

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: P553516

Luminaire Tested: **VERD-G-CA2-140-730-U-T4-HSS**

Issue Date: 7/12/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P553516  
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-CA2-140-730-U-T4-HSS  
Description: VERDEON-G ROADWAY AND AREA LUMINAIRE  
(2) 70 CRI, 3000K, 1290mA LEDS AND TYPE IV OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

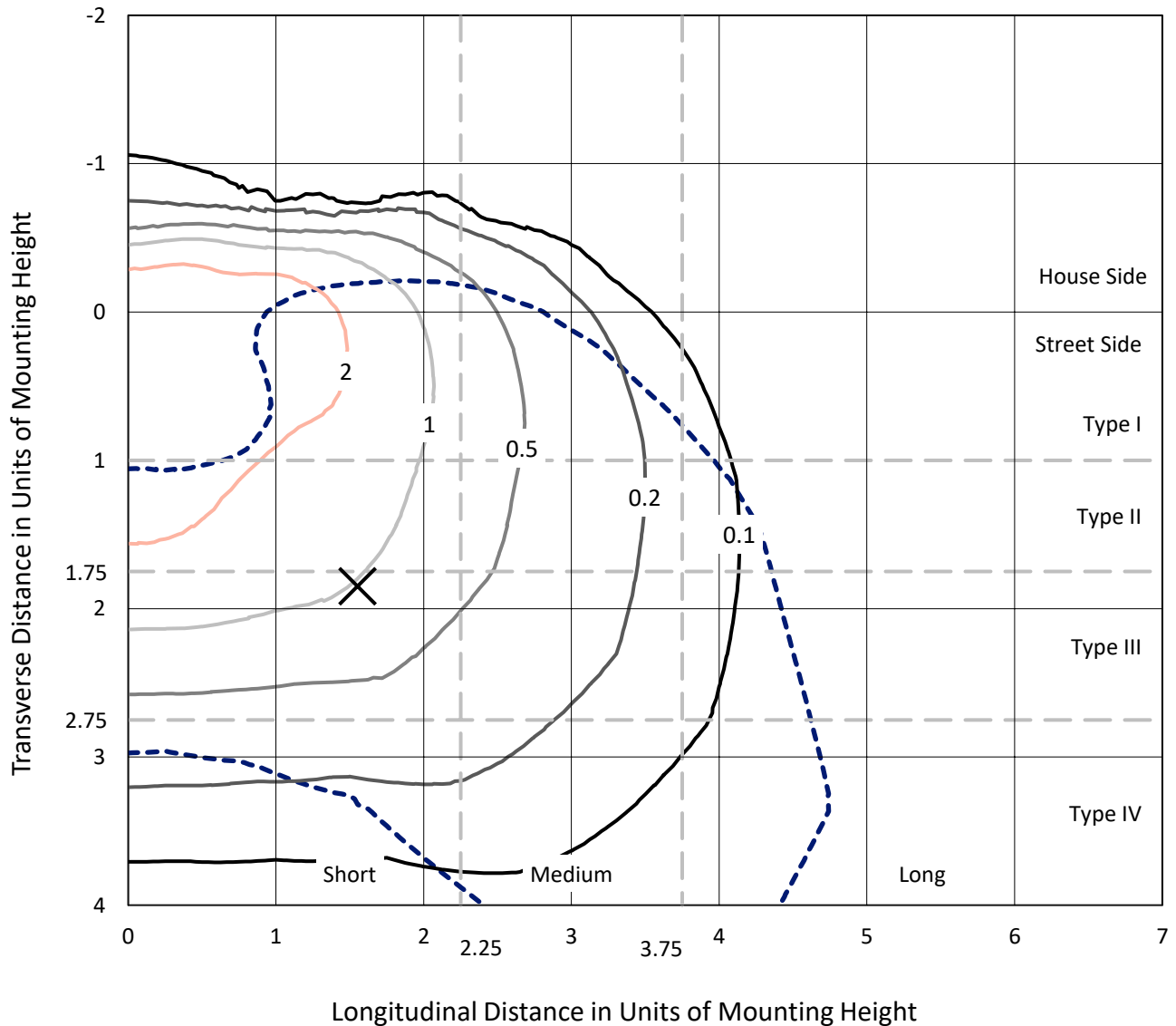
Lumens per Lamp: N/A  
Luminaire Lumens: 17947 lumens  
Efficiency: N/A  
Efficacy: 126.0 lumens/watt  
Luminous Opening: Rectangular (W 0.9' x L: 1.25' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G4  
  
Input Watts (W): 142.4  
Input Voltage (V): NR  
Input Current (Ain): 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

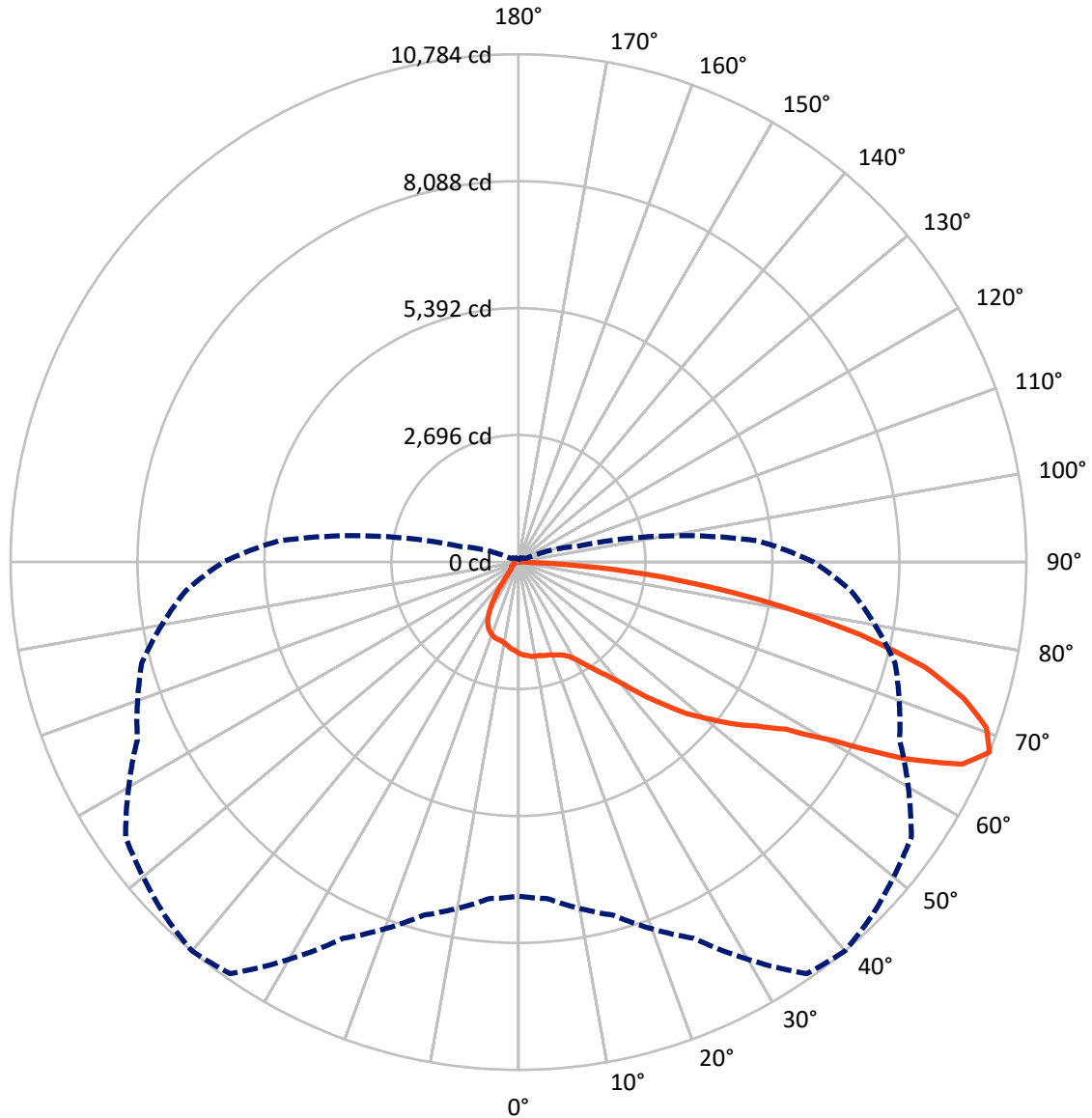
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.6 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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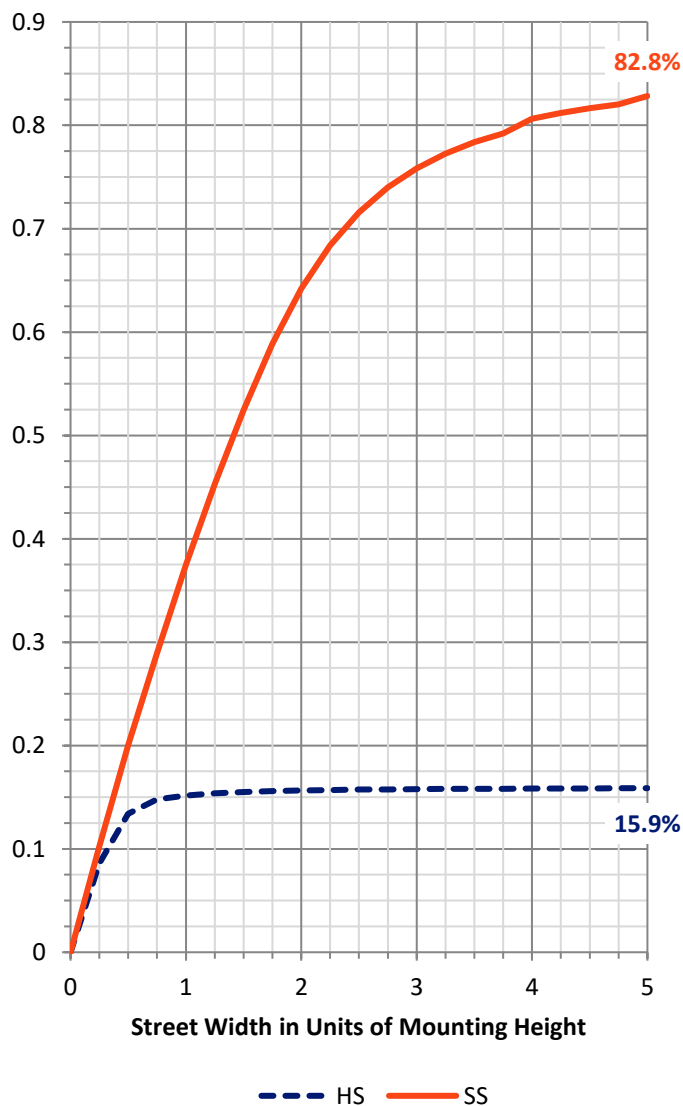
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2880.2	0.0	2880.2
	% Fixture	16.0	0.0	16.0
<b>Street Side</b>	Lumens	15066.8	0.0	15066.8
	% Fixture	84.0	0.0	84.0
<b>Total</b>	Lumens	17947.0	0.0	17947.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	183.8	1.0
10°-20°	545.3	3.0
20°-30°	907.2	5.1
30°-40°	1426.5	7.9
40°-50°	2469.9	13.8
50°-60°	3650.9	20.3
60°-70°	4746.5	26.4
70°-80°	3397.4	18.9
80°-90°	619.5	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°	17947.0	100.0
0°-180°	17947.0	100.0

**Coefficient of Utilization**



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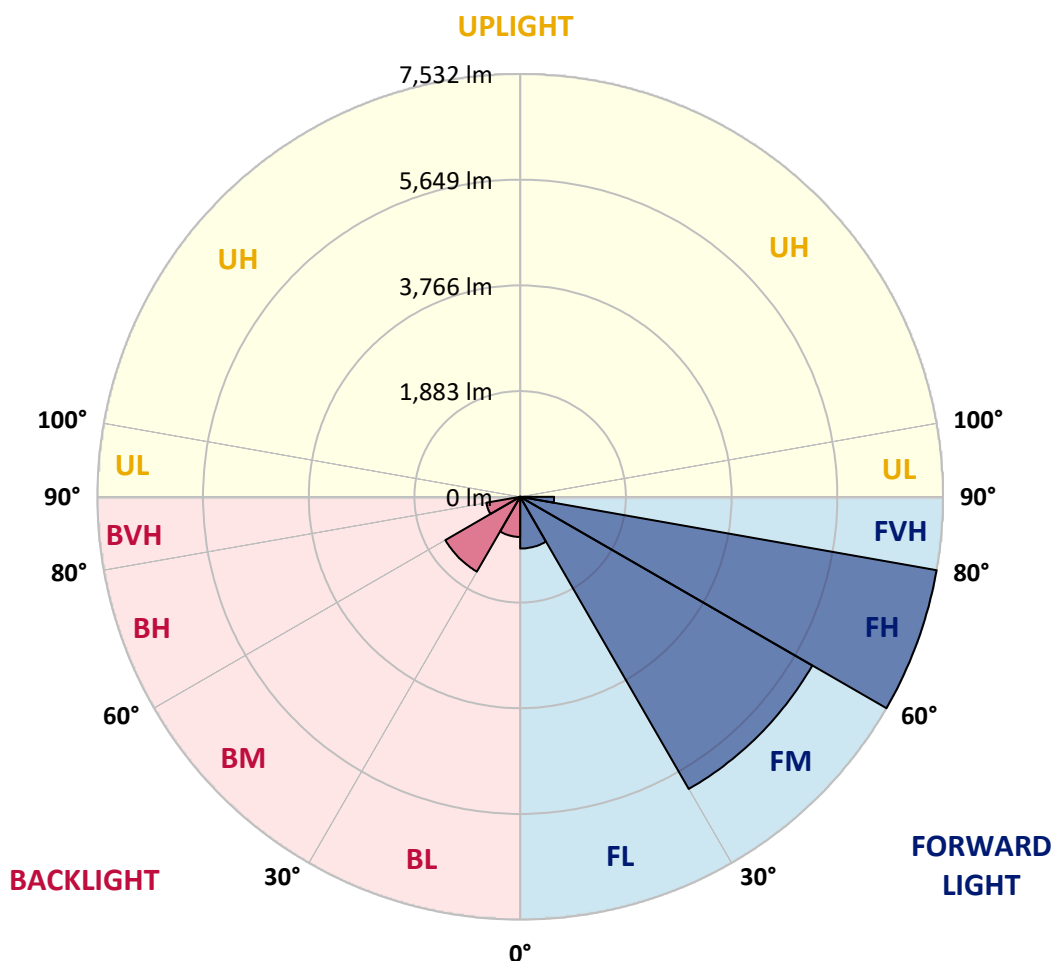
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	921.8	5.1			
FM	(30°-60°)	6008.8	33.5			
FH	(60°-80°)	7531.9	42.0			G4/12000
FVH	(80°-90°)	604.3	3.4			G4/750
BL	(0°-30°)	714.5	4.0	B2/1000		
BM	(30°-60°)	1538.5	8.6	B2/2500		
BH	(60°-80°)	611.9	3.4	B2/1000		G2/1000
BVH	(80°-90°)	15.2	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°	1942.7	1942.7	1942.7	1942.7	1942.7	1942.7	1942.7	1942.7	1942.7	1942.7	1942.7
2.5°	2021.3	2020.0	2006.7	2000.0	1981.3	1974.7	1976.0	1968.0	1949.4	1952.0	1933.4
5°	2024.0	2033.3	2013.3	2008.0	2001.3	1993.3	2002.7	1992.0	1976.0	1981.3	1961.4
7.5°	2036.0	2040.0	2030.6	2025.3	2009.3	2025.3	2024.0	2014.7	2004.0	1994.7	1986.7
10°	2040.0	2036.0	2017.3	2013.3	2013.3	2029.3	2036.0	2040.0	2040.0	2025.3	2020.0
12.5°	2020.0	2017.3	1998.7	2006.7	2024.0	2034.6	2056.0	2069.3	2090.6	2074.6	2066.6
15°	1989.3	1996.0	2004.0	2006.7	2038.6	2062.6	2082.6	2106.6	2142.6	2142.6	2139.9
17.5°	1998.7	2012.0	2021.3	2034.6	2065.3	2073.3	2101.3	2139.9	2199.9	2203.9	2210.5
20°	2045.3	2045.3	2048.0	2057.3	2083.9	2107.9	2131.9	2181.2	2250.5	2273.1	2279.8
22.5°	2095.9	2093.3	2105.3	2103.9	2125.2	2141.2	2171.9	2214.5	2301.1	2343.8	2361.1
25°	2137.2	2145.2	2155.9	2142.6	2183.9	2190.5	2214.5	2266.5	2358.4	2434.4	2471.7
27.5°	2207.9	2213.2	2210.5	2217.2	2258.5	2262.5	2285.1	2359.8	2445.0	2549.0	2630.2
30°	2329.1	2310.5	2313.1	2327.8	2387.7	2395.7	2419.7	2491.7	2559.6	2696.9	2824.8
32.5°	2495.7	2495.7	2466.4	2494.3	2563.6	2584.9	2620.9	2728.8	2795.5	2868.8	3079.3
35°	2814.1	2814.1	2792.8	2719.5	2754.2	2807.5	2874.1	3023.3	3228.5	3468.4	3692.2
37.5°	3341.8	3333.8	3249.8	3117.9	3043.3	3062.0	3127.2	3368.4	3701.5	4286.5	4458.4
40°	3972.0	3949.4	3792.1	3608.3	3417.7	3385.7	3416.4	3718.8	4193.2	5060.6	5125.9
42.5°	4531.6	4530.3	4299.8	4143.9	3900.1	3846.8	3810.8	4073.3	4686.2	5622.9	5645.6
45°	5066.0	5052.6	4828.8	4659.6	4437.0	4301.1	4291.8	4475.7	5204.5	6129.2	6033.3
47.5°	5541.6	5561.6	5311.1	5148.6	4902.1	4808.8	4734.2	4891.4	5681.5	6561.0	6362.4
50°	6089.3	6125.2	5750.8	5572.3	5323.1	5231.2	5272.5	5388.4	6157.2	6914.0	6655.6
52.5°	6780.8	6666.2	6294.5	5988.0	5756.2	5710.9	5720.2	5881.4	6707.5	7203.2	6859.4
55°	7594.9	7425.7	7052.6	6574.3	6195.9	6153.2	6149.2	6313.1	7216.5	7473.7	7016.6
57.5°	7901.4	7989.3	7842.8	7489.7	6820.8	6695.5	6598.3	6750.2	7673.5	7772.1	7181.9
60°	8608.9	8703.5	8595.6	8369.1	8142.6	7706.9	7280.5	7265.8	8099.9	8057.3	7251.2
62.5°	8687.5	8656.9	9136.6	9216.5	9351.1	9181.9	8866.1	7949.4	8485.0	8202.5	7305.8
65°	8247.8	8251.8	8895.4	9335.1	10265.1	10351.8	10155.9	9036.6	8774.1	8259.8	7267.1
67.5°	7096.6	7175.2	7761.5	8815.4	10670.2	10783.5	10618.2	10183.9	8930.0	8279.8	7099.3
70°	6098.6	6101.3	6655.6	7941.4	10457.0	10542.3	10466.3	10258.5	8870.1	8121.2	6643.6
72.5°	4799.5	4784.8	5271.1	6570.3	9704.2	9885.4	9844.1	9986.7	8650.2	7548.3	5652.2
75°	3465.7	3495.0	3988.0	5060.6	8347.8	8910.0	9109.9	9544.3	7866.7	6410.4	4143.9
77.5°	2426.4	2455.7	2928.7	3844.1	6736.8	7415.0	7736.2	8117.2	6375.7	4751.5	2123.9
80°	1586.9	1613.6	2020.0	2887.4	5022.0	5600.3	5841.4	5613.6	3744.2	1996.0	233.2
82.5°	922.1	974.0	1283.1	1981.3	3519.0	3793.5	3806.8	2954.0	1399.1	178.5	109.3
85°	449.0	482.3	767.5	1175.2	1925.4	2024.0	1877.4	1099.3	326.4	85.3	62.6
87.5°	66.6	87.9	302.5	443.7	326.4	267.8	161.2	37.3	21.3	10.7	8.0
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°	1942.7	1942.7	1942.7	1942.7	1942.7	1942.7	1942.7	1942.7	1942.7	1942.7	1942.7
2.5°	1922.7	1921.4	1925.4	1908.1	1909.4	1888.1	1880.1	1876.1	1894.7	1892.1	1905.4
5°	1946.7	1933.4	1932.0	1889.4	1885.4	1858.8	1842.8	1818.8	1837.4	1833.4	1833.4
7.5°	1961.4	1948.0	1940.0	1889.4	1854.8	1808.1	1781.5	1762.8	1761.5	1757.5	1758.8
10°	1985.3	1978.7	1936.0	1880.1	1833.4	1773.5	1722.8	1693.5	1680.2	1681.5	1672.2
12.5°	2038.6	2025.3	1968.0	1901.4	1826.8	1744.2	1678.9	1626.9	1600.3	1594.9	1580.3
15°	2114.6	2099.9	2028.0	1952.0	1844.1	1746.8	1649.6	1557.6	1512.3	1493.7	1480.3
17.5°	2203.9	2181.2	2098.6	2012.0	1880.1	1744.2	1621.6	1497.7	1411.1	1361.8	1357.8
20°	2274.5	2263.8	2169.2	2075.9	1902.7	1726.8	1574.9	1411.1	1281.8	1191.2	1172.6
22.5°	2367.8	2369.1	2263.8	2123.9	1921.4	1697.5	1501.7	1289.8	1113.9	992.7	971.4
25°	2502.3	2482.3	2363.8	2162.6	1925.4	1664.2	1401.7	1137.9	908.7	772.8	748.8
27.5°	2663.6	2634.2	2445.0	2182.5	1908.1	1597.6	1268.5	939.4	671.6	554.3	535.6
30°	2834.1	2764.8	2511.7	2190.5	1854.8	1489.7	1079.3	686.2	475.7	393.1	385.1
32.5°	3052.6	2951.4	2569.0	2163.9	1773.5	1325.8	836.8	470.4	329.1	285.1	287.8
35°	3500.3	3252.5	2658.2	2134.6	1658.9	1120.6	584.9	311.8	254.5	249.2	250.5
37.5°	4177.2	3784.1	2815.5	2091.9	1488.3	856.8	375.7	241.2	242.5	242.5	242.5
40°	4831.4	4365.1	3056.6	2008.0	1279.1	599.6	247.8	227.8	234.5	233.2	234.5
42.5°	5297.8	4796.8	3309.8	1905.4	1038.0	379.7	222.5	214.5	218.5	217.2	221.2
45°	5676.2	5167.2	3540.3	1760.2	776.8	247.8	218.5	203.9	199.9	198.5	202.5
47.5°	5956.0	5411.1	3705.5	1578.9	518.3	213.2	209.2	187.9	182.5	182.5	183.9
50°	6227.8	5645.6	3754.8	1372.4	319.8	207.9	197.2	174.6	166.6	163.9	166.6
52.5°	6417.0	5725.5	3765.5	1139.2	214.5	202.5	182.5	158.6	149.2	147.9	149.2
55°	6578.3	5889.4	3678.9	848.8	191.9	190.5	169.2	142.6	131.9	137.2	139.9
57.5°	6618.2	5905.4	3505.7	561.0	190.5	174.6	154.6	127.9	119.9	125.2	126.6
60°	6719.5	5840.1	3289.8	345.1	186.5	155.9	137.2	113.3	107.9	109.3	111.9
62.5°	6632.9	5804.1	2920.7	241.2	171.9	142.6	127.9	103.9	94.6	93.3	93.3
65°	6545.0	5592.3	2233.2	199.9	153.2	133.2	115.9	91.9	81.3	75.9	75.9
67.5°	6265.1	5117.9	1275.1	185.2	138.6	122.6	105.3	83.9	70.6	64.0	61.3
70°	5560.3	4099.9	393.1	169.2	139.9	114.6	97.3	73.3	61.3	52.0	50.6
72.5°	4354.4	2563.6	183.9	149.2	143.9	106.6	90.6	68.0	54.6	44.0	42.6
75°	2562.3	614.3	150.6	110.6	122.6	113.3	89.3	65.3	48.0	36.0	34.6
77.5°	557.0	149.2	134.6	74.6	91.9	109.3	85.3	57.3	42.6	28.0	26.6
80°	134.6	117.3	122.6	57.3	61.3	75.9	69.3	49.3	38.6	22.7	21.3
82.5°	90.6	87.9	107.9	36.0	30.6	28.0	29.3	30.6	32.0	17.3	16.0
85°	60.0	75.9	57.3	20.0	17.3	14.7	14.7	13.3	18.7	10.7	10.7
87.5°	9.3	8.0	9.3	8.0	8.0	6.7	5.3	5.3	4.0	5.3	5.3
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)