

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: P509532

Luminaire Tested: **VERD-G-CA2-120-722-U-T2-HSS**

Issue Date: 4/6/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P509532  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2102-155-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 4/6/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: VERD-G-CA2-120-722-U-T2-HSS  
Description: VERDEON-G ROADWAY AND AREA LUMINAIRE  
(2) 70 CRI, 2200K, 1120mA LEDS AND TYPE II OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 13262 lumens  
Efficiency: N/A  
Efficacy: 106.4 lumens/watt  
Luminous Opening: Rectangular (W 0.9' x L: 1.25' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G2

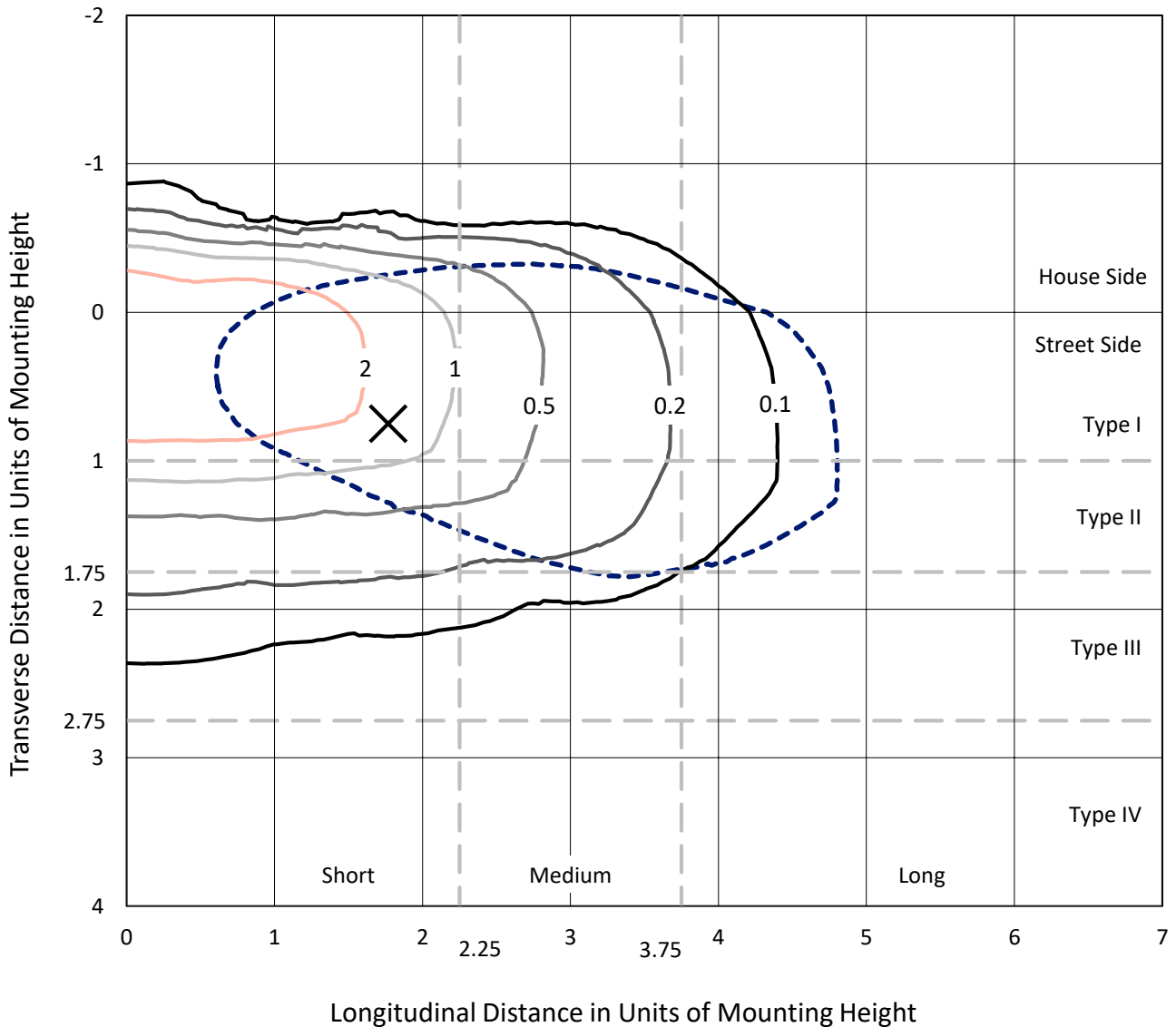
Input Watts (W): 124.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P509532  
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### Iso-Footcandle Lines of Horizontal Illumination

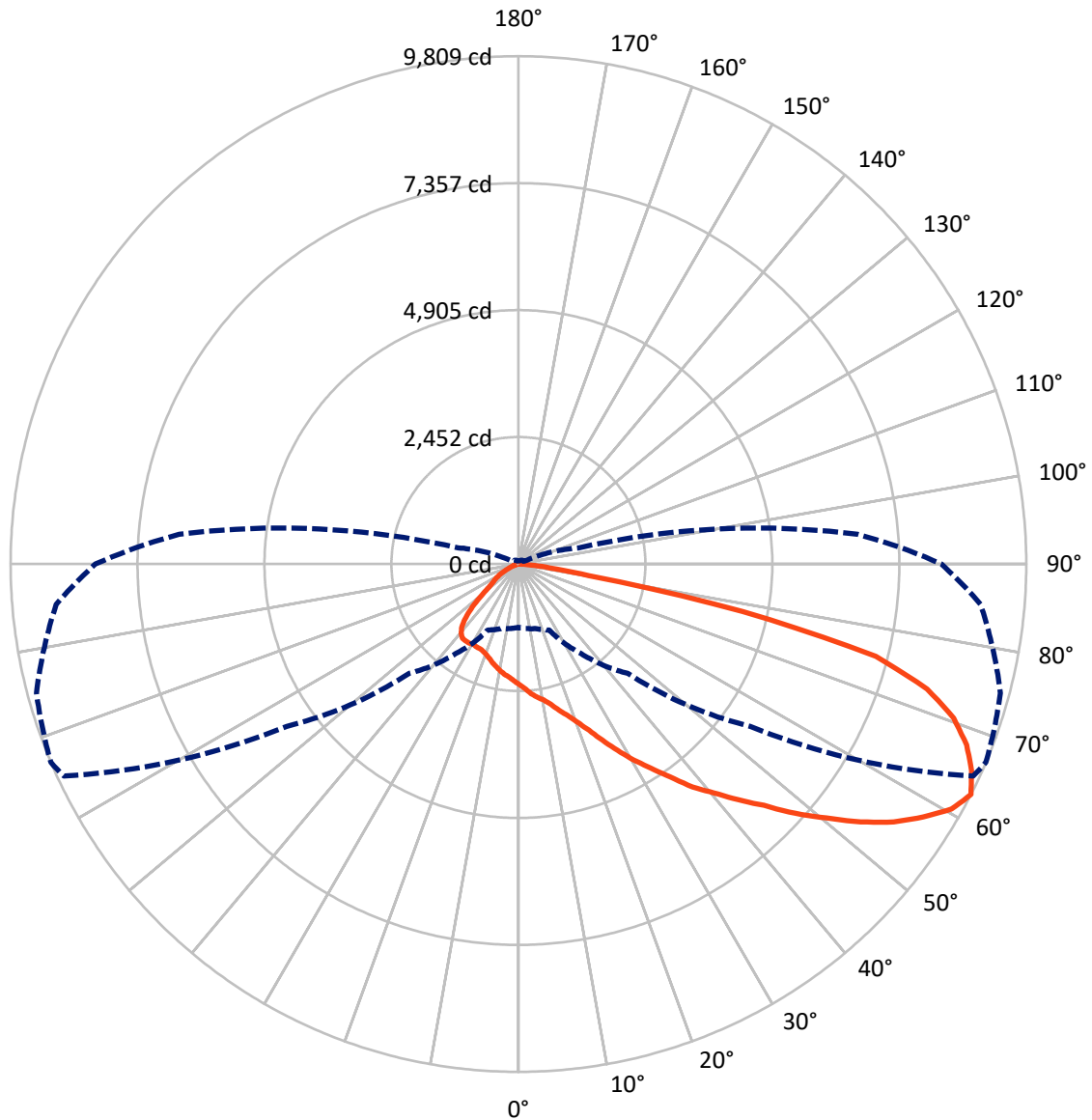
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.7 fc  
 Type II - Short - N/A

REPORT NUMBER: P509532  
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### Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral    - - - Horizontal Cone Through 62.5-Deg Vertical

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 CATALOG NUMBER: VERD-G-CA2-120-722-U-T2-HSS

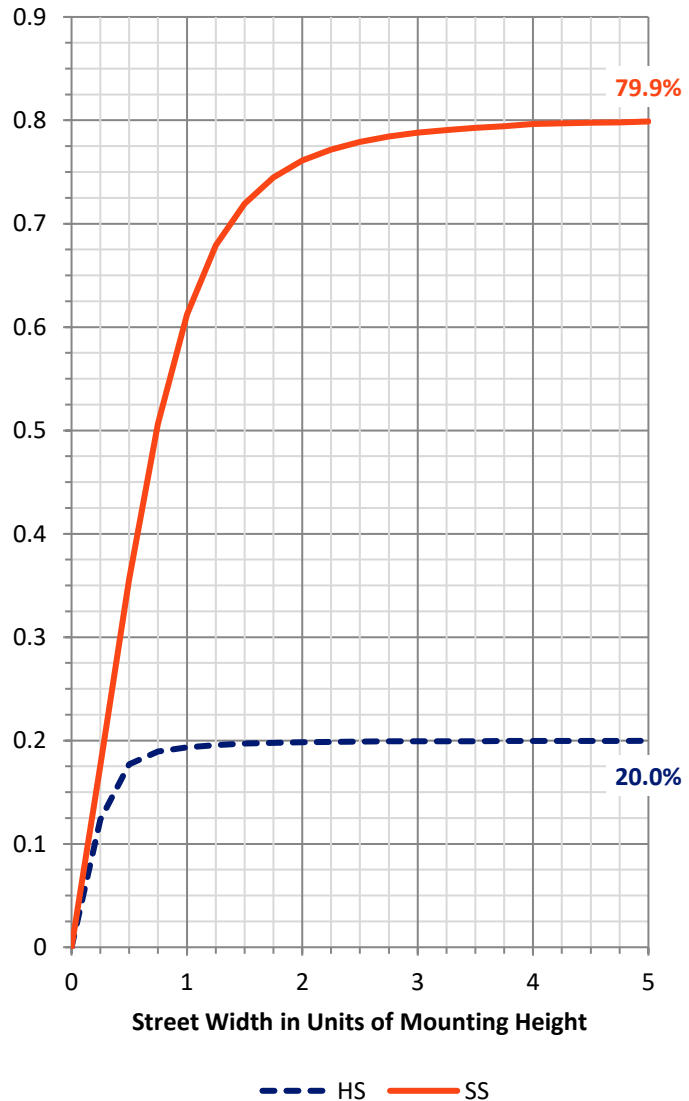
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2680.0	0.0	2680.0
	% Fixture	20.2	0.0	20.2
<b>Street Side</b>	Lumens	10582.0	0.0	10582.0
	% Fixture	79.8	0.0	79.8
<b>Total</b>	Lumens	13262.0	0.0	13262.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	225.2	1.7
10°-20°	679.1	5.1
20°-30°	1158.3	8.7
30°-40°	1697.0	12.8
40°-50°	2239.5	16.9
50°-60°	2635.5	19.9
60°-70°	2710.6	20.4
70°-80°	1756.2	13.2
80°-90°	160.7	1.2
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°	13262.0	100.0
0°-180°	13262.0	100.0



REPORT NUMBER: P509532

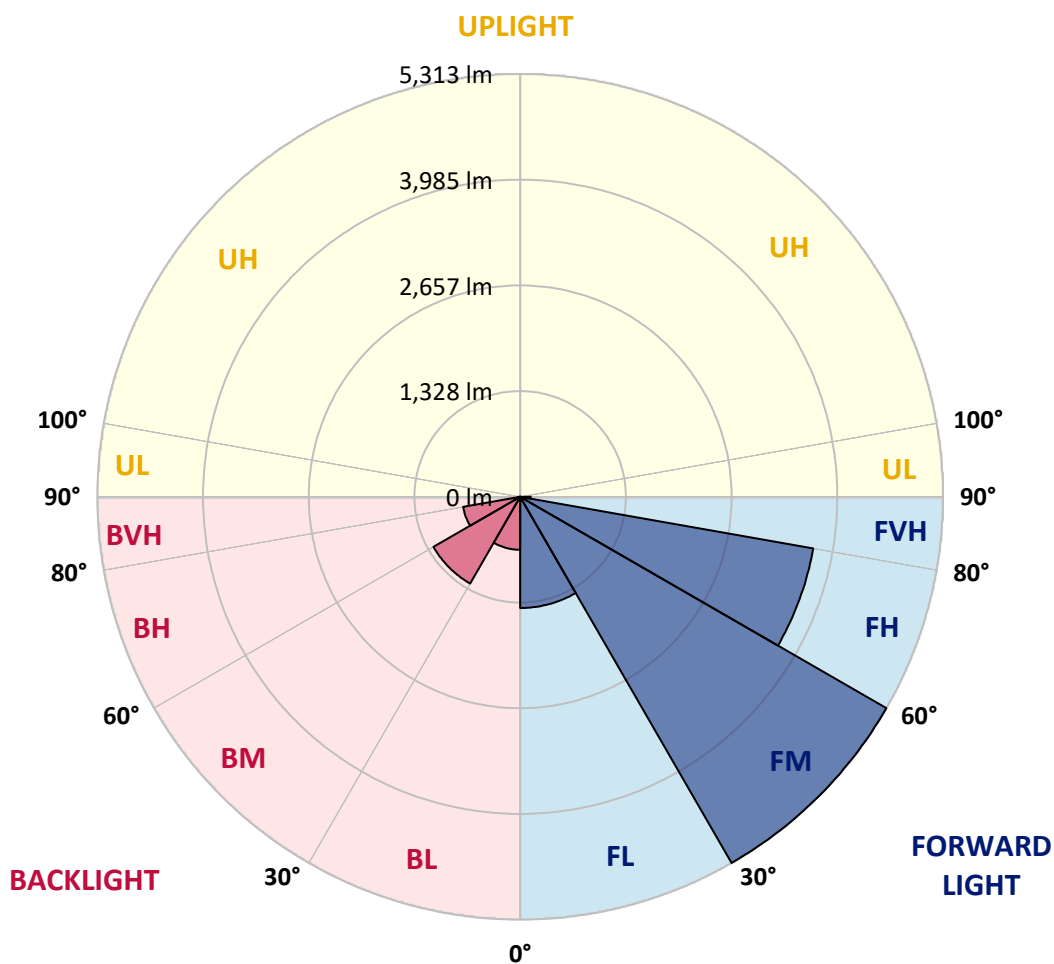
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1396.5	10.5			
FM (30°-60°)	5313.4	40.1			
FH (60°-80°)	3739.2	28.2			G2/5000
FVH (80°-90°)	132.9	1.0			G2/225
BL (0°-30°)	666.1	5.0	B2/1000		
BM (30°-60°)	1258.5	9.5	B2/2500		
BH (60°-80°)	727.6	5.5	B2/1000		G2/1000
BVH (80°-90°)	27.8	0.2			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





REPORT NUMBER: P509532

CATALOG NUMBER: VERD-G-CA2-120-722-U-T2-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	2330.2	2330.2	2330.2	2330.2	2330.2	2330.2	2330.2	2330.2	2330.2	2330.2	2330.2
2.5°	2584.4	2581.5	2553.8	2528.0	2510.8	2509.8	2464.9	2424.8	2406.7	2385.6	2338.8
5°	2718.1	2741.1	2710.5	2672.3	2641.7	2618.8	2579.6	2533.7	2514.6	2464.9	2394.2
7.5°	2912.1	2912.1	2883.4	2850.9	2815.6	2754.4	2687.5	2607.3	2597.7	2542.3	2449.7
10°	3005.7	3028.6	2991.4	2953.2	2914.0	2882.5	2791.7	2693.3	2669.4	2586.3	2471.6
12.5°	3136.6	3136.6	3116.5	3084.0	3039.1	2976.1	2917.8	2818.4	2778.3	2654.1	2510.8
15°	3259.8	3249.3	3232.1	3178.6	3155.7	3116.5	3040.1	2936.0	2928.3	2790.7	2571.0
17.5°	3356.3	3339.1	3322.9	3294.2	3266.5	3251.2	3196.8	3106.0	3074.5	2948.4	2684.7
20°	3406.0	3420.3	3381.2	3380.2	3388.8	3377.4	3341.0	3273.2	3259.8	3109.8	2800.3
22.5°	3462.4	3481.5	3471.9	3481.5	3507.3	3526.4	3524.5	3510.2	3489.1	3325.8	2986.6
25°	3474.8	3462.4	3502.5	3591.4	3656.3	3702.2	3792.0	3773.8	3768.1	3623.8	3239.8
27.5°	3436.6	3448.1	3511.1	3639.1	3806.3	3931.5	4005.1	4095.8	4075.8	3964.0	3544.5
30°	3413.7	3433.7	3516.8	3666.8	3891.4	4117.8	4263.0	4375.7	4392.9	4304.1	3844.5
32.5°	3334.4	3361.1	3447.1	3688.8	3974.5	4317.5	4498.0	4708.2	4700.6	4664.3	4209.5
35°	3212.1	3247.4	3379.3	3660.1	4068.1	4497.1	4736.9	5042.6	5048.4	5063.6	4556.3
37.5°	3113.7	3125.1	3275.1	3575.1	4105.4	4642.3	4959.5	5373.2	5465.9	5443.9	4949.9
40°	2956.0	2990.4	3152.8	3471.0	4101.5	4740.7	5185.9	5760.1	5809.8	5878.6	5361.7
42.5°	2762.1	2799.3	2955.1	3329.6	4048.0	4826.7	5403.8	6154.7	6224.5	6332.4	5739.1
45°	2575.8	2592.0	2738.2	3123.2	3943.9	4894.5	5615.9	6543.6	6650.6	6805.3	6119.4
47.5°	2343.6	2387.6	2550.9	2907.3	3713.7	4919.4	5772.5	7002.2	7199.0	7293.5	6553.1
50°	1802.8	1830.6	2289.1	2717.2	3463.3	4842.0	5976.0	7584.0	7708.2	7806.6	6992.6
52.5°	1588.8	1613.7	1791.4	2497.4	3184.4	4641.3	6100.2	8124.7	8274.7	8253.7	7434.0
55°	1499.0	1511.4	1587.9	2037.9	2930.2	4268.7	6187.2	8715.2	8796.4	8660.7	7871.6
57.5°	1394.9	1409.2	1466.5	1708.3	2643.6	3796.8	6114.6	9188.1	9218.7	9050.5	8261.4
60°	1302.2	1311.8	1397.8	1528.6	2332.1	3339.1	5931.1	9528.2	9613.3	9337.2	8681.7
62.5°	1222.9	1245.8	1290.7	1406.4	2114.3	2984.7	5466.8	9688.7	9809.1	9637.2	8960.7
65°	1144.6	1155.1	1206.7	1308.9	1880.2	2775.4	5201.2	9477.6	9618.0	9677.3	9132.7
67.5°	1037.6	1052.9	1103.5	1177.1	1568.8	2571.9	4581.2	9134.6	9335.2	9466.1	9030.5
70°	912.4	925.8	977.4	1038.5	1309.9	2271.9	3866.5	8784.9	8916.8	8925.4	8573.8
72.5°	767.2	779.6	831.2	892.3	1087.2	1891.7	3030.5	7956.6	8251.8	8439.1	7807.6
75°	488.2	541.7	669.7	738.5	895.2	1530.6	2162.1	6352.5	7128.3	7663.3	6756.6
77.5°	79.3	88.9	262.7	374.5	520.7	1037.6	1200.9	3519.7	4427.3	6404.1	5455.4
80°	60.2	67.8	95.5	254.1	334.4	645.9	472.9	1142.7	1377.7	2994.2	3056.3
82.5°	25.8	30.6	57.3	142.4	157.6	172.0	127.1	511.1	604.8	910.5	1060.5
85°	8.6	11.5	26.8	44.9	49.7	38.2	27.7	202.5	249.4	436.6	404.1
87.5°	0.0	1.0	5.7	6.7	5.7	3.8	2.9	1.9	1.9	2.9	2.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P509532

CATALOG NUMBER: VERD-G-CA2-120-722-U-T2-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2330.2	2330.2	2330.2	2330.2	2330.2	2330.2	2330.2	2330.2	2330.2	2330.2	2330.2
2.5°	2329.3	2296.8	2293.0	2253.8	2218.4	2178.3	2153.5	2144.9	2156.3	2167.8	2179.3
5°	2357.9	2308.3	2258.6	2177.4	2141.1	2097.1	2038.8	2003.5	1987.2	2001.6	2006.3
7.5°	2379.0	2314.9	2238.5	2127.7	2049.3	1965.3	1909.9	1850.6	1818.1	1823.9	1828.6
10°	2382.8	2312.1	2182.1	2075.1	1949.0	1833.4	1760.8	1733.1	1711.1	1692.0	1694.9
12.5°	2418.1	2314.0	2134.4	2004.4	1871.6	1722.6	1641.4	1606.0	1602.2	1563.0	1559.2
15°	2465.9	2356.0	2109.5	1940.4	1770.4	1629.9	1533.4	1470.4	1472.3	1452.2	1449.3
17.5°	2543.3	2397.1	2091.4	1865.9	1664.3	1535.3	1413.0	1355.7	1337.6	1331.8	1327.1
20°	2630.2	2457.3	2069.4	1800.0	1571.6	1421.6	1285.0	1226.7	1176.1	1160.8	1162.7
22.5°	2758.2	2536.6	2087.6	1750.3	1468.5	1310.8	1175.1	1061.5	974.5	951.6	948.7
25°	2984.7	2693.3	2142.0	1707.3	1404.4	1202.9	1020.4	860.8	746.2	721.3	723.2
27.5°	3236.9	2899.6	2217.5	1689.2	1323.2	1083.4	832.2	654.5	547.4	518.8	520.7
30°	3535.9	3145.2	2332.1	1638.5	1236.3	909.5	620.1	479.6	396.5	363.1	365.0
32.5°	3823.5	3390.7	2479.3	1630.9	1127.4	683.1	448.1	348.7	280.9	256.0	258.9
35°	4140.7	3671.6	2634.0	1592.7	948.7	490.1	314.3	241.7	205.4	197.8	196.8
37.5°	4499.9	3921.9	2748.7	1557.3	709.9	344.9	215.0	186.3	181.5	171.0	171.0
40°	4833.4	4182.8	2834.7	1463.7	496.8	234.1	168.2	169.1	164.3	150.0	147.1
42.5°	5141.0	4452.2	2914.0	1313.7	336.3	159.6	151.0	153.8	155.7	139.5	135.7
45°	5489.7	4784.7	2896.8	1088.2	214.0	144.3	135.7	144.3	153.8	137.6	133.8
47.5°	5871.9	5028.3	2933.1	785.3	151.0	136.6	126.1	137.6	145.2	134.7	129.0
50°	6303.8	5347.4	2823.2	456.7	138.5	129.0	121.3	126.1	137.6	131.8	125.2
52.5°	6699.3	5632.1	2673.2	223.6	130.9	121.3	113.7	117.5	129.0	122.3	124.2
55°	7032.7	5928.3	2368.4	159.6	126.1	112.7	109.9	110.8	117.5	108.9	114.6
57.5°	7441.6	6171.9	2058.9	149.0	122.3	107.0	108.0	100.3	102.2	97.5	91.7
60°	7805.6	6402.2	1638.5	137.6	116.6	109.9	97.5	86.9	81.2	78.3	77.4
62.5°	8169.7	6577.0	1207.6	125.2	110.8	99.4	86.0	74.5	65.0	61.1	60.2
65°	8307.2	6670.6	824.5	114.6	104.1	90.8	76.4	60.2	49.7	45.9	43.0
67.5°	8205.0	6377.3	477.7	103.2	100.3	83.1	66.9	48.7	38.2	35.3	33.4
70°	7731.1	5916.8	255.1	93.6	87.9	73.6	59.2	40.1	30.6	26.8	25.8
72.5°	6916.2	5088.5	133.8	78.3	73.6	60.2	46.8	33.4	24.8	20.1	19.1
75°	5872.9	3994.5	93.6	57.3	50.6	46.8	35.3	26.8	20.1	15.3	14.3
77.5°	4635.6	2595.8	70.7	37.3	29.6	30.6	25.8	22.0	16.2	11.5	11.5
80°	2394.2	1349.0	53.5	24.8	17.2	18.2	18.2	16.2	12.4	8.6	8.6
82.5°	949.7	496.8	37.3	14.3	10.5	11.5	10.5	10.5	8.6	5.7	5.7
85°	313.4	108.9	13.4	8.6	6.7	6.7	5.7	4.8	2.9	1.9	1.9
87.5°	2.9	2.9	3.8	4.8	4.8	3.8	2.9	1.0	0.0	0.0	0.0
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)