

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: P507746

Luminaire Tested: **VERD-S-CA1-80-750-U-T3-HSS**

Issue Date: 3/30/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P507746  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2103-168-5)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/30/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: VERD-S-CA1-80-750-U-T3-HSS  
Description: VERDEON-S ROADWAY AND AREA LUMINAIRE  
(1) 70 CRI, 5000K, 1500mA LED AND TYPE III OPTIC WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 10284 lumens  
Efficiency: N/A  
Efficacy: 123.8 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

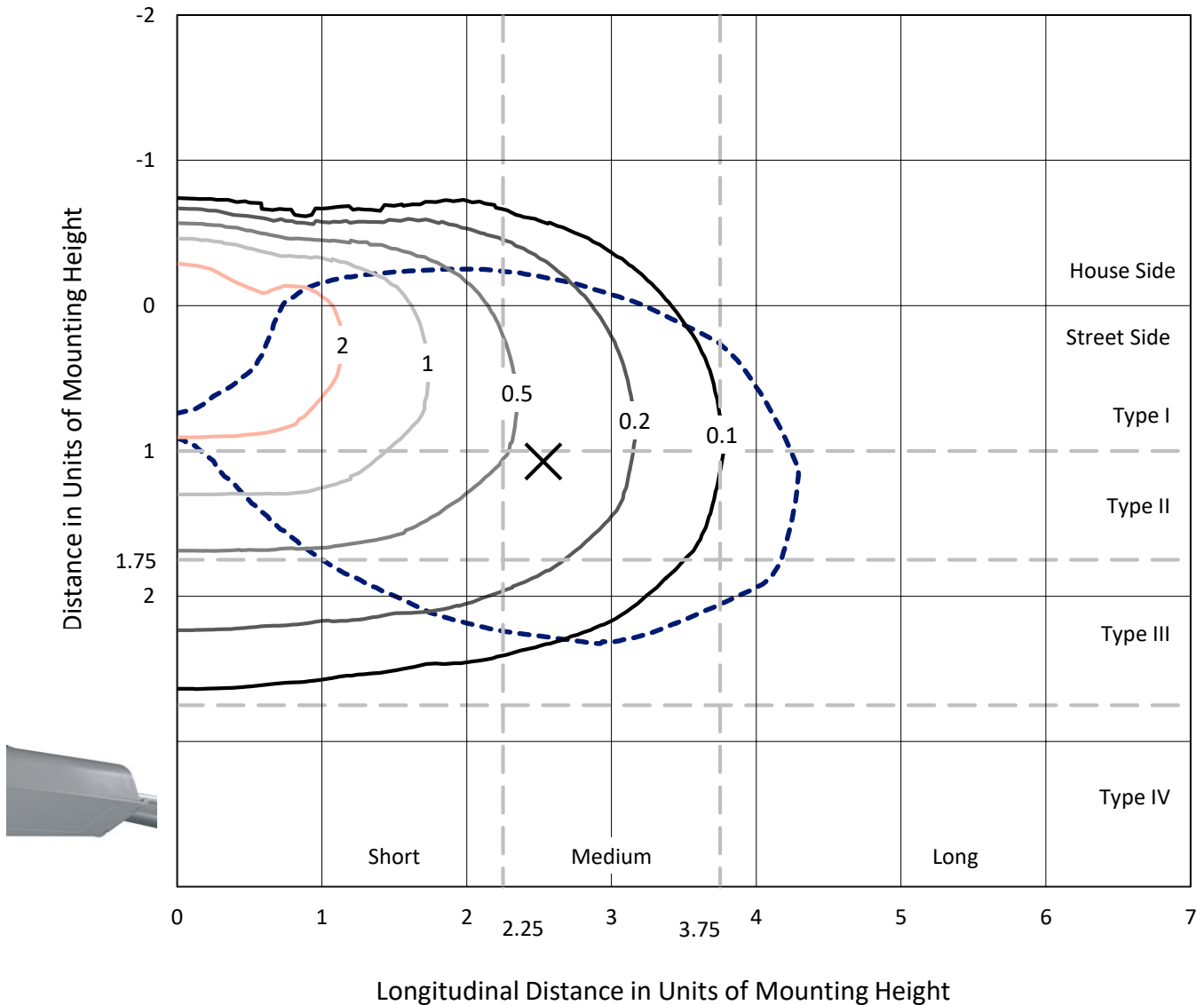
Input Watts (W): 83.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

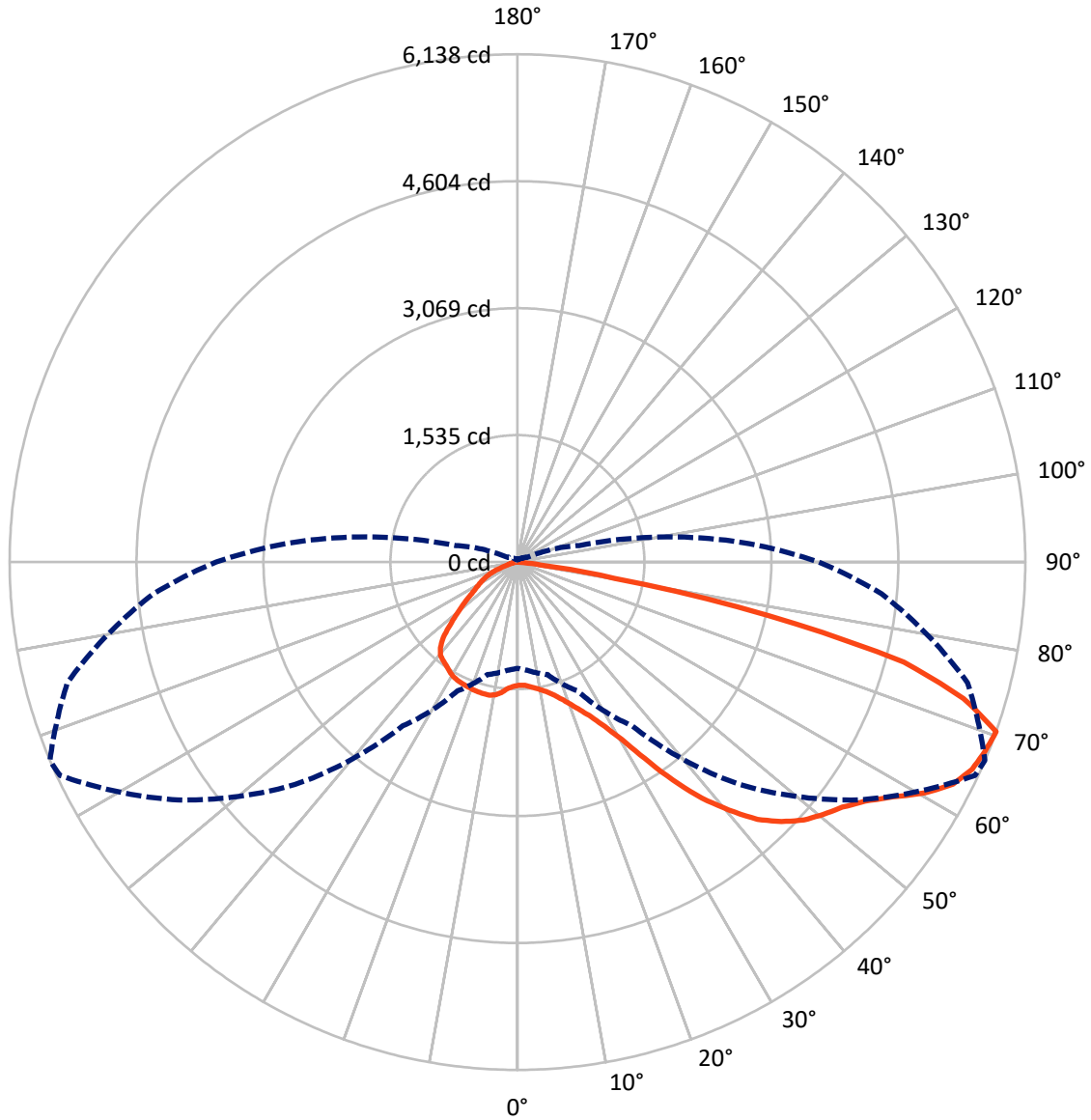
✕ Max cd  
 - - - 1/2 Max cd



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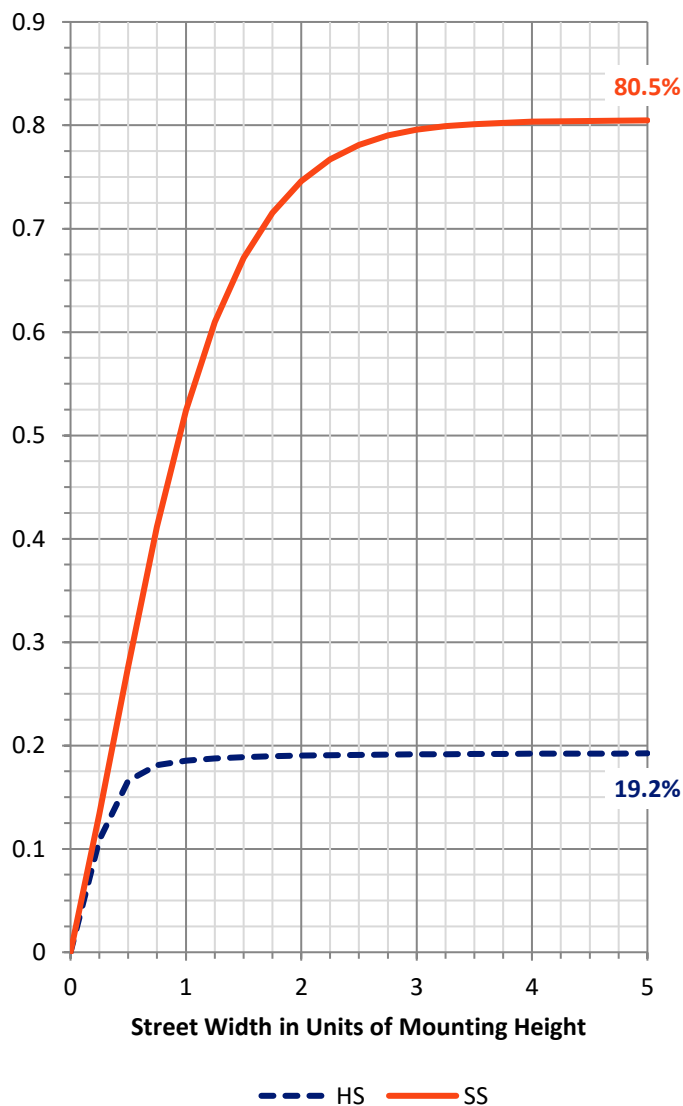
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2004.2	0.0	2004.2
	% Fixture	19.5	0.0	19.5
<b>Street Side</b>	Lumens	8279.8	0.0	8279.8
	% Fixture	80.5	0.0	80.5
<b>Total</b>	Lumens	10284.0	0.0	10284.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	149.9	1.5
10°-20°	474.7	4.6
20°-30°	825.0	8.0
30°-40°	1291.9	12.6
40°-50°	1817.7	17.7
50°-60°	2168.0	21.1
60°-70°	2246.5	21.8
70°-80°	1239.7	12.1
80°-90°	70.6	0.7
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°	10284.0	100.0
0°-180°	10284.0	100.0

**Coefficient of Utilization**



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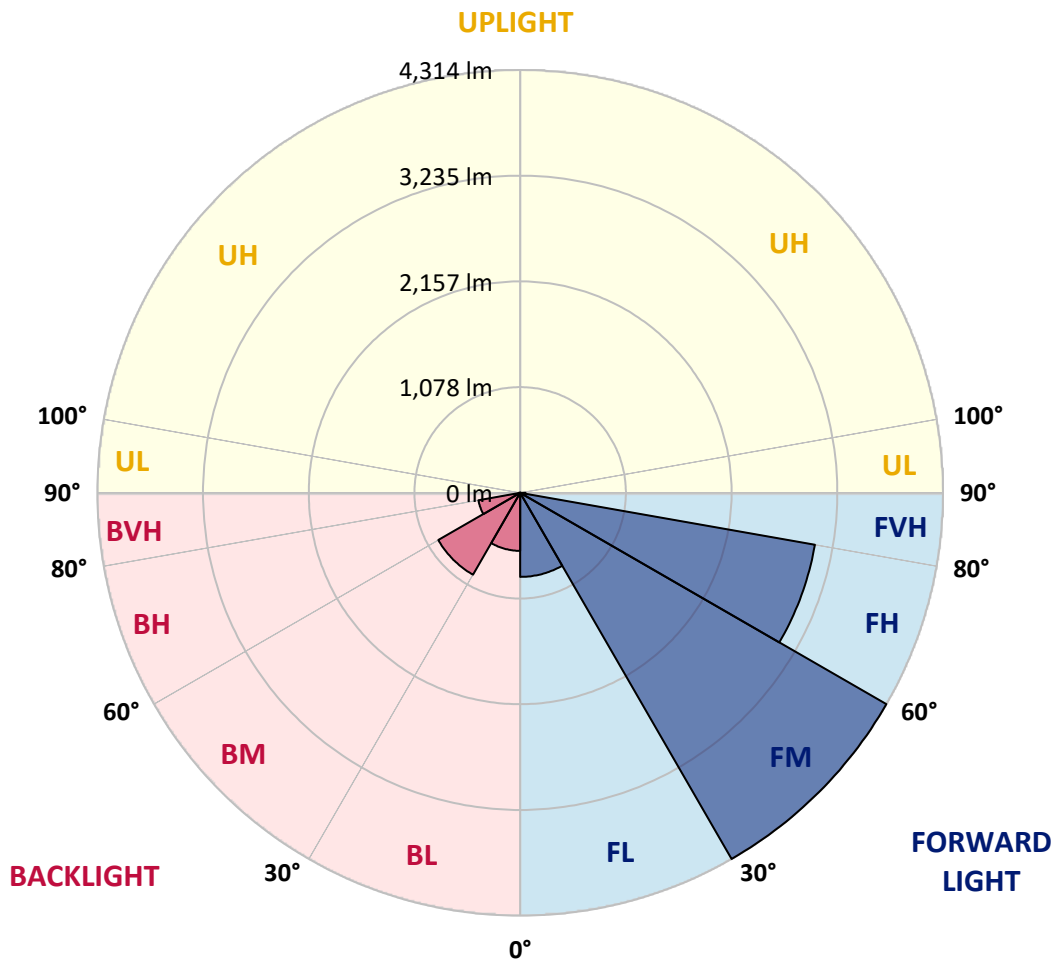
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	857.9	8.3			
FM (30°-60°)	4313.6	41.9			
FH (60°-80°)	3053.5	29.7			G2/5000
FVH (80°-90°)	54.8	0.5			G1/100
BL (0°-30°)	591.8	5.8	B2/1000		
BM (30°-60°)	964.0	9.4	B1/1000		
BH (60°-80°)	432.6	4.2	B1/500		G1/500
BVH (80°-90°)	15.7	0.2			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°	1489.3	1489.3	1489.3	1489.3	1489.3	1489.3	1489.3	1489.3	1489.3	1489.3	1489.3
2.5°	1498.7	1498.7	1498.7	1495.5	1495.5	1495.5	1492.4	1489.3	1489.3	1489.3	1492.4
5°	1539.3	1539.3	1536.1	1533.0	1529.9	1520.5	1514.3	1511.2	1511.2	1508.0	1514.3
7.5°	1589.2	1589.2	1589.2	1583.0	1573.6	1561.1	1548.6	1539.3	1536.1	1533.0	1536.1
10°	1664.1	1664.1	1657.9	1648.5	1632.9	1614.2	1592.3	1573.6	1570.5	1564.2	1570.5
12.5°	1760.9	1751.6	1745.3	1729.7	1711.0	1679.8	1645.4	1617.3	1611.1	1604.8	1626.7
15°	1860.8	1857.7	1842.1	1832.7	1801.5	1760.9	1714.1	1676.6	1670.4	1657.9	1676.6
17.5°	1979.5	1982.6	1976.4	1960.8	1917.0	1857.7	1801.5	1748.4	1742.2	1732.8	1742.2
20°	2141.8	2135.6	2123.1	2101.3	2051.3	1973.2	1901.4	1842.1	1832.7	1826.5	1817.1
22.5°	2304.2	2307.3	2282.3	2260.5	2198.0	2123.1	2026.3	1954.5	1942.0	1938.9	1895.2
25°	2460.3	2466.6	2457.2	2429.1	2376.0	2279.2	2173.1	2085.6	2070.0	2066.9	1992.0
27.5°	2622.7	2625.8	2635.2	2622.7	2566.5	2466.6	2347.9	2248.0	2248.0	2223.0	2110.6
30°	2778.8	2785.0	2791.3	2791.3	2763.2	2675.7	2572.7	2485.3	2485.3	2466.6	2273.0
32.5°	2900.5	2903.7	2941.1	2972.4	2972.4	2909.9	2841.2	2831.9	2828.7	2863.1	2644.5
35°	3009.8	3019.2	3072.3	3156.6	3190.9	3165.9	3169.1	3203.4	3237.7	3322.0	3156.6
37.5°	3091.0	3103.5	3153.4	3250.2	3347.0	3412.6	3475.0	3568.7	3621.8	3749.8	3521.9
40°	3112.9	3128.5	3234.6	3372.0	3528.1	3678.0	3790.4	3905.9	3940.2	4030.8	3743.5
42.5°	3044.2	3059.8	3194.0	3471.9	3690.5	3924.6	4046.4	4193.1	4252.5	4218.1	3927.8
45°	2997.3	3006.7	3147.2	3462.5	3831.0	4165.0	4283.7	4436.7	4474.1	4393.0	4080.7
47.5°	2938.0	2947.4	3094.1	3450.1	3946.5	4371.1	4452.3	4620.9	4658.4	4533.5	4211.9
50°	2850.6	2856.8	3025.4	3425.1	4021.4	4517.9	4608.4	4777.0	4792.6	4664.6	4336.8
52.5°	2744.4	2763.2	2925.5	3365.8	4074.5	4608.4	4717.7	4898.8	4920.6	4833.2	4474.1
55°	2600.8	2622.7	2810.0	3278.3	4055.8	4639.6	4767.6	5061.1	5098.6	5026.8	4589.7
57.5°	2454.1	2485.3	2669.5	3156.6	3980.8	4686.5	4933.1	5301.5	5351.5	5217.2	4683.3
60°	2304.2	2316.7	2507.1	2991.1	3855.9	4733.3	5120.4	5616.9	5663.7	5404.6	4758.3
62.5°	2132.5	2148.1	2316.7	2763.2	3640.5	4689.6	5260.9	5882.3	5910.4	5560.7	4789.5
65°	1932.7	1932.7	2076.3	2485.3	3350.1	4533.5	5279.7	6019.6	6038.4	5660.6	4752.0
67.5°	1654.8	1667.3	1782.8	2141.8	2959.9	4227.5	5173.5	6050.9	6097.7	5723.0	4649.0
70°	1283.2	1311.3	1408.1	1717.2	2416.6	3802.9	5014.3	6100.8	6138.3	5632.5	4417.9
72.5°	877.3	905.4	992.9	1177.1	1742.2	3050.4	4536.6	5629.4	5638.7	5192.3	3968.3
75°	231.0	256.0	324.7	471.5	730.6	2051.3	3628.0	4767.6	4823.8	4489.8	3275.2
77.5°	68.7	68.7	84.3	109.3	149.9	418.4	1845.2	3037.9	3094.1	2959.9	2041.9
80°	53.1	53.1	62.4	74.9	96.8	215.4	640.1	1120.9	1189.6	1270.7	843.0
82.5°	34.3	37.5	40.6	43.7	43.7	87.4	171.7	287.2	284.1	309.1	271.6
85°	21.9	21.9	18.7	18.7	15.6	21.9	15.6	18.7	21.9	21.9	25.0
87.5°	3.1	0.0	0.0	0.0	0.0	3.1	3.1	6.2	6.2	6.2	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°	1489.3	1489.3	1489.3	1489.3	1489.3	1489.3	1489.3	1489.3	1489.3	1489.3	1489.3
2.5°	1495.5	1498.7	1501.8	1504.9	1511.2	1511.2	1514.3	1514.3	1514.3	1514.3	1514.3
5°	1514.3	1517.4	1526.8	1536.1	1558.0	1570.5	1583.0	1592.3	1592.3	1598.6	1598.6
7.5°	1542.4	1551.7	1579.8	1592.3	1611.1	1629.8	1639.2	1642.3	1648.5	1648.5	1648.5
10°	1589.2	1598.6	1620.4	1629.8	1639.2	1639.2	1636.0	1632.9	1623.6	1620.4	1623.6
12.5°	1632.9	1645.4	1645.4	1642.3	1632.9	1620.4	1604.8	1589.2	1573.6	1561.1	1561.1
15°	1686.0	1679.8	1661.0	1636.0	1611.1	1579.8	1548.6	1520.5	1495.5	1486.2	1486.2
17.5°	1732.8	1717.2	1676.6	1629.8	1576.7	1526.8	1476.8	1430.0	1386.3	1370.7	1361.3
20°	1789.0	1760.9	1689.1	1617.3	1542.4	1464.3	1380.0	1295.7	1220.8	1189.6	1186.4
22.5°	1854.6	1807.8	1707.9	1598.6	1498.7	1380.0	1239.5	1120.9	1045.9	1008.5	1002.2
25°	1932.7	1864.0	1726.6	1583.0	1445.6	1270.7	1083.4	949.2	855.5	814.9	799.3
27.5°	2029.4	1938.9	1751.6	1564.2	1364.4	1136.5	924.2	768.1	665.0	615.1	608.8
30°	2154.3	2029.4	1776.5	1536.1	1264.5	980.4	752.5	577.6	474.6	424.6	412.1
32.5°	2441.6	2213.7	1807.8	1489.3	1139.6	830.5	568.2	387.2	284.1	237.3	234.2
35°	2928.6	2628.9	1879.6	1426.9	1014.7	652.5	365.3	206.1	153.0	134.3	134.3
37.5°	3293.9	2975.5	2073.2	1345.7	852.4	437.1	187.3	121.8	96.8	93.7	93.7
40°	3512.5	3181.5	2285.5	1255.1	658.8	234.2	115.5	93.7	87.4	84.3	84.3
42.5°	3693.6	3353.3	2385.4	1142.7	418.4	131.1	96.8	87.4	81.2	78.1	78.1
45°	3843.5	3484.4	2397.9	999.1	234.2	109.3	90.5	78.1	74.9	71.8	71.8
47.5°	3962.1	3596.8	2366.6	796.2	146.7	103.0	84.3	71.8	65.6	65.6	65.6
50°	4074.5	3693.6	2279.2	627.6	137.4	96.8	78.1	65.6	62.4	62.4	62.4
52.5°	4177.5	3762.3	2132.5	505.8	128.0	90.5	74.9	62.4	56.2	59.3	59.3
55°	4261.8	3790.4	1982.6	390.3	121.8	87.4	71.8	59.3	53.1	53.1	53.1
57.5°	4308.7	3731.1	1857.7	296.6	118.6	84.3	68.7	56.2	46.8	43.7	43.7
60°	4311.8	3653.0	1742.2	249.8	112.4	78.1	65.6	50.0	40.6	37.5	37.5
62.5°	4255.6	3559.3	1567.4	215.4	106.2	74.9	59.3	46.8	37.5	34.3	34.3
65°	4146.3	3393.9	1373.8	184.2	103.0	74.9	53.1	43.7	37.5	31.2	31.2
67.5°	3971.5	3119.1	1114.6	162.4	96.8	68.7	53.1	40.6	34.3	31.2	31.2
70°	3640.5	2725.7	771.2	140.5	90.5	62.4	50.0	40.6	34.3	28.1	28.1
72.5°	3137.8	2213.7	380.9	115.5	78.1	62.4	50.0	37.5	31.2	28.1	28.1
75°	2426.0	1586.1	231.0	93.7	62.4	56.2	46.8	37.5	31.2	25.0	25.0
77.5°	1426.9	705.6	165.5	71.8	46.8	43.7	40.6	34.3	28.1	25.0	25.0
80°	521.4	299.7	121.8	56.2	37.5	37.5	31.2	28.1	25.0	21.9	21.9
82.5°	202.9	159.2	81.2	40.6	31.2	28.1	25.0	21.9	18.7	18.7	18.7
85°	28.1	28.1	28.1	21.9	18.7	18.7	15.6	15.6	12.5	12.5	12.5
87.5°	9.4	9.4	9.4	12.5	9.4	9.4	6.2	6.2	6.2	9.4	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

(END OF REPORT)