

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: P510064

Luminaire Tested: **VERD-M-CA4-200-722-U-T4-HSS**

Issue Date: 4/6/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P510064  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2103-181-7)  
Test Lab: INNOVATION CENTER  
Issue Date: 4/6/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: VERD-M-CA4-200-722-U-T4-HSS  
Description: VERDEON-M ROADWAY AND AREA LUMINAIRE  
(4) 70 CRI, 2200K, 910mA LEDS AND TYPE IV OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 21085 lumens  
Efficiency: N/A  
Efficacy: 104.5 lumens/watt  
Luminous Opening: Rectangular (W 1.35' x L: 1.58' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G5

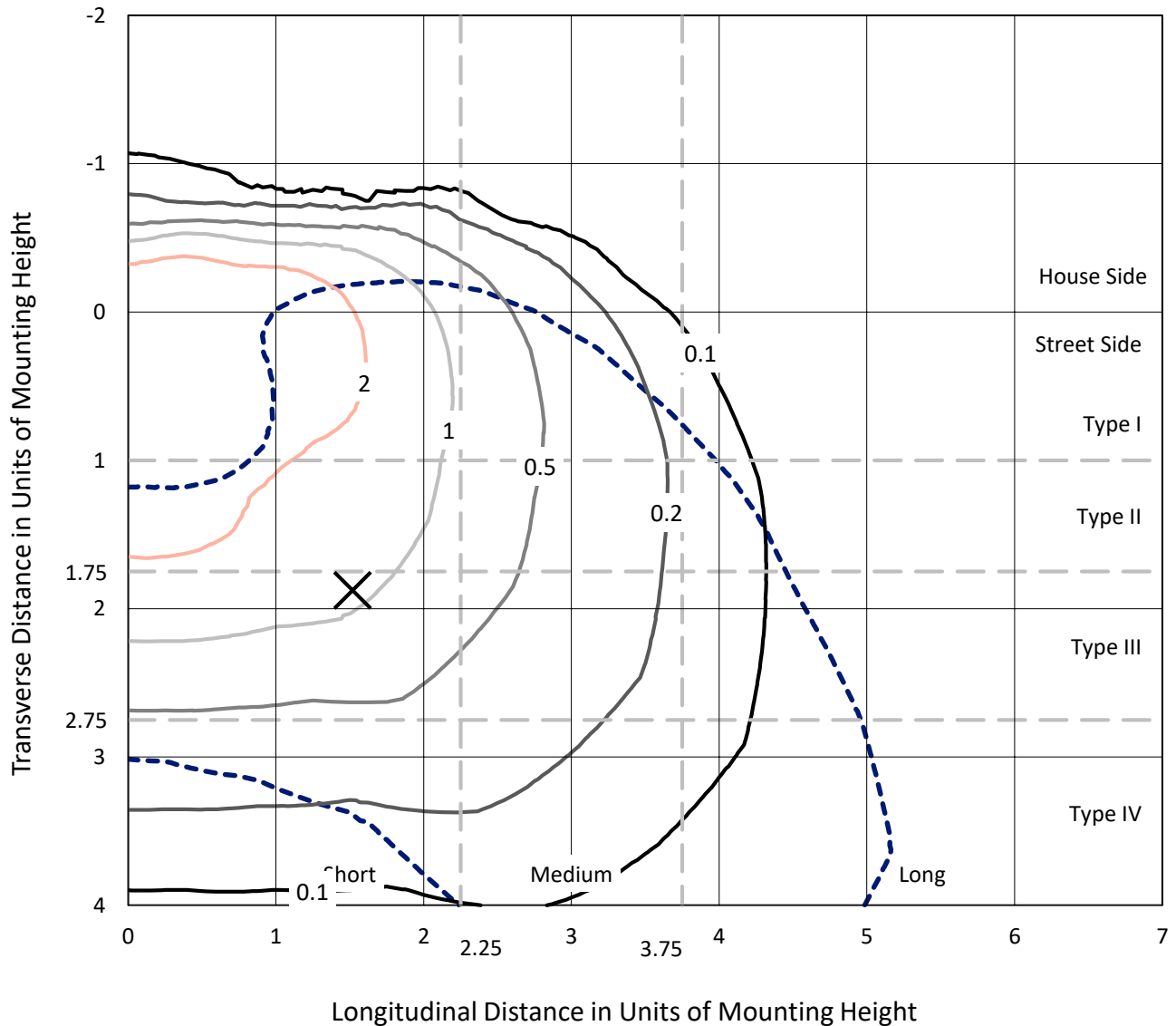
Input Watts (W): 201.8  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

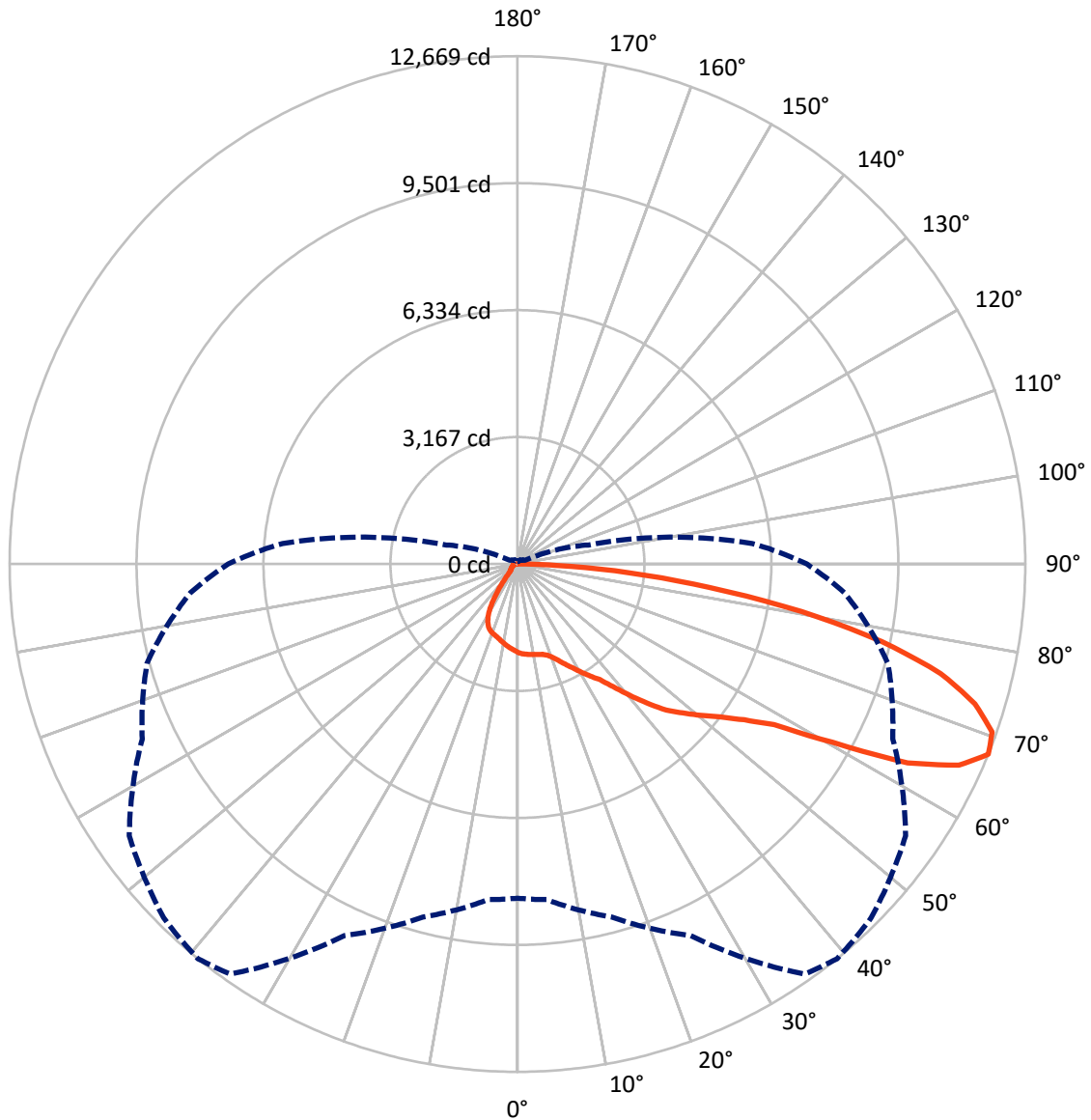
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.1 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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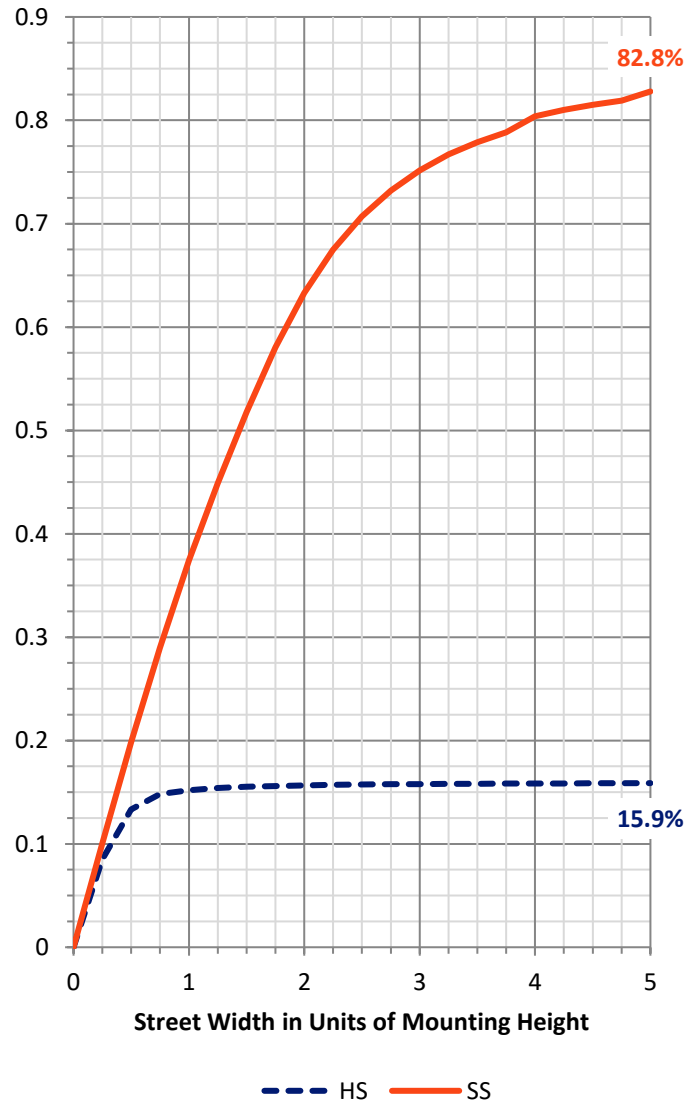
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3385.7	0.0	3385.7
	% Fixture	16.1	0.0	16.1
<b>Street Side</b>	Lumens	17699.3	0.0	17699.3
	% Fixture	83.9	0.0	83.9
<b>Total</b>	Lumens	21085.0	0.0	21085.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	208.4	1.0
10°-20°	620.4	2.9
20°-30°	1099.1	5.2
30°-40°	1760.4	8.3
40°-50°	2824.0	13.4
50°-60°	4127.8	19.6
60°-70°	5500.6	26.1
70°-80°	4127.7	19.6
80°-90°	816.7	3.9
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°	21085.0	100.0
0°-180°	21085.0	100.0



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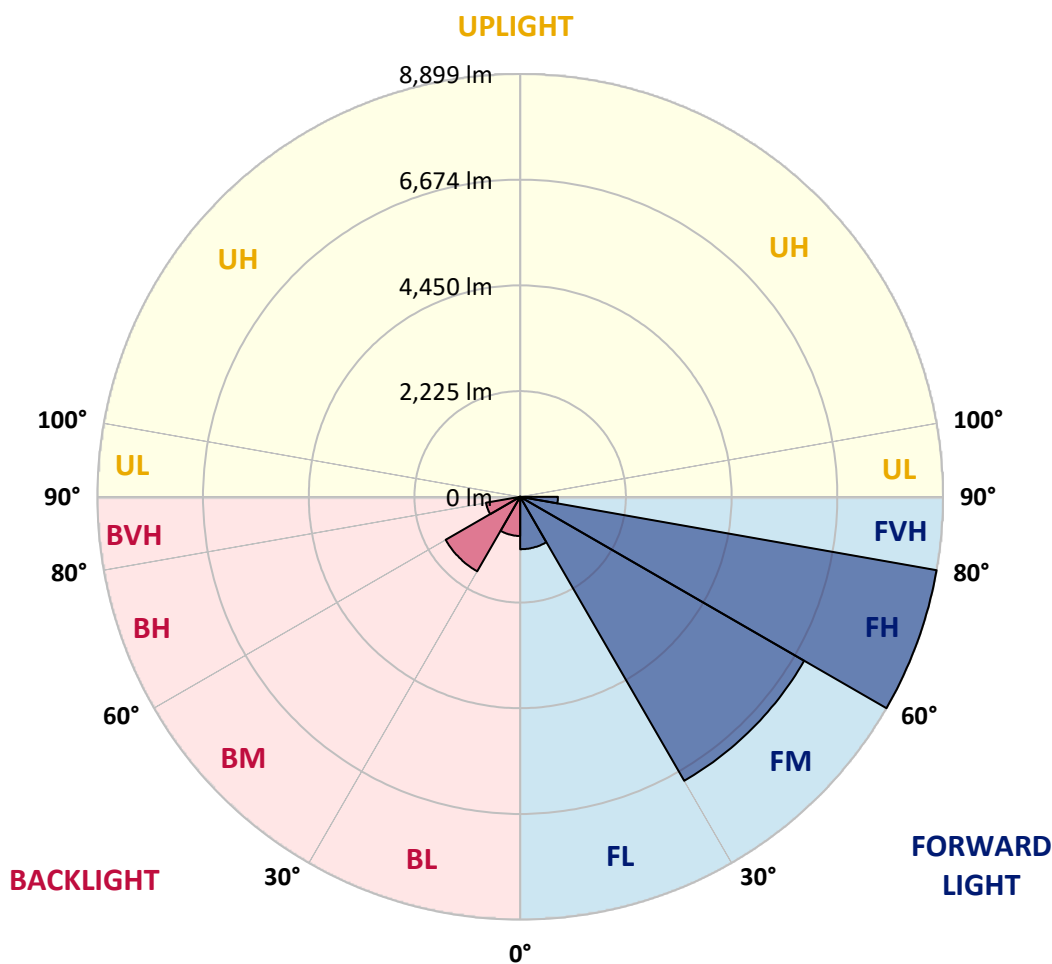
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1103.4	5.2			
FM	(30°-60°)	6901.3	32.7			
FH	(60°-80°)	8899.3	42.2			G4/12000
FVH	(80°-90°)	795.3	3.8			G5
BL	(0°-30°)	824.5	3.9	B2/1000		
BM	(30°-60°)	1810.9	8.6	B2/2500		
BH	(60°-80°)	729.0	3.5	B2/1000		G2/1000
BVH	(80°-90°)	21.4	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G5**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	2207.8	2207.8	2207.8	2207.8	2207.8	2207.8	2207.8	2207.8	2207.8	2207.8	2207.8
2.5°	2209.9	2239.6	2239.6	2231.1	2236.4	2240.7	2208.9	2217.4	2214.2	2213.1	2219.5
5°	2226.9	2259.7	2257.6	2247.0	2251.3	2259.7	2230.1	2242.8	2238.5	2228.0	2230.1
7.5°	2226.9	2254.4	2260.8	2249.1	2269.3	2279.9	2248.1	2259.7	2265.0	2257.6	2250.2
10°	2218.4	2242.8	2251.3	2249.1	2275.6	2292.6	2261.9	2294.7	2298.9	2298.9	2287.3
12.5°	2215.2	2242.8	2254.4	2264.0	2294.7	2312.7	2294.7	2326.5	2347.7	2346.6	2339.2
15°	2217.4	2248.1	2266.1	2282.0	2314.8	2337.1	2329.7	2378.4	2403.8	2411.2	2411.2
17.5°	2270.3	2307.4	2315.9	2332.8	2355.1	2389.0	2379.5	2442.0	2482.2	2494.9	2512.9
20°	2418.6	2447.3	2457.8	2449.4	2458.9	2480.1	2461.0	2521.4	2581.8	2615.7	2645.4
22.5°	2608.3	2629.5	2619.9	2611.5	2606.2	2611.5	2588.2	2628.4	2696.2	2744.9	2795.8
25°	2752.4	2799.0	2791.6	2768.3	2760.8	2767.2	2737.5	2787.3	2849.8	2900.7	2977.0
27.5°	2927.2	2955.8	2935.6	2927.2	2932.5	2931.4	2913.4	2961.1	3018.3	3081.8	3194.1
30°	3116.8	3141.2	3121.0	3112.6	3122.1	3128.5	3108.3	3192.0	3252.4	3321.3	3466.4
32.5°	3428.3	3486.5	3431.5	3321.3	3323.4	3332.9	3335.0	3447.3	3557.5	3611.6	3803.3
35°	3872.2	3918.8	3845.7	3712.2	3545.9	3539.5	3556.5	3723.8	3945.3	4191.1	4415.6
37.5°	4286.4	4354.2	4288.5	4132.8	3930.4	3881.7	3793.8	3992.9	4341.5	4870.1	5149.8
40°	4783.3	4834.1	4703.8	4568.2	4365.9	4297.0	4156.1	4283.2	4761.0	5578.9	5771.7
42.5°	5182.7	5213.4	5105.3	4963.4	4787.5	4735.6	4590.5	4602.1	5209.2	6199.7	6323.7
45°	5552.4	5585.2	5496.3	5375.5	5264.2	5201.7	5095.8	5153.0	5734.6	6854.4	6779.2
47.5°	5833.1	5866.0	5795.0	5709.2	5593.7	5551.3	5553.5	5759.0	6377.7	7377.8	7188.1
50°	6292.9	6280.2	6094.8	6001.6	5911.5	5933.8	5957.1	6249.5	7026.1	7827.0	7566.4
52.5°	7094.9	7032.4	6650.0	6406.3	6295.1	6333.2	6371.3	6760.1	7762.3	8237.0	7856.6
55°	8001.8	7938.2	7613.0	7091.7	6797.2	6858.7	6825.8	7265.5	8381.0	8631.1	8096.1
57.5°	8675.6	8780.4	8656.5	8372.6	7635.2	7554.7	7481.6	7776.1	8881.1	9025.2	8326.0
60°	9261.4	9407.6	9629.0	9551.7	9238.1	9028.3	8357.7	8372.6	9362.1	9298.5	8417.1
62.5°	9833.5	9919.3	10298.6	10382.3	10771.1	10921.5	10240.3	9143.8	9827.1	9488.1	8478.5
65°	9261.4	9371.6	10031.6	10640.8	11897.3	12098.5	11859.1	10540.1	10169.3	9600.4	8407.5
67.5°	8336.6	8403.3	9116.3	10224.4	12486.3	12668.5	12482.0	11822.0	10329.3	9566.5	8187.2
70°	7127.8	7232.6	7932.9	9418.2	12465.1	12562.6	12400.5	11976.7	10268.9	9371.6	7631.0
72.5°	5894.6	5953.9	6547.2	8029.3	11855.9	11937.5	11851.7	11739.4	10065.5	8828.1	6562.0
75°	4430.5	4443.2	5051.3	6340.6	10482.9	10908.8	11013.7	11330.5	9286.8	7567.4	4853.2
77.5°	2970.6	3096.7	3680.4	4845.8	8605.6	9286.8	9783.7	10014.7	7759.2	5647.8	2580.7
80°	1594.4	1626.2	2255.5	3438.9	6539.8	7191.3	7662.8	7667.0	5426.3	2797.9	576.3
82.5°	738.4	707.7	1135.7	2176.0	4530.1	4820.3	5136.1	4302.3	2172.9	477.8	147.3
85°	327.4	345.4	513.8	1060.5	2514.0	2805.3	2765.1	1904.8	381.4	129.2	90.1
87.5°	121.8	128.2	199.2	428.0	897.3	978.9	880.4	366.6	49.8	45.6	27.5
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°	2207.8	2207.8	2207.8	2207.8	2207.8	2207.8	2207.8	2207.8	2207.8	2207.8	2207.8
2.5°	2212.1	2212.1	2209.9	2181.3	2175.0	2161.2	2149.6	2158.0	2148.5	2154.9	2148.5
5°	2221.6	2216.3	2203.6	2169.7	2153.8	2123.1	2099.8	2105.1	2092.3	2092.3	2091.3
7.5°	2243.8	2233.3	2211.0	2157.0	2127.3	2082.8	2046.8	2035.1	2022.4	2007.6	2005.5
10°	2279.9	2265.0	2235.4	2161.2	2104.0	2044.7	1982.2	1957.8	1926.0	1902.7	1898.5
12.5°	2329.7	2307.4	2267.2	2177.1	2101.9	2007.6	1923.9	1876.2	1838.1	1804.2	1796.8
15°	2401.7	2379.5	2331.8	2208.9	2102.9	1972.6	1862.5	1783.0	1717.3	1685.5	1686.6
17.5°	2506.6	2490.7	2417.6	2275.6	2123.1	1954.6	1811.6	1685.5	1583.8	1530.9	1523.4
20°	2641.1	2630.5	2541.5	2363.6	2169.7	1957.8	1756.5	1581.7	1432.3	1316.9	1291.4
22.5°	2797.9	2782.0	2672.9	2439.8	2205.7	1949.3	1696.1	1467.3	1242.7	1092.3	1062.6
25°	2972.7	2964.2	2793.7	2506.6	2209.9	1913.3	1609.3	1319.0	1037.2	876.1	850.7
27.5°	3196.3	3146.5	2902.8	2542.6	2200.4	1842.3	1485.3	1115.6	824.2	713.0	685.4
30°	3441.0	3340.3	3008.7	2570.1	2153.8	1729.0	1308.4	880.4	613.4	514.9	501.1
32.5°	3712.2	3561.8	3108.3	2568.0	2071.2	1554.2	1078.5	611.3	414.2	374.0	360.2
35°	4202.7	3947.4	3228.0	2533.1	1932.4	1346.5	761.7	398.3	307.2	282.9	279.7
37.5°	4883.9	4450.6	3389.1	2466.3	1753.3	1105.0	496.9	272.3	262.7	263.8	262.7
40°	5442.2	5012.1	3612.6	2365.7	1527.7	789.3	297.7	242.6	247.9	251.1	252.1
42.5°	5988.9	5469.8	3889.1	2239.6	1291.4	512.8	241.5	232.0	227.8	233.1	235.2
45°	6428.5	5869.2	4149.7	2092.3	1014.9	303.0	234.1	215.1	207.6	209.8	212.9
47.5°	6780.3	6187.0	4306.5	1920.7	741.6	228.8	227.8	200.2	189.6	187.5	186.5
50°	7111.9	6459.3	4407.2	1713.1	472.5	220.4	210.8	183.3	170.6	168.4	168.4
52.5°	7337.5	6637.2	4441.1	1467.3	281.8	215.1	199.2	169.5	152.6	155.7	157.9
55°	7557.9	6817.3	4371.2	1147.3	216.1	201.3	186.5	152.6	138.8	151.5	155.7
57.5°	7662.8	6843.8	4213.3	797.7	209.8	182.2	168.4	136.7	126.1	133.5	133.5
60°	7747.5	6825.8	3992.9	505.3	204.5	169.5	153.6	124.0	111.2	107.0	103.8
62.5°	7691.4	6753.8	3550.1	329.5	189.6	154.7	139.8	114.4	96.4	84.8	83.7
65°	7571.7	6499.5	2833.9	259.6	175.9	147.3	127.1	102.8	84.8	71.0	69.9
67.5°	7218.9	5880.8	1833.9	215.1	168.4	142.0	117.6	95.3	75.2	61.4	60.4
70°	6373.5	4750.4	562.6	192.8	174.8	136.7	115.5	86.9	66.7	54.0	51.9
72.5°	5039.6	3174.0	208.7	160.0	150.4	131.4	112.3	78.4	57.2	45.6	43.4
75°	3246.1	1037.2	176.9	124.0	128.2	125.0	103.8	72.0	48.7	37.1	36.0
77.5°	919.6	217.2	161.0	91.1	113.4	120.8	91.1	60.4	43.4	31.8	30.7
80°	192.8	154.7	147.3	64.6	84.8	78.4	61.4	46.6	41.3	27.5	27.5
82.5°	126.1	122.9	126.1	44.5	56.1	57.2	48.7	40.3	36.0	25.4	25.4
85°	89.0	112.3	60.4	31.8	26.5	24.4	28.6	35.0	31.8	21.2	21.2
87.5°	30.7	18.0	12.7	12.7	11.7	11.7	13.8	15.9	17.0	17.0	15.9
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)