

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: P510198

Luminaire Tested: **VERD-M-CA4-220-760-U-T3-HSS**

Issue Date: 4/6/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P510198  
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-CA4-220-760-U-T3-HSS  
Description: VERDEON-M ROADWAY AND AREA LUMINAIRE  
(4) 70 CRI, 5700K, 1000mA LEDS AND TYPE III OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 29044 lumens  
Efficiency: N/A  
Efficacy: 130.5 lumens/watt  
Luminous Opening: Rectangular (W 1.35' x L: 1.58' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B3 - U0 - G4

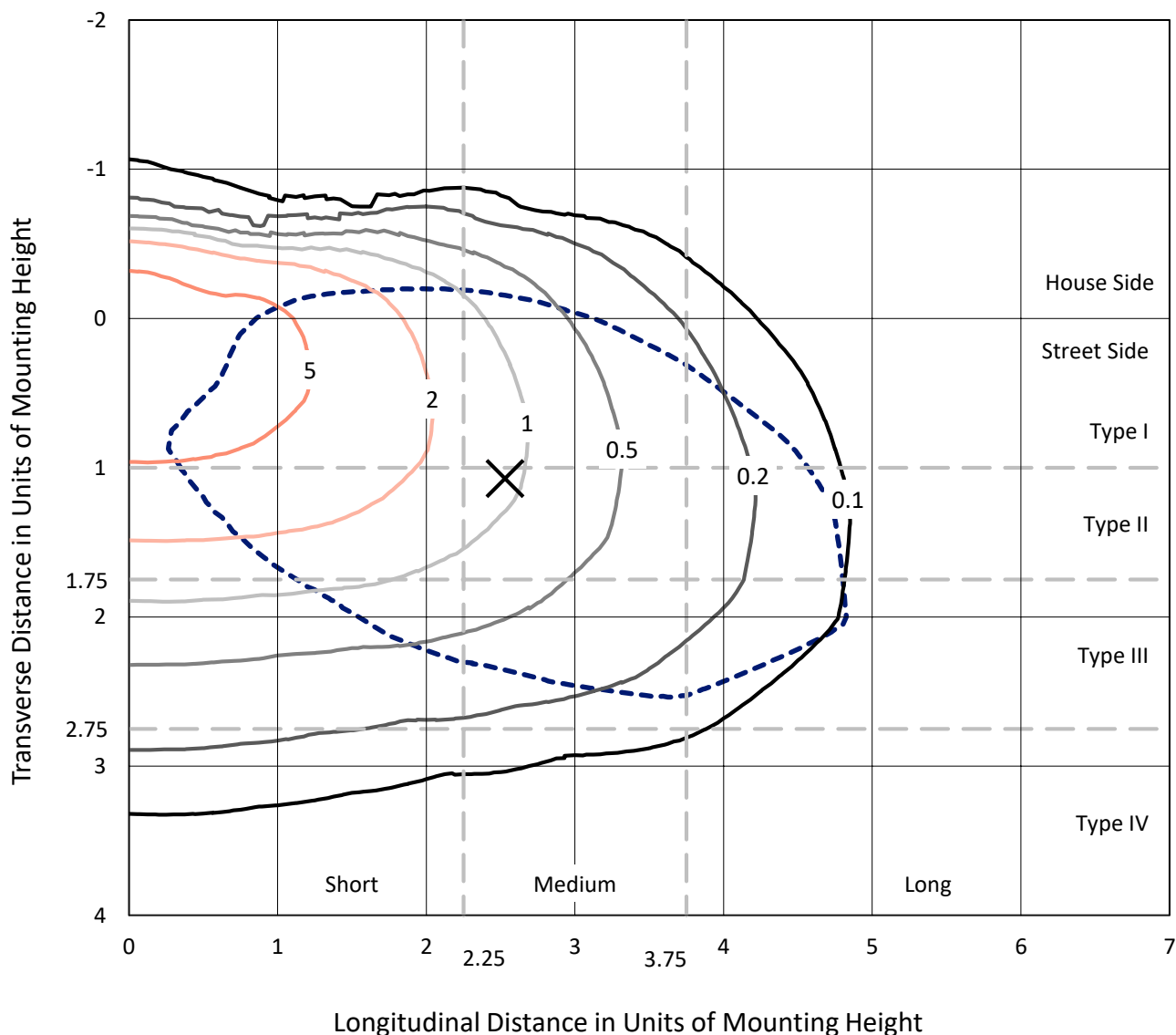
Input Watts (W): 222.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

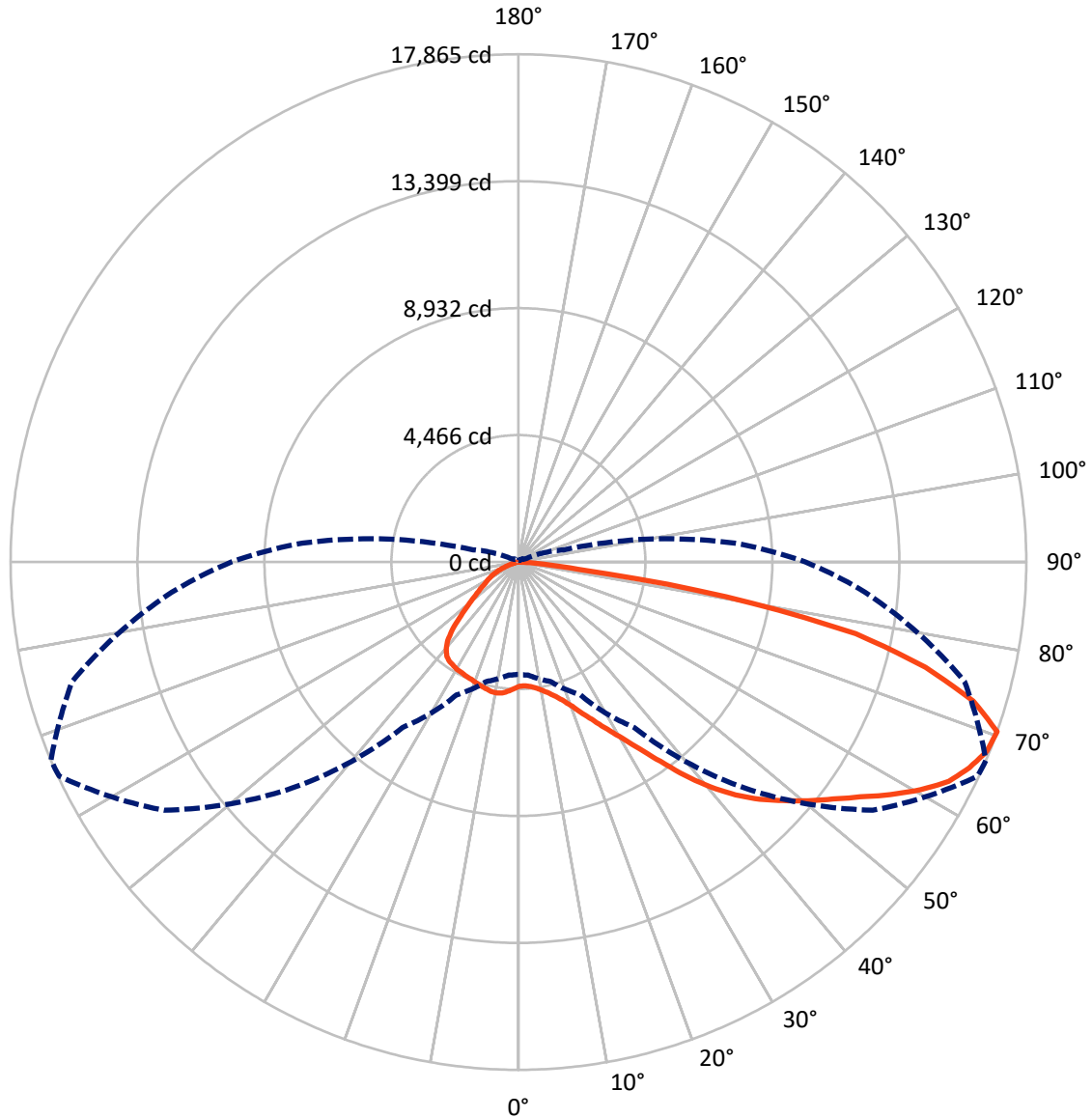
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.3 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



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

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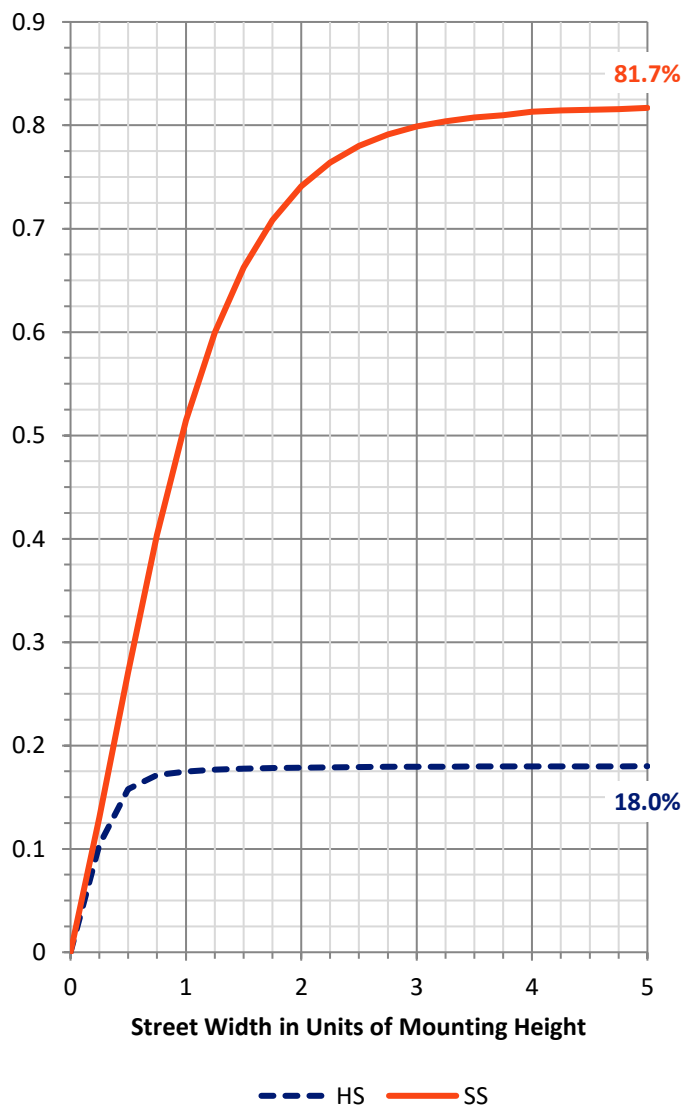
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5292.0	0.0	5292.0
	% Fixture	18.2	0.0	18.2
<b>Street Side</b>	Lumens	23752.0	0.0	23752.0
	% Fixture	81.8	0.0	81.8
<b>Total</b>	Lumens	29044.0	0.0	29044.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	435.3	1.5
10°-20°	1358.0	4.7
20°-30°	2356.1	8.1
30°-40°	3499.3	12.0
40°-50°	4800.9	16.5
50°-60°	5895.8	20.3
60°-70°	6320.9	21.8
70°-80°	4012.6	13.8
80°-90°	365.2	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°	29044.0	100.0
0°-180°	29044.0	100.0

**Coefficient of Utilization**



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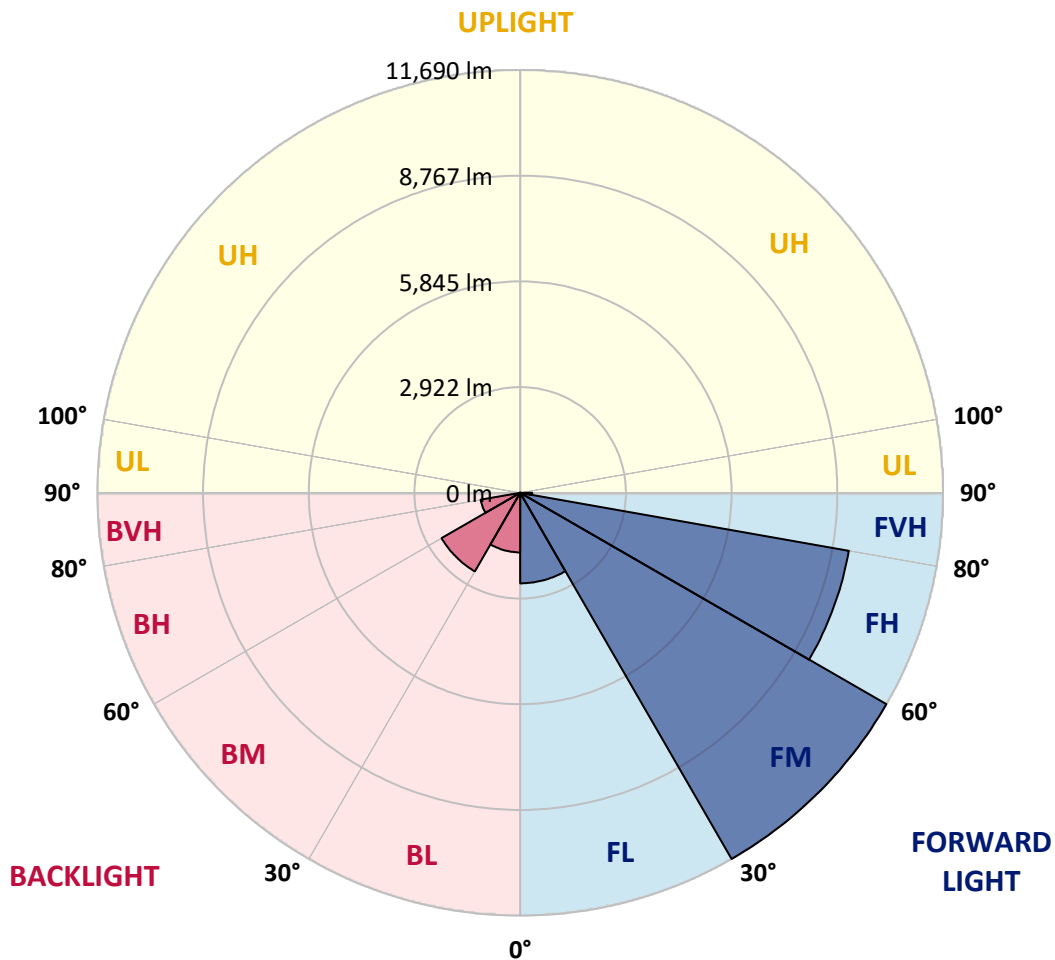
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2502.4	8.6			
FM	(30°-60°)	11689.9	40.2			
FH	(60°-80°)	9226.6	31.8			G4/12000
FVH	(80°-90°)	333.1	1.1			G3/500
BL	(0°-30°)	1647.0	5.7	B3/2500		
BM	(30°-60°)	2506.1	8.6	B3/5000		
BH	(60°-80°)	1106.9	3.8	B3/2500		G3/2500
BVH	(80°-90°)	32.1	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-G4**

Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	4368.9	4368.9	4368.9	4368.9	4368.9	4368.9	4368.9	4368.9	4368.9	4368.9	4368.9
2.5°	4329.5	4370.3	4346.4	4343.6	4371.7	4345.0	4363.2	4359.0	4356.2	4360.4	4389.9
5°	4443.3	4491.1	4458.8	4449.0	4464.4	4416.6	4412.4	4402.6	4399.8	4401.2	4443.3
7.5°	4602.1	4658.3	4645.7	4620.4	4612.0	4533.3	4519.2	4484.1	4472.9	4475.7	4517.8
10°	4852.3	4908.5	4883.2	4827.0	4791.8	4701.9	4651.3	4606.4	4583.9	4586.7	4631.6
12.5°	5172.7	5226.1	5183.9	5081.3	5061.7	4916.9	4838.2	4742.7	4727.2	4704.7	4752.5
15°	5474.8	5521.2	5501.5	5405.9	5352.5	5181.1	5036.4	4918.3	4904.3	4883.2	4881.8
17.5°	5809.2	5855.6	5819.1	5748.8	5678.5	5474.8	5318.8	5167.0	5130.5	5112.2	5046.2
20°	6166.2	6239.2	6232.2	6174.6	6090.3	5851.4	5630.8	5459.3	5420.0	5386.3	5247.1
22.5°	6534.3	6629.9	6608.8	6577.9	6542.8	6274.4	6017.2	5819.1	5789.6	5717.9	5498.7
25°	6941.9	7007.9	6992.4	7007.9	6984.0	6746.5	6465.5	6223.8	6184.4	6117.0	5781.1
27.5°	7336.7	7405.6	7432.3	7400.0	7415.4	7245.4	6912.3	6695.9	6658.0	6534.3	6121.2
30°	7693.7	7779.4	7817.3	7831.4	7883.4	7707.7	7461.8	7199.0	7186.4	7059.9	6569.5
32.5°	7978.9	8074.5	8167.2	8227.6	8310.6	8233.3	7988.8	7830.0	7831.4	7717.5	7242.6
35°	8185.5	8295.1	8430.0	8590.2	8764.4	8732.1	8587.4	8590.2	8612.7	8650.6	8101.2
37.5°	8414.5	8503.1	8661.9	8885.3	9150.9	9218.3	9198.7	9422.1	9531.7	9599.1	8855.8
40°	8550.8	8640.8	8838.9	9139.6	9526.1	9687.7	9869.0	10261.0	10404.3	10334.1	9500.8
42.5°	8400.5	8480.6	8824.9	9344.8	9833.8	10200.6	10525.2	11098.5	11202.5	10973.5	10044.6
45°	8205.2	8309.1	8671.7	9401.0	10106.4	10703.7	11208.1	11827.8	11905.1	11580.5	10525.2
47.5°	8045.0	8136.3	8559.3	9340.6	10358.0	11219.4	11808.2	12516.4	12536.1	12135.6	11022.7
50°	7839.8	7950.8	8392.1	9266.1	10509.7	11676.1	12357.6	13158.6	13202.2	12710.3	11444.2
52.5°	7624.8	7733.0	8189.7	9143.9	10619.3	12055.5	12928.1	13841.5	13845.8	13318.8	11893.9
55°	7307.2	7422.4	7928.3	8966.8	10653.1	12307.0	13501.5	14538.5	14582.1	13935.7	12301.4
57.5°	6971.4	7069.7	7613.6	8691.4	10528.0	12544.5	14090.3	15312.8	15432.3	14631.3	12651.3
60°	6525.9	6624.3	7199.0	8330.2	10262.4	12811.5	14764.8	16245.9	16258.6	15194.8	12905.7
62.5°	6046.7	6132.4	6660.8	7763.9	9850.7	12914.1	15343.7	16992.1	16990.7	15696.5	13032.1
65°	5477.6	5512.7	6050.9	7068.3	9211.3	12763.7	15599.5	17483.9	17436.1	16057.6	12990.0
67.5°	4803.1	4841.0	5248.5	6204.1	8283.9	12176.3	15485.7	17721.4	17769.2	16379.4	12807.3
70°	3948.7	3993.7	4349.2	5155.8	7102.0	11239.1	15218.7	17824.0	17864.7	16250.1	12243.8
72.5°	2914.5	2974.9	3192.7	3837.7	5390.5	9443.2	13982.1	16701.2	16723.7	15170.9	11070.4
75°	1809.9	1921.0	2126.1	2550.5	3497.6	6622.9	11951.5	14930.6	14790.1	13532.4	9160.7
77.5°	723.7	742.0	844.5	1194.4	1706.0	3448.4	8663.3	11868.6	12137.0	10827.3	6552.6
80°	421.6	418.8	442.6	556.5	732.1	1179.0	3369.7	6658.0	7421.0	5946.9	2948.2
82.5°	340.1	327.4	327.4	356.9	351.3	496.0	1104.5	1944.8	2133.1	1892.8	838.9
85°	178.5	174.2	141.9	175.7	175.7	247.3	424.4	550.9	581.8	507.3	314.8
87.5°	45.0	45.0	45.0	54.8	43.6	52.0	71.7	87.1	89.9	73.1	46.4
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°	4368.9	4368.9	4368.9	4368.9	4368.9	4368.9	4368.9	4368.9	4368.9	4368.9	4368.9
2.5°	4401.2	4413.8	4463.0	4456.0	4464.4	4464.4	4478.5	4493.9	4540.3	4513.6	4502.4
5°	4451.8	4477.1	4538.9	4561.4	4595.1	4599.3	4627.4	4637.3	4687.9	4659.8	4659.8
7.5°	4548.7	4578.3	4635.9	4644.3	4659.8	4633.1	4640.1	4609.2	4642.9	4609.2	4610.6
10°	4658.3	4678.0	4717.4	4661.2	4637.3	4574.0	4560.0	4484.1	4510.8	4467.2	4456.0
12.5°	4763.7	4756.7	4727.2	4627.4	4561.4	4457.4	4413.8	4311.3	4305.6	4248.0	4236.8
15°	4863.5	4814.3	4718.8	4564.2	4451.8	4307.0	4203.1	4090.6	4051.3	3985.2	3979.6
17.5°	4985.8	4901.5	4731.4	4503.8	4319.7	4108.9	3961.4	3834.9	3753.4	3693.0	3691.5
20°	5134.7	5005.4	4737.0	4434.9	4183.4	3913.6	3707.0	3546.8	3430.2	3354.3	3352.9
22.5°	5321.6	5146.0	4789.0	4356.2	4009.1	3677.5	3420.3	3143.5	2983.3	2828.7	2800.6
25°	5540.8	5287.9	4834.0	4315.5	3837.7	3431.6	3049.4	2644.6	2395.9	2272.3	2225.9
27.5°	5848.6	5524.0	4900.0	4238.2	3676.1	3128.0	2571.6	2130.3	1831.0	1725.6	1725.6
30°	6204.1	5821.9	5023.7	4191.8	3451.3	2702.3	2047.4	1573.9	1295.6	1136.8	1132.6
32.5°	6746.5	6177.4	5136.1	4092.0	3178.6	2238.5	1481.1	1014.6	791.1	692.8	687.2
35°	7526.4	6854.7	5317.4	3992.3	2783.8	1666.6	940.1	581.8	451.1	394.9	392.1
37.5°	8276.8	7499.7	5708.1	3794.1	2223.1	1046.9	521.3	335.9	275.4	268.4	265.6
40°	8805.2	8056.2	5983.5	3492.0	1579.5	555.1	302.1	243.1	238.9	236.1	234.7
42.5°	9381.3	8469.3	6178.8	3107.0	937.3	321.8	245.9	219.2	212.2	209.4	209.4
45°	9849.3	8867.0	6215.3	2556.1	472.2	265.6	224.8	199.5	191.1	196.7	198.1
47.5°	10280.7	9242.2	6091.7	1922.4	319.0	247.3	210.8	185.5	179.9	193.9	193.9
50°	10648.9	9559.8	5807.8	1434.7	299.3	233.3	196.7	171.4	170.0	182.7	184.1
52.5°	11015.6	9815.6	5361.0	1083.4	283.9	217.8	182.7	158.8	154.6	163.0	164.4
55°	11306.5	9906.9	5029.3	806.6	272.6	203.8	170.0	146.1	136.3	134.9	137.7
57.5°	11466.7	9826.8	4704.7	593.0	260.0	191.1	157.4	129.3	113.8	113.8	113.8
60°	11469.5	9729.8	4357.6	469.3	245.9	177.1	143.3	111.0	95.6	92.7	92.7
62.5°	11438.6	9557.0	3853.2	407.5	230.5	165.8	125.1	94.2	82.9	78.7	78.7
65°	11302.3	9231.0	3241.9	348.5	212.2	157.4	106.8	84.3	74.5	68.9	68.9
67.5°	10877.9	8619.7	2495.7	303.5	195.3	139.1	97.0	75.9	66.0	60.4	59.0
70°	10099.4	7631.8	1646.9	258.6	178.5	123.7	88.5	68.9	59.0	53.4	52.0
72.5°	8794.0	6211.1	827.7	219.2	153.2	113.8	80.1	60.4	50.6	45.0	45.0
75°	6891.3	4311.3	451.1	174.2	120.9	99.8	70.3	50.6	43.6	39.3	39.3
77.5°	4225.5	2137.4	307.7	134.9	91.3	81.5	56.2	42.2	37.9	36.5	36.5
80°	1541.5	699.8	206.6	95.6	68.9	63.2	45.0	36.5	35.1	35.1	35.1
82.5°	556.5	355.5	139.1	64.6	43.6	47.8	36.5	30.9	29.5	30.9	32.3
85°	229.1	156.0	50.6	36.5	23.9	25.3	22.5	21.1	22.5	23.9	23.9
87.5°	35.1	30.9	18.3	18.3	14.1	12.6	9.8	11.2	14.1	16.9	16.9
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)