

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: P507594

Luminaire Tested: **VERD-S-CA1-50-740-U-T3-HSS**

Issue Date: 3/30/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P507594  
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-CA1-50-740-U-T3-HSS  
Description: VERDEON-S ROADWAY AND AREA LUMINAIRE  
(1) 70 CRI, 4000K, 940mA LED AND TYPE III OPTIC WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6901 lumens  
Efficiency: N/A  
Efficacy: 129.0 lumens/watt  
Luminous Opening: Rectangular (W 0.83' x L: 0.83' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B1 - U0 - G2

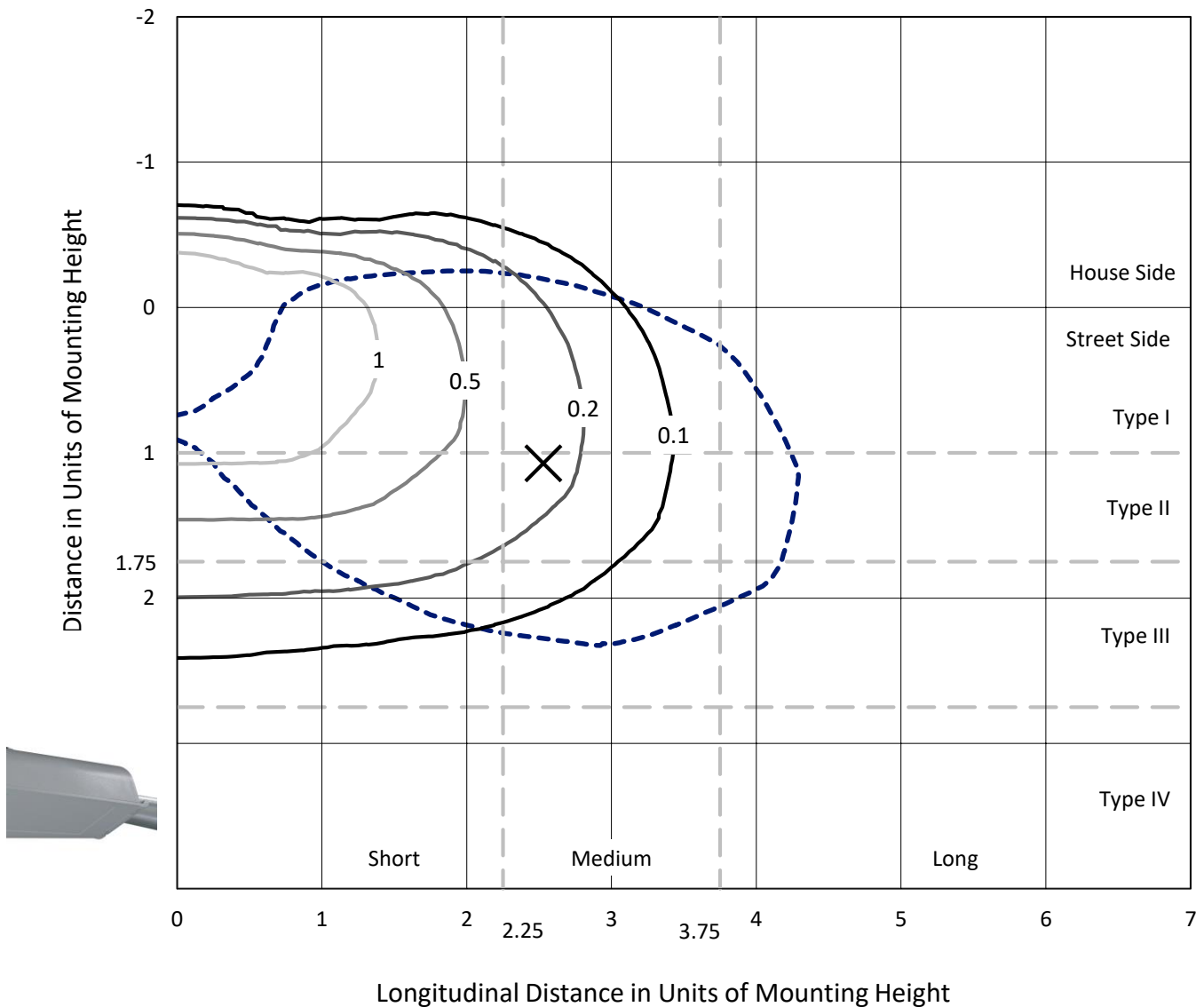
Input Watts (W): 53.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

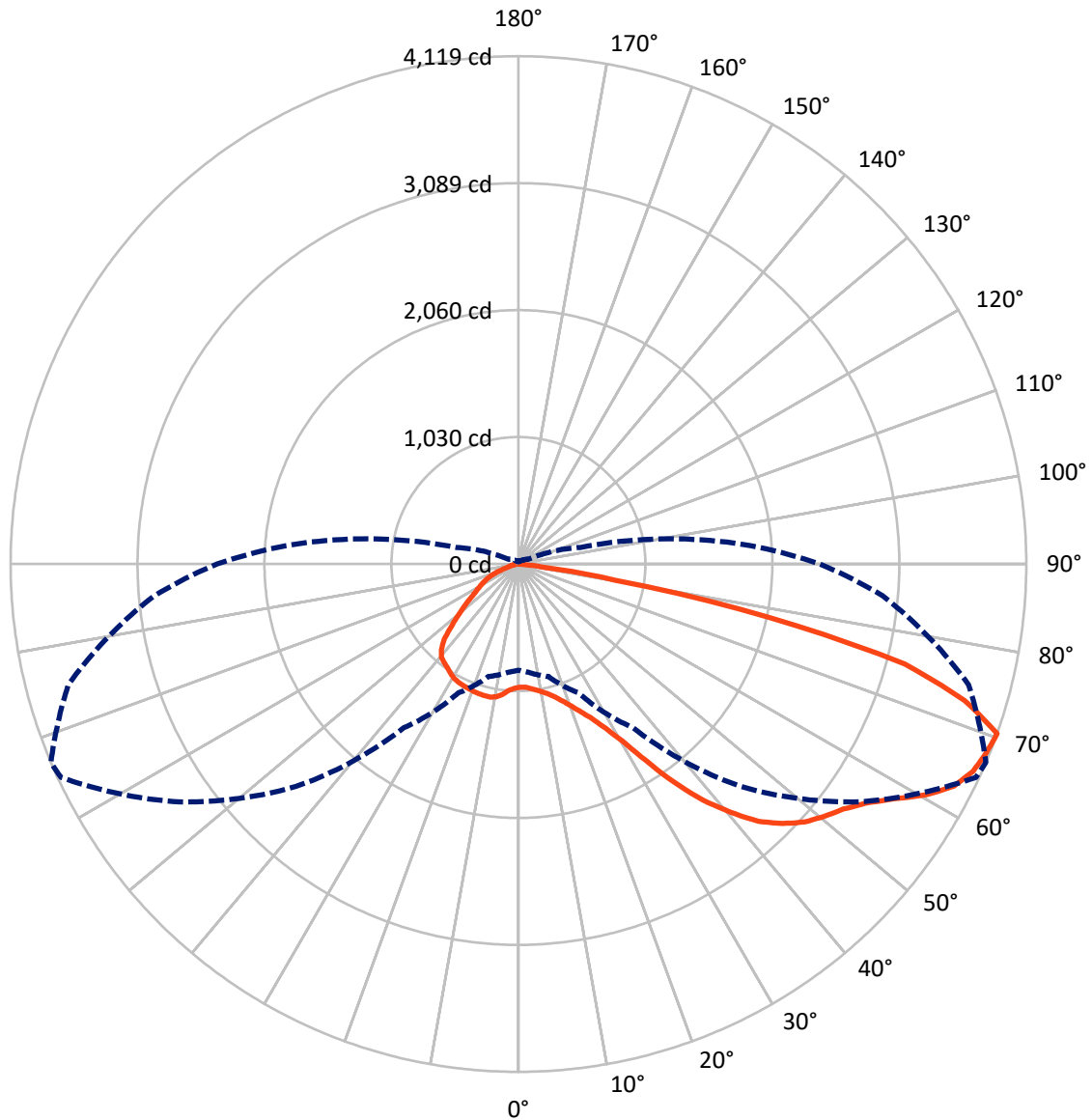
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2 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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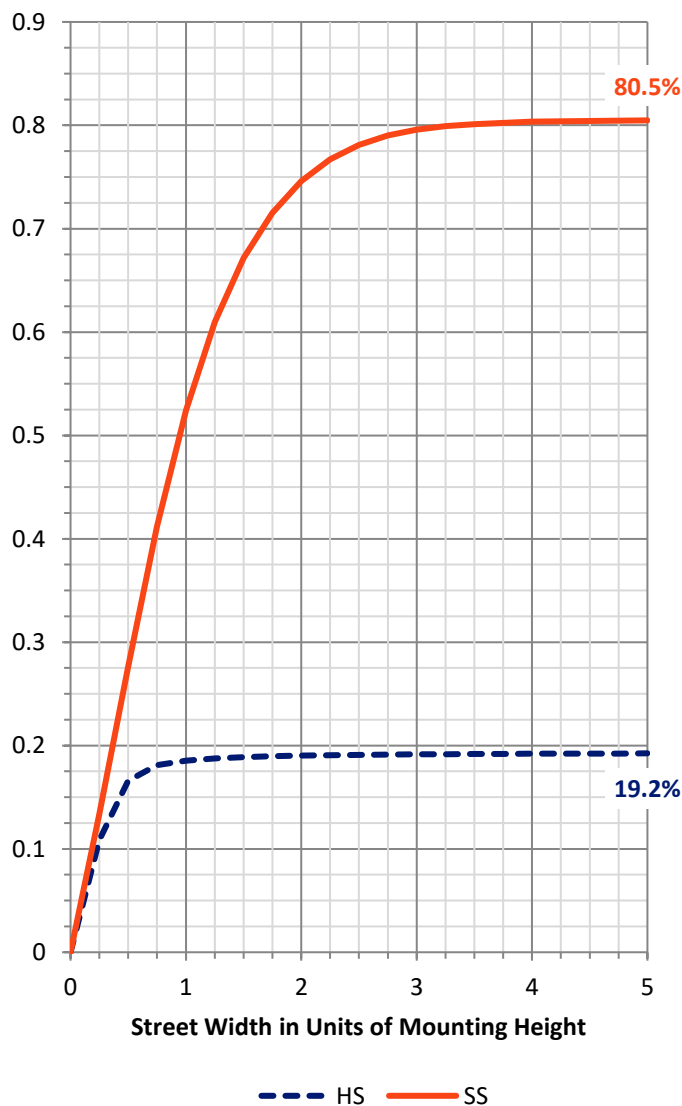
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1344.9	0.0	1344.9
	% Fixture	19.5	0.0	19.5
<b>Street Side</b>	Lumens	5556.1	0.0	5556.1
	% Fixture	80.5	0.0	80.5
<b>Total</b>	Lumens	6901.0	0.0	6901.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	100.6	1.5
10°-20°	318.6	4.6
20°-30°	553.6	8.0
30°-40°	866.9	12.6
40°-50°	1219.8	17.7
50°-60°	1454.8	21.1
60°-70°	1507.5	21.8
70°-80°	831.9	12.1
80°-90°	47.4	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°	6901.0	100.0
0°-180°	6901.0	100.0

**Coefficient of Utilization**



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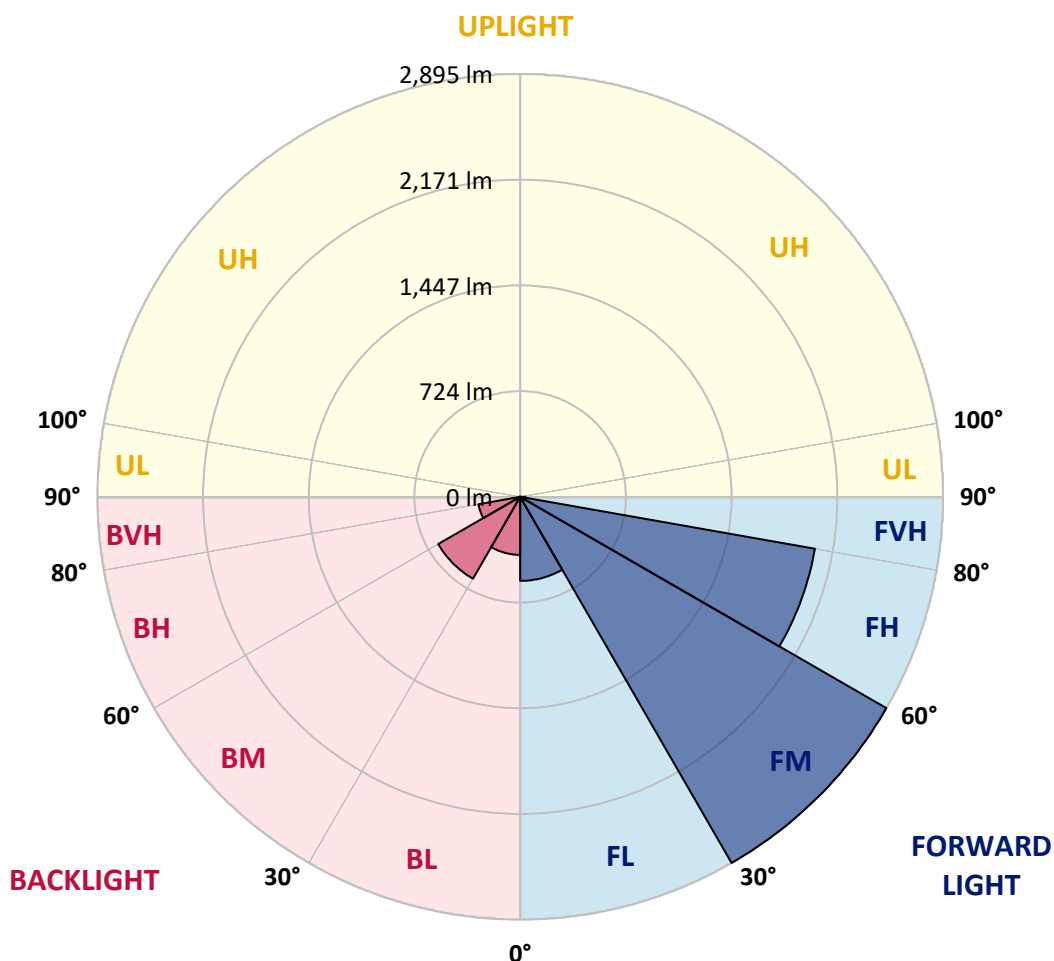
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	575.7	8.3			
FM (30°-60°)	2894.6	41.9			
FH (60°-80°)	2049.0	29.7			G2/5000
FVH (80°-90°)	36.8	0.5			G1/100
BL (0°-30°)	397.1	5.8	B1/500		
BM (30°-60°)	646.9	9.4	B1/1000		
BH (60°-80°)	290.3	4.2	B1/500		G1/500
BVH (80°-90°)	10.6	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G2**

Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	999.4	999.4	999.4	999.4	999.4	999.4	999.4	999.4	999.4	999.4	999.4
2.5°	1005.7	1005.7	1005.7	1003.6	1003.6	1003.6	1001.5	999.4	999.4	999.4	1001.5
5°	1032.9	1032.9	1030.8	1028.7	1026.6	1020.3	1016.1	1014.0	1014.0	1012.0	1016.1
7.5°	1066.4	1066.4	1066.4	1062.2	1056.0	1047.6	1039.2	1032.9	1030.8	1028.7	1030.8
10°	1116.7	1116.7	1112.5	1106.2	1095.8	1083.2	1068.5	1056.0	1053.9	1049.7	1053.9
12.5°	1181.7	1175.4	1171.2	1160.7	1148.1	1127.2	1104.1	1085.3	1081.1	1076.9	1091.6
15°	1248.7	1246.6	1236.1	1229.8	1208.9	1181.7	1150.2	1125.1	1120.9	1112.5	1125.1
17.5°	1328.3	1330.4	1326.2	1315.7	1286.4	1246.6	1208.9	1173.3	1169.1	1162.8	1169.1
20°	1437.3	1433.1	1424.7	1410.0	1376.5	1324.1	1275.9	1236.1	1229.8	1225.7	1219.4
22.5°	1546.2	1548.3	1531.5	1516.9	1475.0	1424.7	1359.7	1311.6	1303.2	1301.1	1271.8
25°	1651.0	1655.2	1648.9	1630.0	1594.4	1529.5	1458.2	1399.6	1389.1	1387.0	1336.7
27.5°	1759.9	1762.0	1768.3	1759.9	1722.2	1655.2	1575.5	1508.5	1508.5	1491.7	1416.3
30°	1864.7	1868.9	1873.1	1873.1	1854.2	1795.5	1726.4	1667.7	1667.7	1655.2	1525.3
32.5°	1946.4	1948.5	1973.6	1994.6	1994.6	1952.7	1906.6	1900.3	1898.2	1921.2	1774.6
35°	2019.7	2026.0	2061.6	2118.2	2141.2	2124.5	2126.6	2149.6	2172.7	2229.2	2118.2
37.5°	2074.2	2082.6	2116.1	2181.0	2246.0	2290.0	2331.9	2394.7	2430.4	2516.3	2363.3
40°	2088.9	2099.3	2170.6	2262.8	2367.5	2468.1	2543.5	2621.0	2644.1	2704.8	2512.1
42.5°	2042.8	2053.2	2143.3	2329.8	2476.5	2633.6	2715.3	2813.8	2853.6	2830.5	2635.7
45°	2011.3	2017.6	2111.9	2323.5	2570.7	2794.9	2874.5	2977.2	3002.3	2947.9	2738.4
47.5°	1971.5	1977.8	2076.3	2315.1	2648.3	2933.2	2987.7	3100.8	3126.0	3042.1	2826.3
50°	1912.9	1917.1	2030.2	2298.4	2698.5	3031.7	3092.4	3205.6	3216.0	3130.1	2910.2
52.5°	1841.6	1854.2	1963.1	2258.6	2734.2	3092.4	3165.8	3287.3	3301.9	3243.3	3002.3
55°	1745.3	1759.9	1885.6	2199.9	2721.6	3113.4	3199.3	3396.2	3421.4	3373.2	3079.9
57.5°	1646.8	1667.7	1791.3	2118.2	2671.3	3144.8	3310.3	3557.6	3591.1	3501.0	3142.7
60°	1546.2	1554.6	1682.4	2007.1	2587.5	3176.2	3436.0	3769.2	3800.6	3626.7	3193.0
62.5°	1431.0	1441.5	1554.6	1854.2	2442.9	3146.9	3530.3	3947.2	3966.1	3731.5	3213.9
65°	1296.9	1296.9	1393.3	1667.7	2248.1	3042.1	3542.9	4039.4	4052.0	3798.5	3188.8
67.5°	1110.4	1118.8	1196.3	1437.3	1986.2	2836.8	3471.7	4060.4	4091.8	3840.4	3119.7
70°	861.1	880.0	944.9	1152.3	1621.6	2551.9	3364.8	4093.9	4119.1	3779.6	2964.6
72.5°	588.7	607.6	666.3	789.9	1169.1	2047.0	3044.2	3777.5	3783.8	3484.2	2662.9
75°	155.0	171.8	217.9	316.4	490.3	1376.5	2434.6	3199.3	3237.0	3012.8	2197.8
77.5°	46.1	46.1	56.6	73.3	100.6	280.7	1238.2	2038.6	2076.3	1986.2	1370.2
80°	35.6	35.6	41.9	50.3	64.9	144.6	429.5	752.2	798.2	852.7	565.7
82.5°	23.0	25.1	27.2	29.3	29.3	58.7	115.2	192.8	190.7	207.4	182.3
85°	14.7	14.7	12.6	12.6	10.5	14.7	10.5	12.6	14.7	14.7	16.8
87.5°	2.1	0.0	0.0	0.0	0.0	2.1	2.1	4.2	4.2	4.2	6.3
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°	999.4	999.4	999.4	999.4	999.4	999.4	999.4	999.4	999.4	999.4	999.4
2.5°	1003.6	1005.7	1007.8	1009.9	1014.0	1014.0	1016.1	1016.1	1016.1	1016.1	1016.1
5°	1016.1	1018.2	1024.5	1030.8	1045.5	1053.9	1062.2	1068.5	1068.5	1072.7	1072.7
7.5°	1035.0	1041.3	1060.1	1068.5	1081.1	1093.7	1100.0	1102.0	1106.2	1106.2	1106.2
10°	1066.4	1072.7	1087.4	1093.7	1100.0	1100.0	1097.9	1095.8	1089.5	1087.4	1089.5
12.5°	1095.8	1104.1	1104.1	1102.0	1095.8	1087.4	1076.9	1066.4	1056.0	1047.6	1047.6
15°	1131.4	1127.2	1114.6	1097.9	1081.1	1060.1	1039.2	1020.3	1003.6	997.3	997.3
17.5°	1162.8	1152.3	1125.1	1093.7	1058.0	1024.5	991.0	959.6	930.2	919.8	913.5
20°	1200.5	1181.7	1133.5	1085.3	1035.0	982.6	926.1	869.5	819.2	798.2	796.2
22.5°	1244.5	1213.1	1146.0	1072.7	1005.7	926.1	831.8	752.2	701.9	676.7	672.5
25°	1296.9	1250.8	1158.6	1062.2	970.1	852.7	727.0	636.9	574.1	546.8	536.4
27.5°	1361.8	1301.1	1175.4	1049.7	915.6	762.6	620.2	515.4	446.3	412.7	408.6
30°	1445.6	1361.8	1192.1	1030.8	848.5	657.9	504.9	387.6	318.5	284.9	276.6
32.5°	1638.4	1485.5	1213.1	999.4	764.7	557.3	381.3	259.8	190.7	159.2	157.1
35°	1965.2	1764.1	1261.3	957.5	680.9	437.9	245.1	138.3	102.7	90.1	90.1
37.5°	2210.4	1996.7	1391.2	903.0	572.0	293.3	125.7	81.7	64.9	62.9	62.9
40°	2357.0	2135.0	1533.6	842.2	442.1	157.1	77.5	62.9	58.7	56.6	56.6
42.5°	2478.6	2250.2	1600.7	766.8	280.7	88.0	64.9	58.7	54.5	52.4	52.4
45°	2579.1	2338.2	1609.1	670.4	157.1	73.3	60.8	52.4	50.3	48.2	48.2
47.5°	2658.7	2413.6	1588.1	534.3	98.5	69.1	56.6	48.2	44.0	44.0	44.0
50°	2734.2	2478.6	1529.5	421.1	92.2	64.9	52.4	44.0	41.9	41.9	41.9
52.5°	2803.3	2524.6	1431.0	339.4	85.9	60.8	50.3	41.9	37.7	39.8	39.8
55°	2859.9	2543.5	1330.4	261.9	81.7	58.7	48.2	39.8	35.6	35.6	35.6
57.5°	2891.3	2503.7	1246.6	199.0	79.6	56.6	46.1	37.7	31.4	29.3	29.3
60°	2893.4	2451.3	1169.1	167.6	75.4	52.4	44.0	33.5	27.2	25.1	25.1
62.5°	2855.7	2388.5	1051.8	144.6	71.2	50.3	39.8	31.4	25.1	23.0	23.0
65°	2782.4	2277.4	921.9	123.6	69.1	50.3	35.6	29.3	25.1	21.0	21.0
67.5°	2665.0	2093.0	748.0	108.9	64.9	46.1	35.6	27.2	23.0	21.0	21.0
70°	2442.9	1829.1	517.5	94.3	60.8	41.9	33.5	27.2	23.0	18.9	18.9
72.5°	2105.6	1485.5	255.6	77.5	52.4	41.9	33.5	25.1	21.0	18.9	18.9
75°	1627.9	1064.3	155.0	62.9	41.9	37.7	31.4	25.1	21.0	16.8	16.8
77.5°	957.5	473.5	111.0	48.2	31.4	29.3	27.2	23.0	18.9	16.8	16.8
80°	349.9	201.1	81.7	37.7	25.1	25.1	21.0	18.9	16.8	14.7	14.7
82.5°	136.2	106.9	54.5	27.2	21.0	18.9	16.8	14.7	12.6	12.6	12.6
85°	18.9	18.9	18.9	14.7	12.6	12.6	10.5	10.5	8.4	8.4	8.4
87.5°	6.3	6.3	6.3	8.4	6.3	6.3	4.2	4.2	4.2	6.3	6.3
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)