

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: P510134

Luminaire Tested: **VERD-M-CA4-210-740-U-T3-HSS**

Issue Date: 4/6/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P510134  
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-CA4-210-740-U-T3-HSS  
Description: VERDEON-M ROADWAY AND AREA LUMINAIRE  
(4) 70 CRI, 4000K, 960mA LEDS AND TYPE III OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 28122 lumens  
Efficiency: N/A  
Efficacy: 131.7 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

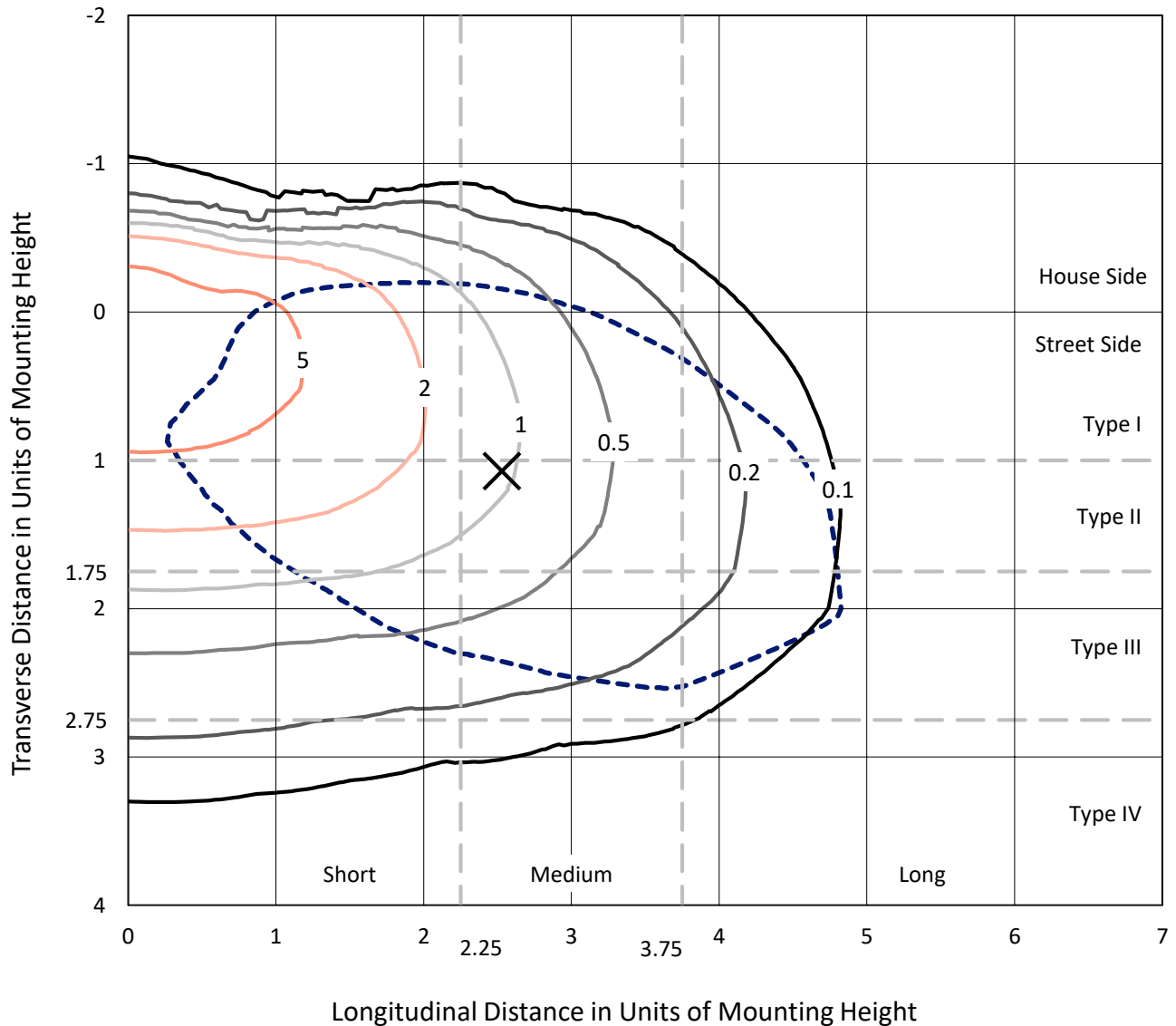
Input Watts (W): 213.6  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

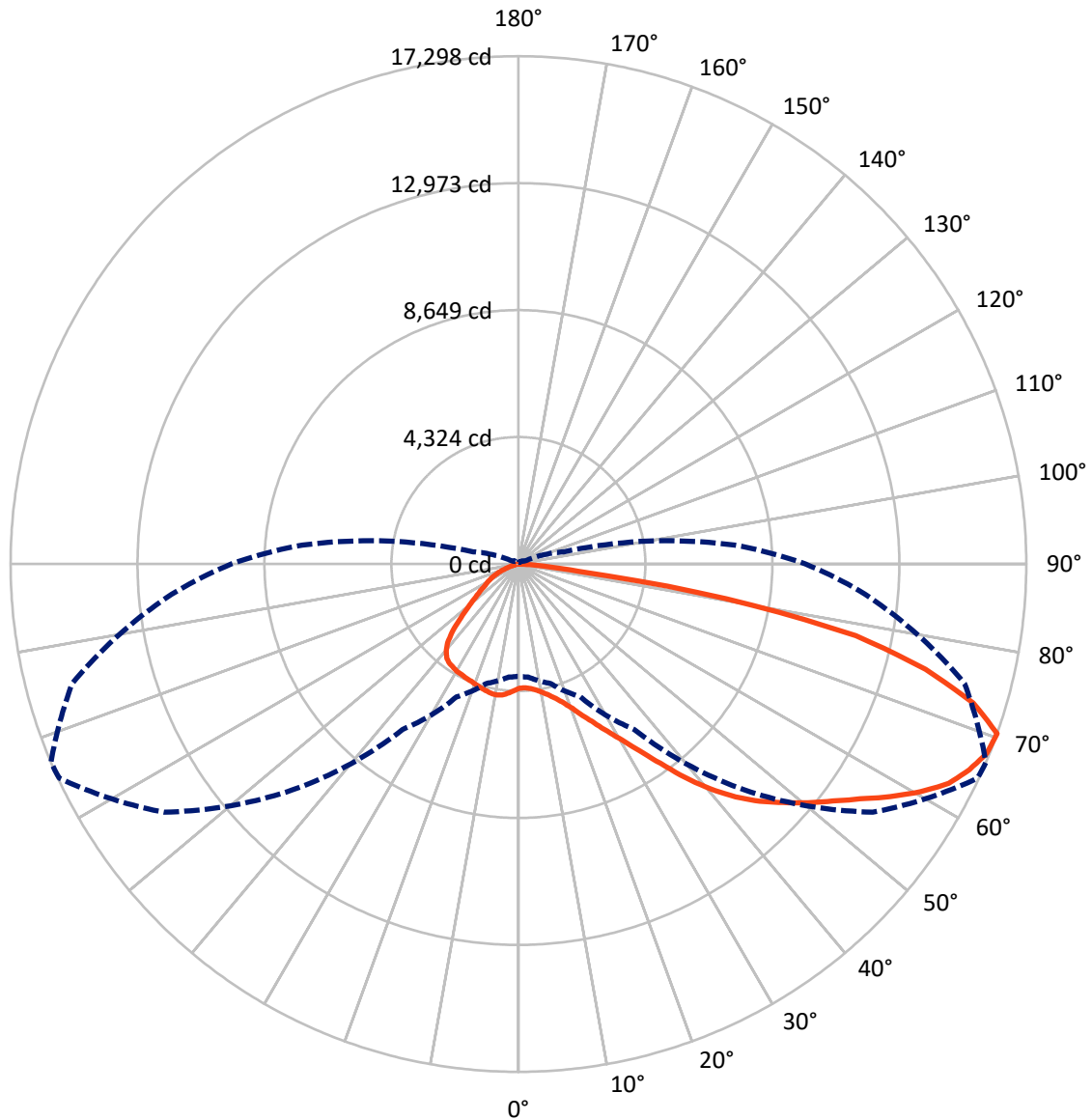
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8 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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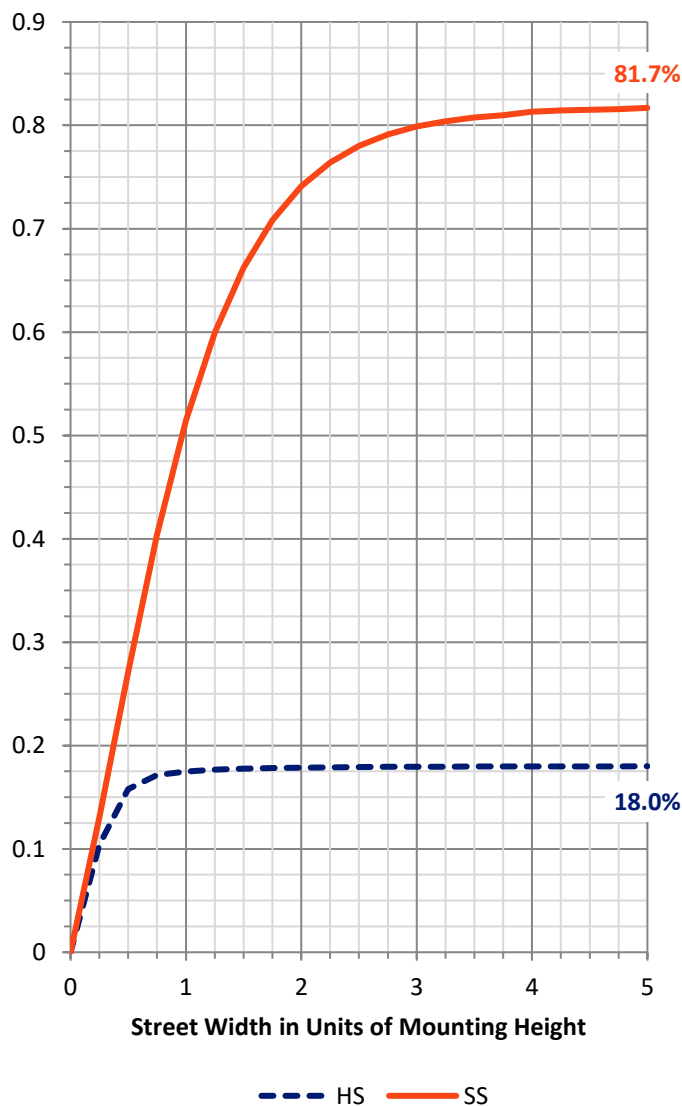
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5124.0	0.0	5124.0
	% Fixture	18.2	0.0	18.2
<b>Street Side</b>	Lumens	22997.9	0.0	22997.9
	% Fixture	81.8	0.0	81.8
<b>Total</b>	Lumens	28122.0	0.0	28122.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	421.5	1.5
10°-20°	1314.9	4.7
20°-30°	2281.3	8.1
30°-40°	3388.3	12.0
40°-50°	4648.5	16.5
50°-60°	5708.6	20.3
60°-70°	6120.2	21.8
70°-80°	3885.2	13.8
80°-90°	353.6	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°	28122.0	100.0
0°-180°	28122.0	100.0

**Coefficient of Utilization**



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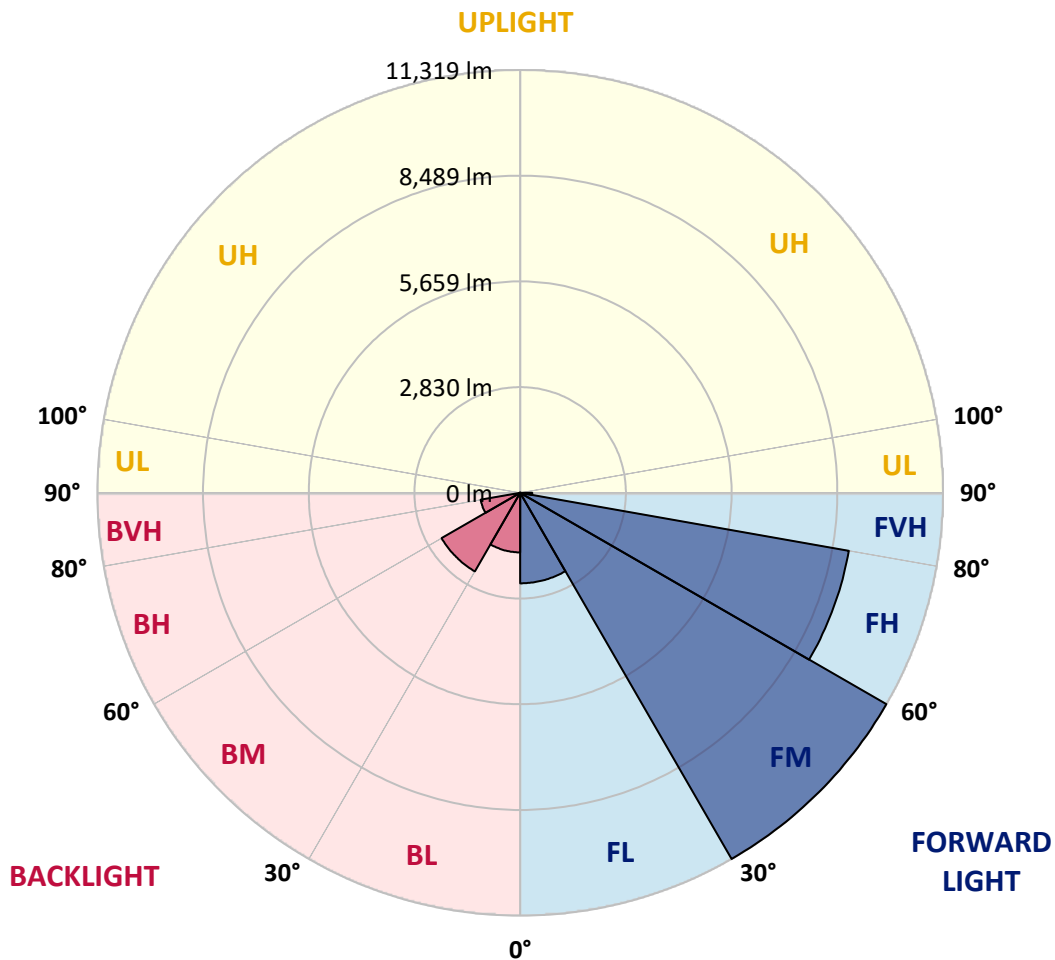
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2422.9	8.6			
FM	(30°-60°)	11318.8	40.2			
FH	(60°-80°)	8933.7	31.8			G4/12000
FVH	(80°-90°)	322.5	1.1			G3/500
BL	(0°-30°)	1594.7	5.7	B3/2500		
BM	(30°-60°)	2426.5	8.6	B2/2500		
BH	(60°-80°)	1071.8	3.8	B3/2500		G3/2500
BVH	(80°-90°)	31.1	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°	4230.2	4230.2	4230.2	4230.2	4230.2	4230.2	4230.2	4230.2	4230.2	4230.2	4230.2
2.5°	4192.1	4231.5	4208.4	4205.7	4232.9	4207.1	4224.7	4220.7	4217.9	4222.0	4250.6
5°	4302.3	4348.6	4317.3	4307.7	4322.7	4276.4	4272.4	4262.8	4260.1	4261.5	4302.3
7.5°	4456.0	4510.5	4498.2	4473.7	4465.6	4389.4	4375.8	4341.8	4330.9	4333.6	4374.4
10°	4698.2	4752.7	4728.2	4673.7	4639.7	4552.6	4503.7	4460.1	4438.4	4441.1	4484.6
12.5°	5008.5	5060.2	5019.3	4920.0	4901.0	4760.8	4684.6	4592.1	4577.1	4555.4	4601.6
15°	5301.0	5345.9	5326.8	5234.3	5182.6	5016.6	4876.5	4762.2	4748.6	4728.2	4726.8
17.5°	5624.8	5669.7	5634.3	5566.3	5498.3	5301.0	5150.0	5003.0	4967.6	4950.0	4886.0
20°	5970.4	6041.2	6034.4	5978.6	5896.9	5665.6	5452.0	5286.0	5247.9	5215.3	5080.6
22.5°	6326.9	6419.4	6399.0	6369.1	6335.1	6075.2	5826.2	5634.3	5605.8	5536.4	5324.1
25°	6721.5	6785.4	6770.5	6785.4	6762.3	6532.4	6260.2	6026.2	5988.1	5922.8	5597.6
27.5°	7103.8	7170.5	7196.3	7165.0	7180.0	7015.4	6692.9	6483.4	6446.6	6326.9	5926.9
30°	7449.4	7532.4	7569.2	7582.8	7633.1	7463.0	7224.9	6970.5	6958.2	6835.8	6360.9
32.5°	7725.6	7818.1	7907.9	7966.5	8046.7	7971.9	7735.1	7581.4	7582.8	7472.5	7012.7
35°	7925.6	8031.8	8162.4	8317.5	8486.2	8454.9	8314.8	8317.5	8339.3	8376.0	7844.0
37.5°	8147.4	8233.1	8386.9	8603.2	8860.4	8925.7	8906.6	9123.0	9229.1	9294.4	8574.7
40°	8279.4	8366.5	8558.3	8849.5	9223.7	9380.1	9555.7	9935.3	10074.1	10006.0	9199.2
42.5°	8133.8	8211.4	8544.7	9048.2	9521.6	9876.8	10191.1	10746.2	10846.9	10625.1	9725.7
45°	7944.7	8045.4	8396.4	9102.6	9785.6	10363.9	10852.3	11452.4	11527.2	11212.9	10191.1
47.5°	7789.6	7878.0	8287.6	9044.1	10029.2	10863.2	11433.3	12119.1	12138.1	11750.4	10672.7
50°	7590.9	7698.4	8125.6	8972.0	10176.1	11305.4	11965.3	12740.9	12783.1	12306.8	11080.9
52.5°	7382.7	7487.5	7929.7	8853.6	10282.2	11672.8	12517.7	13402.2	13406.2	12896.0	11516.3
55°	7075.2	7186.8	7676.6	8682.1	10314.9	11916.3	13072.9	14077.0	14119.2	13493.3	11910.9
57.5°	6750.1	6845.3	7371.9	8415.5	10193.8	12146.3	13643.0	14826.7	14942.4	14166.8	12249.7
60°	6318.7	6414.0	6970.5	8065.8	9936.6	12404.8	14296.1	15730.2	15742.4	14712.4	12496.0
62.5°	5854.8	5937.8	6449.4	7517.4	9538.0	12504.1	14856.7	16452.7	16451.3	15198.2	12618.4
65°	5303.7	5337.7	5858.8	6843.9	8918.9	12358.6	15104.3	16928.9	16882.6	15547.9	12577.6
67.5°	4650.6	4687.4	5081.9	6007.2	8020.9	11789.8	14994.1	17158.8	17205.1	15859.4	12400.7
70°	3823.4	3866.9	4211.1	4992.1	6876.6	10882.3	14735.6	17258.2	17297.6	15734.3	11855.1
72.5°	2821.9	2880.4	3091.3	3715.9	5219.4	9143.4	13538.2	16171.0	16192.8	14689.3	10719.0
75°	1752.5	1860.0	2058.6	2469.5	3386.6	6412.6	11572.1	14456.6	14320.6	13102.8	8869.9
77.5°	700.7	718.4	817.7	1156.5	1651.8	3339.0	8388.2	11491.8	11751.7	10483.6	6344.6
80°	408.2	405.5	428.6	538.8	708.9	1141.6	3262.8	6446.6	7185.5	5758.2	2854.6
82.5°	329.3	317.0	317.0	345.6	340.2	480.3	1069.5	1883.1	2065.4	1832.8	812.3
85°	172.8	168.7	137.4	170.1	170.1	239.5	410.9	533.4	563.3	491.2	304.8
87.5°	43.5	43.5	43.5	53.1	42.2	50.3	69.4	84.4	87.1	70.8	44.9
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°	4230.2	4230.2	4230.2	4230.2	4230.2	4230.2	4230.2	4230.2	4230.2	4230.2	4230.2
2.5°	4261.5	4273.7	4321.3	4314.5	4322.7	4322.7	4336.3	4351.3	4396.2	4370.3	4359.4
5°	4310.5	4334.9	4394.8	4416.6	4449.2	4453.3	4480.5	4490.1	4539.0	4511.8	4511.8
7.5°	4404.3	4432.9	4488.7	4496.9	4511.8	4486.0	4492.8	4462.8	4495.5	4462.8	4464.2
10°	4510.5	4529.5	4567.6	4513.2	4490.1	4428.8	4415.2	4341.8	4367.6	4325.4	4314.5
12.5°	4612.5	4605.7	4577.1	4480.5	4416.6	4315.9	4273.7	4174.4	4169.0	4113.2	4102.3
15°	4709.1	4661.5	4569.0	4419.3	4310.5	4170.3	4069.6	3960.8	3922.7	3858.7	3853.3
17.5°	4827.5	4745.9	4581.2	4360.8	4182.6	3978.5	3835.6	3713.1	3634.2	3575.7	3574.4
20°	4971.7	4846.5	4586.7	4294.1	4050.6	3789.3	3589.3	3434.2	3321.3	3247.8	3246.4
22.5°	5152.7	4982.6	4637.0	4217.9	3881.9	3560.8	3311.8	3043.7	2888.6	2738.9	2711.7
25°	5364.9	5120.0	4680.5	4178.5	3715.9	3322.6	2952.6	2560.7	2319.9	2200.1	2155.2
27.5°	5662.9	5348.6	4744.5	4103.6	3559.4	3028.7	2489.9	2062.7	1772.9	1670.8	1670.8
30°	6007.2	5637.1	4864.2	4058.7	3341.7	2616.5	1982.4	1523.9	1254.5	1100.7	1096.7
32.5°	6532.4	5981.3	4973.1	3962.1	3077.7	2167.5	1434.1	982.4	766.0	670.8	665.3
35°	7287.5	6637.1	5148.6	3865.5	2695.4	1613.7	910.3	563.3	436.8	382.3	379.6
37.5°	8014.1	7261.7	5526.9	3673.7	2152.5	1013.7	504.8	325.2	266.7	259.9	257.2
40°	8525.7	7800.5	5793.5	3381.2	1529.3	537.4	292.5	235.4	231.3	228.6	227.2
42.5°	9083.5	8200.5	5982.7	3008.3	907.5	311.6	238.1	212.3	205.5	202.7	202.7
45°	9536.6	8585.5	6018.0	2475.0	457.2	257.2	217.7	193.2	185.0	190.5	191.8
47.5°	9954.3	8948.8	5898.3	1861.3	308.9	239.5	204.1	179.6	174.2	187.8	187.8
50°	10310.8	9256.3	5623.5	1389.2	289.8	225.9	190.5	166.0	164.6	176.9	178.2
52.5°	10665.9	9504.0	5190.8	1049.0	274.8	210.9	176.9	153.8	149.7	157.8	159.2
55°	10947.6	9592.4	4869.7	781.0	264.0	197.3	164.6	141.5	132.0	130.6	133.3
57.5°	11102.7	9514.8	4555.4	574.2	251.7	185.0	152.4	125.2	110.2	110.2	110.2
60°	11105.4	9421.0	4219.3	454.4	238.1	171.4	138.8	107.5	92.5	89.8	89.8
62.5°	11075.5	9253.6	3730.8	394.6	223.1	160.6	121.1	91.2	80.3	76.2	76.2
65°	10943.5	8937.9	3139.0	337.4	205.5	152.4	103.4	81.6	72.1	66.7	66.7
67.5°	10532.6	8346.1	2416.5	293.9	189.1	134.7	93.9	73.5	63.9	58.5	57.1
70°	9778.8	7389.6	1594.7	250.4	172.8	119.7	85.7	66.7	57.1	51.7	50.3
72.5°	8514.8	6014.0	801.4	212.3	148.3	110.2	77.6	58.5	49.0	43.5	43.5
75°	6672.5	4174.4	436.8	168.7	117.0	96.6	68.0	49.0	42.2	38.1	38.1
77.5°	4091.4	2069.5	298.0	130.6	88.4	78.9	54.4	40.8	36.7	35.4	35.4
80°	1492.6	677.6	200.0	92.5	66.7	61.2	43.5	35.4	34.0	34.0	34.0
82.5°	538.8	344.2	134.7	62.6	42.2	46.3	35.4	29.9	28.6	29.9	31.3
85°	221.8	151.0	49.0	35.4	23.1	24.5	21.8	20.4	21.8	23.1	23.1
87.5°	34.0	29.9	17.7	17.7	13.6	12.2	9.5	10.9	13.6	16.3	16.3
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)