

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: P510292

Luminaire Tested: **VERD-M-CA4-240-760-U-T2-HSS**

Issue Date: 4/6/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P510292  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2103-181-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 4/6/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: VERD-M-CA4-240-760-U-T2-HSS  
Description: VERDEON-M ROADWAY AND AREA LUMINAIRE  
(4) 70 CRI, 5700K, 1090mA LEDS AND TYPE II OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 30499 lumens  
Efficiency: N/A  
Efficacy: 125.9 lumens/watt  
Luminous Opening: Rectangular (W 1.35' x L: 1.58' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G4

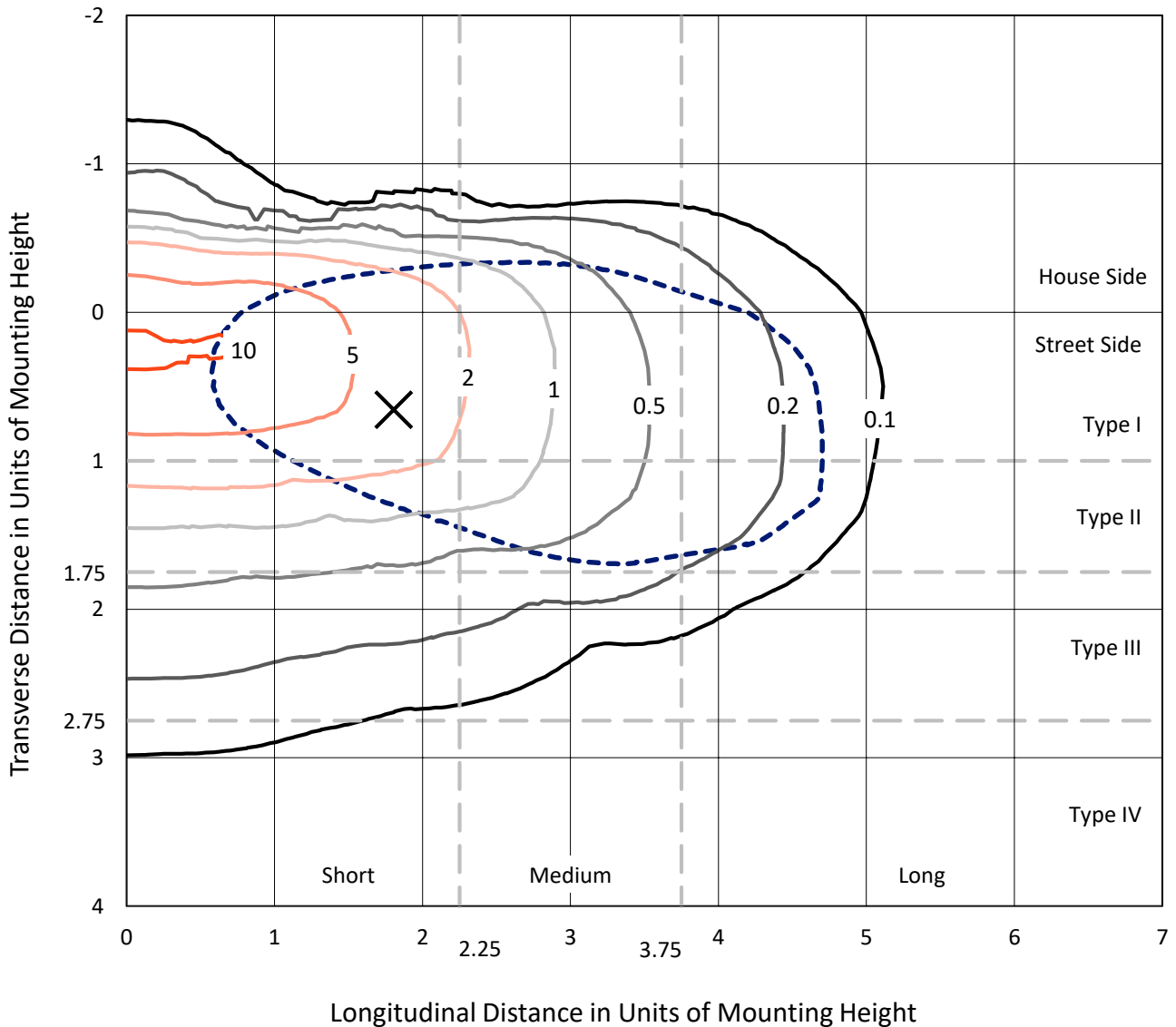
Input Watts (W): 242.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

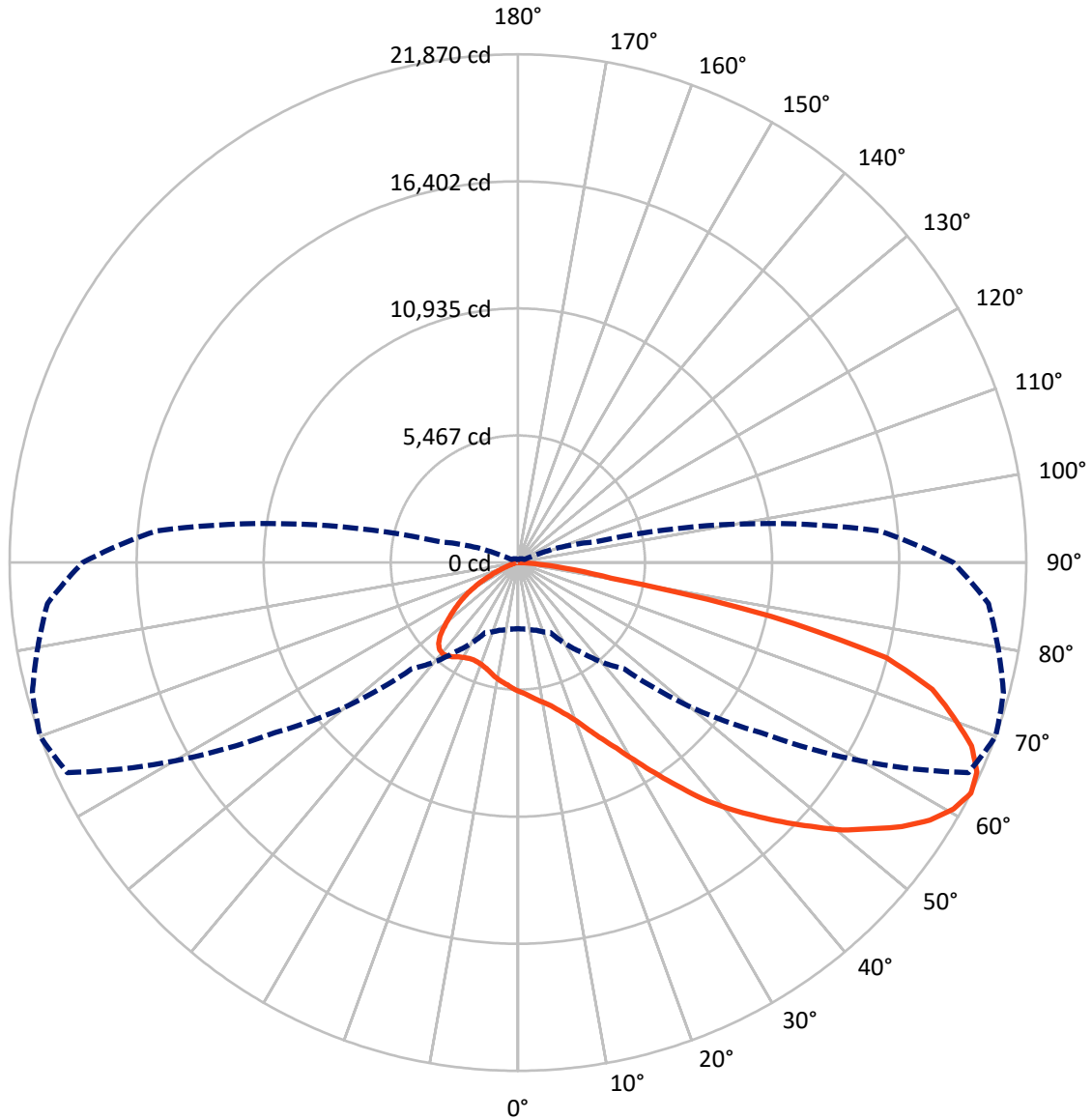
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.5 fc  
 Type II - Short - N/A

REPORT NUMBER: P510292  
CATALOG NUMBER: VERD-M-CA4-240-760-U-T2-HSS

### Luminous Intensity Polar Plot



— Vertical Plane Through 70-Deg Lateral    - - - Horizontal Cone Through 62.5-Deg Vertical

REPORT NUMBER: P510292

CATALOG NUMBER: VERD-M-CA4-240-760-U-T2-HSS

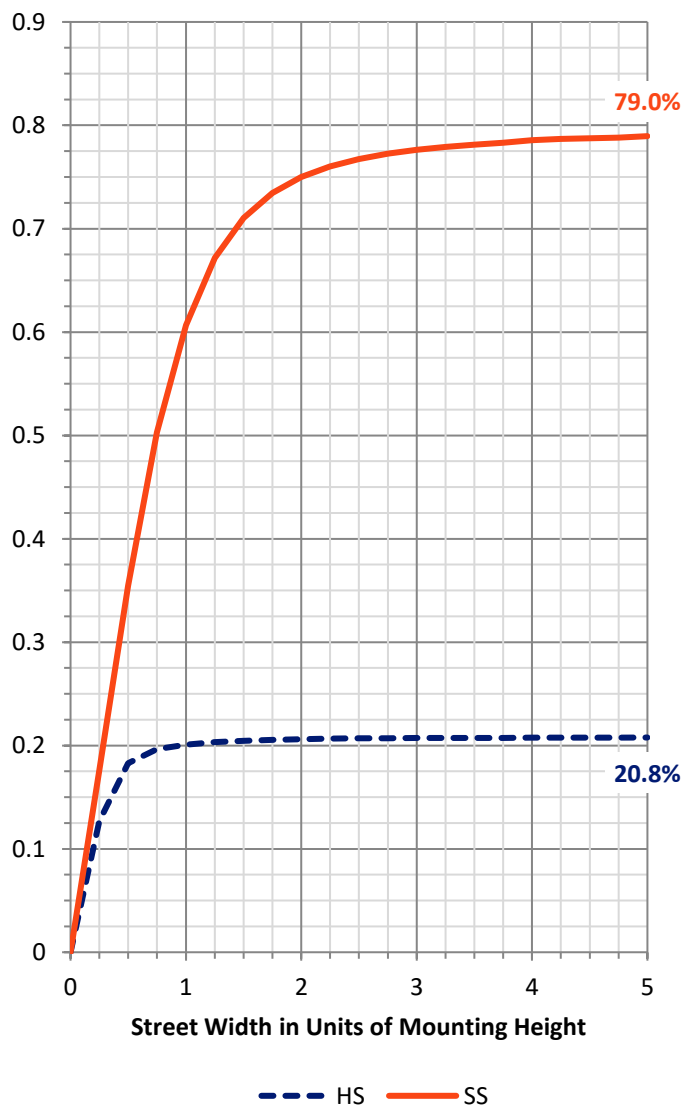
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6413.6	0.0	6413.6
	% Fixture	21.0	0.0	21.0
<b>Street Side</b>	Lumens	24085.4	0.0	24085.4
	% Fixture	79.0	0.0	79.0
<b>Total</b>	Lumens	30499.0	0.0	30499.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	526.4	1.7
10°-20°	1571.0	5.2
20°-30°	2663.3	8.7
30°-40°	3916.6	12.8
40°-50°	5215.6	17.1
50°-60°	6101.2	20.0
60°-70°	6136.4	20.1
70°-80°	3884.4	12.7
80°-90°	484.0	1.6
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°	30499.0	100.0
0°-180°	30499.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P510292

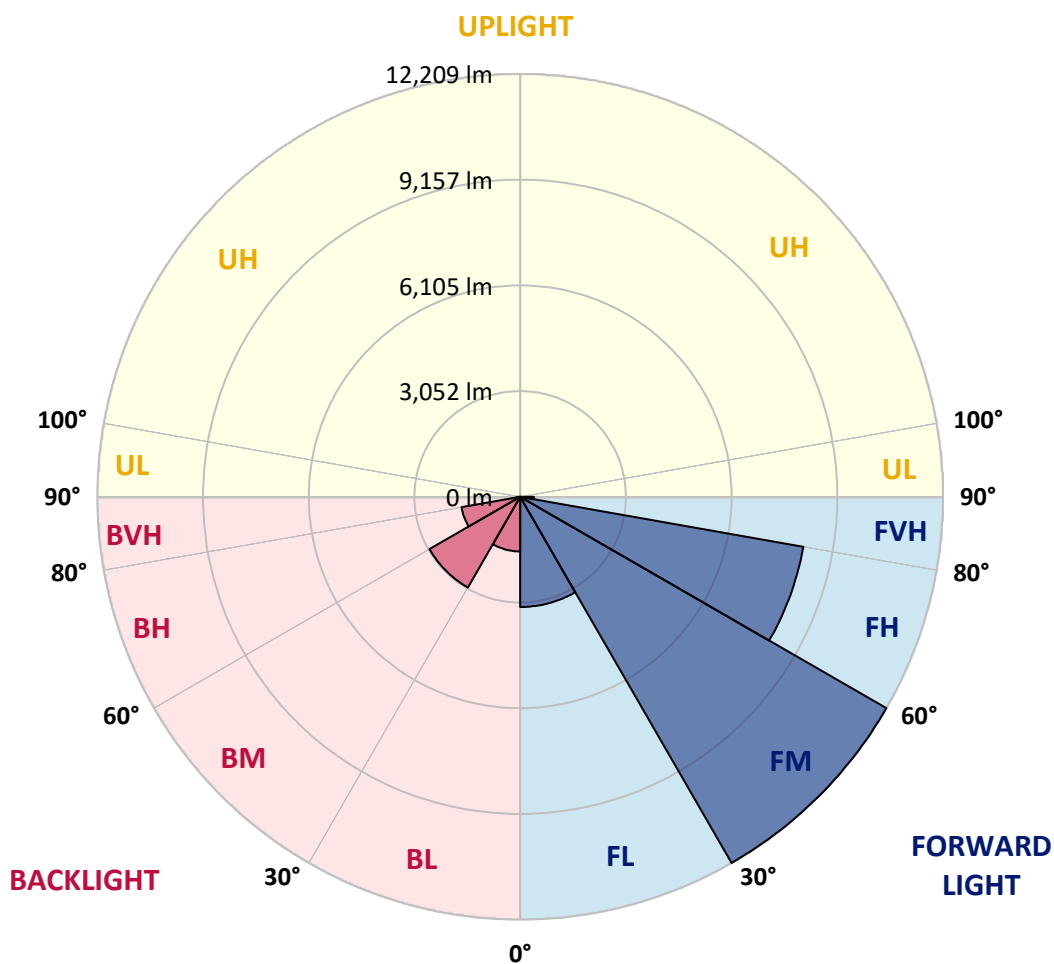
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3181.7	10.4			
FM	(30°-60°)	12209.3	40.0			
FH	(60°-80°)	8301.8	27.2			G4/12000
FVH	(80°-90°)	392.5	1.3			G3/500
BL	(0°-30°)	1579.0	5.2	B3/2500		
BM	(30°-60°)	3024.1	9.9	B3/5000		
BH	(60°-80°)	1719.0	5.6	B3/2500		G3/2500
BVH	(80°-90°)	91.5	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G4**

Type II Short





REPORT NUMBER: P510292

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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	5544.6	5544.6	5544.6	5544.6	5544.6	5544.6	5544.6	5544.6	5544.6	5544.6	5544.6
2.5°	5848.9	5900.1	5861.0	5845.9	5858.0	5797.7	5749.5	5680.2	5647.1	5623.0	5583.8
5°	6145.7	6230.0	6178.8	6147.2	6142.6	6032.7	5967.9	5873.0	5799.2	5734.4	5635.0
7.5°	6459.0	6508.7	6489.1	6452.9	6428.8	6294.8	6180.3	6046.2	5964.9	5879.0	5711.8
10°	6733.1	6793.4	6773.8	6709.0	6686.4	6549.3	6418.3	6236.0	6124.6	6017.6	5787.2
12.5°	7016.3	7084.1	7043.4	6978.6	6959.1	6820.5	6684.9	6463.5	6324.9	6204.4	5885.1
15°	7276.9	7338.6	7310.0	7236.2	7216.6	7099.1	6950.0	6743.7	6593.0	6433.4	6023.6
17.5°	7484.7	7546.5	7510.4	7475.7	7469.7	7353.7	7264.8	7053.9	6910.9	6693.9	6236.0
20°	7636.9	7700.1	7682.1	7698.6	7761.9	7676.0	7621.8	7444.1	7298.0	7063.0	6541.8
22.5°	7757.4	7838.7	7911.0	7944.2	8061.7	8055.6	8043.6	7938.1	7823.7	7579.6	6906.3
25°	7769.4	7862.8	8005.9	8161.1	8375.0	8477.4	8552.7	8536.1	8402.1	8161.1	7410.9
27.5°	7787.5	7883.9	8031.5	8298.1	8680.7	8920.2	9045.3	9122.1	9043.8	8882.6	7984.8
30°	7748.3	7847.8	8033.0	8373.5	8890.1	9334.5	9557.4	9842.1	9851.1	9715.6	8851.0
32.5°	7570.6	7701.7	7926.1	8382.5	9093.5	9766.8	10110.2	10657.0	10776.0	10675.1	9744.2
35°	7273.9	7392.9	7713.7	8302.7	9217.0	10126.8	10754.9	11607.5	11783.7	11777.7	10795.6
37.5°	6945.5	7066.0	7427.5	8114.4	9296.8	10447.6	11322.8	12550.4	12901.4	12827.6	11788.2
40°	6582.5	6709.0	7126.3	7877.9	9257.7	10733.8	11923.8	13464.7	13900.0	13909.1	12737.2
42.5°	6160.7	6264.7	6683.4	7551.0	9128.1	10944.7	12482.6	14427.2	14885.1	14859.5	13631.9
45°	5757.0	5865.5	6231.5	7044.9	8828.4	11062.2	13030.9	15401.8	15903.4	15822.1	14626.1
47.5°	5269.0	5424.1	5841.4	6620.1	8365.9	11053.1	13509.9	16399.0	16962.3	16896.0	15484.6
50°	4054.9	4146.8	5091.3	6181.8	7739.3	10842.3	13978.4	17378.1	18090.5	17961.0	16400.5
52.5°	3652.7	3735.6	4039.9	5656.1	7169.9	10385.9	14368.5	18498.7	19032.0	18931.0	17335.9
55°	3452.4	3497.6	3682.9	4665.0	6614.1	9644.8	14629.1	19494.4	20048.7	19825.8	18211.0
57.5°	3200.9	3256.6	3472.0	3984.1	5930.3	8507.5	14568.8	20392.1	20904.3	20562.3	18982.2
60°	3008.1	3050.2	3252.1	3586.5	5223.8	7329.6	13952.8	21273.3	21530.9	21193.5	19750.5
62.5°	2845.4	2869.5	3011.1	3328.9	4686.1	6469.5	12750.7	21390.8	21869.8	21625.8	20322.8
65°	2643.5	2649.6	2816.8	3065.3	4189.0	5952.9	11718.9	20788.3	21701.1	21619.8	20529.2
67.5°	2407.0	2419.1	2587.8	2777.6	3591.0	5403.1	10111.7	20464.4	21045.9	20994.7	20121.0
70°	2110.3	2134.4	2289.6	2434.2	3041.2	4743.3	8048.1	19184.1	19874.0	19798.7	18775.9
72.5°	1824.1	1810.6	1955.2	2098.3	2533.6	3960.0	6100.5	16980.4	18641.8	18569.5	17028.6
75°	1498.8	1489.7	1638.8	1774.4	2077.2	3199.4	4291.4	12557.9	16379.4	16602.3	14683.3
77.5°	923.4	930.9	1016.7	1107.1	1406.9	2390.5	2738.4	6986.2	11127.0	13195.1	11523.1
80°	668.8	668.8	732.1	786.3	930.9	1456.6	1363.2	2913.2	4067.0	6368.6	7186.5
82.5°	433.8	415.7	454.9	501.6	518.2	631.1	623.6	1461.1	2072.7	2494.4	2993.0
85°	225.9	250.0	150.6	212.4	224.4	209.4	215.4	685.4	920.3	1179.4	1298.4
87.5°	34.6	27.1	36.2	49.7	57.2	48.2	42.2	79.8	123.5	164.2	194.3
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: P510292  
 CATALOG NUMBER: VERD-M-CA4-240-760-U-T2-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5544.6	5544.6	5544.6	5544.6	5544.6	5544.6	5544.6	5544.6	5544.6	5544.6	5544.6
2.5°	5558.2	5550.7	5481.4	5380.5	5297.6	5228.3	5183.1	5153.0	5186.2	5125.9	5118.4
5°	5573.3	5522.1	5371.4	5226.8	5115.4	4966.2	4865.3	4797.5	4824.6	4771.9	4750.8
7.5°	5613.9	5520.5	5312.7	5082.2	4871.3	4711.7	4556.5	4407.4	4384.8	4351.7	4353.2
10°	5650.1	5516.0	5244.9	4943.6	4698.1	4416.4	4229.7	4076.0	4041.4	4002.2	3982.6
12.5°	5707.3	5526.6	5160.5	4796.0	4467.7	4142.3	3940.5	3759.7	3725.1	3648.2	3631.7
15°	5821.8	5564.2	5077.7	4613.8	4208.6	3880.2	3619.6	3461.5	3398.2	3312.3	3310.8
17.5°	5970.9	5674.2	5035.5	4442.0	3988.7	3621.1	3345.5	3185.8	3078.9	3027.6	3014.1
20°	6183.3	5817.3	5034.0	4286.9	3759.7	3344.0	3027.6	2846.9	2756.5	2714.3	2688.7
22.5°	6510.2	6028.2	5061.1	4178.4	3529.2	3075.8	2761.0	2512.5	2363.4	2247.4	2264.0
25°	6916.9	6344.5	5122.9	4079.0	3328.9	2819.8	2425.1	2080.2	1813.6	1697.6	1706.6
27.5°	7433.5	6722.6	5282.6	3978.1	3101.4	2544.1	1986.8	1548.5	1346.6	1211.1	1221.6
30°	8094.8	7192.5	5491.9	3899.8	2890.6	2158.5	1495.7	1141.8	964.0	852.6	842.0
32.5°	8885.6	7873.4	5720.9	3847.1	2660.1	1676.5	1078.5	837.5	664.3	601.0	610.0
35°	9864.7	8638.6	6070.3	3770.2	2265.5	1193.0	769.7	566.4	477.5	465.4	466.9
37.5°	10757.9	9421.8	6416.8	3640.7	1788.0	848.0	522.7	430.8	411.2	406.7	412.7
40°	11633.1	10135.8	6730.1	3452.4	1229.1	581.4	384.1	388.6	372.1	360.0	354.0
42.5°	12452.5	10824.2	6975.6	3106.0	840.5	384.1	340.4	354.0	351.0	326.9	316.3
45°	13336.7	11551.7	7111.2	2620.9	528.7	326.9	305.8	329.9	344.9	317.8	305.8
47.5°	14091.3	12261.2	7105.2	2007.9	358.5	308.8	287.7	308.8	326.9	307.3	296.7
50°	14962.0	12848.6	6912.4	1274.3	317.8	286.2	275.7	283.2	307.3	293.7	283.2
52.5°	15929.0	13653.0	6620.1	711.0	301.3	271.1	256.1	265.1	286.2	269.6	275.7
55°	16730.3	14320.3	5933.3	485.0	293.7	253.1	244.0	250.0	259.1	242.5	251.6
57.5°	17445.8	14871.6	5238.9	397.7	283.2	241.0	239.5	227.4	225.9	215.4	206.4
60°	18170.4	15306.9	4302.0	360.0	272.6	242.5	216.9	200.3	186.8	176.2	171.7
62.5°	18726.2	15608.2	3402.7	325.4	257.6	227.4	198.8	171.7	149.1	135.6	135.6
65°	18888.9	15474.1	2395.0	295.2	241.0	213.9	177.7	140.1	113.0	103.9	99.4
67.5°	18367.7	14704.4	1667.5	272.6	224.4	198.8	156.7	114.5	90.4	78.3	75.3
70°	17040.6	13416.5	983.6	241.0	203.3	173.2	143.1	93.4	73.8	61.8	58.7
72.5°	15079.5	11485.5	613.1	204.9	174.7	141.6	106.9	76.8	58.7	48.2	46.7
75°	12455.5	8953.4	400.7	158.2	138.6	111.5	81.3	61.8	51.2	40.7	37.7
77.5°	9988.2	6333.9	358.5	120.5	102.4	79.8	61.8	51.2	42.2	36.2	36.2
80°	5748.0	3615.1	293.7	82.8	63.3	60.3	48.2	42.2	39.2	34.6	33.1
82.5°	2824.3	1736.8	189.8	51.2	36.2	39.2	40.7	37.7	33.1	30.1	30.1
85°	973.1	578.4	76.8	33.1	24.1	24.1	25.6	27.1	25.6	24.1	24.1
87.5°	150.6	110.0	21.1	19.6	15.1	13.6	15.1	16.6	16.6	15.1	15.1
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)