

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: P553580

Luminaire Tested: **VERD-G-CA2-150-750-U-T4-HSS**

Issue Date: 7/12/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P553580  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2102-155-7)  
Test Lab: INNOVATION CENTER  
Issue Date: 7/12/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: VERD-G-CA2-150-750-U-T4-HSS  
Description: VERDEON-G ROADWAY AND AREA LUMINAIRE  
(2) 70 CRI, 5000K, 1380mA LEDS AND TYPE IV OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 19631 lumens  
Efficiency: N/A  
Efficacy: 129.0 lumens/watt  
Luminous Opening: Rectangular (W 0.9' x L: 1.25' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G4

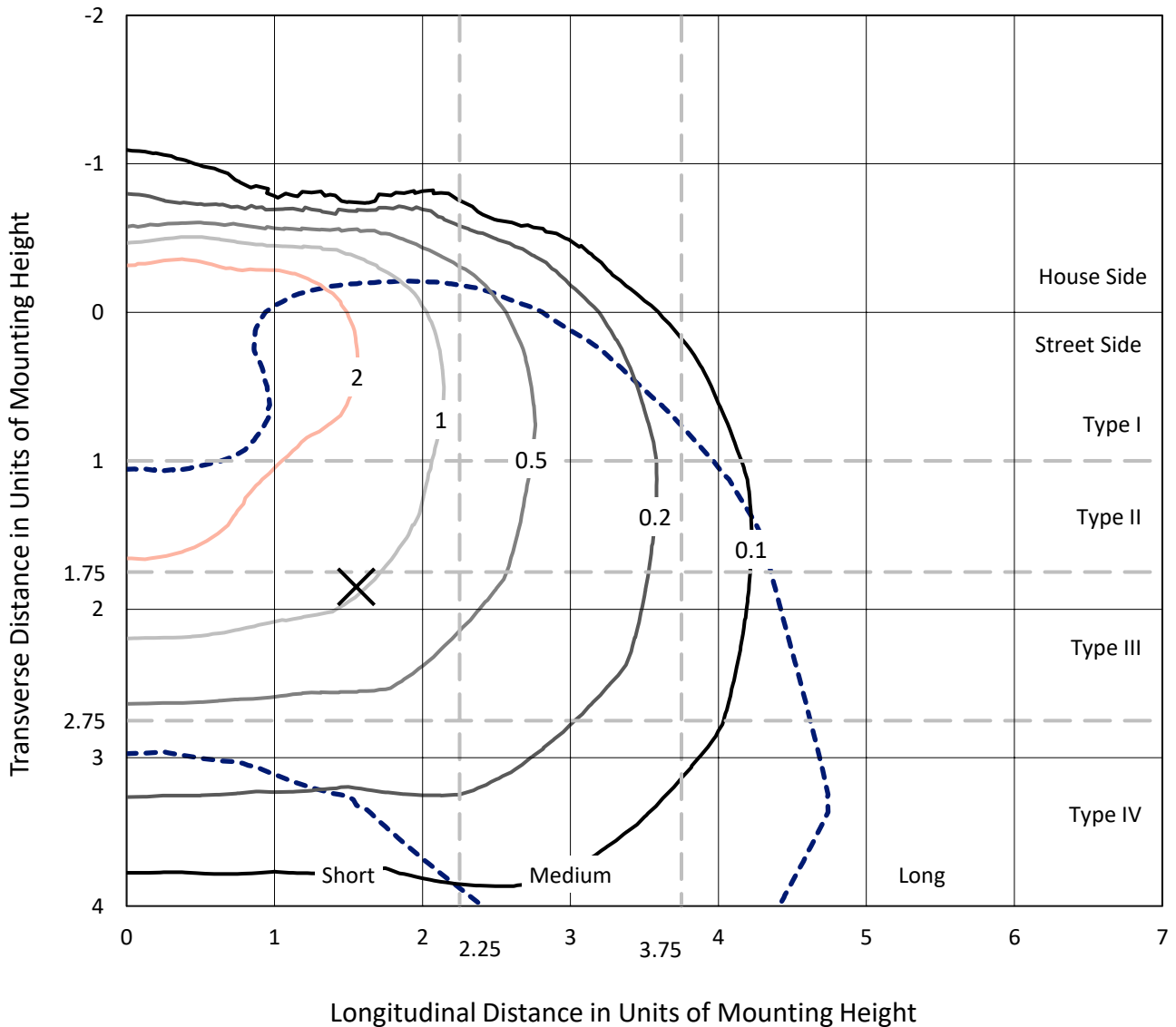
Input Watts (W): 152.2  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

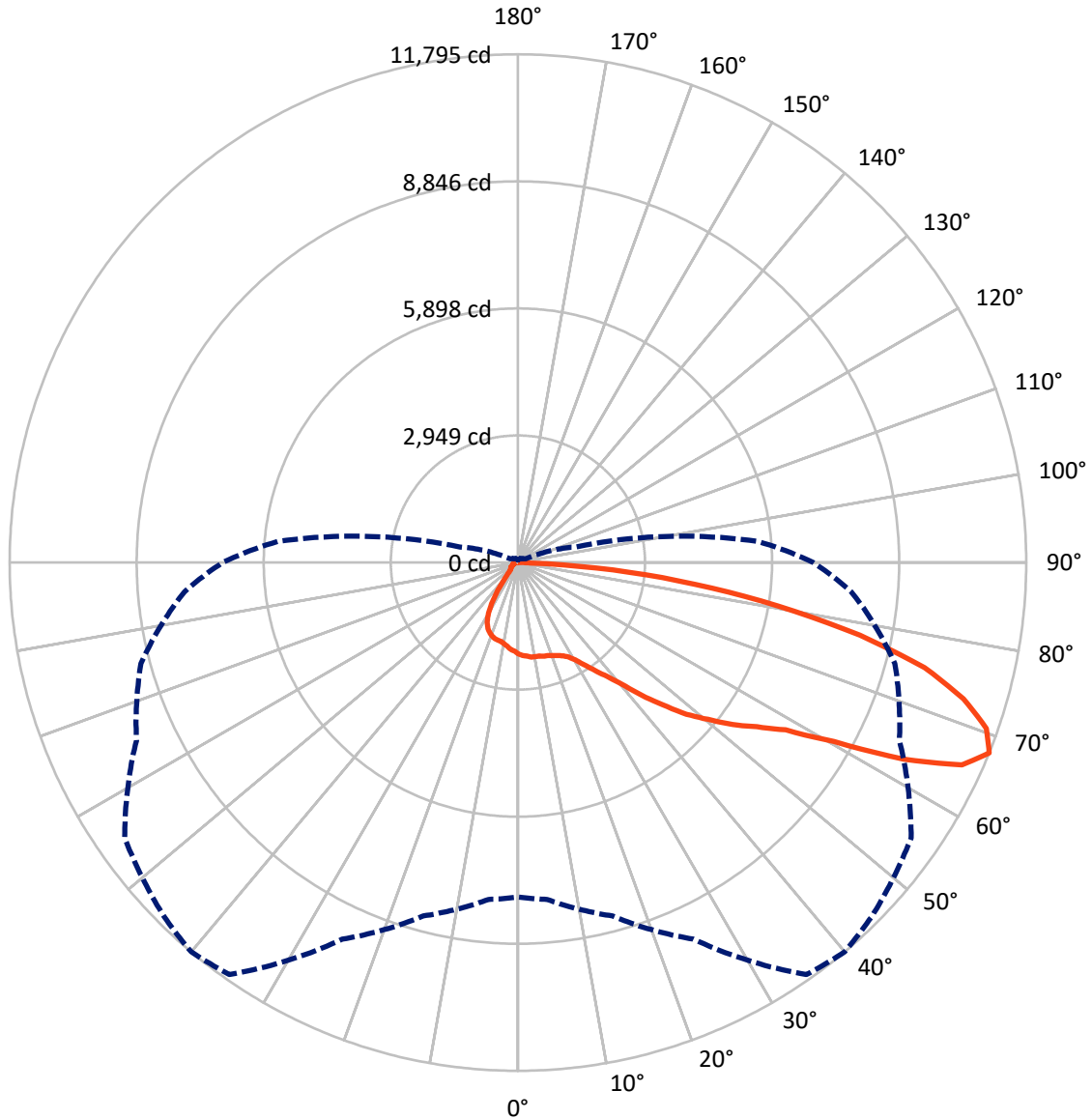
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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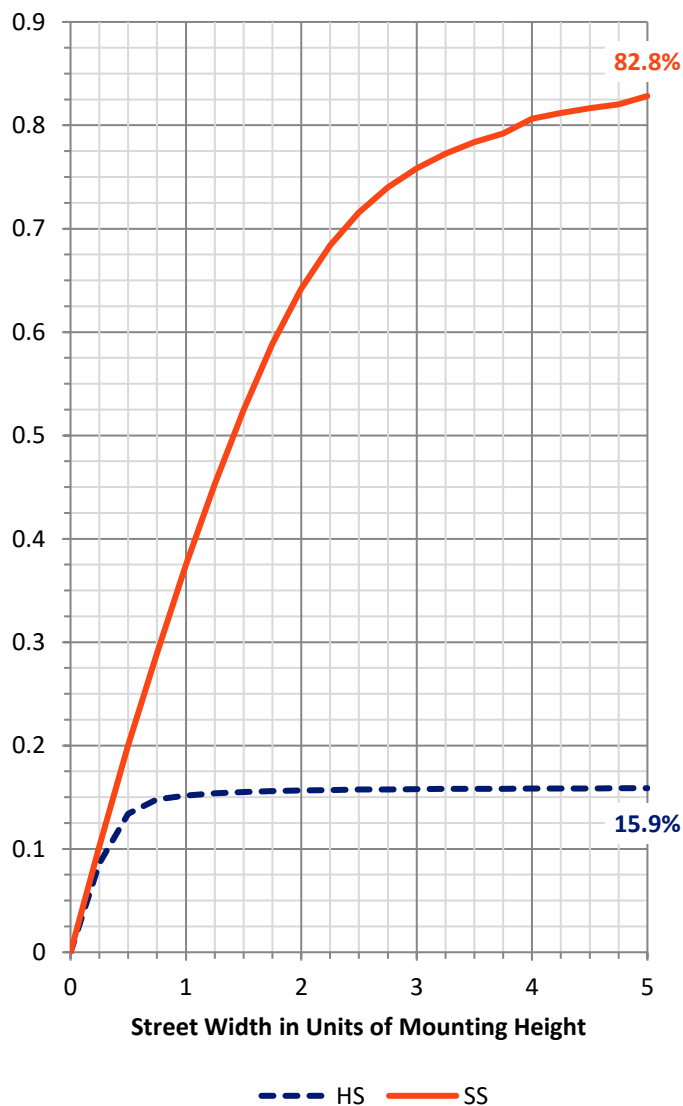
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3150.4	0.0	3150.4
	% Fixture	16.0	0.0	16.0
<b>Street Side</b>	Lumens	16480.6	0.0	16480.6
	% Fixture	84.0	0.0	84.0
<b>Total</b>	Lumens	19631.0	0.0	19631.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	201.1	1.0
10°-20°	596.5	3.0
20°-30°	992.3	5.1
30°-40°	1560.3	7.9
40°-50°	2701.7	13.8
50°-60°	3993.5	20.3
60°-70°	5191.9	26.4
70°-80°	3716.2	18.9
80°-90°	677.7	3.5
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°	19631.0	100.0
0°-180°	19631.0	100.0

**Coefficient of Utilization**



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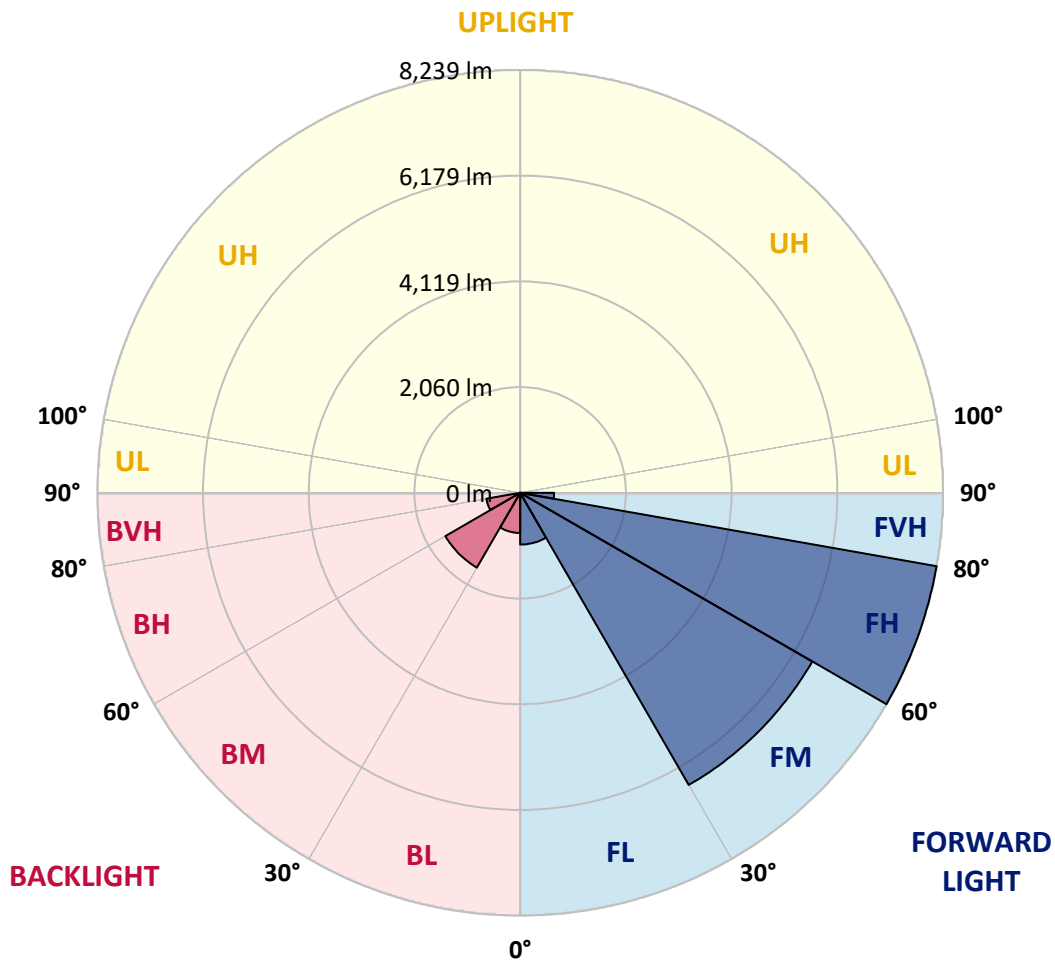
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1008.3	5.1			
FM	(30°-60°)	6572.6	33.5			
FH	(60°-80°)	8238.7	42.0			G4/12000
FVH	(80°-90°)	661.0	3.4			G4/750
BL	(0°-30°)	781.5	4.0	B2/1000		
BM	(30°-60°)	1682.9	8.6	B2/2500		
BH	(60°-80°)	669.4	3.4	B2/1000		G2/1000
BVH	(80°-90°)	16.7	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-G4**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	2125.0	2125.0	2125.0	2125.0	2125.0	2125.0	2125.0	2125.0	2125.0	2125.0	2125.0
2.5°	2211.0	2209.5	2194.9	2187.7	2167.3	2160.0	2161.4	2152.7	2132.3	2135.2	2114.8
5°	2213.9	2224.1	2202.2	2196.4	2189.1	2180.4	2190.6	2178.9	2161.4	2167.3	2145.4
7.5°	2227.0	2231.4	2221.2	2215.4	2197.9	2215.4	2213.9	2203.7	2192.0	2181.8	2173.1
10°	2231.4	2227.0	2206.6	2202.2	2202.2	2219.7	2227.0	2231.4	2231.4	2215.4	2209.5
12.5°	2209.5	2206.6	2186.2	2194.9	2213.9	2225.6	2248.9	2263.4	2286.8	2269.3	2260.5
15°	2176.0	2183.3	2192.0	2194.9	2229.9	2256.2	2278.0	2304.3	2343.6	2343.6	2340.7
17.5°	2186.2	2200.8	2211.0	2225.6	2259.1	2267.8	2298.4	2340.7	2406.3	2410.7	2417.9
20°	2237.2	2237.2	2240.1	2250.3	2279.5	2305.7	2332.0	2385.9	2461.7	2486.4	2493.7
22.5°	2292.6	2289.7	2302.8	2301.3	2324.7	2342.2	2375.7	2422.3	2517.0	2563.7	2582.6
25°	2337.8	2346.5	2358.2	2343.6	2388.8	2396.1	2422.3	2479.2	2579.7	2662.8	2703.6
27.5°	2415.0	2420.9	2417.9	2425.2	2470.4	2474.8	2499.6	2581.2	2674.5	2788.1	2877.0
30°	2547.7	2527.3	2530.2	2546.2	2611.8	2620.5	2646.8	2725.5	2799.8	2949.9	3089.8
32.5°	2729.8	2729.8	2697.8	2728.4	2804.2	2827.5	2866.8	2984.9	3057.8	3137.9	3368.2
35°	3078.2	3078.2	3054.9	2974.7	3012.6	3070.9	3143.8	3307.0	3531.4	3793.8	4038.6
37.5°	3655.3	3646.6	3554.8	3410.5	3328.9	3349.3	3420.7	3684.5	4048.8	4688.7	4876.7
40°	4344.7	4319.9	4148.0	3946.8	3738.4	3703.4	3737.0	4067.8	4586.7	5535.5	5606.9
42.5°	4956.9	4955.4	4703.3	4532.7	4266.0	4207.7	4168.4	4455.5	5125.9	6150.5	6175.3
45°	5541.3	5526.7	5281.9	5096.8	4853.4	4704.7	4694.5	4895.6	5692.9	6704.4	6599.4
47.5°	6061.6	6083.5	5809.5	5631.7	5362.0	5260.0	5178.4	5350.4	6214.6	7176.6	6959.4
50°	6660.6	6700.0	6290.4	6095.1	5822.6	5722.0	5767.2	5894.0	6735.0	7562.8	7280.1
52.5°	7417.1	7291.7	6885.1	6549.9	6296.3	6246.7	6256.9	6433.3	7336.9	7879.1	7503.1
55°	8307.6	8122.5	7714.4	7191.2	6777.2	6730.6	6726.2	6905.5	7893.7	8174.9	7675.0
57.5°	8642.8	8739.0	8578.7	8192.4	7460.8	7323.8	7217.4	7383.5	8393.6	8501.4	7855.8
60°	9416.7	9520.2	9402.1	9154.4	8906.6	8430.0	7963.6	7947.6	8860.0	8813.3	7931.5
62.5°	9502.7	9469.2	9993.9	10081.3	10228.5	10043.4	9698.0	8695.3	9281.2	8972.2	7991.3
65°	9021.7	9026.1	9730.1	10211.0	11228.3	11323.1	11108.8	9884.6	9597.4	9034.9	7949.0
67.5°	7762.5	7848.5	8489.8	9642.6	11671.4	11795.3	11614.6	11139.4	9768.0	9056.7	7765.4
70°	6670.8	6673.8	7280.1	8686.5	11438.2	11531.5	11448.4	11221.1	9702.4	8883.3	7266.9
72.5°	5249.8	5233.8	5765.7	7186.8	10614.7	10813.0	10767.8	10923.7	9461.9	8256.6	6182.6
75°	3790.9	3822.9	4362.2	5535.5	9131.0	9746.1	9964.7	10439.9	8604.9	7011.9	4532.7
77.5°	2654.1	2686.1	3203.5	4204.8	7369.0	8110.8	8462.1	8878.9	6974.0	5197.3	2323.2
80°	1735.8	1765.0	2209.5	3158.3	5493.2	6125.7	6389.5	6140.3	4095.5	2183.3	255.1
82.5°	1008.6	1065.4	1403.5	2167.3	3849.2	4149.4	4164.0	3231.2	1530.3	195.3	119.5
85°	491.2	527.6	839.5	1285.5	2106.0	2213.9	2053.6	1202.4	357.1	93.3	68.5
87.5°	72.9	96.2	330.8	485.3	357.1	293.0	176.4	40.8	23.3	11.7	8.7
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°	2125.0	2125.0	2125.0	2125.0	2125.0	2125.0	2125.0	2125.0	2125.0	2125.0	2125.0
2.5°	2103.1	2101.7	2106.0	2087.1	2088.6	2065.2	2056.5	2052.1	2072.5	2069.6	2084.2
5°	2129.4	2114.8	2113.3	2066.7	2062.3	2033.2	2015.7	1989.4	2009.8	2005.5	2005.5
7.5°	2145.4	2130.8	2122.1	2066.7	2028.8	1977.8	1948.6	1928.2	1926.8	1922.4	1923.9
10°	2171.6	2164.3	2117.7	2056.5	2005.5	1939.9	1884.5	1852.4	1837.9	1839.3	1829.1
12.5°	2229.9	2215.4	2152.7	2079.8	1998.2	1907.8	1836.4	1779.6	1750.4	1744.6	1728.6
15°	2313.0	2297.0	2218.3	2135.2	2017.1	1910.7	1804.3	1703.8	1654.2	1633.8	1619.2
17.5°	2410.7	2385.9	2295.5	2200.8	2056.5	1907.8	1773.7	1638.2	1543.5	1489.5	1485.2
20°	2487.9	2476.2	2372.8	2270.7	2081.3	1888.9	1722.7	1543.5	1402.1	1303.0	1282.6
22.5°	2589.9	2591.4	2476.2	2323.2	2101.7	1856.8	1642.6	1410.8	1218.4	1085.8	1062.5
25°	2737.1	2715.3	2585.6	2365.5	2106.0	1820.4	1533.3	1244.7	994.0	845.3	819.1
27.5°	2913.5	2881.4	2674.5	2387.3	2087.1	1747.5	1387.5	1027.5	734.6	606.3	585.9
30°	3100.0	3024.2	2747.3	2396.1	2028.8	1629.5	1180.5	750.6	520.3	430.0	421.2
32.5°	3339.1	3228.3	2810.0	2366.9	1939.9	1450.2	915.3	514.5	360.0	311.9	314.8
35°	3828.8	3557.7	2907.7	2334.9	1814.5	1225.7	639.8	341.0	278.4	272.5	274.0
37.5°	4569.2	4139.2	3079.6	2288.2	1628.0	937.2	411.0	263.8	265.3	265.3	265.3
40°	5284.8	4774.7	3343.4	2196.4	1399.2	655.9	271.1	249.2	256.5	255.1	256.5
42.5°	5794.9	5246.9	3620.4	2084.2	1135.4	415.4	243.4	234.7	239.0	237.6	241.9
45°	6208.8	5652.1	3872.5	1925.3	849.7	271.1	239.0	223.0	218.6	217.2	221.5
47.5°	6514.9	5918.8	4053.2	1727.1	567.0	233.2	228.8	205.5	199.7	199.7	201.1
50°	6812.2	6175.3	4107.1	1501.2	349.8	227.4	215.7	190.9	182.2	179.3	182.2
52.5°	7019.2	6262.7	4118.8	1246.1	234.7	221.5	199.7	173.4	163.2	161.8	163.2
55°	7195.5	6442.0	4024.1	928.4	209.9	208.4	185.1	155.9	144.3	150.1	153.0
57.5°	7239.2	6459.5	3834.6	613.6	208.4	190.9	169.1	139.9	131.2	137.0	138.5
60°	7350.0	6388.1	3598.5	377.5	204.0	170.5	150.1	123.9	118.1	119.5	122.4
62.5°	7255.3	6348.7	3194.8	263.8	188.0	155.9	139.9	113.7	103.5	102.0	102.0
65°	7159.1	6117.0	2442.7	218.6	167.6	145.7	126.8	100.6	88.9	83.1	83.1
67.5°	6853.0	5598.1	1394.8	202.6	151.6	134.1	115.1	91.8	77.2	70.0	67.0
70°	6082.0	4484.6	430.0	185.1	153.0	125.3	106.4	80.2	67.0	56.8	55.4
72.5°	4763.0	2804.2	201.1	163.2	157.4	116.6	99.1	74.3	59.8	48.1	46.6
75°	2802.7	671.9	164.7	121.0	134.1	123.9	97.7	71.4	52.5	39.4	37.9
77.5°	609.2	163.2	147.2	81.6	100.6	119.5	93.3	62.7	46.6	30.6	29.1
80°	147.2	128.3	134.1	62.7	67.0	83.1	75.8	53.9	42.3	24.8	23.3
82.5°	99.1	96.2	118.1	39.4	33.5	30.6	32.1	33.5	35.0	18.9	17.5
85°	65.6	83.1	62.7	21.9	18.9	16.0	16.0	14.6	20.4	11.7	11.7
87.5°	10.2	8.7	10.2	8.7	8.7	7.3	5.8	5.8	4.4	5.8	5.8
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)