

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: P507704

Luminaire Tested: **VERD-S-CA1-70-760-U-T2-HSS**

Issue Date: 3/30/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P507704  
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-CA1-70-760-U-T2-HSS  
Description: VERDEON-S ROADWAY AND AREA LUMINAIRE  
(1) 70 CRI, 5700K, 1330mA LED AND TYPE II OPTIC WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9093 lumens  
Efficiency: N/A  
Efficacy: 123.7 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

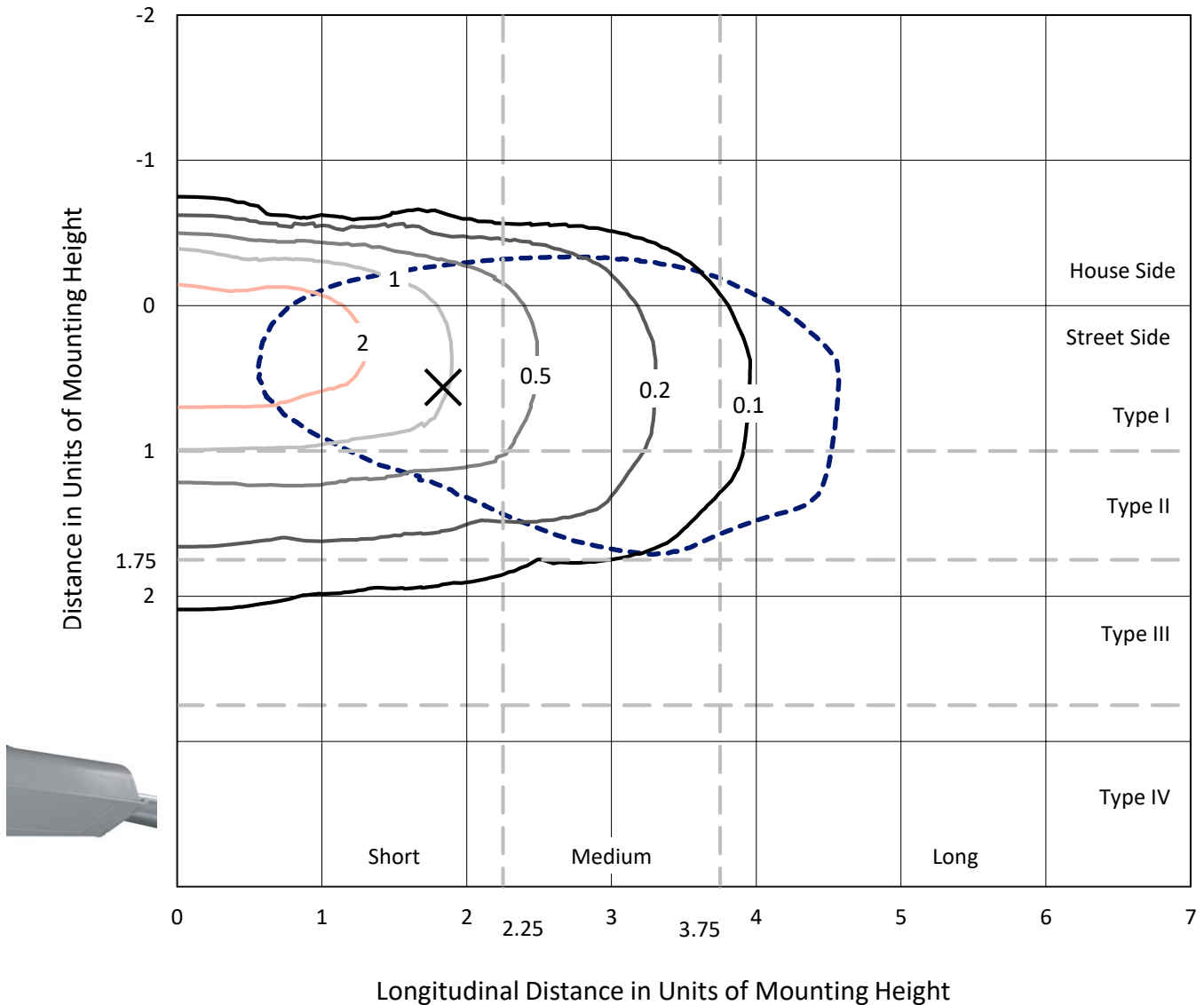
Input Watts (W): 73.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

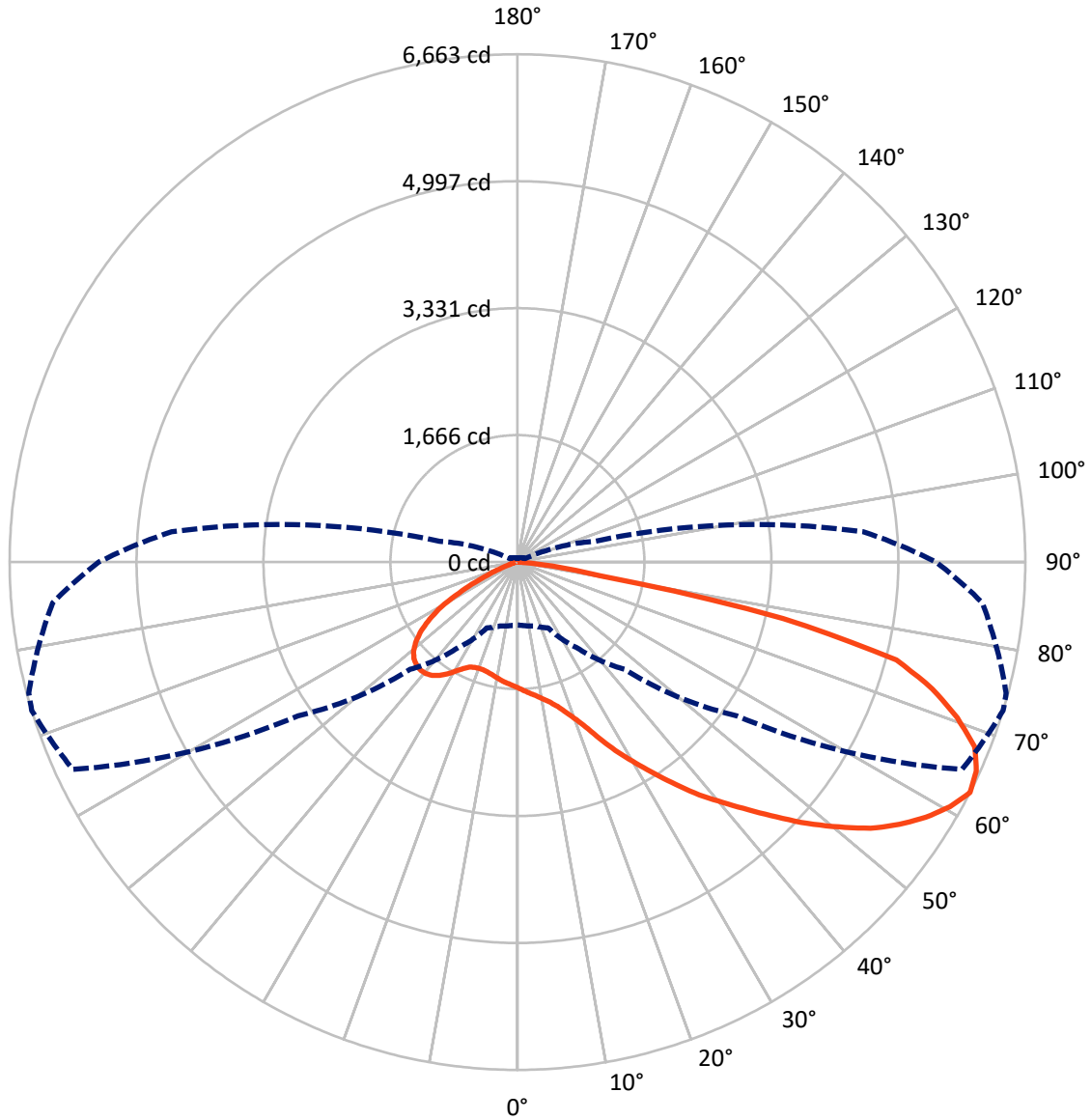
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.2 fc  
 Type 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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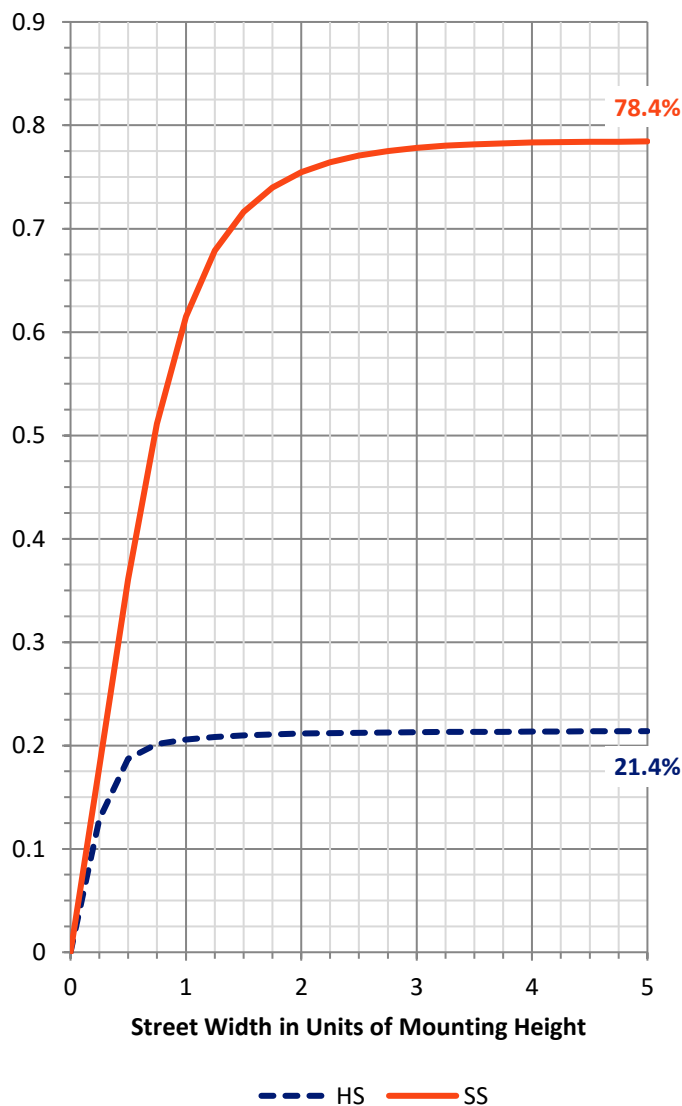
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1969.6	0.0	1969.6
	% Fixture	21.7	0.0	21.7
<b>Street Side</b>	Lumens	7123.4	0.0	7123.4
	% Fixture	78.3	0.0	78.3
<b>Total</b>	Lumens	9093.0	0.0	9093.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	158.0	1.7
10°-20°	475.6	5.2
20°-30°	822.6	9.0
30°-40°	1208.1	13.3
40°-50°	1570.3	17.3
50°-60°	1820.6	20.0
60°-70°	1832.3	20.2
70°-80°	1116.6	12.3
80°-90°	88.9	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°	9093.0	100.0
0°-180°	9093.0	100.0

**Coefficient of Utilization**



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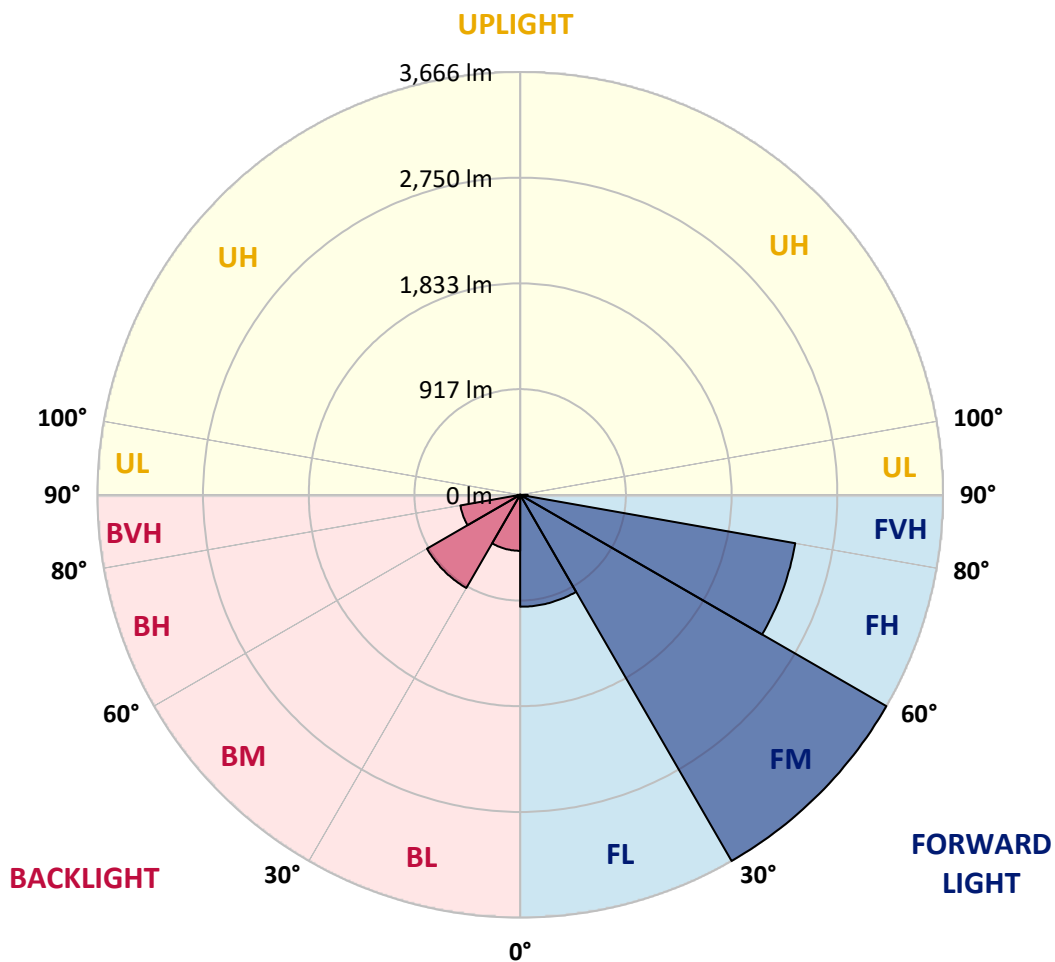
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	970.6	10.7			
FM	(30°-60°)	3666.1	40.3			
FH	(60°-80°)	2422.2	26.6			G2/5000
FVH	(80°-90°)	64.6	0.7			G1/100
BL	(0°-30°)	485.6	5.3	B1/500		
BM	(30°-60°)	933.0	10.3	B1/1000		
BH	(60°-80°)	526.7	5.8	B2/1000		G2/1000
BVH	(80°-90°)	24.3	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°	1651.8	1651.8	1651.8	1651.8	1651.8	1651.8	1651.8	1651.8	1651.8	1651.8	1651.8
2.5°	1762.9	1762.9	1760.1	1757.3	1746.2	1735.1	1718.4	1704.6	1690.7	1685.1	1662.9
5°	1865.6	1865.6	1862.8	1851.7	1837.8	1818.4	1790.6	1754.5	1729.6	1726.8	1687.9
7.5°	1951.6	1948.9	1946.1	1940.5	1926.7	1901.7	1860.0	1812.8	1771.2	1760.1	1712.9
10°	2034.9	2037.7	2032.2	2018.3	2001.6	1971.1	1929.4	1873.9	1823.9	1807.3	1735.1
12.5°	2123.8	2121.0	2112.7	2096.0	2073.8	2048.8	2004.4	1948.9	1882.2	1865.6	1771.2
15°	2198.7	2201.5	2187.6	2176.5	2154.3	2126.5	2087.7	2032.2	1965.5	1946.1	1823.9
17.5°	2265.4	2265.4	2262.6	2257.0	2240.4	2220.9	2182.1	2143.2	2073.8	2043.3	1904.4
20°	2315.3	2318.1	2323.7	2334.8	2337.5	2320.9	2301.4	2273.7	2207.1	2176.5	2004.4
22.5°	2359.7	2365.3	2387.5	2420.8	2448.6	2448.6	2445.8	2443.0	2376.4	2357.0	2151.5
25°	2370.8	2379.2	2429.1	2501.3	2545.7	2581.8	2631.8	2651.2	2601.3	2568.0	2343.1
27.5°	2387.5	2395.8	2451.4	2537.4	2648.5	2729.0	2817.8	2867.8	2831.7	2798.4	2562.4
30°	2373.6	2384.7	2445.8	2568.0	2715.1	2884.4	2995.5	3070.4	3059.3	3039.9	2790.0
32.5°	2337.5	2348.6	2420.8	2570.7	2795.6	3042.7	3167.6	3284.2	3314.7	3298.1	3028.8
35°	2265.4	2276.5	2365.3	2548.5	2834.5	3162.1	3339.7	3511.9	3581.3	3570.1	3289.8
37.5°	2173.7	2173.7	2279.2	2481.9	2848.3	3253.7	3492.4	3739.5	3875.5	3858.9	3553.5
40°	2021.0	2048.8	2179.3	2409.7	2826.1	3320.3	3639.6	3975.5	4144.8	4136.5	3839.4
42.5°	1868.4	1890.6	2015.5	2284.8	2773.4	3359.2	3761.7	4222.5	4441.9	4436.3	4114.3
45°	1732.3	1749.0	1851.7	2112.7	2662.3	3370.3	3878.3	4486.3	4769.5	4758.3	4394.7
47.5°	1557.4	1590.7	1721.2	1951.6	2509.7	3337.0	3986.6	4816.6	5124.8	5113.7	4697.3
50°	1179.9	1202.1	1474.1	1821.2	2312.5	3253.7	4075.4	5141.5	5460.7	5438.5	4972.1
52.5°	1071.6	1085.5	1171.5	1660.1	2129.3	3103.8	4130.9	5530.1	5802.2	5766.1	5255.3
55°	1002.2	1013.3	1063.3	1329.8	1968.3	2851.1	4147.6	5896.6	6077.0	6040.9	5516.2
57.5°	941.1	946.7	996.6	1132.7	1776.7	2531.9	4089.3	6168.6	6318.6	6279.7	5741.1
60°	877.3	885.6	932.8	1032.7	1546.3	2237.6	3908.8	6385.2	6518.4	6485.1	5938.2
62.5°	824.5	835.6	866.2	952.2	1379.8	1987.7	3514.6	6435.2	6662.8	6637.8	6121.4
65°	760.7	769.0	807.9	880.0	1207.6	1832.3	3114.9	6288.0	6615.6	6646.1	6224.2
67.5°	685.7	694.0	727.4	782.9	1013.3	1668.5	2765.1	6079.8	6471.2	6512.9	6149.2
70°	594.1	599.7	633.0	685.7	841.2	1454.7	2398.6	5774.4	6121.4	6152.0	5852.2
72.5°	494.2	494.2	519.1	580.2	691.3	1204.9	1923.9	5130.4	5693.9	5768.9	5349.7
75°	208.2	219.3	263.7	319.3	441.4	880.0	1315.9	3950.5	5135.9	5199.8	4725.0
77.5°	41.6	44.4	50.0	75.0	116.6	383.1	408.1	1724.0	3564.6	3606.2	3450.8
80°	33.3	33.3	36.1	55.5	77.7	177.7	133.3	563.6	1110.5	1429.7	1843.4
82.5°	11.1	13.9	19.4	30.5	38.9	38.9	44.4	283.2	549.7	591.3	744.0
85°	5.6	5.6	8.3	11.1	11.1	11.1	11.1	50.0	94.4	113.8	158.2
87.5°	2.8	0.0	0.0	0.0	0.0	0.0	2.8	5.6	8.3	8.3	11.1
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°	1651.8	1651.8	1651.8	1651.8	1651.8	1651.8	1651.8	1651.8	1651.8	1651.8	1651.8
2.5°	1651.8	1643.5	1624.1	1610.2	1590.7	1574.1	1554.7	1543.5	1538.0	1535.2	1529.7
5°	1665.7	1643.5	1604.6	1563.0	1526.9	1499.1	1460.3	1440.8	1429.7	1424.2	1421.4
7.5°	1682.4	1654.6	1588.0	1524.1	1460.3	1413.1	1365.9	1335.3	1321.5	1318.7	1315.9
10°	1693.5	1649.0	1560.2	1490.8	1407.5	1332.6	1277.0	1240.9	1221.5	1218.7	1216.0
12.5°	1715.7	1657.4	1538.0	1438.1	1352.0	1254.8	1196.5	1154.9	1135.5	1118.8	1118.8
15°	1751.8	1676.8	1526.9	1393.6	1279.8	1185.4	1110.5	1066.0	1052.2	1030.0	1024.4
17.5°	1812.8	1712.9	1518.6	1349.2	1213.2	1118.8	1030.0	982.8	974.4	955.0	943.9
20°	1887.8	1765.6	1524.1	1307.6	1143.8	1035.5	946.7	899.5	871.7	855.1	849.5
22.5°	2007.2	1843.4	1543.5	1277.0	1082.7	960.6	866.2	791.2	730.1	707.9	707.9
25°	2176.5	1976.6	1576.9	1252.1	1021.6	888.4	771.8	644.1	563.6	533.0	524.7
27.5°	2368.1	2146.0	1654.6	1229.8	971.7	807.9	635.7	494.2	408.1	380.3	380.3
30°	2587.4	2323.7	1749.0	1216.0	910.6	685.7	480.3	360.9	291.5	261.0	258.2
32.5°	2803.9	2506.9	1860.0	1204.9	846.7	535.8	347.0	263.7	205.4	183.2	186.0
35°	3020.5	2687.3	1954.4	1204.9	741.2	385.9	247.1	183.2	147.1	136.0	136.0
37.5°	3264.8	2890.0	2029.4	1188.2	583.0	274.8	169.3	133.3	122.2	116.6	116.6
40°	3517.4	3078.8	2079.3	1152.1	416.4	188.8	119.4	116.6	111.0	102.7	99.9
42.5°	3753.4	3295.3	2109.9	1082.7	272.1	124.9	105.5	108.3	105.5	91.6	88.8
45°	4003.2	3470.2	2126.5	943.9	180.5	102.7	94.4	99.9	102.7	91.6	88.8
47.5°	4253.1	3661.8	2137.6	735.7	119.4	99.9	88.8	97.2	99.9	88.8	86.1
50°	4516.8	3836.7	2121.0	471.9	105.5	94.4	86.1	88.8	94.4	88.8	86.1
52.5°	4747.2	3994.9	2043.3	263.7	102.7	91.6	80.5	83.3	91.6	86.1	86.1
55°	4983.2	4150.4	1898.9	155.5	99.9	86.1	80.5	83.3	86.1	80.5	83.3
57.5°	5197.0	4300.3	1682.4	127.7	99.9	83.3	83.3	77.7	77.7	72.2	72.2
60°	5360.8	4436.3	1424.2	119.4	94.4	86.1	77.7	72.2	66.6	61.1	61.1
62.5°	5491.3	4552.9	1057.7	111.0	91.6	83.3	72.2	63.9	55.5	50.0	50.0
65°	5563.4	4577.9	746.8	99.9	86.1	80.5	66.6	55.5	44.4	41.6	41.6
67.5°	5480.2	4447.4	455.3	94.4	80.5	77.7	63.9	50.0	38.9	36.1	36.1
70°	5160.9	4097.6	255.4	86.1	72.2	69.4	58.3	44.4	36.1	30.5	30.5
72.5°	4633.4	3584.0	127.7	72.2	61.1	61.1	52.7	38.9	33.3	27.8	27.8
75°	3914.4	2940.0	91.6	52.7	50.0	50.0	44.4	36.1	30.5	25.0	25.0
77.5°	2867.8	1937.8	75.0	44.4	36.1	36.1	38.9	33.3	27.8	22.2	22.2
80°	1485.2	960.6	63.9	33.3	30.5	27.8	27.8	27.8	22.2	19.4	19.4
82.5°	658.0	369.2	41.6	25.0	25.0	22.2	22.2	22.2	19.4	16.7	16.7
85°	127.7	69.4	22.2	19.4	16.7	16.7	16.7	13.9	13.9	13.9	13.9
87.5°	11.1	11.1	11.1	11.1	11.1	8.3	8.3	8.3	8.3	8.3	8.3
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)