

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: P510239

Luminaire Tested: **VERD-M-CA4-230-750-U-T3**

Issue Date: 4/6/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P510239  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2103-181-4)  
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-T3  
Description: VERDEON-M ROADWAY AND AREA LUMINAIRE  
(4) 70 CRI, 5000K, 1050mA LEDS AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 33073 lumens  
Efficiency: N/A  
Efficacy: 141.8 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

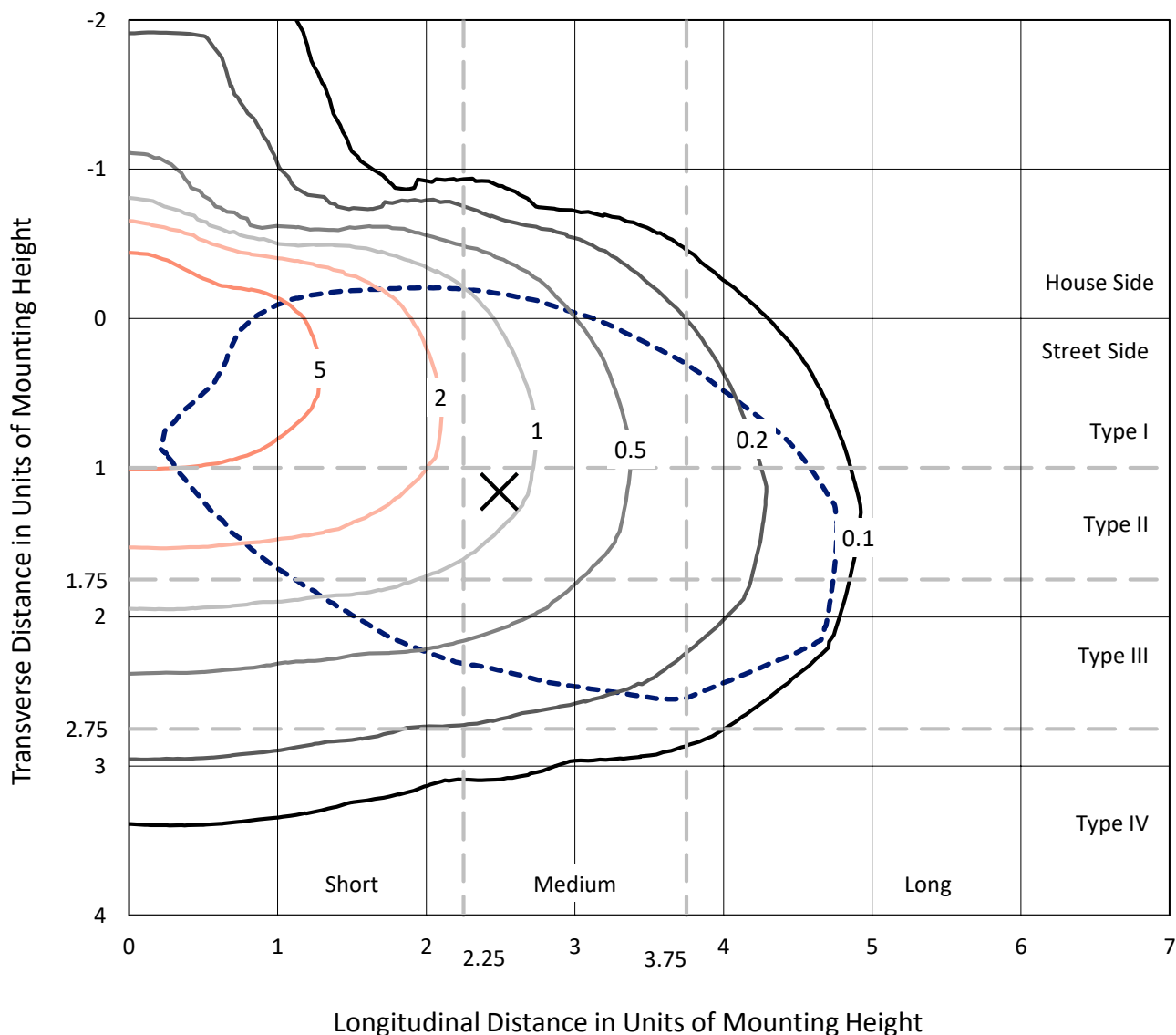
Input Watts (W): 233.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

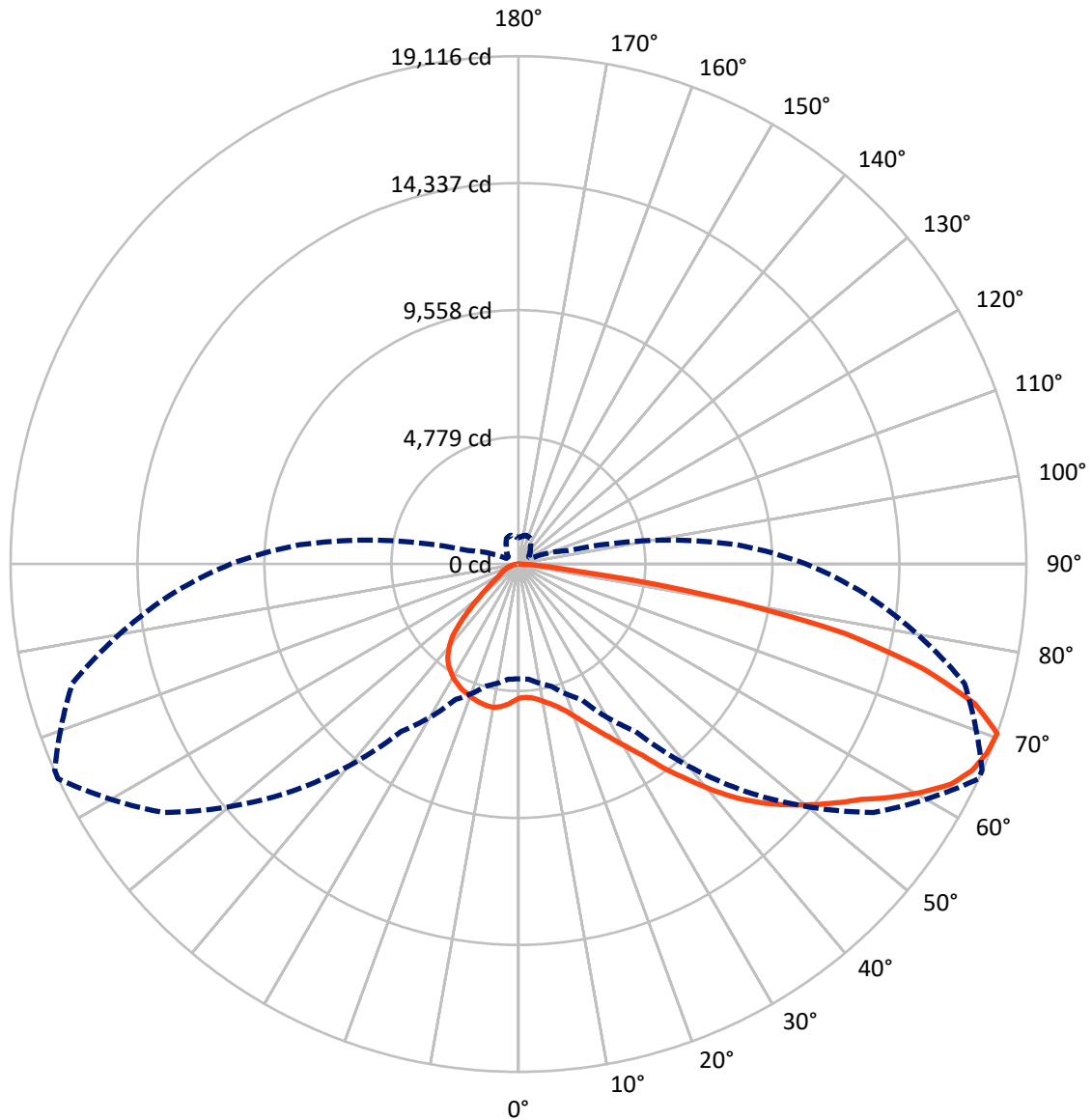
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.2 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

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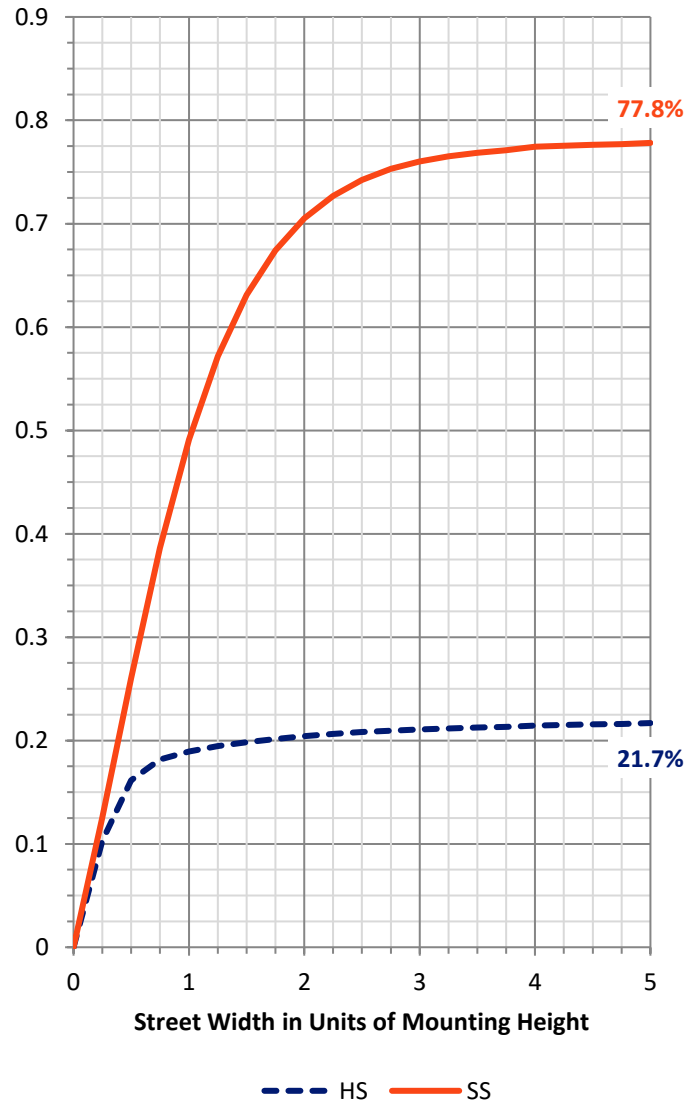
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	7295.6	0.0	7295.6
	% Fixture	22.1	0.0	22.1
<b>Street Side</b>	Lumens	25777.4	0.0	25777.4
	% Fixture	77.9	0.0	77.9
<b>Total</b>	Lumens	33073.0	0.0	33073.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	506.5	1.5
10°-20°	1600.9	4.8
20°-30°	2777.3	8.4
30°-40°	4038.1	12.2
40°-50°	5394.9	16.3
50°-60°	6571.5	19.9
60°-70°	7084.2	21.4
70°-80°	4593.0	13.9
80°-90°	506.6	1.5
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°	33073.0	100.0
0°-180°	33073.0	100.0

**Coefficient of Utilization**



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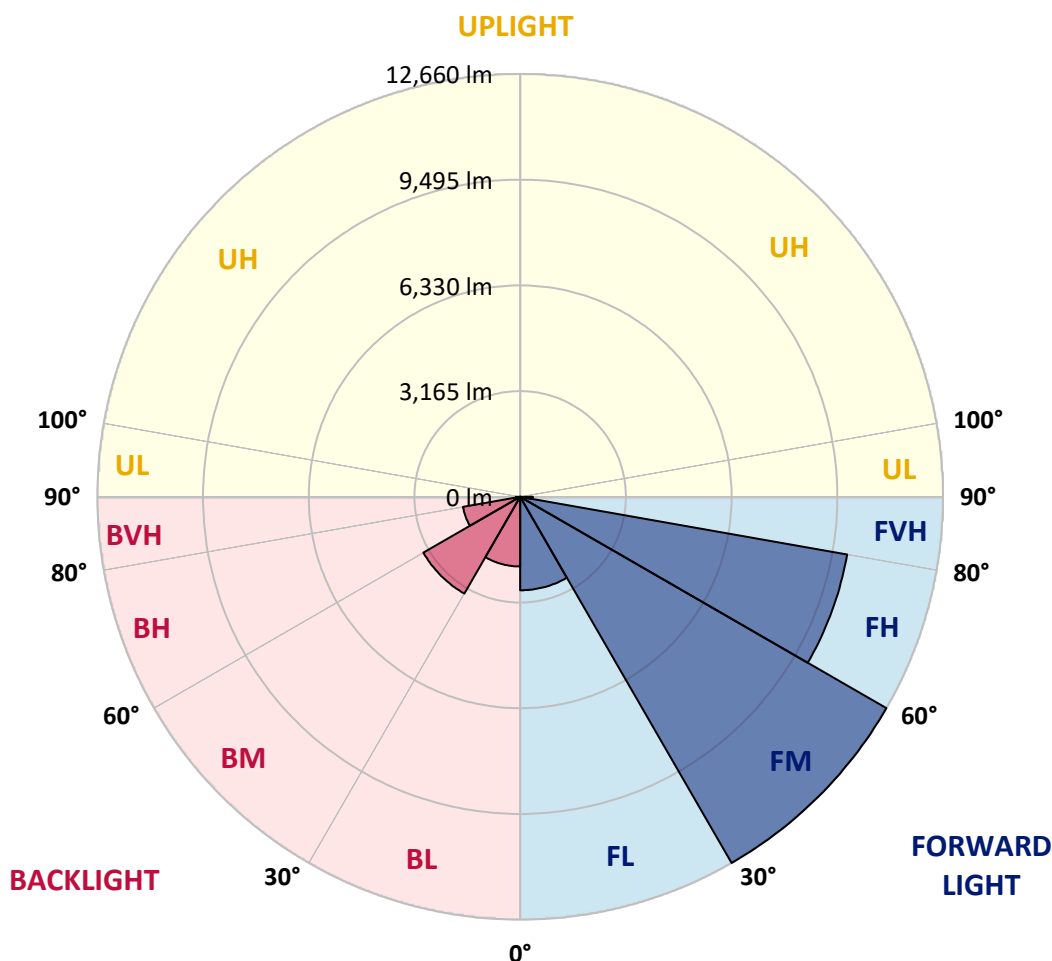
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2798.9	8.5			
FM	(30°-60°)	12659.7	38.3			
FH	(60°-80°)	9940.9	30.1			G4/12000
FVH	(80°-90°)	377.8	1.1			G3/500
BL	(0°-30°)	2085.8	6.3	B3/2500		
BM	(30°-60°)	3344.8	10.1	B3/5000		
BH	(60°-80°)	1736.3	5.2	B3/2500		G3/2500
BVH	(80°-90°)	128.8	0.4			G2/225
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°	66°	75°	85°
0°	5049.3	5049.3	5049.3	5049.3	5049.3	5049.3	5049.3	5049.3	5049.3	5049.3	5049.3
2.5°	4974.7	5019.5	4995.6	4997.1	5031.4	5003.1	5022.5	5022.5	5021.0	5031.4	5062.7
5°	5097.0	5144.7	5116.4	5098.5	5106.0	5070.2	5062.7	5056.8	5052.3	5064.2	5116.4
7.5°	5276.0	5331.1	5299.8	5283.4	5274.5	5192.5	5177.5	5137.3	5132.8	5143.3	5191.0
10°	5513.1	5587.6	5550.4	5504.1	5472.8	5377.4	5301.3	5265.5	5255.1	5249.1	5298.3
12.5°	5854.6	5920.2	5876.9	5790.4	5748.7	5595.1	5504.1	5402.7	5401.2	5380.4	5417.6
15°	6178.2	6246.8	6191.6	6106.6	6051.4	5844.1	5709.9	5584.7	5569.7	5545.9	5557.8
17.5°	6491.3	6574.8	6536.1	6458.5	6391.4	6160.3	5984.3	5823.3	5806.8	5769.6	5714.4
20°	6880.5	6956.6	6946.1	6876.1	6801.5	6539.0	6346.7	6139.4	6121.5	6054.4	5930.6
22.5°	7269.7	7363.7	7305.5	7293.6	7251.8	6990.9	6722.5	6512.2	6494.3	6406.3	6179.7
25°	7636.6	7720.1	7741.0	7721.6	7726.1	7468.1	7201.1	6937.2	6919.3	6800.0	6471.9
27.5°	8070.5	8149.6	8155.5	8160.0	8212.2	7997.5	7684.3	7412.9	7401.0	7266.8	6850.7
30°	8403.1	8534.3	8561.1	8586.5	8613.3	8498.5	8213.7	7960.2	7936.3	7790.2	7277.2
32.5°	8707.3	8805.7	8901.1	8953.3	9074.1	8971.2	8737.1	8580.5	8582.0	8513.4	7957.2
35°	8942.9	9051.8	9172.6	9363.4	9539.4	9496.1	9423.1	9432.0	9433.5	9463.3	8874.3
37.5°	9168.1	9266.5	9418.6	9646.8	9956.9	10013.6	10062.8	10249.2	10314.8	10455.0	9721.3
40°	9303.8	9408.2	9605.0	9921.1	10323.8	10528.1	10677.2	11155.9	11269.2	11270.7	10376.0
42.5°	9105.4	9220.3	9572.2	10134.4	10654.8	11036.6	11428.8	12032.7	12114.7	11931.3	10935.2
45°	8928.0	9033.9	9412.6	10167.2	10914.3	11579.4	12125.2	12824.6	12884.2	12514.4	11451.2
47.5°	8756.5	8840.0	9278.4	10098.6	11179.7	12123.7	12718.7	13540.4	13583.6	13152.6	11955.2
50°	8519.4	8619.3	9084.6	10018.1	11339.3	12590.4	13300.3	14247.2	14241.2	13726.8	12411.5
52.5°	8259.9	8358.3	8857.9	9870.4	11443.7	12952.8	13962.4	14939.1	14943.6	14385.9	12863.3
55°	7933.3	8054.1	8580.5	9670.6	11469.0	13237.6	14536.5	15649.0	15722.0	15058.4	13298.8
57.5°	7542.6	7663.4	8239.0	9378.3	11318.4	13476.2	15149.4	16555.6	16594.4	15745.9	13623.9
60°	7087.8	7234.0	7784.2	8987.6	11030.6	13753.6	15892.0	17444.4	17457.8	16360.3	13895.3
62.5°	6561.4	6665.8	7244.4	8421.0	10571.3	13864.0	16506.4	18260.1	18263.1	16824.1	14017.6
65°	5991.8	6032.0	6516.7	7650.0	9901.8	13683.5	16742.0	18756.7	18743.3	17231.2	13956.4
67.5°	5313.3	5293.9	5811.3	6697.1	9054.7	13082.6	16627.2	19011.7	19051.9	17544.3	13759.6
70°	4320.1	4348.4	4760.0	5630.9	7687.3	12117.7	16311.1	19116.1	19105.6	17387.7	13125.8
72.5°	3279.2	3329.9	3628.2	4281.3	5966.4	10191.1	14957.0	17961.9	17982.7	16284.2	11985.0
75°	2028.1	2174.2	2426.2	2824.4	3738.5	7301.1	12730.6	15734.0	15839.8	14368.0	9869.0
77.5°	888.8	923.1	1049.8	1361.5	1955.0	3665.4	9411.1	12565.1	12878.3	11619.7	7119.1
80°	550.3	550.3	586.1	683.0	872.4	1363.0	3771.3	7502.4	7184.7	6646.4	3140.5
82.5°	457.8	457.8	475.7	492.1	447.4	577.1	1261.6	2102.6	2253.2	1823.8	964.8
85°	249.0	255.0	256.5	261.0	256.5	311.7	496.6	621.8	629.3	569.6	343.0
87.5°	91.0	96.9	93.9	88.0	79.0	74.6	95.4	96.9	99.9	92.5	50.7
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°	5049.3	5049.3	5049.3	5049.3	5049.3	5049.3	5049.3	5049.3	5049.3	5049.3	5049.3
2.5°	5083.6	5104.5	5159.7	5164.1	5185.0	5192.5	5210.4	5235.7	5280.4	5258.1	5232.7
5°	5141.8	5168.6	5256.6	5301.3	5359.5	5393.8	5450.4	5478.8	5547.4	5525.0	5522.0
7.5°	5229.7	5286.4	5365.4	5408.7	5484.7	5507.1	5548.9	5548.9	5605.5	5577.2	5569.7
10°	5349.0	5386.3	5469.8	5472.8	5516.1	5516.1	5565.3	5534.0	5589.1	5556.3	5554.8
12.5°	5444.5	5465.4	5496.7	5471.3	5493.7	5468.3	5493.7	5456.4	5490.7	5449.0	5440.0
15°	5551.8	5523.5	5492.2	5432.5	5413.2	5372.9	5352.0	5313.3	5316.2	5268.5	5261.1
17.5°	5672.6	5599.6	5508.6	5378.9	5307.3	5204.4	5161.1	5106.0	5074.7	5031.4	5050.8
20°	5818.8	5709.9	5520.5	5319.2	5167.1	5010.5	4909.1	4819.7	4812.2	4773.4	4752.5
22.5°	6008.2	5833.7	5572.7	5234.2	4989.7	4766.0	4615.4	4466.2	4451.3	4372.3	4342.5
25°	6242.3	5997.7	5599.6	5168.6	4782.4	4475.2	4238.1	4030.8	3930.9	3847.4	3828.0
27.5°	6556.9	6239.3	5653.3	5050.8	4537.8	4114.3	3774.3	3499.9	3380.6	3338.9	3295.6
30°	6925.3	6534.6	5753.2	4952.4	4248.5	3653.5	3239.0	2912.4	2782.6	2717.0	2696.1
32.5°	7468.1	6907.4	5845.6	4789.8	3898.1	3146.5	2606.7	2245.8	2166.8	2154.8	2183.2
35°	8258.4	7608.3	5979.8	4639.2	3486.5	2582.8	1986.3	1750.7	1734.3	1737.3	1737.3
37.5°	9081.6	8276.3	6378.0	4417.0	2982.5	1944.6	1512.1	1383.9	1389.8	1389.8	1388.3
40°	9618.4	8813.2	6667.3	4102.4	2356.1	1394.3	1121.4	1024.5	1066.2	1122.9	1152.7
42.5°	10210.4	9300.8	6867.1	3740.0	1638.9	985.7	815.7	850.0	972.3	1058.8	1070.7
45°	10714.5	9715.4	6889.5	3176.3	1055.8	748.6	744.1	842.5	984.2	1078.2	1085.6
47.5°	11146.9	10092.6	6749.3	2532.1	769.5	699.4	744.1	867.9	996.1	1054.3	1060.3
50°	11566.0	10392.4	6419.7	1946.1	700.9	681.5	753.1	872.4	952.9	993.2	987.2
52.5°	11938.8	10665.3	5942.5	1518.1	674.0	669.6	760.5	867.9	918.6	915.6	911.1
55°	12222.1	10745.8	5569.7	1184.0	651.7	662.1	765.0	872.4	909.6	882.8	876.8
57.5°	12368.3	10645.9	5256.6	941.0	627.8	654.6	776.9	870.9	936.5	987.2	984.2
60°	12365.3	10532.6	4870.4	811.2	603.9	648.7	796.3	945.4	1182.5	1230.3	1231.8
62.5°	12317.6	10338.7	4341.0	733.7	577.1	651.7	809.7	1073.7	1346.6	1307.8	1276.5
65°	12159.5	9974.8	3631.1	650.2	542.8	654.6	803.8	1161.7	1234.7	1096.1	1076.7
67.5°	11719.6	9271.0	2851.2	581.6	511.5	638.2	814.2	1079.7	1134.8	1046.8	1018.5
70°	10826.3	8279.3	1932.6	501.1	475.7	614.4	790.4	1061.8	1119.9	1030.4	988.7
72.5°	9411.1	6644.9	1130.4	431.0	423.5	565.2	778.4	1073.7	1137.8	1037.9	984.2
75°	7324.9	4658.6	653.2	348.9	353.4	521.9	714.3	1012.5	1127.4	1049.8	979.7
77.5°	4728.7	2262.2	460.8	278.9	275.9	411.6	580.1	885.8	1085.6	1060.3	1002.1
80°	1692.5	826.1	323.6	207.3	201.3	278.9	445.9	712.8	918.6	951.4	951.4
82.5°	608.4	414.6	207.3	126.8	125.3	177.5	332.5	541.3	666.6	751.6	772.5
85°	255.0	180.4	101.4	64.1	52.2	68.6	171.5	335.5	451.8	486.1	529.4
87.5°	37.3	32.8	26.8	20.9	17.9	17.9	22.4	96.9	161.1	231.1	286.3
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)