

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: P507688

Luminaire Tested: **VERD-S-CA1-70-740-U-T2-HSS**

Issue Date: 3/30/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P507688  
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-CA1-70-740-U-T2-HSS  
Description: VERDEON-S ROADWAY AND AREA LUMINAIRE  
(1) 70 CRI, 4000K, 1330mA LED AND TYPE II OPTIC WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9123 lumens  
Efficiency: N/A  
Efficacy: 124.1 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

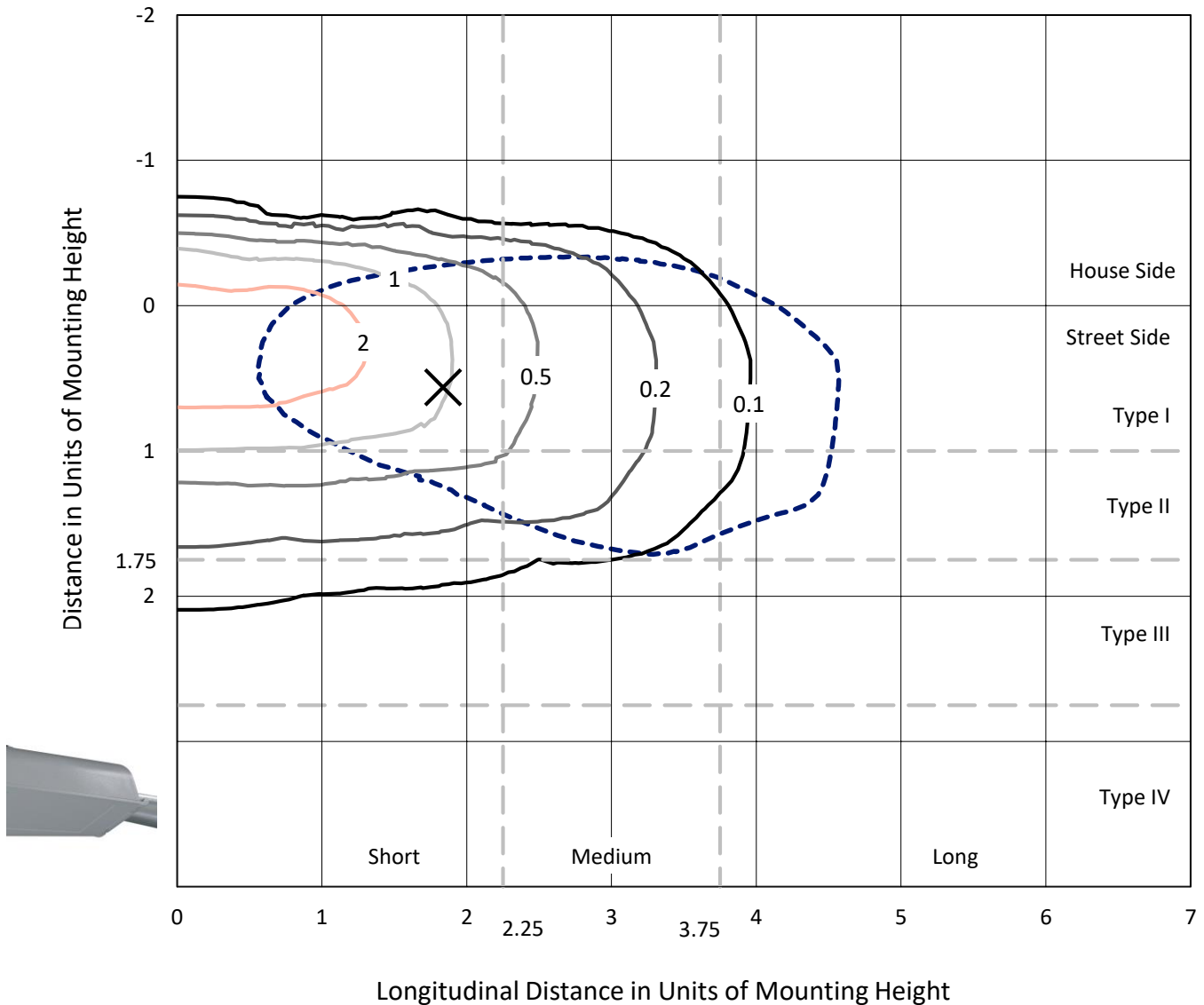
Input Watts (W): 73.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

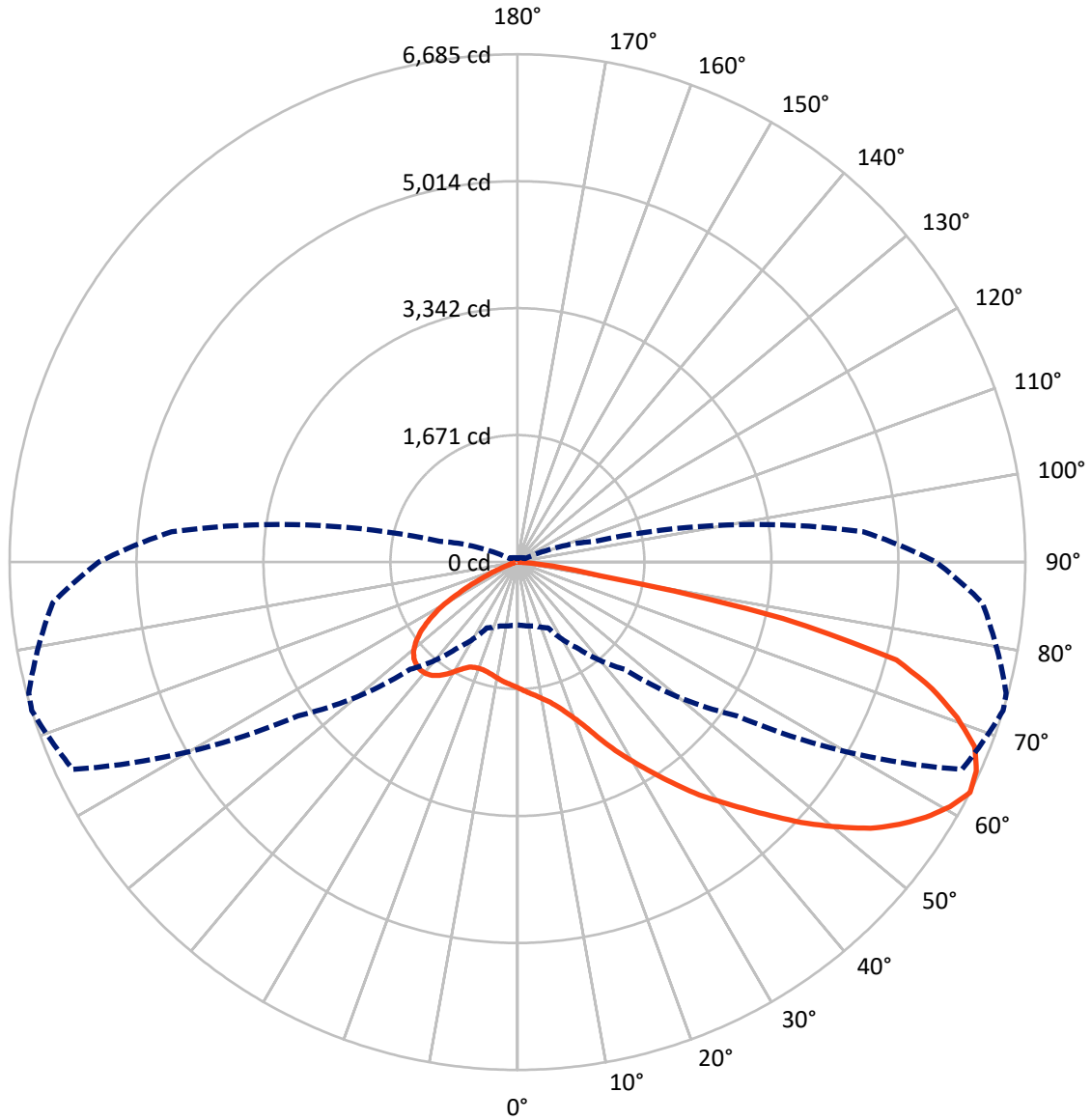
✕ Max cd  
 - - - 1/2 Max cd



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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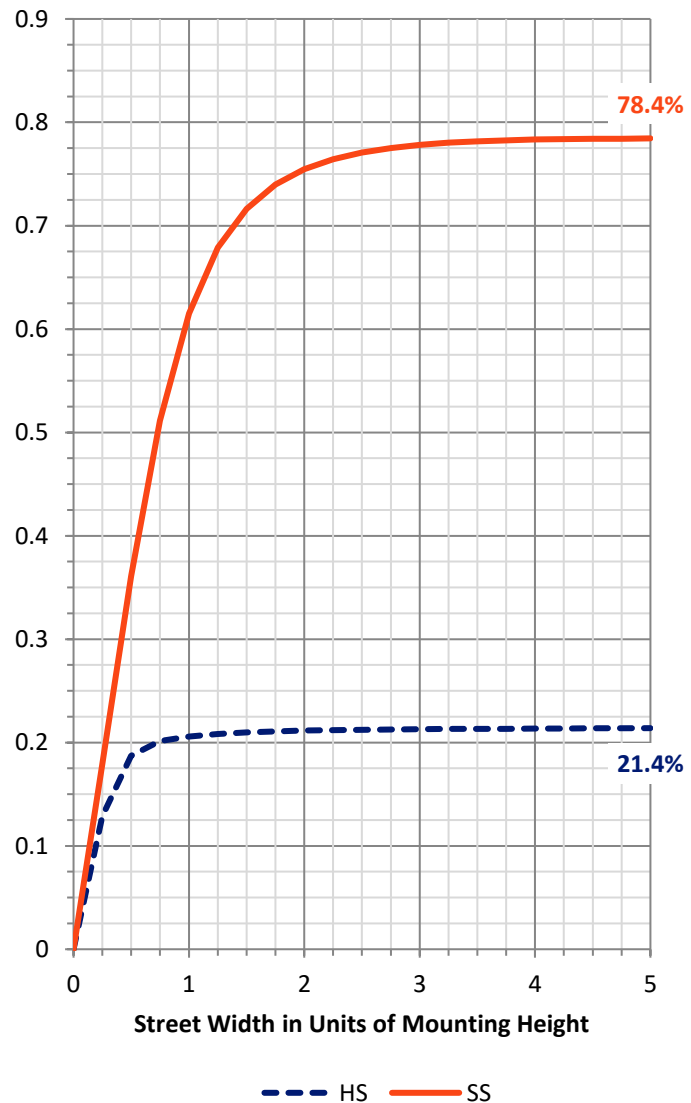
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1976.1	0.0	1976.1
	% Fixture	21.7	0.0	21.7
<b>Street Side</b>	Lumens	7146.9	0.0	7146.9
	% Fixture	78.3	0.0	78.3
<b>Total</b>	Lumens	9123.0	0.0	9123.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	158.5	1.7
10°-20°	477.1	5.2
20°-30°	825.3	9.0
30°-40°	1212.1	13.3
40°-50°	1575.5	17.3
50°-60°	1826.7	20.0
60°-70°	1838.4	20.2
70°-80°	1120.2	12.3
80°-90°	89.2	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°	9123.0	100.0
0°-180°	9123.0	100.0



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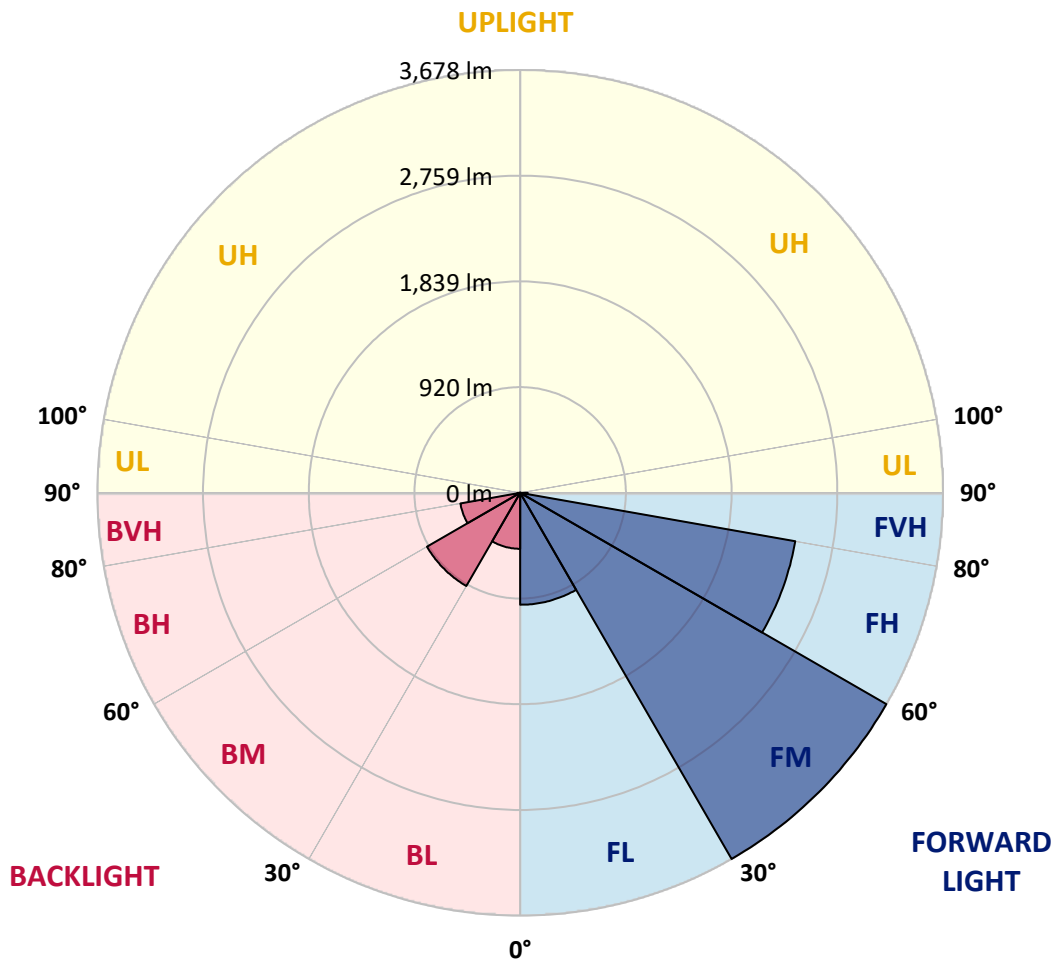
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	973.8	10.7			
FM (30°-60°)	3678.2	40.3			
FH (60°-80°)	2430.1	26.6			G2/5000
FVH (80°-90°)	64.8	0.7			G1/100
BL (0°-30°)	487.2	5.3	B1/500		
BM (30°-60°)	936.1	10.3	B1/1000		
BH (60°-80°)	528.5	5.8	B2/1000		G2/1000
BVH (80°-90°)	24.4	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°	1657.3	1657.3	1657.3	1657.3	1657.3	1657.3	1657.3	1657.3	1657.3	1657.3	1657.3
2.5°	1768.7	1768.7	1765.9	1763.1	1752.0	1740.8	1724.1	1710.2	1696.3	1690.7	1668.4
5°	1871.7	1871.7	1869.0	1857.8	1843.9	1824.4	1796.5	1760.3	1735.3	1732.5	1693.5
7.5°	1958.1	1955.3	1952.5	1946.9	1933.0	1907.9	1866.2	1818.8	1777.0	1765.9	1718.5
10°	2041.6	2044.4	2038.9	2024.9	2008.2	1977.6	1935.8	1880.1	1830.0	1813.2	1740.8
12.5°	2130.8	2128.0	2119.6	2102.9	2080.6	2055.6	2011.0	1955.3	1888.5	1871.7	1777.0
15°	2206.0	2208.8	2194.8	2183.7	2161.4	2133.6	2094.6	2038.9	1972.0	1952.5	1830.0
17.5°	2272.8	2272.8	2270.0	2264.5	2247.8	2228.3	2189.3	2150.3	2080.6	2050.0	1910.7
20°	2323.0	2325.7	2331.3	2342.5	2345.2	2328.5	2309.0	2281.2	2214.3	2183.7	2011.0
22.5°	2367.5	2373.1	2395.4	2428.8	2456.7	2456.7	2453.9	2451.1	2384.2	2364.7	2158.6
25°	2378.7	2387.0	2437.2	2509.6	2554.1	2590.4	2640.5	2660.0	2609.8	2576.4	2350.8
27.5°	2395.4	2403.7	2459.4	2545.8	2657.2	2738.0	2827.1	2877.2	2841.0	2807.6	2570.9
30°	2381.5	2392.6	2453.9	2576.4	2724.0	2894.0	3005.4	3080.6	3069.4	3049.9	2799.3
32.5°	2345.2	2356.4	2428.8	2579.2	2804.8	3052.7	3178.1	3295.0	3325.7	3309.0	3038.8
35°	2272.8	2284.0	2373.1	2556.9	2843.8	3172.5	3350.7	3523.4	3593.1	3581.9	3300.6
37.5°	2180.9	2180.9	2286.8	2490.1	2857.7	3264.4	3503.9	3751.8	3888.3	3871.6	3565.2
40°	2027.7	2055.6	2186.5	2417.7	2835.5	3331.2	3651.6	3988.6	4158.5	4150.1	3852.1
42.5°	1874.5	1896.8	2022.1	2292.3	2782.5	3370.2	3774.1	4236.5	4456.5	4450.9	4127.9
45°	1738.0	1754.8	1857.8	2119.6	2671.1	3381.4	3891.1	4501.1	4785.2	4774.0	4409.2
47.5°	1562.6	1596.0	1726.9	1958.1	2517.9	3348.0	3999.7	4832.5	5141.7	5130.6	4712.8
50°	1183.8	1206.0	1479.0	1827.2	2320.2	3264.4	4088.9	5158.4	5478.7	5456.5	4988.5
52.5°	1075.1	1089.1	1175.4	1665.6	2136.3	3114.0	4144.6	5548.4	5821.3	5785.1	5272.6
55°	1005.5	1016.6	1066.8	1334.2	1974.8	2860.5	4161.3	5916.0	6097.1	6060.9	5534.4
57.5°	944.2	949.8	999.9	1136.4	1782.6	2540.2	4102.8	6189.0	6339.4	6300.4	5760.1
60°	880.2	888.5	935.9	1036.1	1551.4	2245.0	3921.7	6406.2	6539.9	6506.5	5957.8
62.5°	827.2	838.4	869.0	955.4	1384.3	1994.3	3526.2	6456.4	6684.8	6659.7	6141.6
65°	763.2	771.5	810.5	882.9	1211.6	1838.3	3125.1	6308.8	6637.4	6668.1	6244.7
67.5°	688.0	696.3	729.8	785.5	1016.6	1674.0	2774.2	6099.9	6492.6	6534.4	6169.5
70°	596.1	601.6	635.1	688.0	844.0	1459.5	2406.5	5793.5	6141.6	6172.3	5871.5
72.5°	495.8	495.8	520.9	582.1	693.5	1208.8	1930.2	5147.3	5712.7	5787.9	5367.3
75°	208.9	220.0	264.6	320.3	442.9	882.9	1320.2	3963.5	5152.9	5216.9	4740.6
77.5°	41.8	44.6	50.1	75.2	117.0	384.4	409.4	1729.7	3576.4	3618.1	3462.2
80°	33.4	33.4	36.2	55.7	78.0	178.3	133.7	565.4	1114.1	1434.4	1849.5
82.5°	11.1	13.9	19.5	30.6	39.0	39.0	44.6	284.1	551.5	593.3	746.5
85°	5.6	5.6	8.4	11.1	11.1	11.1	11.1	50.1	94.7	114.2	158.8
87.5°	2.8	0.0	0.0	0.0	0.0	0.0	2.8	5.6	8.4	8.4	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°	1657.3	1657.3	1657.3	1657.3	1657.3	1657.3	1657.3	1657.3	1657.3	1657.3	1657.3
2.5°	1657.3	1648.9	1629.4	1615.5	1596.0	1579.3	1559.8	1548.6	1543.1	1540.3	1534.7
5°	1671.2	1648.9	1609.9	1568.1	1531.9	1504.1	1465.1	1445.6	1434.4	1428.9	1426.1
7.5°	1687.9	1660.1	1593.2	1529.1	1465.1	1417.7	1370.4	1339.7	1325.8	1323.0	1320.2
10°	1699.0	1654.5	1565.4	1495.7	1412.2	1337.0	1281.2	1245.0	1225.5	1222.8	1220.0
12.5°	1721.3	1662.8	1543.1	1442.8	1356.5	1259.0	1200.5	1158.7	1139.2	1122.5	1122.5
15°	1757.5	1682.3	1531.9	1398.2	1284.0	1189.3	1114.1	1069.6	1055.6	1033.4	1027.8
17.5°	1818.8	1718.5	1523.6	1353.7	1217.2	1122.5	1033.4	986.0	977.6	958.2	947.0
20°	1894.0	1771.5	1529.1	1311.9	1147.6	1038.9	949.8	902.4	874.6	857.9	852.3
22.5°	2013.8	1849.5	1548.6	1281.2	1086.3	963.7	869.0	793.8	732.5	710.3	710.3
25°	2183.7	1983.2	1582.1	1256.2	1025.0	891.3	774.3	646.2	565.4	534.8	526.4
27.5°	2375.9	2153.1	1660.1	1233.9	974.9	810.5	637.8	495.8	409.4	381.6	381.6
30°	2595.9	2331.3	1754.8	1220.0	913.6	688.0	481.9	362.1	292.5	261.8	259.0
32.5°	2813.2	2515.1	1866.2	1208.8	849.5	537.6	348.2	264.6	206.1	183.8	186.6
35°	3030.4	2696.2	1960.9	1208.8	743.7	387.2	247.9	183.8	147.6	136.5	136.5
37.5°	3275.5	2899.5	2036.1	1192.1	584.9	275.7	169.9	133.7	122.6	117.0	117.0
40°	3529.0	3088.9	2086.2	1155.9	417.8	189.4	119.8	117.0	111.4	103.1	100.3
42.5°	3765.8	3306.2	2116.8	1086.3	273.0	125.3	105.8	108.6	105.8	91.9	89.1
45°	4016.4	3481.7	2133.6	947.0	181.0	103.1	94.7	100.3	103.1	91.9	89.1
47.5°	4267.1	3673.8	2144.7	738.1	119.8	100.3	89.1	97.5	100.3	89.1	86.3
50°	4531.7	3849.3	2128.0	473.5	105.8	94.7	86.3	89.1	94.7	89.1	86.3
52.5°	4762.9	4008.1	2050.0	264.6	103.1	91.9	80.8	83.6	91.9	86.3	86.3
55°	4999.7	4164.1	1905.2	156.0	100.3	86.3	80.8	83.6	86.3	80.8	83.6
57.5°	5214.1	4314.5	1687.9	128.1	100.3	83.6	83.6	78.0	78.0	72.4	72.4
60°	5378.5	4450.9	1428.9	119.8	94.7	86.3	78.0	72.4	66.8	61.3	61.3
62.5°	5509.4	4567.9	1061.2	111.4	91.9	83.6	72.4	64.1	55.7	50.1	50.1
65°	5581.8	4593.0	749.3	100.3	86.3	80.8	66.8	55.7	44.6	41.8	41.8
67.5°	5498.2	4462.1	456.8	94.7	80.8	78.0	64.1	50.1	39.0	36.2	36.2
70°	5177.9	4111.1	256.2	86.3	72.4	69.6	58.5	44.6	36.2	30.6	30.6
72.5°	4648.7	3595.9	128.1	72.4	61.3	61.3	52.9	39.0	33.4	27.9	27.9
75°	3927.3	2949.7	91.9	52.9	50.1	50.1	44.6	36.2	30.6	25.1	25.1
77.5°	2877.2	1944.2	75.2	44.6	36.2	36.2	39.0	33.4	27.9	22.3	22.3
80°	1490.1	963.7	64.1	33.4	30.6	27.9	27.9	27.9	22.3	19.5	19.5
82.5°	660.1	370.4	41.8	25.1	25.1	22.3	22.3	22.3	19.5	16.7	16.7
85°	128.1	69.6	22.3	19.5	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	8.4	8.4	8.4	8.4	8.4	8.4
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)