

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: P510110

Luminaire Tested: **VERD-M-CA4-210-722-U-T3-HSS**

Issue Date: 4/6/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P510110  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2103-181-5)  
Test Lab: INNOVATION CENTER  
Issue Date: 4/6/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: VERD-M-CA4-210-722-U-T3-HSS  
Description: VERDEON-M ROADWAY AND AREA LUMINAIRE  
(4) 70 CRI, 2200K, 960mA LEDS AND TYPE III OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 22919 lumens  
Efficiency: N/A  
Efficacy: 107.3 lumens/watt  
Luminous Opening: Rectangular (W 1.35' x L: 1.58' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B3 - U0 - G3

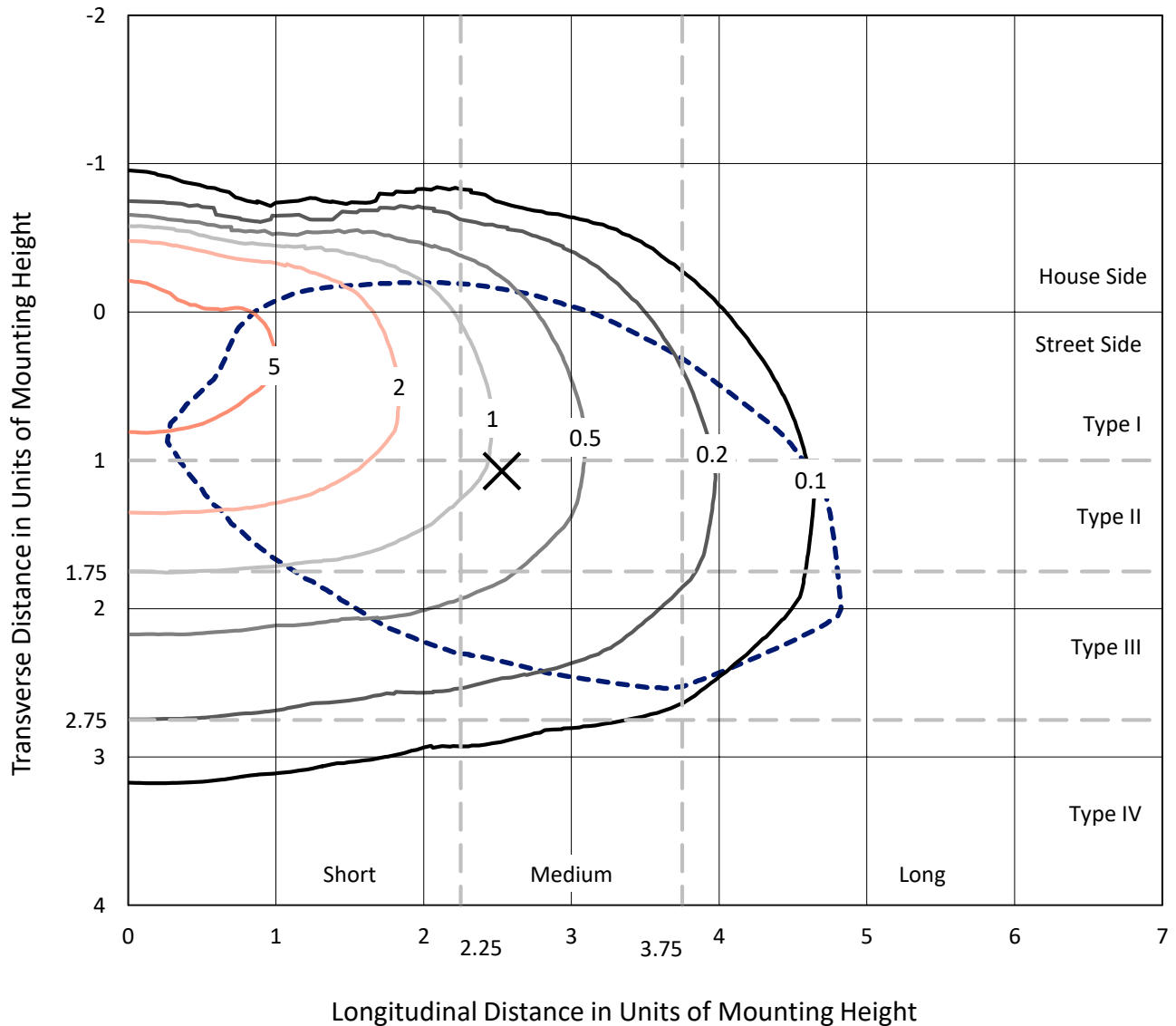
Input Watts (W): 213.6  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P510110  
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### Iso-Footcandle Lines of Horizontal Illumination

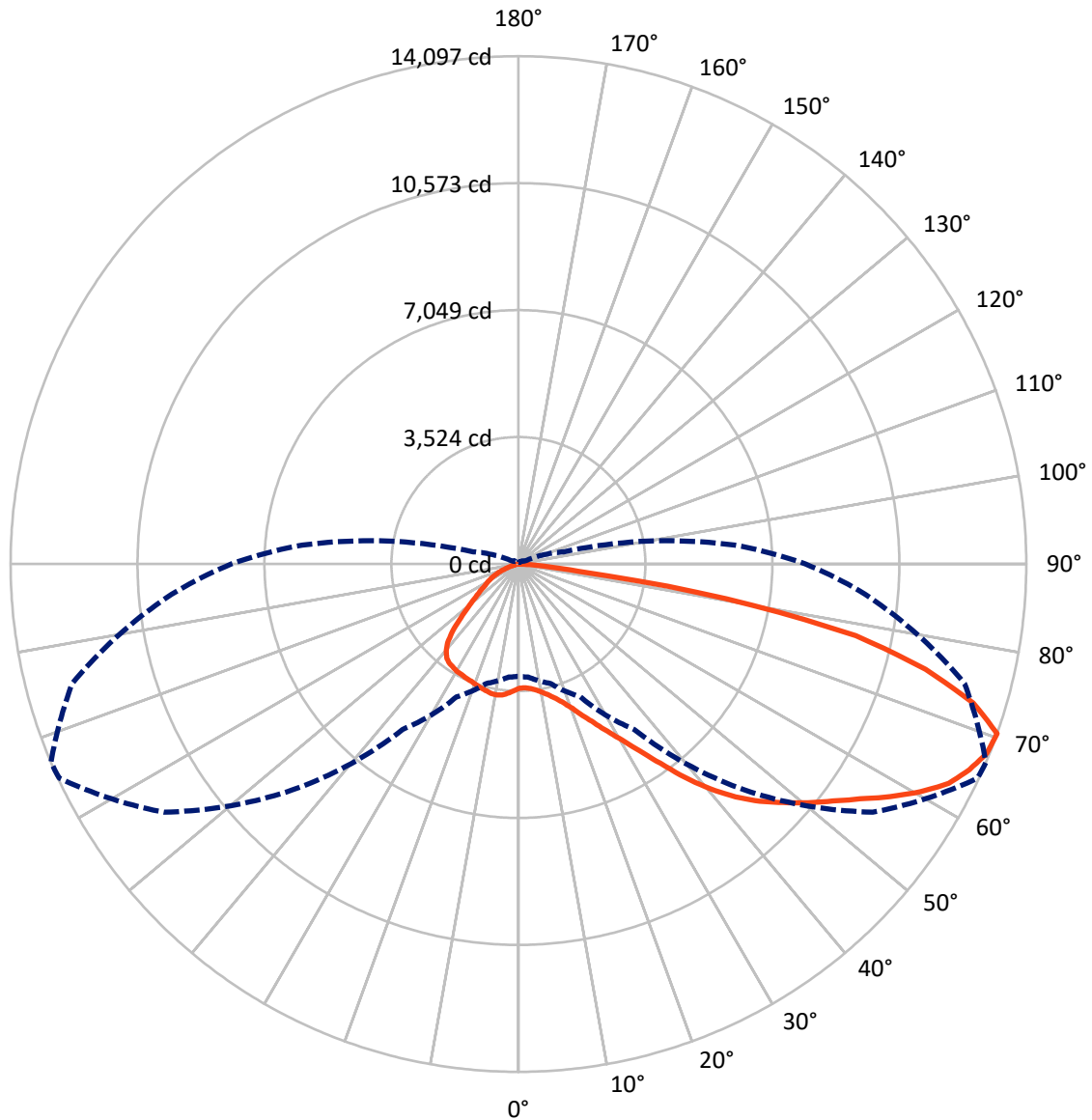
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.6 fc  
 Type III - Medium - N/A

REPORT NUMBER: P510110  
CATALOG NUMBER: VERD-M-CA4-210-722-U-T3-HSS

### Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical

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 CATALOG NUMBER: VERD-M-CA4-210-722-U-T3-HSS

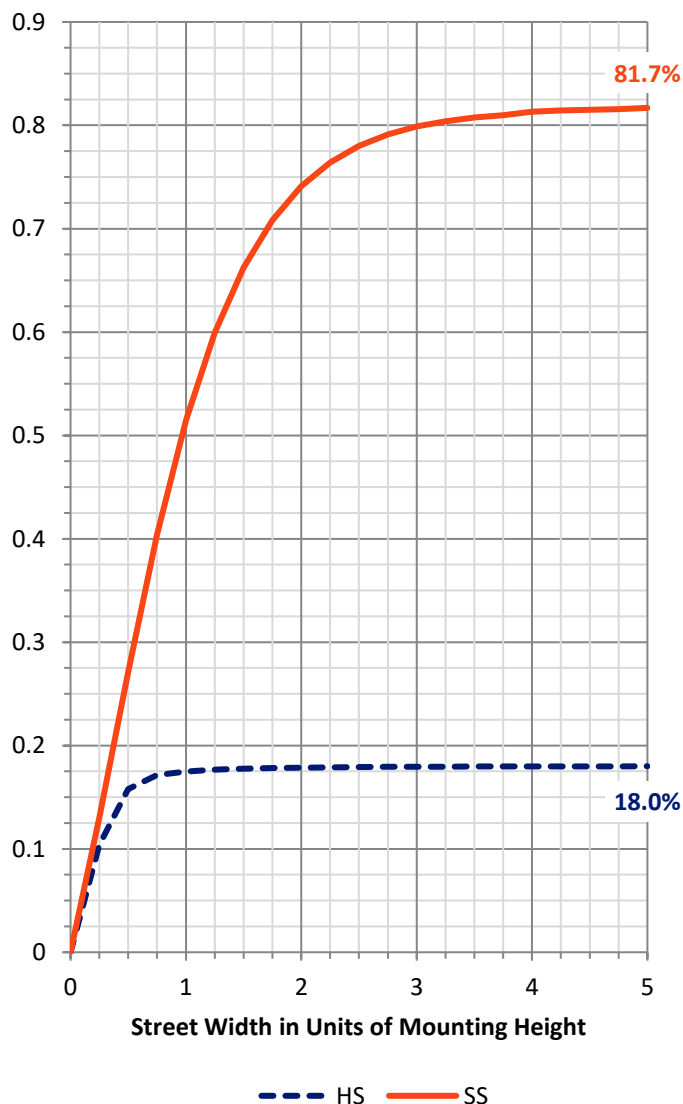
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4176.0	0.0	4176.0
	% Fixture	18.2	0.0	18.2
<b>Street Side</b>	Lumens	18743.0	0.0	18743.0
	% Fixture	81.8	0.0	81.8
<b>Total</b>	Lumens	22919.0	0.0	22919.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	343.5	1.5
10°-20°	1071.6	4.7
20°-30°	1859.3	8.1
30°-40°	2761.4	12.0
40°-50°	3788.5	16.5
50°-60°	4652.4	20.3
60°-70°	4987.9	21.8
70°-80°	3166.4	13.8
80°-90°	288.2	1.3
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°	22919.0	100.0
0°-180°	22919.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P510110

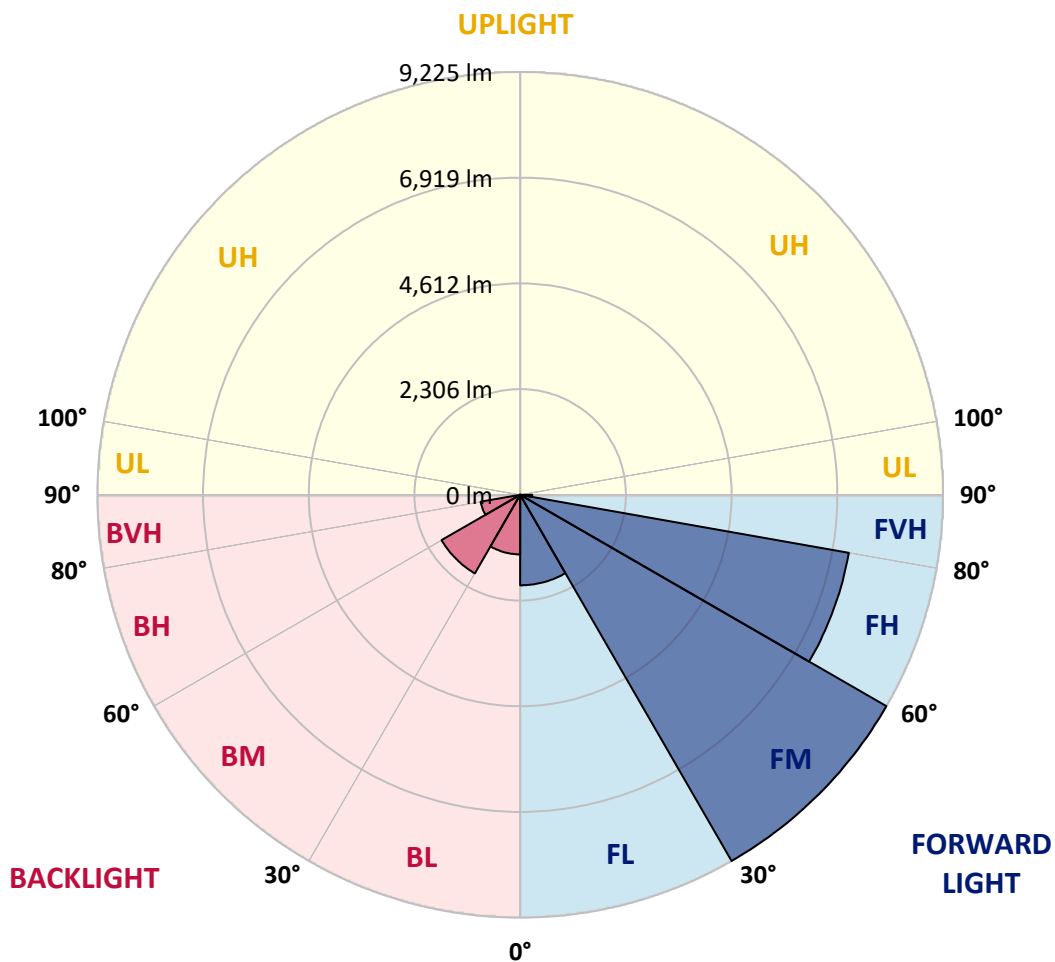
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1974.7	8.6			
FM (30°-60°)	9224.7	40.2			
FH (60°-80°)	7280.8	31.8			G3/7500
FVH (80°-90°)	262.8	1.1			G3/500
BL (0°-30°)	1299.7	5.7	B3/2500		
BM (30°-60°)	1977.6	8.6	B2/2500		
BH (60°-80°)	873.5	3.8	B2/1000		G2/1000
BVH (80°-90°)	25.3	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G3**

Type III Medium





REPORT NUMBER: P510110

CATALOG NUMBER: VERD-M-CA4-210-722-U-T3-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	3447.5	3447.5	3447.5	3447.5	3447.5	3447.5	3447.5	3447.5	3447.5	3447.5	3447.5
2.5°	3416.5	3448.6	3429.8	3427.6	3449.8	3428.7	3443.1	3439.8	3437.6	3440.9	3464.2
5°	3506.3	3544.0	3518.5	3510.7	3522.9	3485.2	3481.9	3474.1	3471.9	3473.0	3506.3
7.5°	3631.6	3676.0	3666.0	3646.0	3639.4	3577.3	3566.2	3538.5	3529.6	3531.8	3565.1
10°	3829.0	3873.3	3853.4	3809.0	3781.3	3710.3	3670.4	3634.9	3617.2	3619.4	3654.9
12.5°	4081.8	4124.0	4090.7	4009.7	3994.2	3880.0	3817.9	3742.5	3730.3	3712.6	3750.3
15°	4320.2	4356.8	4341.3	4265.9	4223.8	4088.5	3974.3	3881.1	3870.0	3853.4	3852.3
17.5°	4584.1	4620.7	4591.9	4536.5	4481.0	4320.2	4197.1	4077.4	4048.6	4034.1	3982.0
20°	4865.8	4923.5	4917.9	4872.5	4805.9	4617.4	4443.3	4308.0	4277.0	4250.4	4140.6
22.5°	5156.3	5231.7	5215.1	5190.7	5163.0	4951.2	4748.3	4591.9	4568.6	4512.1	4339.1
25°	5477.9	5530.0	5517.8	5530.0	5511.2	5323.8	5102.0	4911.3	4880.2	4827.0	4562.0
27.5°	5789.5	5843.8	5864.9	5839.4	5851.6	5717.4	5454.6	5283.9	5253.9	5156.3	4830.3
30°	6071.2	6138.8	6168.7	6179.8	6220.9	6082.3	5888.2	5680.8	5670.9	5571.1	5184.1
32.5°	6296.3	6371.7	6444.9	6492.5	6558.0	6497.0	6304.0	6178.7	6179.8	6090.0	5715.2
35°	6459.3	6545.8	6652.2	6778.6	6916.1	6890.6	6776.4	6778.6	6796.4	6826.3	6392.7
37.5°	6640.0	6709.9	6835.2	7011.5	7221.1	7274.3	7258.8	7435.1	7521.6	7574.8	6988.2
40°	6747.6	6818.6	6974.9	7212.2	7517.2	7644.7	7787.7	8097.1	8210.2	8154.8	7497.2
42.5°	6628.9	6692.1	6963.8	7374.1	7760.0	8049.4	8305.6	8758.0	8840.1	8659.3	7926.3
45°	6474.8	6556.9	6842.9	7418.5	7975.1	8446.4	8844.5	9333.5	9394.5	9138.3	8305.6
47.5°	6348.4	6420.5	6754.2	7370.8	8173.6	8853.4	9318.0	9876.9	9892.4	9576.4	8698.1
50°	6186.5	6274.1	6622.3	7312.0	8293.4	9213.8	9751.6	10383.6	10418.0	10029.9	9030.8
52.5°	6016.8	6102.2	6462.6	7215.5	8379.9	9513.2	10201.8	10922.5	10925.9	10510.0	9385.6
55°	5766.2	5857.1	6256.3	7075.8	8406.5	9711.6	10654.2	11472.6	11506.9	10996.8	9707.2
57.5°	5501.2	5578.8	6008.0	6858.5	8307.8	9899.0	11118.8	12083.6	12177.8	11545.7	9983.3
60°	5149.7	5227.3	5680.8	6573.5	8098.2	10109.7	11651.1	12819.9	12829.8	11990.4	10184.0
62.5°	4771.5	4839.2	5256.1	6126.6	7773.3	10190.7	12107.9	13408.7	13407.6	12386.3	10283.8
65°	4322.4	4350.2	4774.9	5577.7	7268.8	10072.0	12309.8	13796.8	13759.1	12671.3	10250.6
67.5°	3790.2	3820.1	4141.7	4895.7	6536.9	9608.5	12219.9	13984.2	14021.9	12925.2	10106.4
70°	3116.0	3151.5	3432.0	4068.5	5604.3	8868.9	12009.3	14065.1	14097.3	12823.2	9661.7
72.5°	2299.8	2347.5	2519.4	3028.4	4253.7	7451.7	11033.4	13179.1	13196.9	11971.6	8735.8
75°	1428.2	1515.8	1677.7	2012.6	2760.0	5226.2	9431.1	11781.9	11671.0	10678.6	7228.8
77.5°	571.1	585.5	666.4	942.6	1346.2	2721.2	6836.3	9365.7	9577.5	8544.0	5170.7
80°	332.7	330.4	349.3	439.1	577.7	930.4	2659.1	5253.9	5856.0	4692.8	2326.4
82.5°	268.4	258.4	258.4	281.7	277.2	391.4	871.6	1534.7	1683.3	1493.7	662.0
85°	140.8	137.5	112.0	138.6	138.6	195.2	334.9	434.7	459.1	400.3	248.4
87.5°	35.5	35.5	35.5	43.2	34.4	41.0	56.6	68.8	71.0	57.7	36.6
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: P510110

CATALOG NUMBER: VERD-M-CA4-210-722-U-T3-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3447.5	3447.5	3447.5	3447.5	3447.5	3447.5	3447.5	3447.5	3447.5	3447.5	3447.5
2.5°	3473.0	3483.0	3521.8	3516.3	3522.9	3522.9	3534.0	3546.2	3582.8	3561.7	3552.9
5°	3513.0	3532.9	3581.7	3599.5	3626.1	3629.4	3651.6	3659.3	3699.3	3677.1	3677.1
7.5°	3589.5	3612.8	3658.2	3664.9	3677.1	3656.0	3661.5	3637.2	3663.8	3637.2	3638.3
10°	3676.0	3691.5	3722.5	3678.2	3659.3	3609.4	3598.3	3538.5	3559.5	3525.2	3516.3
12.5°	3759.1	3753.6	3730.3	3651.6	3599.5	3517.4	3483.0	3402.1	3397.6	3352.2	3343.3
15°	3837.9	3799.1	3723.6	3601.7	3513.0	3398.7	3316.7	3228.0	3196.9	3144.8	3140.4
17.5°	3934.3	3867.8	3733.6	3554.0	3408.7	3242.4	3126.0	3026.2	2961.8	2914.2	2913.0
20°	4051.9	3949.9	3738.1	3499.7	3301.2	3088.3	2925.2	2798.8	2706.8	2646.9	2645.8
22.5°	4199.4	4060.7	3779.1	3437.6	3163.7	2902.0	2699.0	2480.6	2354.2	2232.2	2210.0
25°	4372.3	4172.7	3814.6	3405.4	3028.4	2707.9	2406.3	2086.9	1890.7	1793.1	1756.5
27.5°	4615.2	4359.0	3866.7	3344.4	2900.9	2468.4	2029.3	1681.1	1444.9	1361.7	1361.7
30°	4895.7	4594.1	3964.3	3307.8	2723.4	2132.4	1615.6	1242.0	1022.4	897.1	893.8
32.5°	5323.8	4874.7	4053.0	3229.1	2508.3	1766.5	1168.8	800.6	624.3	546.7	542.2
35°	5939.2	5409.2	4196.0	3150.4	2196.7	1315.1	741.8	459.1	356.0	311.6	309.4
37.5°	6531.4	5918.1	4504.3	2994.0	1754.3	826.1	411.4	265.0	217.3	211.8	209.6
40°	6948.3	6357.3	4721.6	2755.6	1246.4	438.0	238.4	191.8	188.5	186.3	185.2
42.5°	7402.9	6683.3	4875.8	2451.8	739.6	253.9	194.1	173.0	167.4	165.2	165.2
45°	7772.2	6997.1	4904.6	2017.1	372.6	209.6	177.4	157.5	150.8	155.2	156.4
47.5°	8112.6	7293.2	4807.0	1517.0	251.7	195.2	166.3	146.4	141.9	153.0	153.0
50°	8403.2	7543.8	4583.0	1132.2	236.2	184.1	155.2	135.3	134.2	144.2	145.3
52.5°	8692.6	7745.6	4230.4	855.0	224.0	171.9	144.2	125.3	122.0	128.6	129.7
55°	8922.1	7817.7	3968.7	636.5	215.1	160.8	134.2	115.3	107.6	106.5	108.7
57.5°	9048.5	7754.5	3712.6	468.0	205.1	150.8	124.2	102.0	89.8	89.8	89.8
60°	9050.7	7677.9	3438.7	370.4	194.1	139.7	113.1	87.6	75.4	73.2	73.2
62.5°	9026.3	7541.5	3040.6	321.6	181.9	130.8	98.7	74.3	65.4	62.1	62.1
65°	8918.8	7284.3	2558.2	275.0	167.4	124.2	84.3	66.5	58.8	54.3	54.3
67.5°	8583.9	6801.9	1969.4	239.5	154.1	109.8	76.5	59.9	52.1	47.7	46.6
70°	7969.6	6022.4	1299.6	204.0	140.8	97.6	69.9	54.3	46.6	42.1	41.0
72.5°	6939.4	4901.3	653.1	173.0	120.9	89.8	63.2	47.7	39.9	35.5	35.5
75°	5438.0	3402.1	356.0	137.5	95.4	78.7	55.4	39.9	34.4	31.0	31.0
77.5°	3334.4	1686.6	242.8	106.5	72.1	64.3	44.4	33.3	29.9	28.8	28.8
80°	1216.5	552.2	163.0	75.4	54.3	49.9	35.5	28.8	27.7	27.7	27.7
82.5°	439.1	280.5	109.8	51.0	34.4	37.7	28.8	24.4	23.3	24.4	25.5
85°	180.7	123.1	39.9	28.8	18.9	20.0	17.7	16.6	17.7	18.9	18.9
87.5°	27.7	24.4	14.4	14.4	11.1	10.0	7.8	8.9	11.1	13.3	13.3
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)