

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: P510236

Luminaire Tested: **VERD-M-CA4-230-750-U-T2-HSS**

Issue Date: 4/6/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P510236  
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-CA4-230-750-U-T2-HSS  
Description: VERDEON-M ROADWAY AND AREA LUMINAIRE  
(4) 70 CRI, 5000K, 1050mA LEDS AND TYPE II OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 30195 lumens  
Efficiency: N/A  
Efficacy: 129.4 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

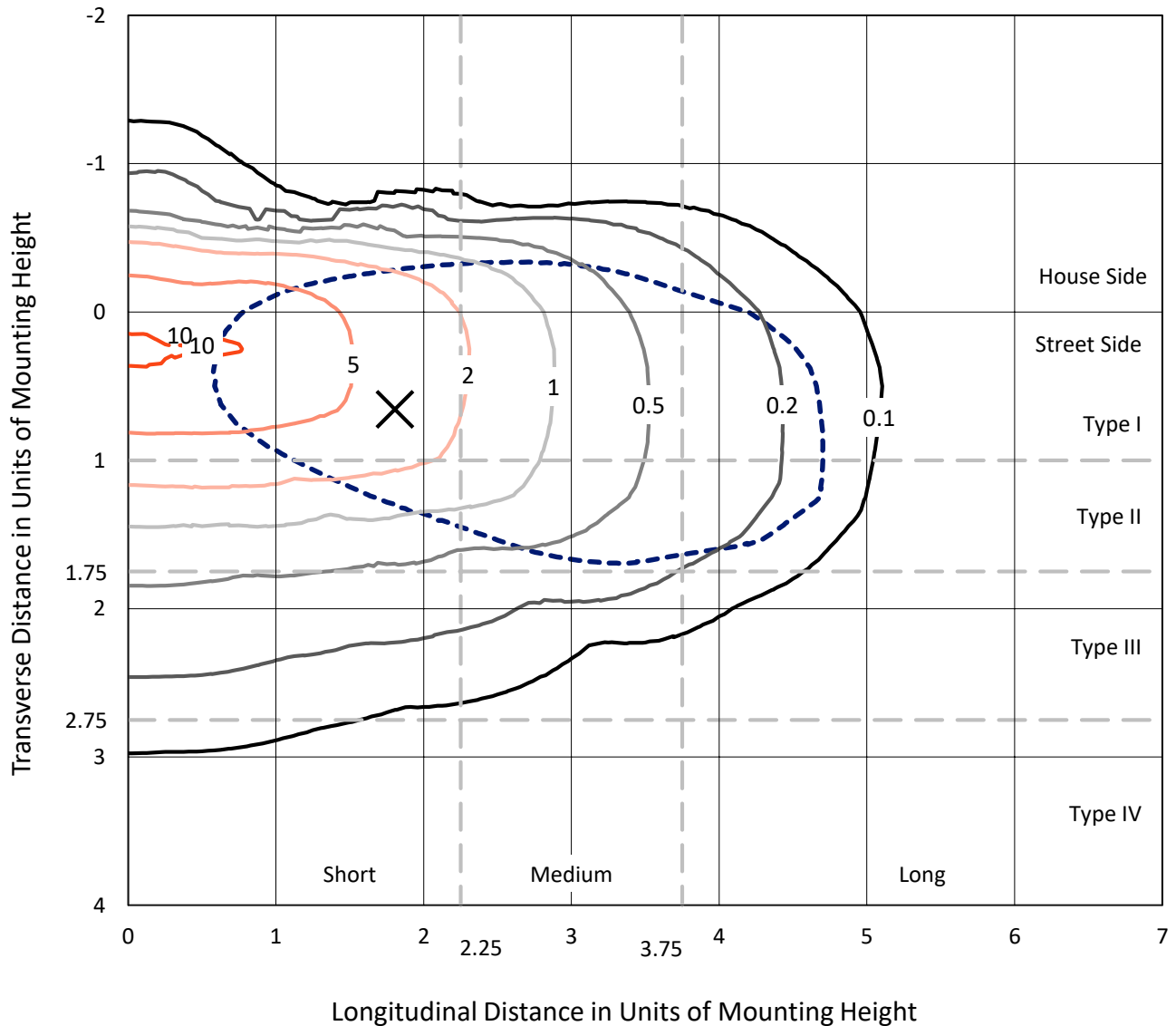
Input Watts (W): 233.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

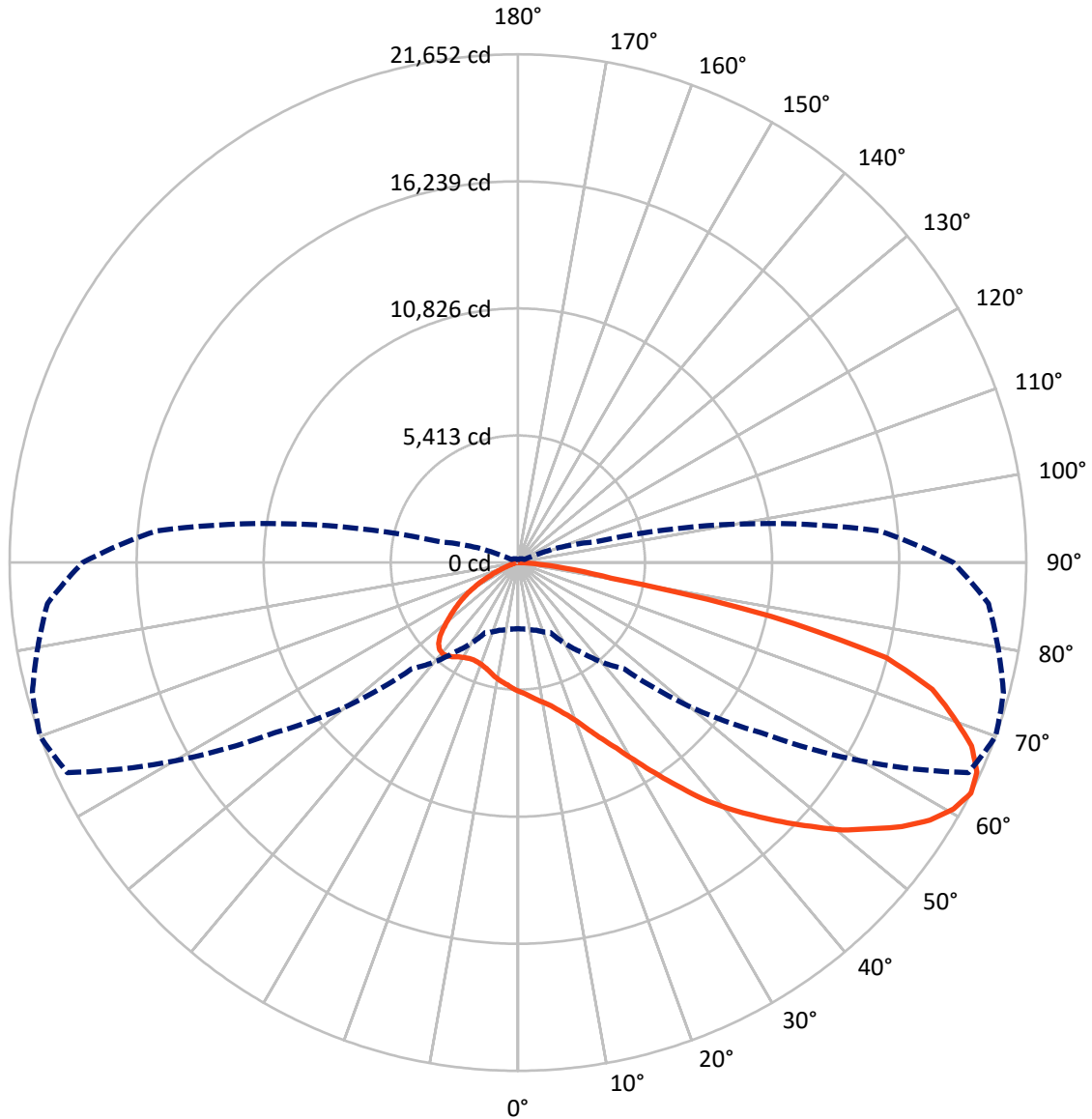
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.4 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



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

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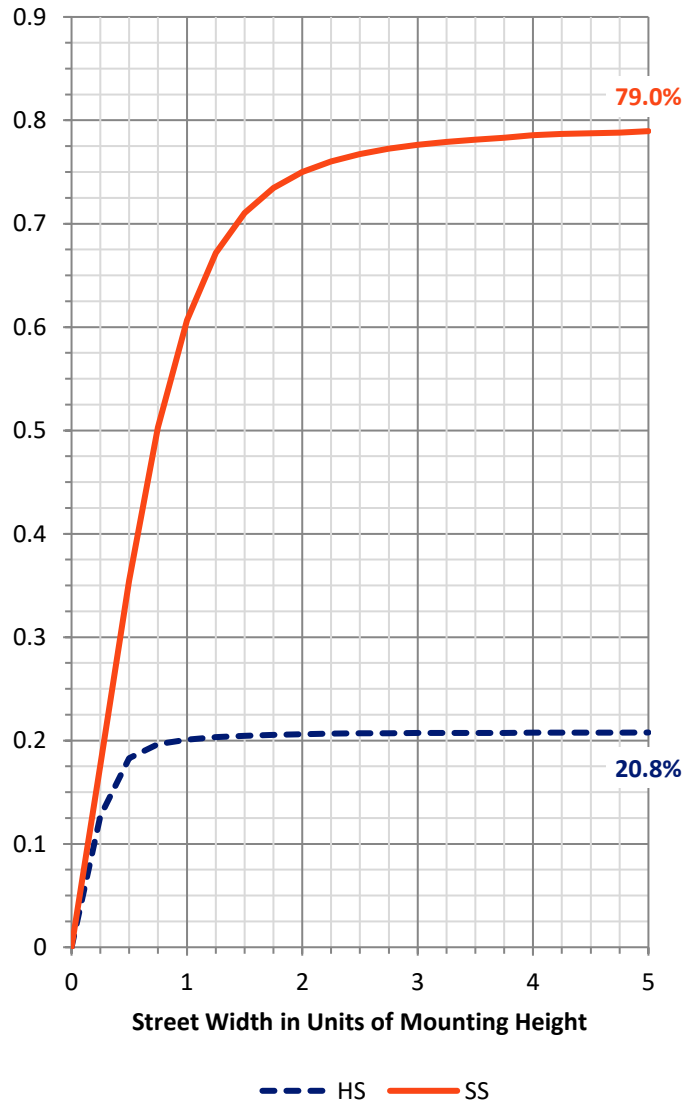
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6349.7	0.0	6349.7
	% Fixture	21.0	0.0	21.0
<b>Street Side</b>	Lumens	23845.3	0.0	23845.3
	% Fixture	79.0	0.0	79.0
<b>Total</b>	Lumens	30195.0	0.0	30195.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	521.2	1.7
10°-20°	1555.4	5.2
20°-30°	2636.8	8.7
30°-40°	3877.5	12.8
40°-50°	5163.6	17.1
50°-60°	6040.4	20.0
60°-70°	6075.2	20.1
70°-80°	3845.7	12.7
80°-90°	479.2	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°	30195.0	100.0
0°-180°	30195.0	100.0

**Coefficient of Utilization**



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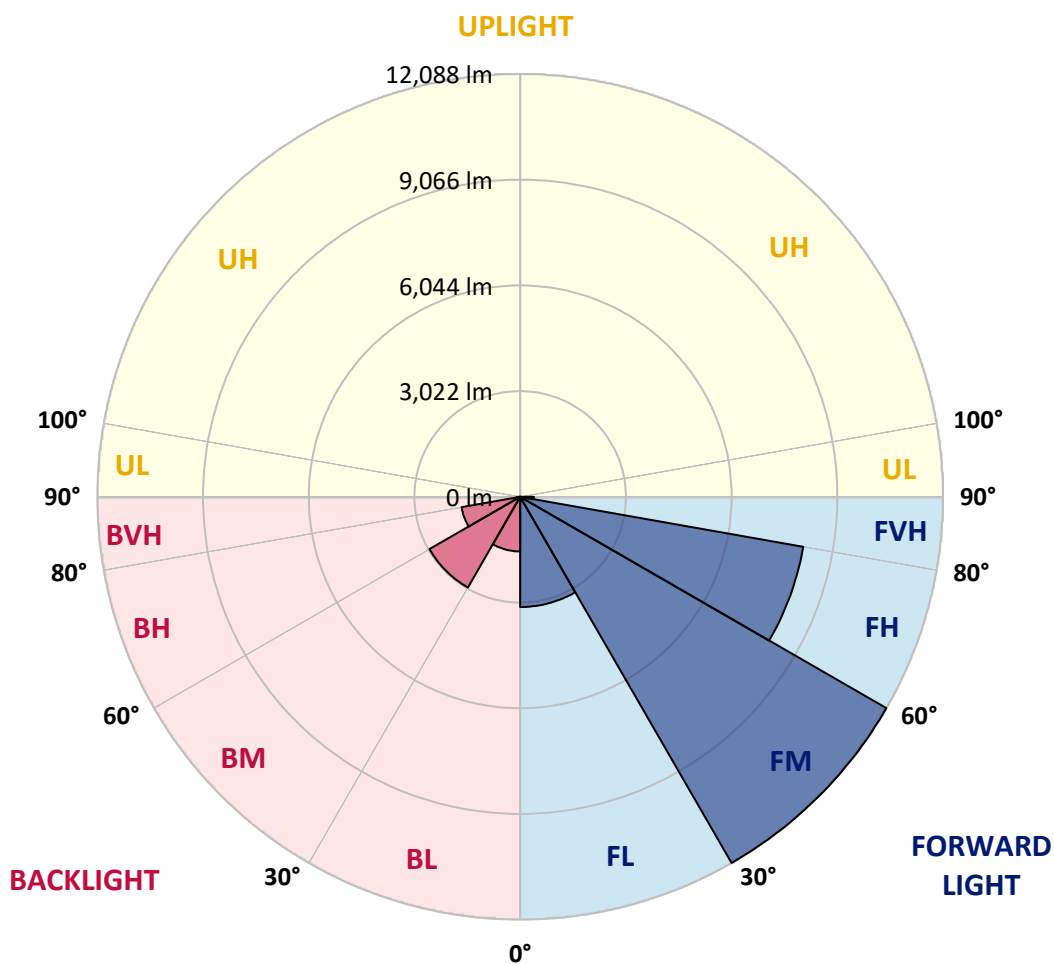
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3150.0	10.4			
FM	(30°-60°)	12087.6	40.0			
FH	(60°-80°)	8219.1	27.2			G4/12000
FVH	(80°-90°)	388.6	1.3			G3/500
BL	(0°-30°)	1563.3	5.2	B3/2500		
BM	(30°-60°)	2994.0	9.9	B3/5000		
BH	(60°-80°)	1701.8	5.6	B3/2500		G3/2500
BVH	(80°-90°)	90.6	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





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	5489.4	5489.4	5489.4	5489.4	5489.4	5489.4	5489.4	5489.4	5489.4	5489.4	5489.4
2.5°	5790.6	5841.3	5802.5	5787.6	5799.6	5739.9	5692.2	5623.6	5590.8	5566.9	5528.2
5°	6084.4	6167.9	6117.2	6085.9	6081.4	5972.6	5908.4	5814.5	5741.4	5677.3	5578.9
7.5°	6394.6	6443.8	6424.4	6388.6	6364.8	6232.0	6118.7	5986.0	5905.4	5820.4	5654.9
10°	6666.0	6725.6	6706.3	6642.1	6619.8	6484.1	6354.3	6173.9	6063.5	5957.6	5729.5
12.5°	6946.4	7013.5	6973.2	6909.1	6889.7	6752.5	6618.3	6399.1	6261.9	6142.6	5826.4
15°	7204.3	7265.5	7237.2	7164.1	7144.7	7028.4	6880.7	6676.4	6527.3	6369.2	5963.6
17.5°	7410.1	7471.3	7435.5	7401.2	7395.2	7280.4	7192.4	6983.6	6842.0	6627.2	6173.9
20°	7560.8	7623.4	7605.5	7621.9	7684.5	7599.5	7545.8	7369.9	7225.2	6992.6	6476.6
22.5°	7680.1	7760.6	7832.2	7865.0	7981.3	7975.3	7963.4	7859.0	7745.7	7504.1	6837.5
25°	7692.0	7784.5	7926.1	8079.7	8291.5	8392.9	8467.5	8451.1	8318.3	8079.7	7337.1
27.5°	7709.9	7805.3	7951.5	8215.4	8594.2	8831.3	8955.1	9031.2	8953.6	8794.0	7905.2
30°	7671.1	7769.5	7953.0	8290.0	8801.5	9241.4	9462.1	9744.0	9752.9	9618.7	8762.7
32.5°	7495.1	7624.9	7847.1	8298.9	9002.8	9669.4	10009.4	10550.8	10668.6	10568.7	9647.1
35°	7201.4	7319.2	7636.8	8219.9	9125.1	10025.8	10647.7	11491.8	11666.2	11660.3	10688.0
37.5°	6876.3	6995.6	7353.5	8033.5	9204.1	10343.5	11209.9	12425.3	12772.8	12699.7	11670.7
40°	6516.9	6642.1	7055.2	7799.4	9165.4	10626.8	11804.9	13330.5	13761.5	13770.4	12610.2
42.5°	6099.3	6202.2	6616.8	7475.8	9037.1	10835.6	12358.2	14283.4	14736.8	14711.4	13496.0
45°	5699.7	5807.0	6169.4	6974.7	8740.4	10951.9	12901.0	15248.3	15744.9	15664.3	14480.3
47.5°	5216.5	5370.1	5783.2	6554.2	8282.5	10943.0	13375.2	16235.5	16793.2	16727.6	15330.3
50°	4014.5	4105.5	5040.5	6120.2	7662.2	10734.2	13839.0	17204.8	17910.2	17782.0	16237.0
52.5°	3616.3	3698.4	3999.6	5599.7	7098.5	10282.3	14225.3	18314.3	18842.3	18742.3	17163.1
55°	3418.0	3462.7	3646.2	4618.5	6548.2	9548.6	14483.3	19300.1	19848.9	19628.2	18029.5
57.5°	3169.0	3224.1	3437.4	3944.4	5871.1	8422.7	14423.6	20188.9	20695.9	20357.4	18793.0
60°	2978.1	3019.8	3219.7	3550.7	5171.7	7256.5	13813.7	21061.3	21316.3	20982.2	19553.6
62.5°	2817.0	2840.9	2981.1	3295.7	4639.4	6405.0	12623.6	21177.6	21651.8	21410.2	20120.3
65°	2617.2	2623.2	2788.7	3034.7	4147.2	5893.5	11602.1	20581.1	21484.8	21404.3	20324.6
67.5°	2383.1	2395.0	2562.0	2749.9	3555.2	5349.2	10010.9	20260.5	20836.1	20785.4	19920.4
70°	2089.3	2113.1	2266.7	2409.9	3010.9	4696.0	7967.9	18992.9	19675.9	19601.3	18588.7
72.5°	1805.9	1792.5	1935.7	2077.3	2508.3	3920.6	6039.7	16811.1	18456.0	18384.4	16858.9
75°	1483.8	1474.9	1622.5	1756.7	2056.5	3167.5	4248.6	12432.8	16216.1	16436.8	14536.9
77.5°	914.2	921.6	1006.6	1096.1	1392.9	2366.7	2711.1	6916.5	11016.0	13063.6	11408.3
80°	662.1	662.1	724.8	778.4	921.6	1442.1	1349.6	2884.1	4026.4	6305.1	7114.9
82.5°	429.5	411.6	450.4	496.6	513.0	624.8	617.4	1446.5	2052.0	2469.6	2963.2
85°	223.7	247.6	149.1	210.3	222.2	207.3	213.3	678.5	911.2	1167.7	1285.5
87.5°	34.3	26.8	35.8	49.2	56.7	47.7	41.8	79.0	122.3	162.5	192.4
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°	5489.4	5489.4	5489.4	5489.4	5489.4	5489.4	5489.4	5489.4	5489.4	5489.4	5489.4
2.5°	5502.8	5495.3	5426.7	5326.8	5244.8	5176.2	5131.5	5101.7	5134.5	5074.8	5067.4
5°	5517.7	5467.0	5317.9	5174.7	5064.4	4916.7	4816.8	4749.7	4776.6	4724.4	4703.5
7.5°	5558.0	5465.5	5259.7	5031.6	4822.8	4664.7	4511.1	4363.5	4341.1	4308.3	4309.8
10°	5593.8	5461.0	5192.6	4894.4	4651.3	4372.4	4187.5	4035.4	4001.1	3962.3	3942.9
12.5°	5650.4	5471.5	5109.1	4748.2	4423.1	4101.0	3901.2	3722.2	3687.9	3611.9	3595.5
15°	5763.8	5508.8	5027.1	4567.8	4166.6	3841.5	3583.5	3426.9	3364.3	3279.3	3277.8
17.5°	5911.4	5617.6	4985.3	4397.8	3948.9	3585.0	3312.1	3154.0	3048.2	2997.5	2984.0
20°	6121.7	5759.3	4983.8	4244.2	3722.2	3310.6	2997.5	2818.5	2729.0	2687.3	2661.9
22.5°	6445.3	5968.1	5010.7	4136.8	3494.1	3045.2	2733.5	2487.4	2339.8	2225.0	2241.4
25°	6847.9	6281.2	5071.8	4038.4	3295.7	2791.7	2401.0	2059.5	1795.5	1680.7	1689.6
27.5°	7359.4	6655.6	5229.9	3938.5	3070.5	2518.8	1967.0	1533.0	1333.2	1199.0	1209.4
30°	8014.1	7120.8	5437.2	3860.9	2861.8	2137.0	1480.8	1130.4	954.4	844.1	833.6
32.5°	8797.0	7794.9	5663.9	3808.7	2633.6	1659.8	1067.8	829.1	657.7	595.0	604.0
35°	9766.4	8552.5	6009.8	3732.7	2242.9	1181.1	762.0	560.7	472.7	460.8	462.3
37.5°	10650.7	9327.9	6352.8	3604.4	1770.1	839.6	517.5	426.5	407.1	402.6	408.6
40°	11517.1	10034.8	6663.0	3418.0	1216.9	575.6	380.3	384.7	368.3	356.4	350.4
42.5°	12328.4	10716.3	6906.1	3075.0	832.1	380.3	337.0	350.4	347.5	323.6	313.2
45°	13203.7	11436.6	7040.3	2594.8	523.4	323.6	302.7	326.6	341.5	314.7	302.7
47.5°	13950.9	12139.0	7034.3	1987.9	354.9	305.7	284.8	305.7	323.6	304.2	293.8
50°	14812.8	12720.6	6843.5	1261.6	314.7	283.3	272.9	280.4	304.2	290.8	280.4
52.5°	15770.2	13516.9	6554.2	703.9	298.3	268.4	253.5	262.5	283.3	266.9	272.9
55°	16563.6	14177.5	5874.1	480.2	290.8	250.5	241.6	247.6	256.5	240.1	249.0
57.5°	17271.9	14723.4	5186.7	393.7	280.4	238.6	237.1	225.2	223.7	213.3	204.3
60°	17989.2	15154.3	4259.1	356.4	269.9	240.1	214.7	198.3	184.9	174.5	170.0
62.5°	18539.5	15452.6	3368.8	322.1	255.0	225.2	196.8	170.0	147.6	134.2	134.2
65°	18700.6	15319.9	2371.1	292.3	238.6	211.8	176.0	138.7	111.8	102.9	98.4
67.5°	18184.6	14557.8	1650.8	269.9	222.2	196.8	155.1	113.3	89.5	77.5	74.6
70°	16870.8	13282.8	973.8	238.6	201.3	171.5	141.7	92.5	73.1	61.1	58.2
72.5°	14929.2	11371.0	606.9	202.8	173.0	140.2	105.9	76.1	58.2	47.7	46.2
75°	12331.4	8864.1	396.7	156.6	137.2	110.4	80.5	61.1	50.7	40.3	37.3
77.5°	9888.6	6270.8	354.9	119.3	101.4	79.0	61.1	50.7	41.8	35.8	35.8
80°	5690.7	3579.1	290.8	82.0	62.6	59.7	47.7	41.8	38.8	34.3	32.8
82.5°	2796.1	1719.4	187.9	50.7	35.8	38.8	40.3	37.3	32.8	29.8	29.8
85°	963.4	572.6	76.1	32.8	23.9	23.9	25.4	26.8	25.4	23.9	23.9
87.5°	149.1	108.9	20.9	19.4	14.9	13.4	14.9	16.4	16.4	14.9	14.9
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)