

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: P507707

Luminaire Tested: **VERD-S-CA1-70-760-U-T3**

Issue Date: 3/30/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P507707  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2103-168-4)  
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-T3  
Description: VERDEON-S ROADWAY AND AREA LUMINAIRE  
(1) 70 CRI, 5700K, 1330mA LED AND TYPE III OPTIC  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9782 lumens  
Efficiency: N/A  
Efficacy: 133.1 lumens/watt  
Luminous Opening: Rectangular (W 0.83' x L: 0.83' x H: 0')  
IES Classification: Type III - Medium  
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

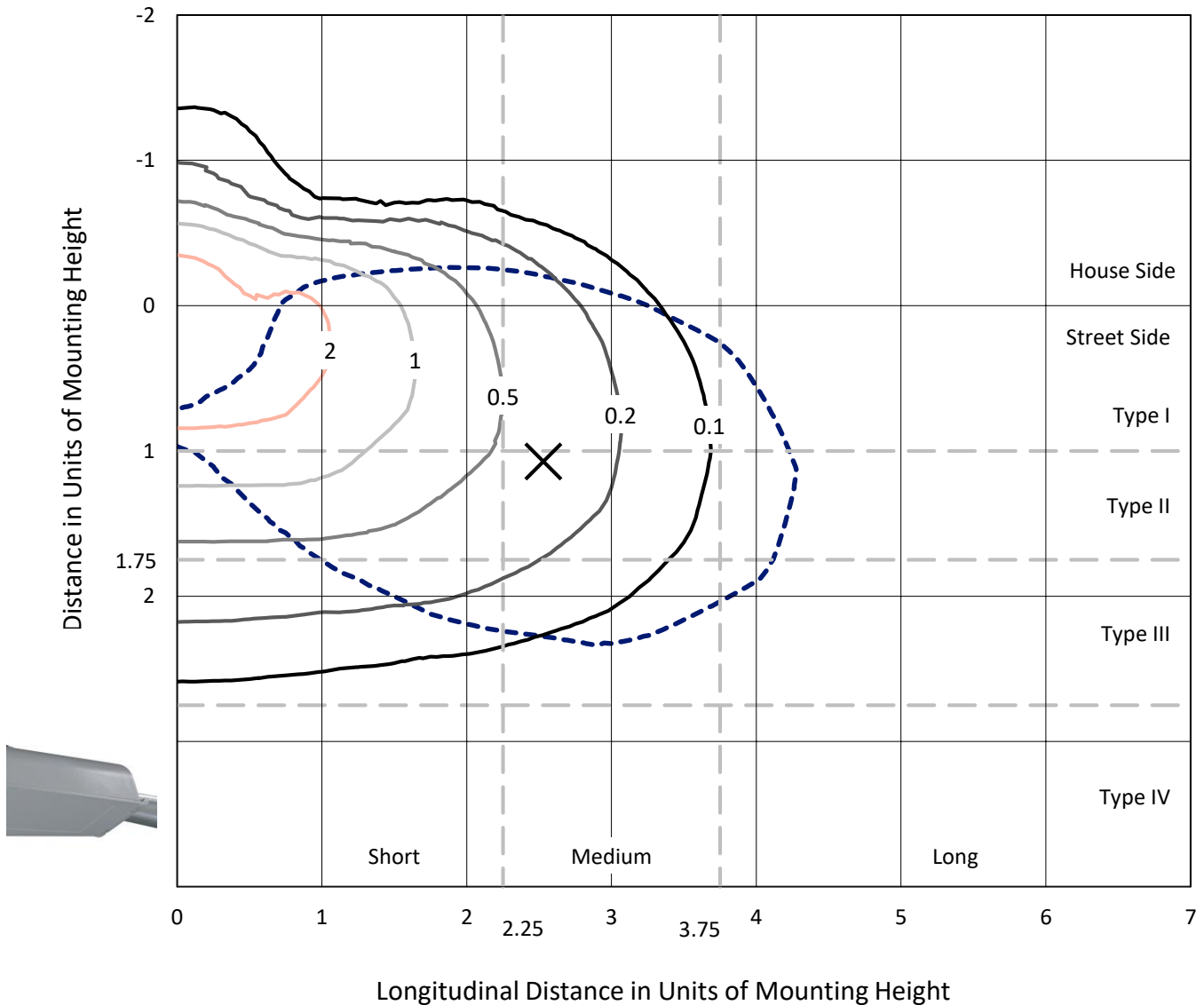


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### Iso-Footcandle Lines of Horizontal Illumination

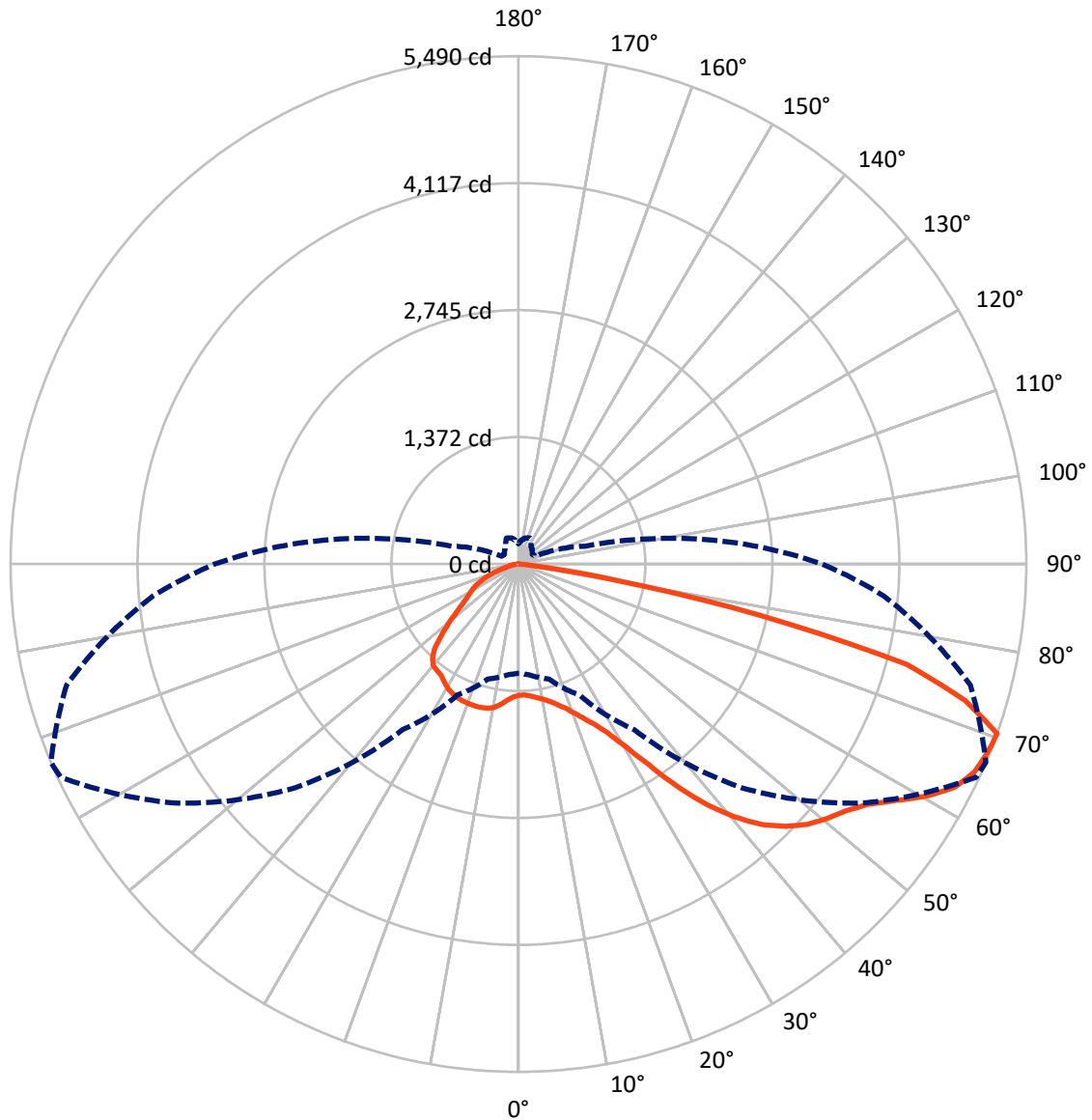
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.7 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

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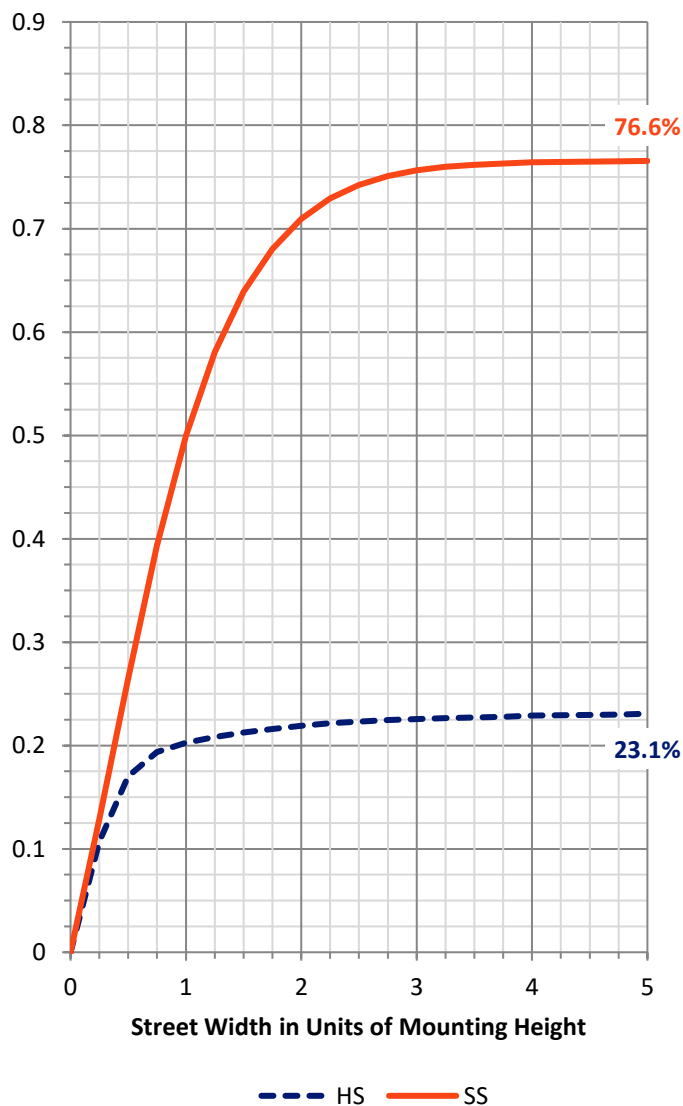
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2288.7	0.0	2288.7
	% Fixture	23.4	0.0	23.4
<b>Street Side</b>	Lumens	7493.3	0.0	7493.3
	% Fixture	76.6	0.0	76.6
<b>Total</b>	Lumens	9782.0	0.0	9782.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	144.0	1.5
10°-20°	463.7	4.7
20°-30°	817.8	8.4
30°-40°	1253.5	12.8
40°-50°	1708.7	17.5
50°-60°	2021.9	20.7
60°-70°	2107.9	21.5
70°-80°	1179.1	12.1
80°-90°	85.3	0.9
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°	9782.0	100.0
0°-180°	9782.0	100.0

**Coefficient of Utilization**



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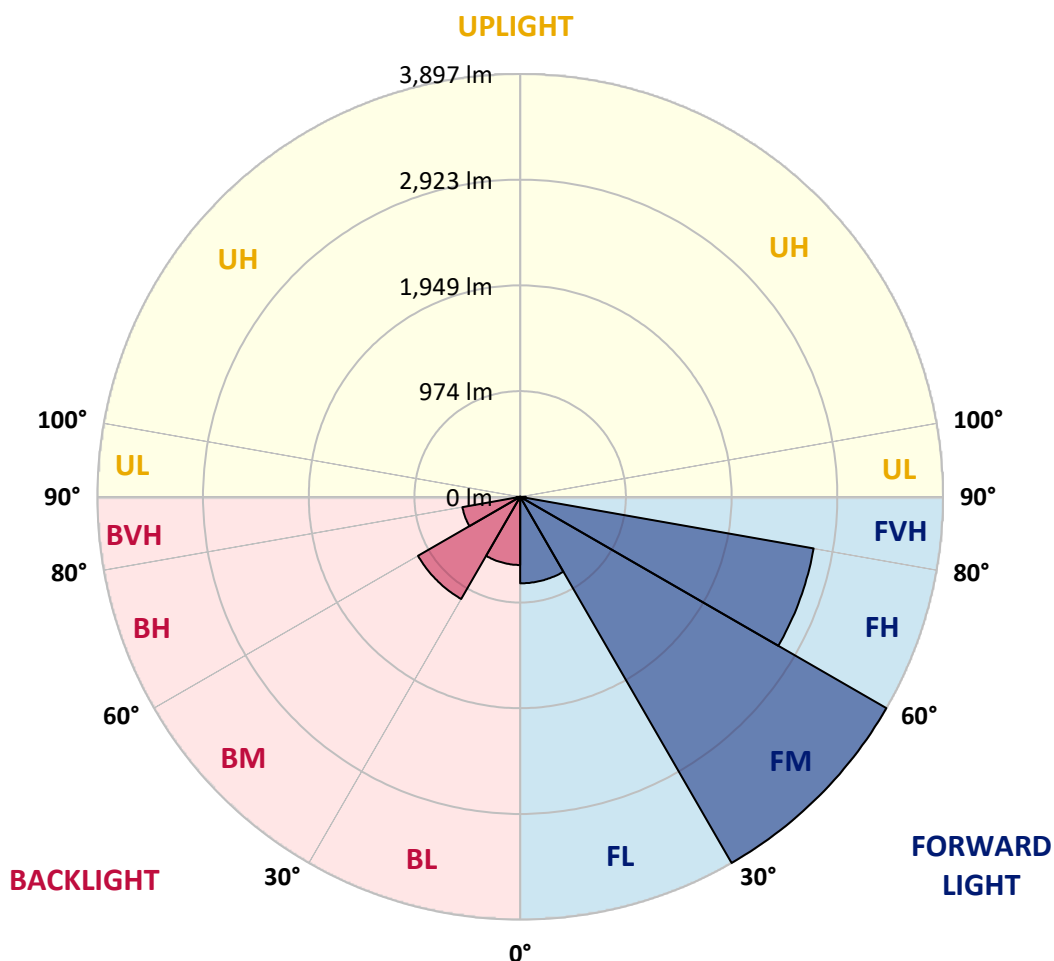
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	797.3	8.2			
FM (30°-60°)	3897.1	39.8			
FH (60°-80°)	2746.6	28.1			G2/5000
FVH (80°-90°)	52.3	0.5			G1/100
BL (0°-30°)	628.2	6.4	B2/1000		
BM (30°-60°)	1087.0	11.1	B2/2500		
BH (60°-80°)	540.4	5.5	B2/1000		G2/1000
BVH (80°-90°)	33.0	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 III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	1418.9	1418.9	1418.9	1418.9	1418.9	1418.9	1418.9	1418.9	1418.9	1418.9	1418.9
2.5°	1424.4	1424.4	1424.4	1421.7	1421.7	1421.7	1418.9	1416.1	1416.1	1418.9	1418.9
5°	1460.5	1460.5	1457.8	1455.0	1449.4	1443.9	1438.3	1435.6	1435.6	1435.6	1438.3
7.5°	1510.5	1507.7	1502.2	1499.4	1491.1	1482.8	1471.6	1460.5	1460.5	1455.0	1460.5
10°	1571.6	1571.6	1563.3	1557.7	1546.6	1524.4	1507.7	1491.1	1488.3	1482.8	1491.1
12.5°	1649.4	1649.4	1643.8	1629.9	1613.3	1585.5	1555.0	1527.2	1524.4	1516.1	1532.7
15°	1743.8	1735.4	1732.7	1721.6	1691.0	1654.9	1613.3	1577.2	1577.2	1563.3	1582.7
17.5°	1849.3	1846.5	1843.7	1829.8	1793.7	1741.0	1685.5	1643.8	1635.5	1627.1	1638.3
20°	1977.0	1974.2	1971.5	1949.2	1907.6	1843.7	1777.1	1721.6	1716.0	1707.7	1699.3
22.5°	2124.2	2124.2	2113.1	2096.4	2038.1	1963.1	1882.6	1813.2	1813.2	1804.9	1766.0
25°	2265.8	2260.2	2254.7	2235.2	2188.0	2107.5	2013.1	1932.6	1921.5	1921.5	1854.8
27.5°	2396.3	2396.3	2404.6	2393.5	2346.3	2263.0	2168.6	2077.0	2071.4	2060.3	1957.6
30°	2532.3	2537.9	2540.7	2540.7	2518.5	2454.6	2351.9	2282.4	2293.6	2265.8	2110.3
32.5°	2635.1	2640.6	2676.7	2710.1	2690.6	2654.5	2596.2	2574.0	2585.1	2607.3	2437.9
35°	2732.3	2740.6	2790.6	2860.0	2890.5	2873.9	2882.2	2921.1	2946.1	3034.9	2887.8
37.5°	2804.5	2812.8	2857.2	2943.3	3034.9	3082.1	3159.9	3246.0	3293.2	3407.0	3196.0
40°	2823.9	2837.8	2929.4	3046.0	3184.9	3326.5	3420.9	3532.0	3590.3	3643.0	3404.2
42.5°	2757.3	2771.1	2890.5	3134.9	3329.3	3545.8	3648.6	3801.3	3848.5	3818.0	3565.3
45°	2715.6	2723.9	2846.1	3126.6	3454.2	3756.9	3856.8	4017.9	4045.6	3970.7	3704.1
47.5°	2657.3	2665.6	2796.1	3112.7	3554.2	3940.1	4009.6	4167.8	4203.9	4098.4	3809.6
50°	2571.2	2582.3	2732.3	3087.7	3620.8	4065.1	4140.1	4303.9	4323.3	4212.3	3920.7
52.5°	2468.5	2485.1	2643.4	3034.9	3665.2	4145.6	4242.8	4412.2	4431.6	4359.4	4040.1
55°	2343.5	2360.2	2529.6	2957.2	3651.4	4170.6	4287.2	4551.0	4584.3	4526.0	4142.8
57.5°	2221.4	2232.5	2407.4	2843.3	3573.6	4209.5	4420.5	4775.9	4820.3	4698.2	4226.1
60°	2074.2	2099.2	2268.6	2687.8	3454.2	4248.3	4592.7	5045.3	5086.9	4864.8	4290.0
62.5°	1921.5	1943.7	2093.6	2493.5	3268.2	4212.3	4723.2	5278.5	5303.5	4998.1	4312.2
65°	1743.8	1746.5	1885.4	2246.3	3001.6	4065.1	4734.3	5392.3	5417.3	5081.4	4273.3
67.5°	1507.7	1507.7	1624.4	1932.6	2643.4	3798.5	4634.3	5428.4	5464.5	5136.9	4178.9
70°	1180.1	1199.5	1288.4	1563.3	2188.0	3420.9	4506.6	5456.2	5489.5	5056.4	3965.1
72.5°	824.7	819.1	910.8	1077.4	1582.7	2729.5	4020.7	5048.0	5048.0	4645.4	3573.6
75°	252.7	283.2	324.9	435.9	721.9	1829.8	3293.2	4278.9	4334.4	4023.4	2946.1
77.5°	83.3	83.3	97.2	119.4	155.5	388.7	1646.6	2621.2	2665.6	2618.4	1824.3
80°	66.6	66.6	75.0	86.1	100.0	199.9	580.3	983.0	1055.1	1163.4	755.3
82.5°	47.2	47.2	50.0	52.8	50.0	80.5	152.7	261.0	266.6	288.8	244.3
85°	30.5	27.8	27.8	25.0	22.2	22.2	19.4	19.4	22.2	22.2	27.8
87.5°	5.6	5.6	5.6	5.6	5.6	5.6	5.6	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



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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1418.9	1418.9	1418.9	1418.9	1418.9	1418.9	1418.9	1418.9	1418.9	1418.9	1418.9
2.5°	1421.7	1424.4	1432.8	1438.3	1443.9	1449.4	1452.2	1455.0	1455.0	1457.8	1457.8
5°	1441.1	1446.7	1460.5	1474.4	1496.6	1518.9	1538.3	1549.4	1552.2	1563.3	1563.3
7.5°	1466.1	1474.4	1507.7	1532.7	1566.1	1591.0	1613.3	1624.4	1635.5	1641.0	1641.0
10°	1505.0	1516.1	1549.4	1577.2	1604.9	1624.4	1638.3	1646.6	1649.4	1652.1	1652.1
12.5°	1543.8	1557.7	1577.2	1599.4	1616.0	1627.1	1635.5	1638.3	1638.3	1638.3	1638.3
15°	1585.5	1591.0	1596.6	1602.2	1610.5	1613.3	1613.3	1610.5	1604.9	1602.2	1602.2
17.5°	1627.1	1621.6	1613.3	1602.2	1591.0	1582.7	1571.6	1560.5	1552.2	1546.6	1549.4
20°	1677.1	1660.5	1624.4	1596.6	1566.1	1535.5	1510.5	1488.3	1471.6	1468.9	1471.6
22.5°	1735.4	1702.1	1643.8	1585.5	1532.7	1477.2	1424.4	1393.9	1377.2	1363.4	1363.4
25°	1804.9	1752.1	1660.5	1568.8	1485.5	1396.7	1324.5	1277.3	1249.5	1232.9	1238.4
27.5°	1885.4	1818.7	1677.1	1543.8	1416.1	1299.5	1205.1	1130.1	1099.6	1077.4	1080.1
30°	2002.0	1896.5	1696.6	1507.7	1327.3	1180.1	1055.1	966.3	913.5	896.9	902.4
32.5°	2263.0	2063.1	1718.8	1455.0	1227.3	1038.5	871.9	763.6	708.1	708.1	705.3
35°	2699.0	2410.2	1771.5	1391.1	1116.2	880.2	666.4	566.4	563.7	574.8	577.6
37.5°	3004.4	2729.5	1935.4	1330.0	994.1	688.6	494.3	466.5	494.3	505.4	502.6
40°	3201.5	2921.1	2124.2	1266.2	821.9	494.3	391.5	372.1	399.8	422.1	438.7
42.5°	3362.6	3054.4	2210.3	1182.9	613.7	355.4	288.8	283.2	324.9	355.4	366.5
45°	3490.3	3176.5	2221.4	1066.3	416.5	263.8	236.0	261.0	311.0	336.0	338.8
47.5°	3593.0	3276.5	2190.8	880.2	277.7	230.5	230.5	263.8	311.0	336.0	336.0
50°	3693.0	3359.8	2113.1	716.4	249.9	224.9	233.2	266.6	308.2	327.7	327.7
52.5°	3776.3	3415.3	1977.0	572.0	241.6	219.4	233.2	266.6	302.7	311.0	305.4
55°	3851.3	3437.6	1854.8	460.9	233.2	216.6	238.8	272.1	299.9	299.9	288.8
57.5°	3892.9	3384.8	1763.2	380.4	224.9	216.6	241.6	277.7	308.2	313.8	305.4
60°	3892.9	3309.8	1663.2	336.0	219.4	216.6	241.6	297.1	366.5	338.8	336.0
62.5°	3840.2	3229.3	1513.3	299.9	211.0	219.4	244.3	330.4	447.0	336.0	322.1
65°	3748.5	3073.8	1316.2	266.6	202.7	222.1	241.6	380.4	533.1	324.9	286.0
67.5°	3576.4	2826.7	1071.8	233.2	191.6	216.6	236.0	349.9	327.7	269.3	241.6
70°	3279.3	2457.4	744.2	202.7	183.3	211.0	236.0	308.2	291.6	247.1	216.6
72.5°	2837.8	2015.9	399.8	166.6	161.0	199.9	230.5	283.2	249.9	202.7	183.3
75°	2179.7	1432.8	244.3	130.5	133.3	177.7	213.8	269.3	238.8	194.4	169.4
77.5°	1257.8	663.6	174.9	97.2	94.4	141.6	191.6	249.9	233.2	188.8	163.8
80°	460.9	274.9	119.4	72.2	63.9	102.7	149.9	202.7	222.1	186.0	166.6
82.5°	197.1	147.2	77.7	50.0	47.2	58.3	91.6	141.6	186.0	149.9	138.8
85°	27.8	27.8	27.8	25.0	27.8	36.1	38.9	69.4	102.7	55.5	55.5
87.5°	11.1	11.1	11.1	11.1	13.9	13.9	11.1	11.1	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)