

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: P509942

Luminaire Tested: **VERD-M-CA3-170-740-U-T3-HSS**

Issue Date: 4/6/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P509942  
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-CA3-170-740-U-T3-HSS  
Description: VERDEON-M ROADWAY AND AREA LUMINAIRE  
(3) 70 CRI, 4000K, 1060mA LEDS AND TYPE III OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 22819 lumens  
Efficiency: N/A  
Efficacy: 132.1 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

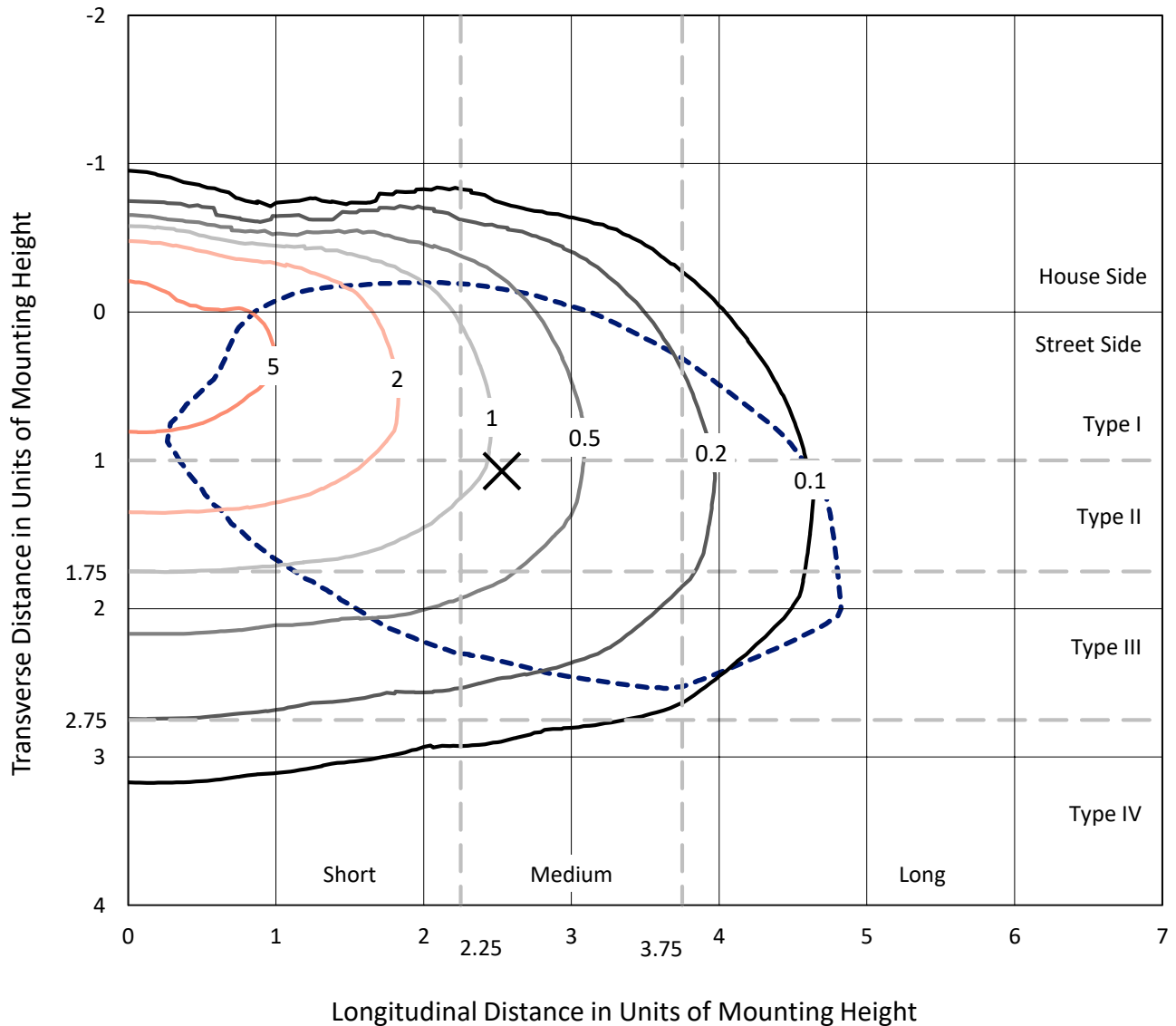
Input Watts (W): 172.8  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P509942  
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### Iso-Footcandle Lines of Horizontal Illumination

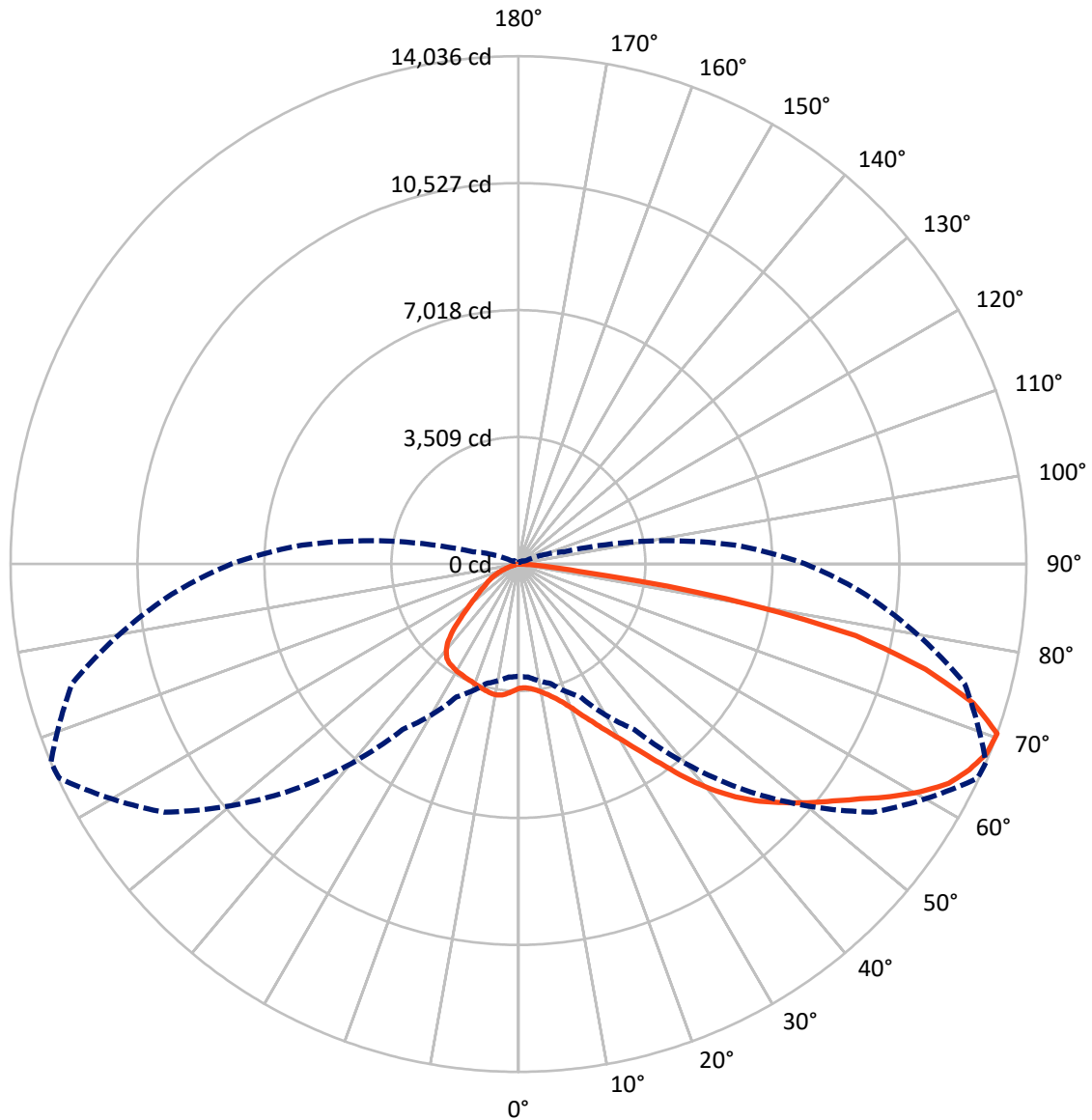
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.5 fc  
 Type III - Medium - N/A

REPORT NUMBER: P509942  
CATALOG NUMBER: VERD-M-CA3-170-740-U-T3-HSS

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P509942

CATALOG NUMBER: VERD-M-CA3-170-740-U-T3-HSS

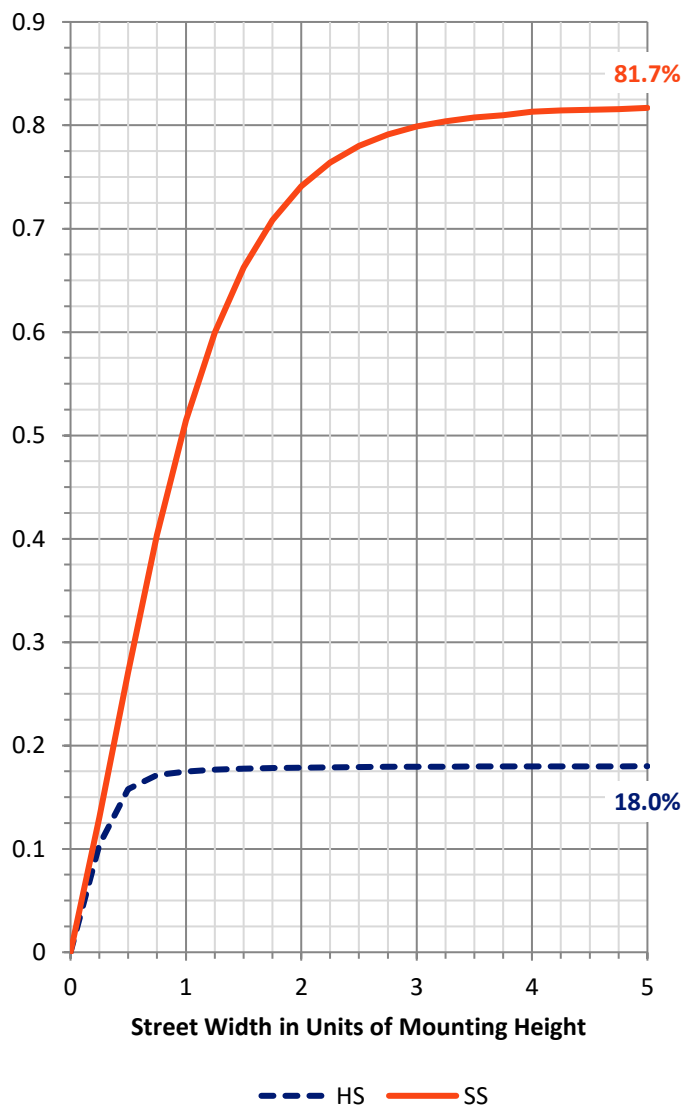
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4157.8	0.0	4157.8
	% Fixture	18.2	0.0	18.2
<b>Street Side</b>	Lumens	18661.2	0.0	18661.2
	% Fixture	81.8	0.0	81.8
<b>Total</b>	Lumens	22819.0	0.0	22819.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	342.0	1.5
10°-20°	1066.9	4.7
20°-30°	1851.1	8.1
30°-40°	2749.3	12.0
40°-50°	3771.9	16.5
50°-60°	4632.1	20.3
60°-70°	4966.1	21.8
70°-80°	3152.6	13.8
80°-90°	286.9	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°	22819.0	100.0
0°-180°	22819.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P509942

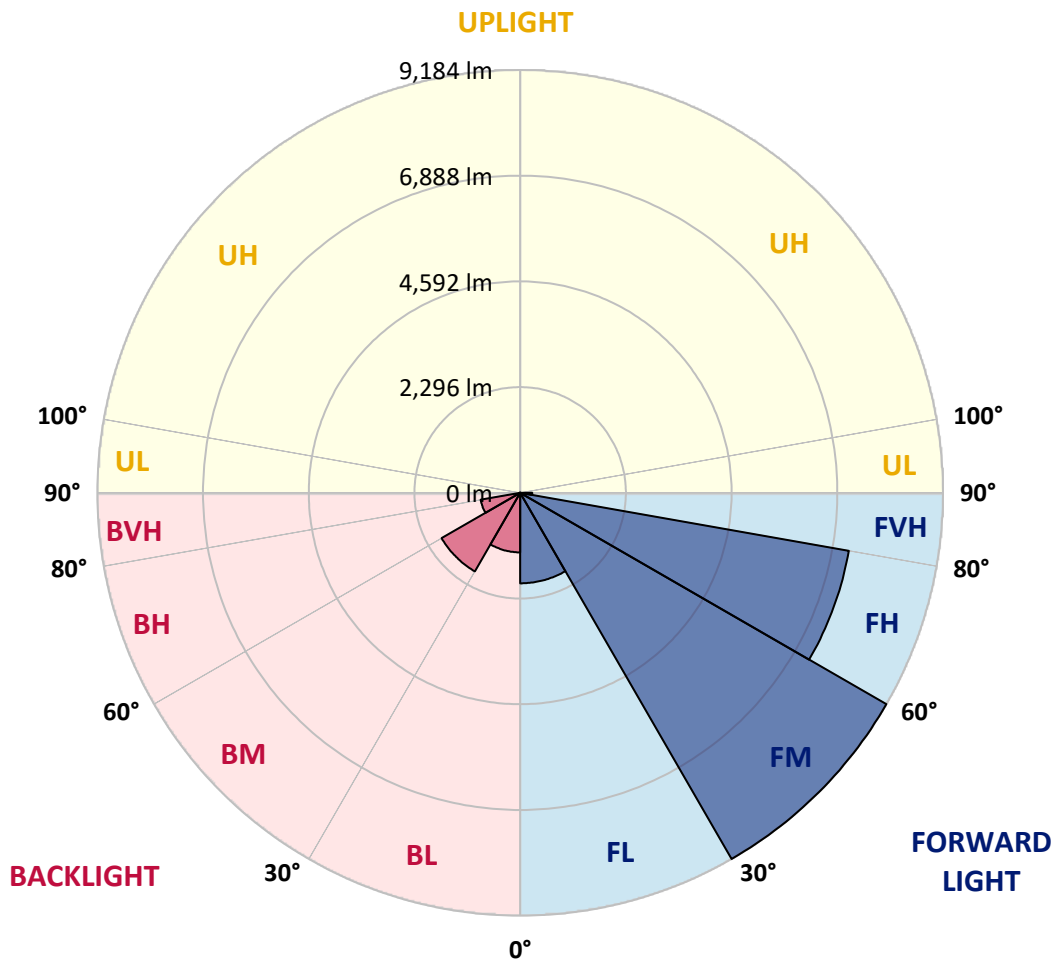
CATALOG NUMBER: VERD-M-CA3-170-740-U-T3-HSS

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1966.0	8.6			
FM (30°-60°)	9184.4	40.2			
FH (60°-80°)	7249.0	31.8			G3/7500
FVH (80°-90°)	261.7	1.1			G3/500
BL (0°-30°)	1294.0	5.7	B3/2500		
BM (30°-60°)	1969.0	8.6	B2/2500		
BH (60°-80°)	869.7	3.8	B2/1000		G2/1000
BVH (80°-90°)	25.2	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

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

Type III Medium





REPORT NUMBER: P509942

CATALOG NUMBER: VERD-M-CA3-170-740-U-T3-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	3432.5	3432.5	3432.5	3432.5	3432.5	3432.5	3432.5	3432.5	3432.5	3432.5	3432.5
2.5°	3401.6	3433.6	3414.8	3412.6	3434.7	3413.7	3428.1	3424.8	3422.6	3425.9	3449.1
5°	3491.0	3528.5	3503.1	3495.4	3507.6	3470.0	3466.7	3459.0	3456.8	3457.9	3491.0
7.5°	3615.8	3659.9	3650.0	3630.1	3623.5	3561.7	3550.6	3523.0	3514.2	3516.4	3549.5
10°	3812.3	3856.4	3836.6	3792.4	3764.8	3694.2	3654.4	3619.1	3601.4	3603.6	3638.9
12.5°	4064.0	4106.0	4072.8	3992.2	3976.8	3863.1	3801.2	3726.2	3714.0	3696.4	3733.9
15°	4301.4	4337.8	4322.4	4247.3	4205.3	4070.6	3956.9	3864.2	3853.1	3836.6	3835.5
17.5°	4564.1	4600.6	4571.9	4516.7	4461.5	4301.4	4178.8	4059.6	4030.9	4016.5	3964.6
20°	4844.6	4902.0	4896.5	4851.2	4785.0	4597.3	4423.9	4289.2	4258.3	4231.8	4122.5
22.5°	5133.8	5208.9	5192.3	5168.1	5140.5	4929.6	4727.5	4571.9	4548.7	4492.4	4320.1
25°	5454.0	5505.9	5493.8	5505.9	5487.1	5300.5	5079.7	4889.8	4858.9	4805.9	4542.1
27.5°	5764.2	5818.3	5839.3	5813.9	5826.1	5692.5	5430.8	5260.8	5231.0	5133.8	4809.2
30°	6044.7	6112.0	6141.8	6152.9	6193.7	6055.7	5862.5	5656.0	5646.1	5546.7	5161.4
32.5°	6268.8	6343.9	6416.7	6464.2	6529.4	6468.6	6276.5	6151.8	6152.9	6063.4	5690.3
35°	6431.1	6517.2	6623.2	6749.1	6886.0	6860.6	6746.8	6749.1	6766.7	6796.5	6364.8
37.5°	6611.1	6680.6	6805.4	6980.9	7189.6	7242.6	7227.1	7402.7	7488.8	7541.8	6957.7
40°	6718.1	6788.8	6944.5	7180.7	7484.4	7611.3	7753.7	8061.8	8174.4	8119.2	7464.5
42.5°	6600.0	6662.9	6933.4	7341.9	7726.1	8014.3	8269.3	8719.8	8801.5	8621.5	7891.7
45°	6446.5	6528.2	6813.1	7386.1	7940.3	8409.5	8805.9	9292.8	9353.5	9098.5	8269.3
47.5°	6320.7	6392.4	6724.8	7338.6	8138.0	8814.7	9277.3	9833.8	9849.2	9534.6	8660.2
50°	6159.5	6246.7	6593.4	7280.1	8257.2	9173.5	9709.0	10338.3	10372.5	9986.1	8991.4
52.5°	5990.6	6075.6	6434.4	7184.1	8343.3	9471.6	10157.3	10874.9	10878.2	10464.2	9344.7
55°	5741.1	5831.6	6229.0	7044.9	8369.8	9669.3	10607.7	11422.5	11456.7	10948.9	9664.9
57.5°	5477.2	5554.5	5981.7	6828.5	8271.5	9855.9	11070.3	12030.8	12124.7	11495.4	9939.8
60°	5127.2	5204.5	5656.0	6544.8	8062.9	10065.6	11600.3	12763.9	12773.9	11938.1	10139.6
62.5°	4750.7	4818.1	5233.2	6099.9	7739.4	10146.2	12055.1	13350.2	13349.1	12332.2	10239.0
65°	4303.6	4331.2	4754.0	5553.4	7237.0	10028.1	12256.1	13736.6	13699.0	12616.0	10205.8
67.5°	3773.6	3803.5	4123.6	4874.4	6508.4	9566.6	12166.6	13923.2	13960.7	12868.8	10062.3
70°	3102.4	3137.7	3417.0	4050.8	5579.9	8830.2	11956.9	14003.8	14035.8	12767.2	9619.6
72.5°	2289.8	2337.3	2508.4	3015.2	4235.1	7419.2	10985.3	13121.6	13139.3	11919.3	8697.7
75°	1422.0	1509.2	1670.4	2003.9	2748.0	5203.4	9389.9	11730.5	11620.1	10632.0	7197.3
77.5°	568.6	582.9	663.5	938.4	1340.3	2709.3	6806.5	9324.8	9535.7	8506.7	5148.2
80°	331.2	329.0	347.8	437.2	575.2	926.3	2647.5	5231.0	5830.5	4672.3	2316.3
82.5°	267.2	257.2	257.2	280.4	276.0	389.7	867.8	1528.0	1675.9	1487.2	659.1
85°	140.2	136.9	111.5	138.0	138.0	194.3	333.4	432.8	457.1	398.6	247.3
87.5°	35.3	35.3	35.3	43.1	34.2	40.8	56.3	68.5	70.7	57.4	36.4
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: P509942

CATALOG NUMBER: VERD-M-CA3-170-740-U-T3-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3432.5	3432.5	3432.5	3432.5	3432.5	3432.5	3432.5	3432.5	3432.5	3432.5	3432.5
2.5°	3457.9	3467.8	3506.5	3500.9	3507.6	3507.6	3518.6	3530.8	3567.2	3546.2	3537.4
5°	3497.6	3517.5	3566.1	3583.7	3610.2	3613.6	3635.6	3643.4	3683.1	3661.0	3661.0
7.5°	3573.8	3597.0	3642.3	3648.9	3661.0	3640.1	3645.6	3621.3	3647.8	3621.3	3622.4
10°	3659.9	3675.4	3706.3	3662.1	3643.4	3593.7	3582.6	3523.0	3544.0	3509.8	3500.9
12.5°	3742.7	3737.2	3714.0	3635.6	3583.7	3502.0	3467.8	3387.2	3382.8	3337.5	3328.7
15°	3821.1	3782.5	3707.4	3586.0	3497.6	3383.9	3302.2	3213.9	3183.0	3131.1	3126.7
17.5°	3917.2	3850.9	3717.3	3538.5	3393.8	3228.2	3112.3	3013.0	2948.9	2901.4	2900.3
20°	4034.2	3932.6	3721.8	3484.4	3286.8	3074.8	2912.5	2786.6	2695.0	2635.4	2634.3
22.5°	4181.0	4043.0	3762.6	3422.6	3149.9	2889.3	2687.3	2469.8	2343.9	2222.5	2200.4
25°	4353.3	4154.5	3797.9	3390.5	3015.2	2696.1	2395.8	2077.8	1882.4	1785.2	1748.8
27.5°	4595.1	4340.0	3849.8	3329.8	2888.2	2457.6	2020.4	1673.7	1438.6	1355.8	1355.8
30°	4874.4	4574.1	3947.0	3293.4	2711.5	2123.1	1608.6	1236.5	1017.9	893.2	889.9
32.5°	5300.5	4853.4	4035.3	3215.0	2497.4	1758.8	1163.7	797.1	621.6	544.3	539.9
35°	5913.3	5385.6	4177.7	3136.6	2187.1	1309.4	738.6	457.1	354.4	310.2	308.0
37.5°	6502.9	5892.3	4484.7	2980.9	1746.6	822.5	409.6	263.9	216.4	210.9	208.7
40°	6918.0	6329.5	4701.0	2743.6	1241.0	436.1	237.4	191.0	187.7	185.5	184.4
42.5°	7370.6	6654.1	4854.5	2441.1	736.4	252.8	193.2	172.2	166.7	164.5	164.5
45°	7738.3	6966.6	4883.2	2008.3	371.0	208.7	176.6	156.8	150.2	154.6	155.7
47.5°	8077.2	7261.3	4786.1	1510.3	250.6	194.3	165.6	145.7	141.3	152.4	152.4
50°	8366.5	7510.9	4563.0	1127.2	235.2	183.3	154.6	134.7	133.6	143.5	144.6
52.5°	8654.6	7711.8	4211.9	851.2	223.0	171.1	143.5	124.8	121.4	128.1	129.2
55°	8883.2	7783.6	3951.4	633.7	214.2	160.1	133.6	114.8	107.1	106.0	108.2
57.5°	9009.0	7720.6	3696.4	465.9	204.2	150.2	123.7	101.6	89.4	89.4	89.4
60°	9011.3	7644.4	3423.7	368.8	193.2	139.1	112.6	87.2	75.1	72.9	72.9
62.5°	8987.0	7508.6	3027.3	320.2	181.1	130.3	98.3	74.0	65.1	61.8	61.8
65°	8879.9	7252.5	2547.0	273.8	166.7	123.7	83.9	66.2	58.5	54.1	54.1
67.5°	8546.4	6772.2	1960.8	238.5	153.5	109.3	76.2	59.6	51.9	47.5	46.4
70°	7934.8	5996.1	1293.9	203.1	140.2	97.2	69.6	54.1	46.4	42.0	40.8
72.5°	6909.1	4879.9	650.3	172.2	120.3	89.4	62.9	47.5	39.7	35.3	35.3
75°	5414.3	3387.2	354.4	136.9	94.9	78.4	55.2	39.7	34.2	30.9	30.9
77.5°	3319.9	1679.3	241.8	106.0	71.8	64.0	44.2	33.1	29.8	28.7	28.7
80°	1211.1	549.8	162.3	75.1	54.1	49.7	35.3	28.7	27.6	27.6	27.6
82.5°	437.2	279.3	109.3	50.8	34.2	37.5	28.7	24.3	23.2	24.3	25.4
85°	180.0	122.5	39.7	28.7	18.8	19.9	17.7	16.6	17.7	18.8	18.8
87.5°	27.6	24.3	14.4	14.4	11.0	9.9	7.7	8.8	11.0	13.2	13.2
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)