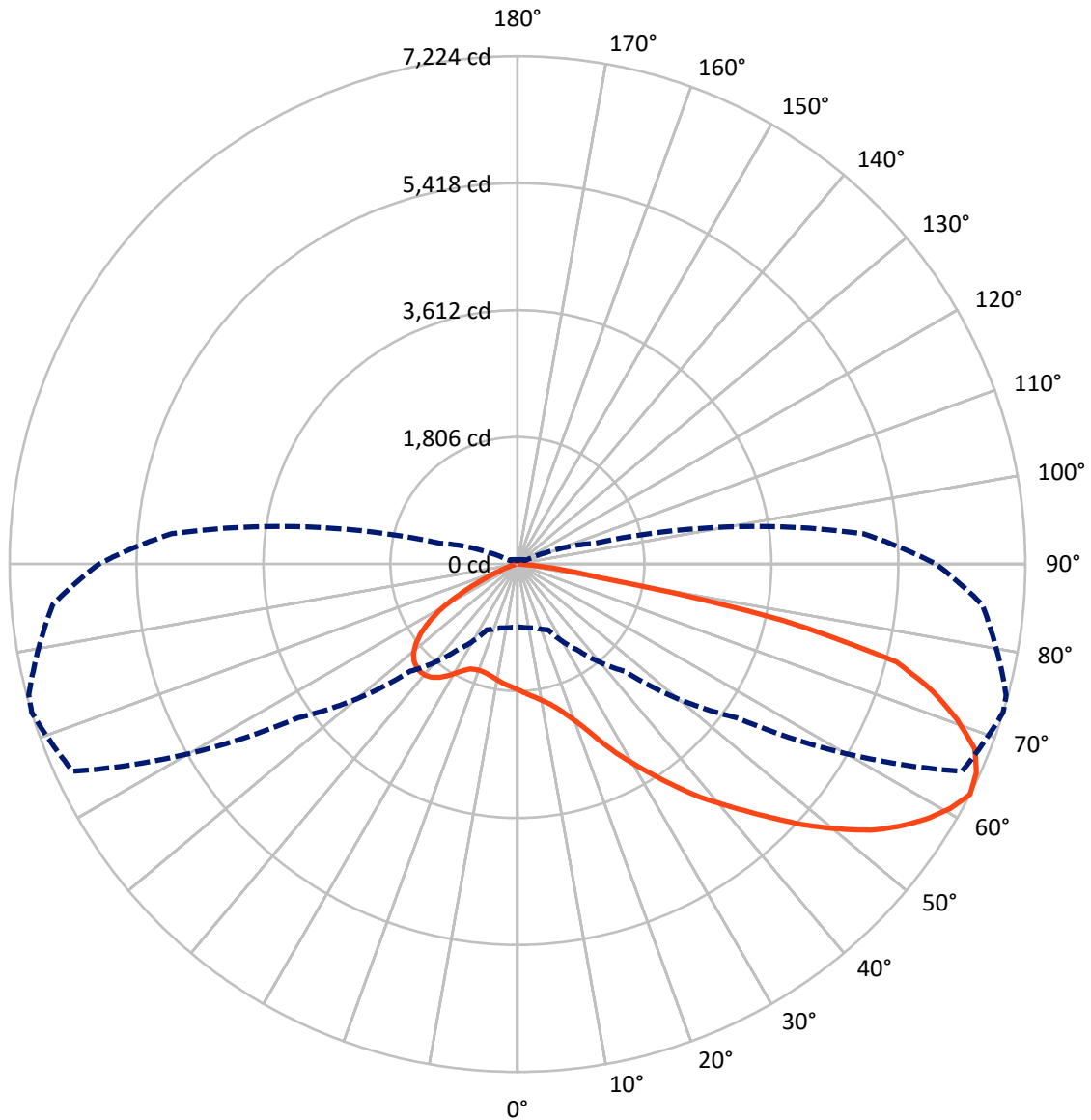
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.5 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 73-Deg Lateral    - - - Horizontal Cone Through 62.5-Deg Vertical

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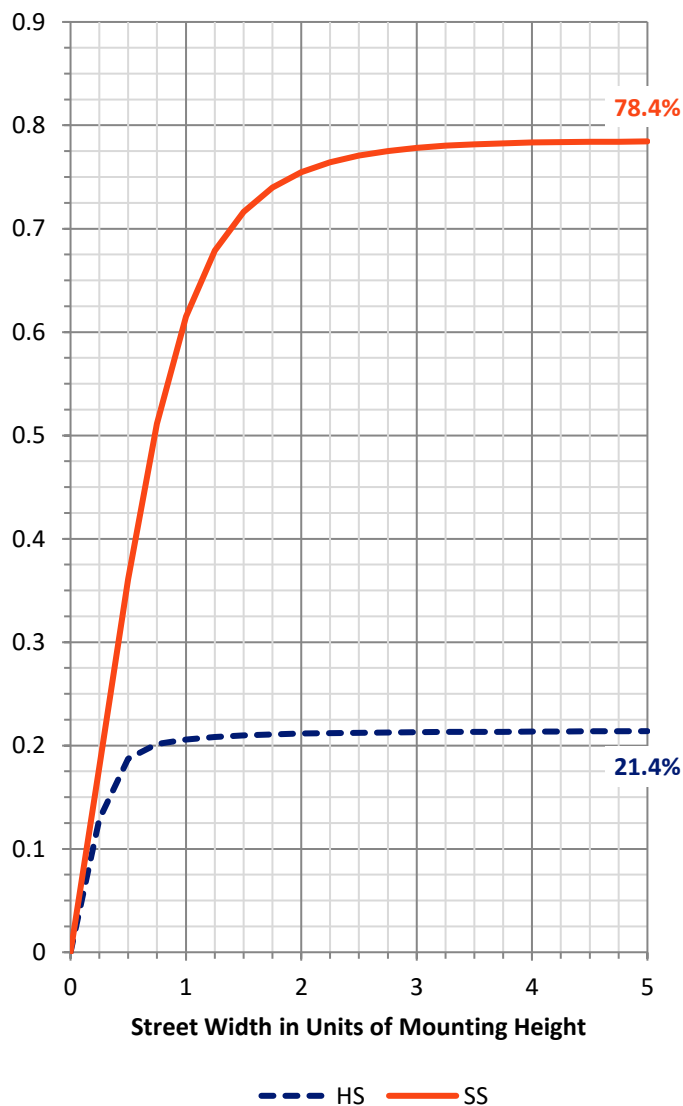
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2135.5	0.0	2135.5
	% Fixture	21.7	0.0	21.7
<b>Street Side</b>	Lumens	7723.5	0.0	7723.5
	% Fixture	78.3	0.0	78.3
<b>Total</b>	Lumens	9859.0	0.0	9859.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	171.3	1.7
10°-20°	515.6	5.2
20°-30°	891.9	9.0
30°-40°	1309.9	13.3
40°-50°	1702.6	17.3
50°-60°	1974.0	20.0
60°-70°	1986.7	20.2
70°-80°	1210.6	12.3
80°-90°	96.4	1.0
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°	9859.0	100.0
0°-180°	9859.0	100.0

**Coefficient of Utilization**



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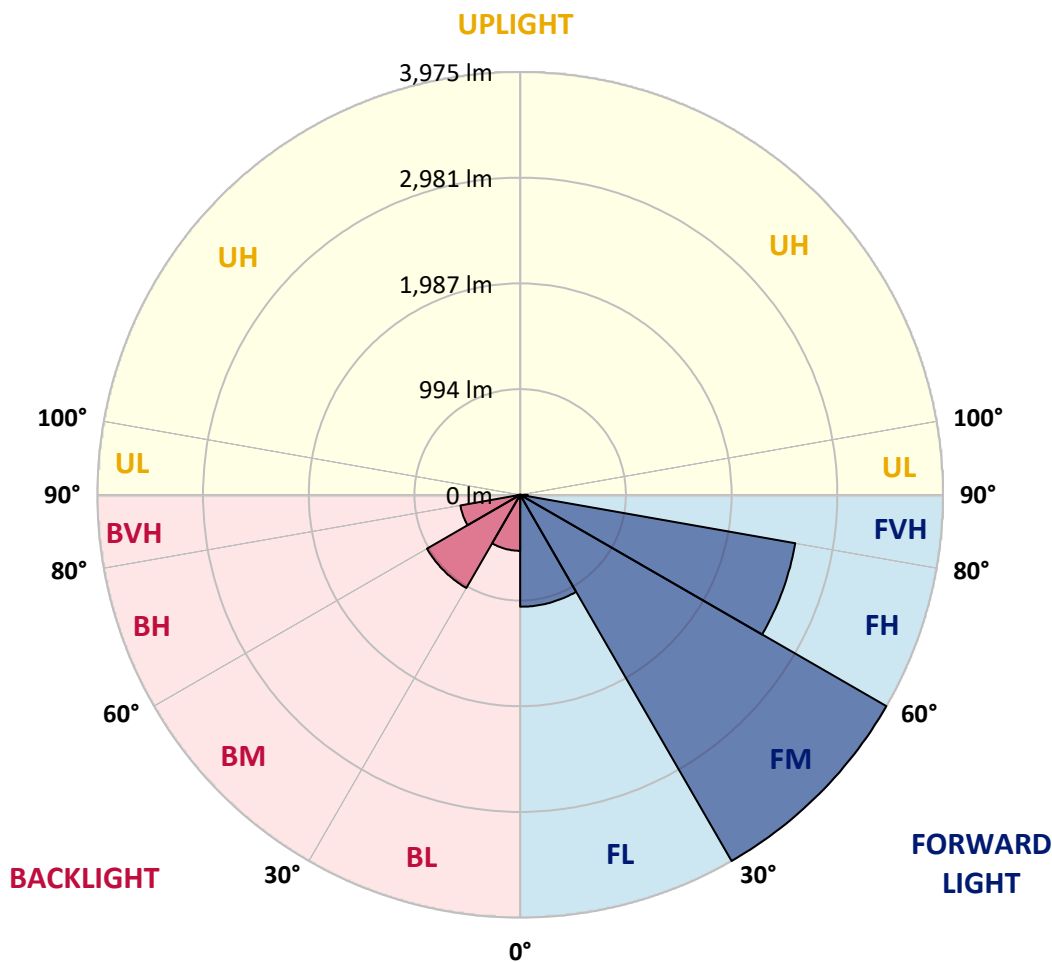
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1052.3	10.7			
FM (30°-60°)	3974.9	40.3			
FH (60°-80°)	2626.2	26.6			G2/5000
FVH (80°-90°)	70.1	0.7			G1/100
BL (0°-30°)	526.5	5.3	B2/1000		
BM (30°-60°)	1011.6	10.3	B2/2500		
BH (60°-80°)	571.1	5.8	B2/1000		G2/1000
BVH (80°-90°)	26.4	0.3			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 II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	73°	75°	85°
0°	1791.0	1791.0	1791.0	1791.0	1791.0	1791.0	1791.0	1791.0	1791.0	1791.0	1791.0
2.5°	1911.4	1911.4	1908.4	1905.4	1893.3	1881.3	1863.2	1848.2	1833.1	1827.1	1803.0
5°	2022.7	2022.7	2019.7	2007.7	1992.6	1971.6	1941.5	1902.3	1875.2	1872.2	1830.1
7.5°	2116.1	2113.0	2110.0	2104.0	2089.0	2061.9	2016.7	1965.6	1920.4	1908.4	1857.2
10°	2206.4	2209.4	2203.3	2188.3	2170.2	2137.1	2092.0	2031.8	1977.6	1959.5	1881.3
12.5°	2302.7	2299.7	2290.6	2272.6	2248.5	2221.4	2173.2	2113.0	2040.8	2022.7	1920.4
15°	2383.9	2387.0	2371.9	2359.9	2335.8	2305.7	2263.5	2203.3	2131.1	2110.0	1977.6
17.5°	2456.2	2456.2	2453.2	2447.2	2429.1	2408.0	2365.9	2323.7	2248.5	2215.4	2064.9
20°	2510.4	2513.4	2519.4	2531.4	2534.4	2516.4	2495.3	2465.2	2393.0	2359.9	2173.2
22.5°	2558.5	2564.5	2588.6	2624.7	2654.8	2654.8	2651.8	2648.8	2576.6	2555.5	2332.8
25°	2570.6	2579.6	2633.8	2712.0	2760.2	2799.3	2853.5	2874.6	2820.4	2784.3	2540.5
27.5°	2588.6	2597.7	2657.9	2751.2	2871.6	2958.9	3055.2	3109.4	3070.2	3034.1	2778.3
30°	2573.6	2585.6	2651.8	2784.3	2943.8	3127.4	3247.8	3329.1	3317.1	3296.0	3025.1
32.5°	2534.4	2546.5	2624.7	2787.3	3031.1	3299.0	3434.4	3560.9	3594.0	3575.9	3283.9
35°	2456.2	2468.2	2564.5	2763.2	3073.2	3428.4	3621.1	3807.7	3882.9	3870.9	3566.9
37.5°	2356.9	2356.9	2471.2	2691.0	3088.3	3527.8	3786.6	4054.5	4202.0	4183.9	3852.8
40°	2191.3	2221.4	2362.9	2612.7	3064.2	3600.0	3946.2	4310.4	4494.0	4484.9	4162.9
42.5°	2025.8	2049.8	2185.3	2477.3	3007.0	3642.1	4078.6	4578.3	4816.1	4810.0	4460.9
45°	1878.3	1896.3	2007.7	2290.6	2886.6	3654.2	4205.0	4864.2	5171.2	5159.2	4764.9
47.5°	1688.6	1724.7	1866.2	2116.1	2721.1	3618.1	4322.4	5222.4	5556.5	5544.5	5093.0
50°	1279.3	1303.3	1598.3	1974.6	2507.4	3527.8	4418.7	5574.6	5920.7	5896.7	5391.0
52.5°	1161.9	1176.9	1270.2	1800.0	2308.7	3365.2	4478.9	5996.0	6291.0	6251.8	5698.0
55°	1086.6	1098.7	1152.8	1441.8	2134.1	3091.3	4497.0	6393.3	6589.0	6549.8	5980.9
57.5°	1020.4	1026.4	1080.6	1228.1	1926.4	2745.1	4433.8	6688.3	6850.8	6808.7	6224.7
60°	951.2	960.2	1011.4	1119.7	1676.6	2426.1	4238.1	6923.1	7067.6	7031.4	6438.5
62.5°	894.0	906.0	939.1	1032.4	1496.0	2155.2	3810.7	6977.3	7224.1	7197.0	6637.1
65°	824.7	833.8	875.9	954.2	1309.4	1986.6	3377.3	6817.7	7172.9	7206.0	6748.5
67.5°	743.5	752.5	788.6	848.8	1098.7	1809.0	2998.0	6592.0	7016.4	7061.5	6667.2
70°	644.1	650.2	686.3	743.5	912.0	1577.3	2600.7	6260.9	6637.1	6670.2	6345.1
72.5°	535.8	535.8	562.9	629.1	749.5	1306.4	2086.0	5562.5	6173.6	6254.8	5800.3
75°	225.8	237.8	286.0	346.2	478.6	954.2	1426.8	4283.3	5568.6	5637.8	5123.1
77.5°	45.2	48.2	54.2	81.3	126.4	415.4	442.5	1869.2	3864.9	3910.0	3741.5
80°	36.1	36.1	39.1	60.2	84.3	192.6	144.5	611.0	1204.0	1550.2	1998.7
82.5°	12.0	15.1	21.1	33.1	42.1	42.1	48.2	307.0	596.0	641.1	806.7
85°	6.0	6.0	9.0	12.0	12.0	12.0	12.0	54.2	102.3	123.4	171.6
87.5°	3.0	0.0	0.0	0.0	0.0	0.0	3.0	6.0	9.0	9.0	12.0
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°	1791.0	1791.0	1791.0	1791.0	1791.0	1791.0	1791.0	1791.0	1791.0	1791.0	1791.0
2.5°	1791.0	1781.9	1760.9	1745.8	1724.7	1706.7	1685.6	1673.6	1667.6	1664.5	1658.5
5°	1806.0	1781.9	1739.8	1694.6	1655.5	1625.4	1583.3	1562.2	1550.2	1544.1	1541.1
7.5°	1824.1	1794.0	1721.7	1652.5	1583.3	1532.1	1480.9	1447.8	1432.8	1429.8	1426.8
10°	1836.1	1788.0	1691.6	1616.4	1526.1	1444.8	1384.6	1345.5	1324.4	1321.4	1318.4
12.5°	1860.2	1797.0	1667.6	1559.2	1465.9	1360.5	1297.3	1252.2	1231.1	1213.0	1213.0
15°	1899.3	1818.1	1655.5	1511.0	1387.6	1285.3	1204.0	1155.9	1140.8	1116.7	1110.7
17.5°	1965.6	1857.2	1646.5	1462.9	1315.4	1213.0	1116.7	1065.6	1056.5	1035.5	1023.4
20°	2046.8	1914.4	1652.5	1417.7	1240.1	1122.7	1026.4	975.3	945.2	927.1	921.1
22.5°	2176.3	1998.7	1673.6	1384.6	1173.9	1041.5	939.1	857.9	791.6	767.6	767.6
25°	2359.9	2143.1	1709.7	1357.5	1107.7	963.2	836.8	698.3	611.0	577.9	568.9
27.5°	2567.6	2326.8	1794.0	1333.4	1053.5	875.9	689.3	535.8	442.5	412.4	412.4
30°	2805.3	2519.4	1896.3	1318.4	987.3	743.5	520.7	391.3	316.1	282.9	279.9
32.5°	3040.1	2718.1	2016.7	1306.4	918.1	580.9	376.3	286.0	222.7	198.7	201.7
35°	3274.9	2913.7	2119.1	1306.4	803.7	418.4	267.9	198.7	159.5	147.5	147.5
37.5°	3539.8	3133.4	2200.3	1288.3	632.1	298.0	183.6	144.5	132.4	126.4	126.4
40°	3813.7	3338.1	2254.5	1249.2	451.5	204.7	129.4	126.4	120.4	111.4	108.4
42.5°	4069.6	3572.9	2287.6	1173.9	295.0	135.5	114.4	117.4	114.4	99.3	96.3
45°	4340.5	3762.5	2305.7	1023.4	195.7	111.4	102.3	108.4	111.4	99.3	96.3
47.5°	4611.4	3970.2	2317.7	797.7	129.4	108.4	96.3	105.4	108.4	96.3	93.3
50°	4897.3	4159.9	2299.7	511.7	114.4	102.3	93.3	96.3	102.3	96.3	93.3
52.5°	5147.2	4331.4	2215.4	286.0	111.4	99.3	87.3	90.3	99.3	93.3	93.3
55°	5403.0	4500.0	2058.9	168.6	108.4	93.3	87.3	90.3	93.3	87.3	90.3
57.5°	5634.8	4662.5	1824.1	138.5	108.4	90.3	90.3	84.3	84.3	78.3	78.3
60°	5812.4	4810.0	1544.1	129.4	102.3	93.3	84.3	78.3	72.2	66.2	66.2
62.5°	5953.8	4936.5	1146.8	120.4	99.3	90.3	78.3	69.2	60.2	54.2	54.2
65°	6032.1	4963.5	809.7	108.4	93.3	87.3	72.2	60.2	48.2	45.2	45.2
67.5°	5941.8	4822.1	493.6	102.3	87.3	84.3	69.2	54.2	42.1	39.1	39.1
70°	5595.6	4442.8	276.9	93.3	78.3	75.3	63.2	48.2	39.1	33.1	33.1
72.5°	5023.7	3886.0	138.5	78.3	66.2	66.2	57.2	42.1	36.1	30.1	30.1
75°	4244.1	3187.6	99.3	57.2	54.2	54.2	48.2	39.1	33.1	27.1	27.1
77.5°	3109.4	2101.0	81.3	48.2	39.1	39.1	42.1	36.1	30.1	24.1	24.1
80°	1610.4	1041.5	69.2	36.1	33.1	30.1	30.1	30.1	24.1	21.1	21.1
82.5°	713.4	400.3	45.2	27.1	27.1	24.1	24.1	24.1	21.1	18.1	18.1
85°	138.5	75.3	24.1	21.1	18.1	18.1	18.1	15.1	15.1	15.1	15.1
87.5°	12.0	12.0	12.0	12.0	12.0	9.0	9.0	9.0	9.0	9.0	9.0
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)