

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: P507698

Luminaire Tested: **VERD-S-CA1-70-750-U-T3-HSS**

Issue Date: 3/30/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P507698  
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-CA1-70-750-U-T3-HSS  
Description: VERDEON-S ROADWAY AND AREA LUMINAIRE  
(1) 70 CRI, 5000K, 1330mA LED AND TYPE III OPTIC WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9344 lumens  
Efficiency: N/A  
Efficacy: 127.1 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

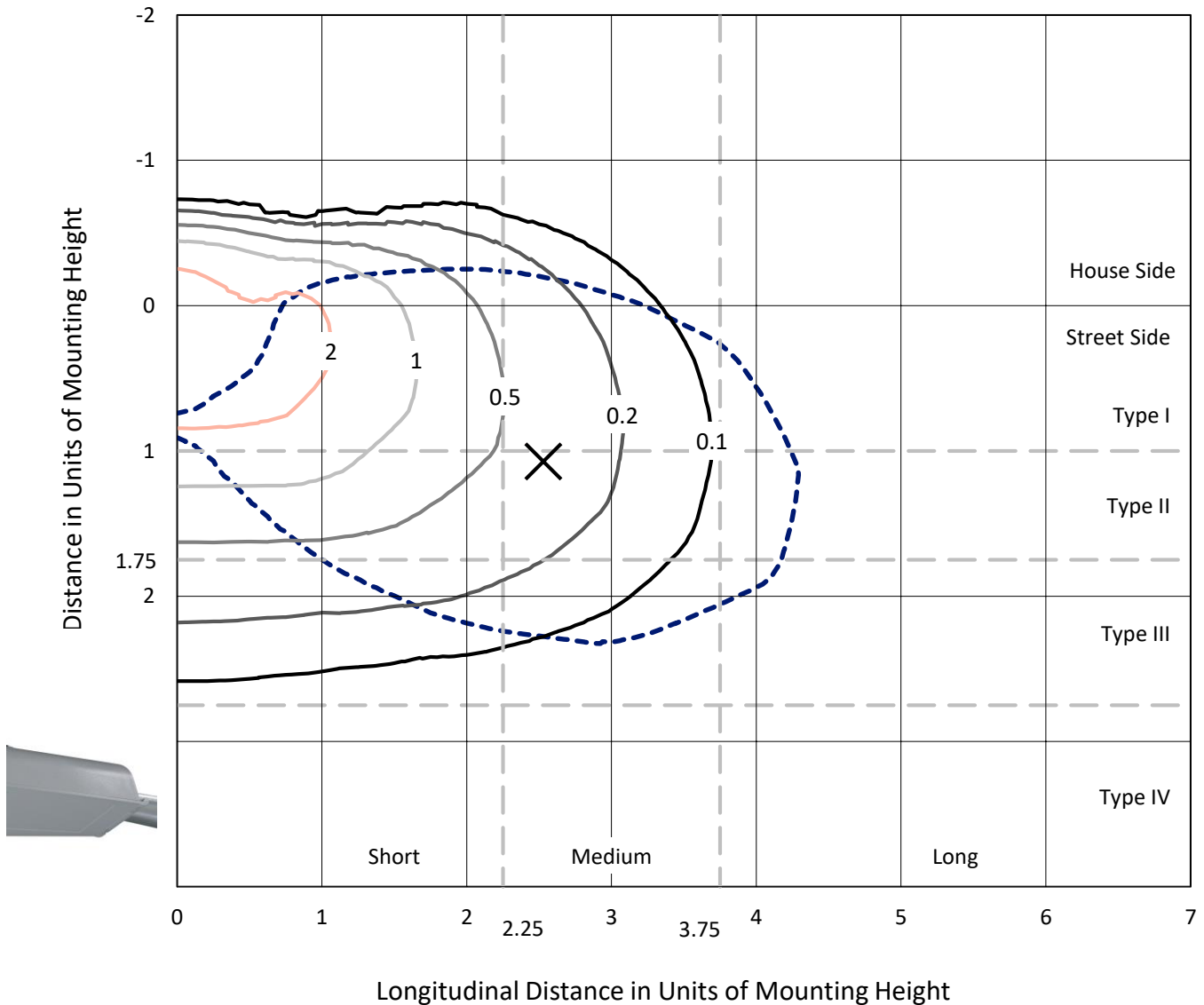
Input Watts (W): 73.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

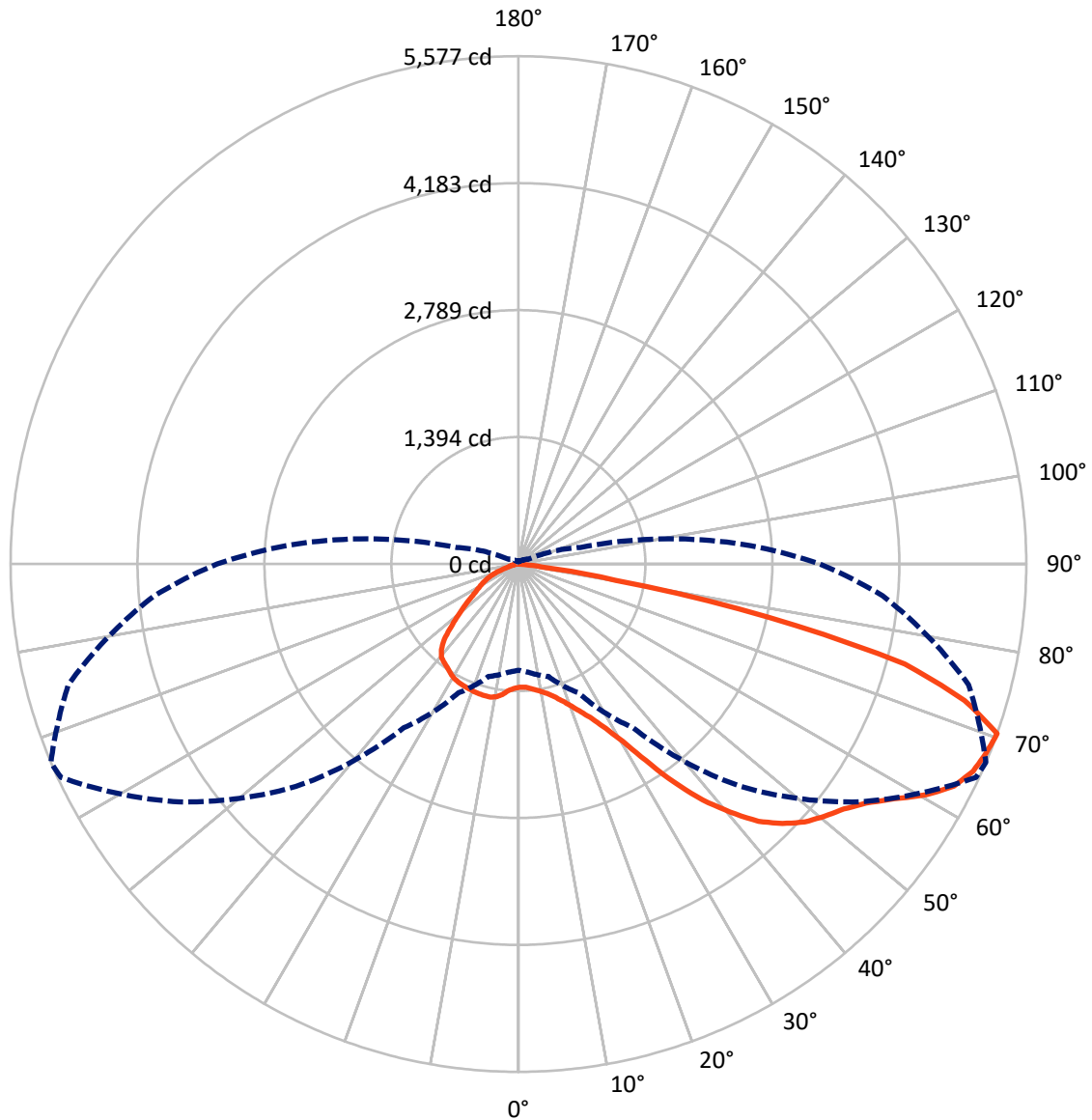
× Max cd  
 - - - 1/2 Max cd



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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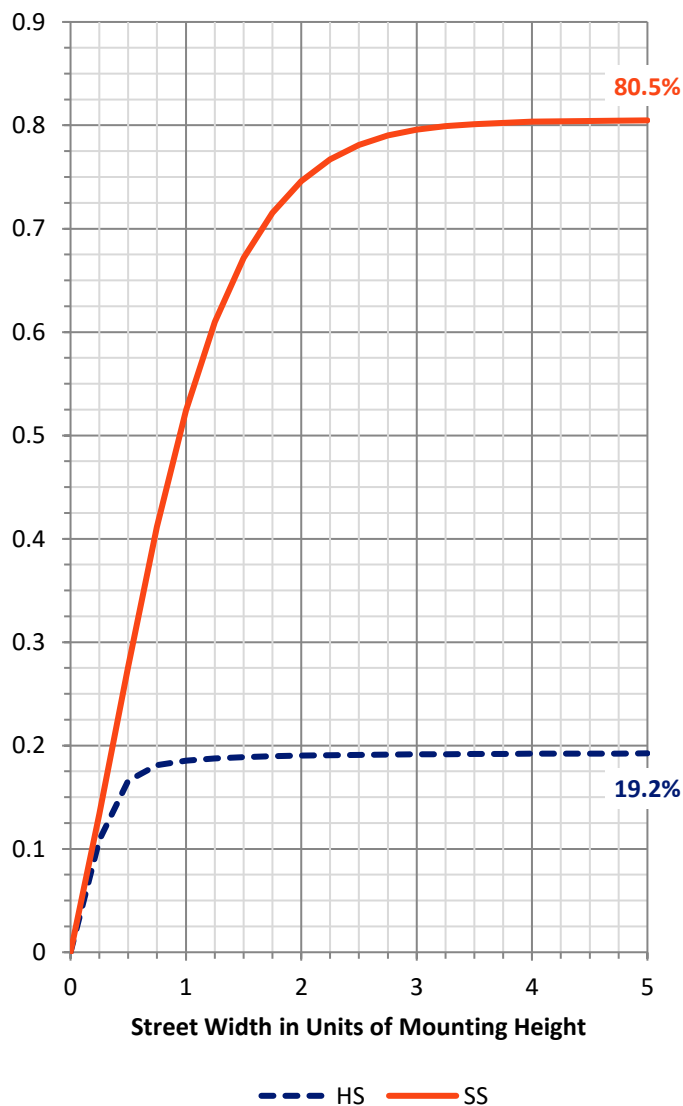
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1821.0	0.0	1821.0
	% Fixture	19.5	0.0	19.5
<b>Street Side</b>	Lumens	7523.0	0.0	7523.0
	% Fixture	80.5	0.0	80.5
<b>Total</b>	Lumens	9344.0	0.0	9344.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	136.2	1.5
10°-20°	431.3	4.6
20°-30°	749.6	8.0
30°-40°	1173.8	12.6
40°-50°	1651.6	17.7
50°-60°	1969.8	21.1
60°-70°	2041.2	21.8
70°-80°	1126.3	12.1
80°-90°	64.1	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°	9344.0	100.0
0°-180°	9344.0	100.0

**Coefficient of Utilization**



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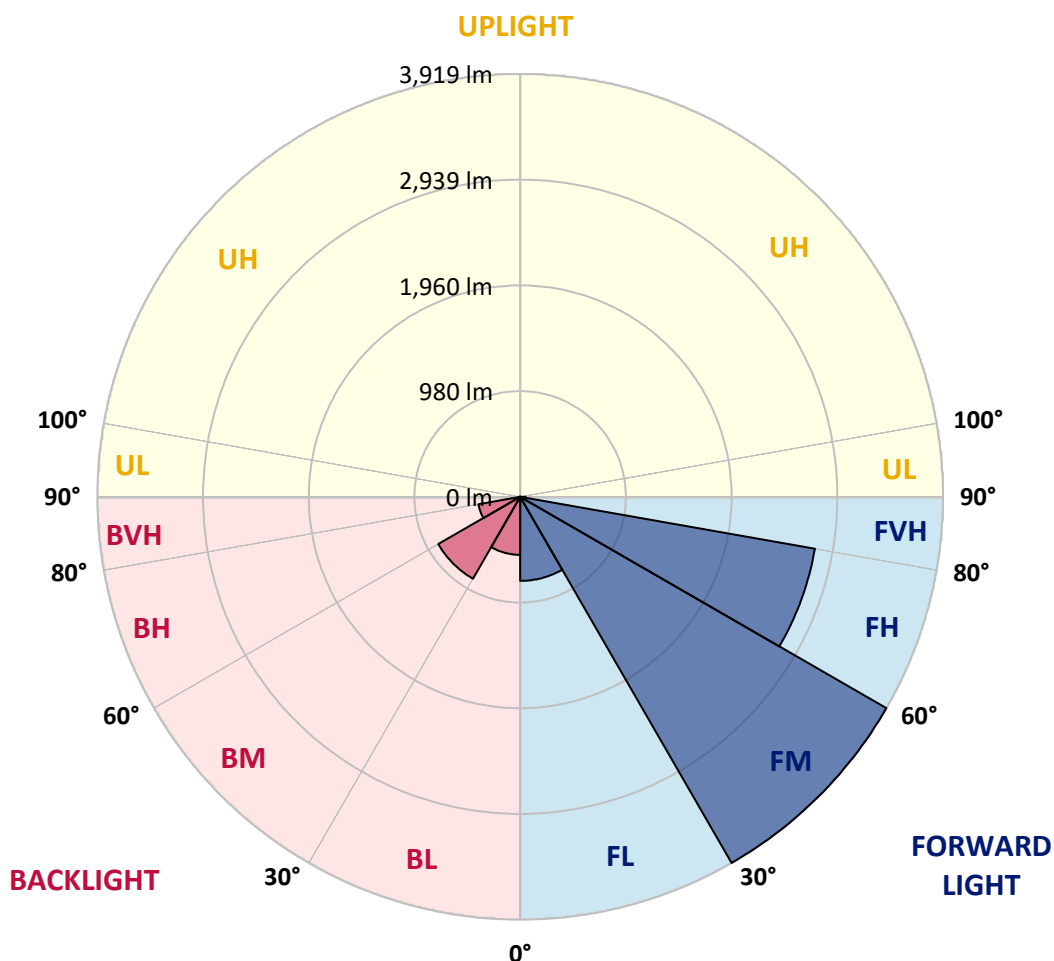
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	779.4	8.3			
FM (30°-60°)	3919.3	41.9			
FH (60°-80°)	2774.4	29.7			G2/5000
FVH (80°-90°)	49.8	0.5			G1/100
BL (0°-30°)	537.7	5.8	B2/1000		
BM (30°-60°)	875.9	9.4	B1/1000		
BH (60°-80°)	393.1	4.2	B1/500		G1/500
BVH (80°-90°)	14.3	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°	1353.2	1353.2	1353.2	1353.2	1353.2	1353.2	1353.2	1353.2	1353.2	1353.2	1353.2
2.5°	1361.7	1361.7	1361.7	1358.8	1358.8	1358.8	1356.0	1353.2	1353.2	1353.2	1356.0
5°	1398.6	1398.6	1395.7	1392.9	1390.1	1381.5	1375.9	1373.0	1373.0	1370.2	1375.9
7.5°	1444.0	1444.0	1444.0	1438.3	1429.8	1418.4	1407.1	1398.6	1395.7	1392.9	1395.7
10°	1512.0	1512.0	1506.4	1497.9	1483.7	1466.6	1446.8	1429.8	1426.9	1421.3	1426.9
12.5°	1600.0	1591.5	1585.8	1571.6	1554.6	1526.2	1495.0	1469.5	1463.8	1458.1	1478.0
15°	1690.8	1687.9	1673.7	1665.2	1636.9	1600.0	1557.4	1523.4	1517.7	1506.4	1523.4
17.5°	1798.6	1801.4	1795.7	1781.5	1741.8	1687.9	1636.9	1588.6	1583.0	1574.4	1583.0
20°	1946.1	1940.4	1929.0	1909.2	1863.8	1792.9	1727.6	1673.7	1665.2	1659.6	1651.0
22.5°	2093.6	2096.4	2073.7	2053.9	1997.1	1929.0	1841.1	1775.9	1764.5	1761.7	1722.0
25°	2235.4	2241.1	2232.6	2207.1	2158.8	2070.9	1974.4	1895.0	1880.8	1878.0	1809.9
27.5°	2382.9	2385.8	2394.3	2382.9	2331.9	2241.1	2133.3	2042.5	2042.5	2019.8	1917.7
30°	2524.8	2530.5	2536.1	2536.1	2510.6	2431.2	2337.6	2258.1	2258.1	2241.1	2065.2
32.5°	2635.4	2638.3	2672.3	2700.7	2700.7	2643.9	2581.5	2573.0	2570.2	2601.4	2402.8
35°	2734.7	2743.2	2791.4	2868.0	2899.2	2876.6	2879.4	2910.6	2941.8	3018.4	2868.0
37.5°	2808.5	2819.8	2865.2	2953.1	3041.1	3100.7	3157.4	3242.5	3290.7	3407.0	3200.0
40°	2828.3	2842.5	2939.0	3063.8	3205.6	3341.8	3443.9	3548.9	3580.1	3662.4	3401.4
42.5°	2765.9	2780.1	2902.1	3154.6	3353.1	3565.9	3676.5	3809.9	3863.8	3832.6	3568.7
45°	2723.4	2731.9	2859.5	3146.1	3480.8	3784.3	3892.1	4031.1	4065.2	3991.4	3707.7
47.5°	2669.5	2678.0	2811.3	3134.7	3585.8	3971.6	4045.3	4198.5	4232.6	4119.1	3826.9
50°	2590.0	2595.7	2748.9	3112.0	3653.8	4104.9	4187.2	4340.4	4354.5	4238.2	3940.4
52.5°	2493.6	2510.6	2658.1	3058.1	3702.1	4187.2	4286.5	4451.0	4470.9	4391.4	4065.2
55°	2363.1	2382.9	2553.2	2978.7	3685.1	4215.5	4331.9	4598.5	4632.6	4567.3	4170.2
57.5°	2229.8	2258.1	2425.5	2868.0	3617.0	4258.1	4482.2	4817.0	4862.3	4740.4	4255.3
60°	2093.6	2104.9	2278.0	2717.7	3503.5	4300.6	4652.4	5103.5	5146.0	4910.6	4323.3
62.5°	1937.6	1951.7	2104.9	2510.6	3307.8	4260.9	4780.1	5344.6	5370.1	5052.4	4351.7
65°	1756.0	1756.0	1886.5	2258.1	3043.9	4119.1	4797.1	5469.4	5486.4	5143.2	4317.7
67.5°	1503.5	1514.9	1619.8	1946.1	2689.3	3841.1	4700.6	5497.8	5540.3	5199.9	4224.1
70°	1165.9	1191.5	1279.4	1560.3	2195.7	3455.3	4556.0	5543.2	5577.2	5117.7	4014.1
72.5°	797.2	822.7	902.1	1069.5	1583.0	2771.6	4121.9	5114.8	5123.3	4717.7	3605.6
75°	209.9	232.6	295.0	428.4	663.8	1863.8	3296.4	4331.9	4382.9	4079.4	2975.8
77.5°	62.4	62.4	76.6	99.3	136.2	380.1	1676.6	2760.2	2811.3	2689.3	1855.3
80°	48.2	48.2	56.7	68.1	87.9	195.7	581.6	1018.4	1080.8	1154.6	765.9
82.5°	31.2	34.0	36.9	39.7	39.7	79.4	156.0	261.0	258.2	280.8	246.8
85°	19.9	19.9	17.0	17.0	14.2	19.9	14.2	17.0	19.9	19.9	22.7
87.5°	2.8	0.0	0.0	0.0	0.0	2.8	2.8	5.7	5.7	5.7	8.5
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°	1353.2	1353.2	1353.2	1353.2	1353.2	1353.2	1353.2	1353.2	1353.2	1353.2	1353.2
2.5°	1358.8	1361.7	1364.5	1367.4	1373.0	1373.0	1375.9	1375.9	1375.9	1375.9	1375.9
5°	1375.9	1378.7	1387.2	1395.7	1415.6	1426.9	1438.3	1446.8	1446.8	1452.5	1452.5
7.5°	1401.4	1409.9	1435.4	1446.8	1463.8	1480.8	1489.3	1492.2	1497.9	1497.9	1497.9
10°	1444.0	1452.5	1472.3	1480.8	1489.3	1489.3	1486.5	1483.7	1475.2	1472.3	1475.2
12.5°	1483.7	1495.0	1495.0	1492.2	1483.7	1472.3	1458.1	1444.0	1429.8	1418.4	1418.4
15°	1531.9	1526.2	1509.2	1486.5	1463.8	1435.4	1407.1	1381.5	1358.8	1350.3	1350.3
17.5°	1574.4	1560.3	1523.4	1480.8	1432.6	1387.2	1341.8	1299.3	1259.6	1245.4	1236.9
20°	1625.5	1600.0	1534.7	1469.5	1401.4	1330.5	1253.9	1177.3	1109.2	1080.8	1078.0
22.5°	1685.1	1642.5	1551.8	1452.5	1361.7	1253.9	1126.2	1018.4	950.3	916.3	910.6
25°	1756.0	1693.6	1568.8	1438.3	1313.5	1154.6	984.4	862.4	777.3	740.4	726.2
27.5°	1843.9	1761.7	1591.5	1421.3	1239.7	1032.6	839.7	697.9	604.2	558.9	553.2
30°	1957.4	1843.9	1614.2	1395.7	1148.9	890.8	683.7	524.8	431.2	385.8	374.5
32.5°	2218.4	2011.3	1642.5	1353.2	1035.4	754.6	516.3	351.8	258.2	215.6	212.8
35°	2661.0	2388.6	1707.8	1296.4	922.0	592.9	331.9	187.2	139.0	122.0	122.0
37.5°	2992.9	2703.5	1883.7	1222.7	774.5	397.2	170.2	110.6	87.9	85.1	85.1
40°	3191.4	2890.7	2076.6	1140.4	598.6	212.8	105.0	85.1	79.4	76.6	76.6
42.5°	3356.0	3046.8	2167.3	1038.3	380.1	119.1	87.9	79.4	73.8	70.9	70.9
45°	3492.1	3165.9	2178.7	907.8	212.8	99.3	82.3	70.9	68.1	65.2	65.2
47.5°	3599.9	3268.0	2150.3	723.4	133.3	93.6	76.6	65.2	59.6	59.6	59.6
50°	3702.1	3356.0	2070.9	570.2	124.8	87.9	70.9	59.6	56.7	56.7	56.7
52.5°	3795.7	3418.4	1937.6	459.6	116.3	82.3	68.1	56.7	51.1	53.9	53.9
55°	3872.3	3443.9	1801.4	354.6	110.6	79.4	65.2	53.9	48.2	48.2	48.2
57.5°	3914.8	3390.0	1687.9	269.5	107.8	76.6	62.4	51.1	42.6	39.7	39.7
60°	3917.7	3319.1	1583.0	226.9	102.1	70.9	59.6	45.4	36.9	34.0	34.0
62.5°	3866.6	3234.0	1424.1	195.7	96.5	68.1	53.9	42.6	34.0	31.2	31.2
65°	3767.3	3083.6	1248.2	167.4	93.6	68.1	48.2	39.7	34.0	28.4	28.4
67.5°	3608.5	2834.0	1012.8	147.5	87.9	62.4	48.2	36.9	31.2	28.4	28.4
70°	3307.8	2476.6	700.7	127.7	82.3	56.7	45.4	36.9	31.2	25.5	25.5
72.5°	2851.0	2011.3	346.1	105.0	70.9	56.7	45.4	34.0	28.4	25.5	25.5
75°	2204.2	1441.1	209.9	85.1	56.7	51.1	42.6	34.0	28.4	22.7	22.7
77.5°	1296.4	641.1	150.4	65.2	42.6	39.7	36.9	31.2	25.5	22.7	22.7
80°	473.8	272.3	110.6	51.1	34.0	34.0	28.4	25.5	22.7	19.9	19.9
82.5°	184.4	144.7	73.8	36.9	28.4	25.5	22.7	19.9	17.0	17.0	17.0
85°	25.5	25.5	25.5	19.9	17.0	17.0	14.2	14.2	11.3	11.3	11.3
87.5°	8.5	8.5	8.5	11.3	8.5	8.5	5.7	5.7	5.7	8.5	8.5
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)