

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: P510327

Luminaire Tested: **VERD-M-CA4-250-740-U-T3**

Issue Date: 4/6/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P510327  
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-CA4-250-740-U-T3  
Description: VERDEON-M ROADWAY AND AREA LUMINAIRE  
(4) 70 CRI, 4000K, 1130mA LEDS AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

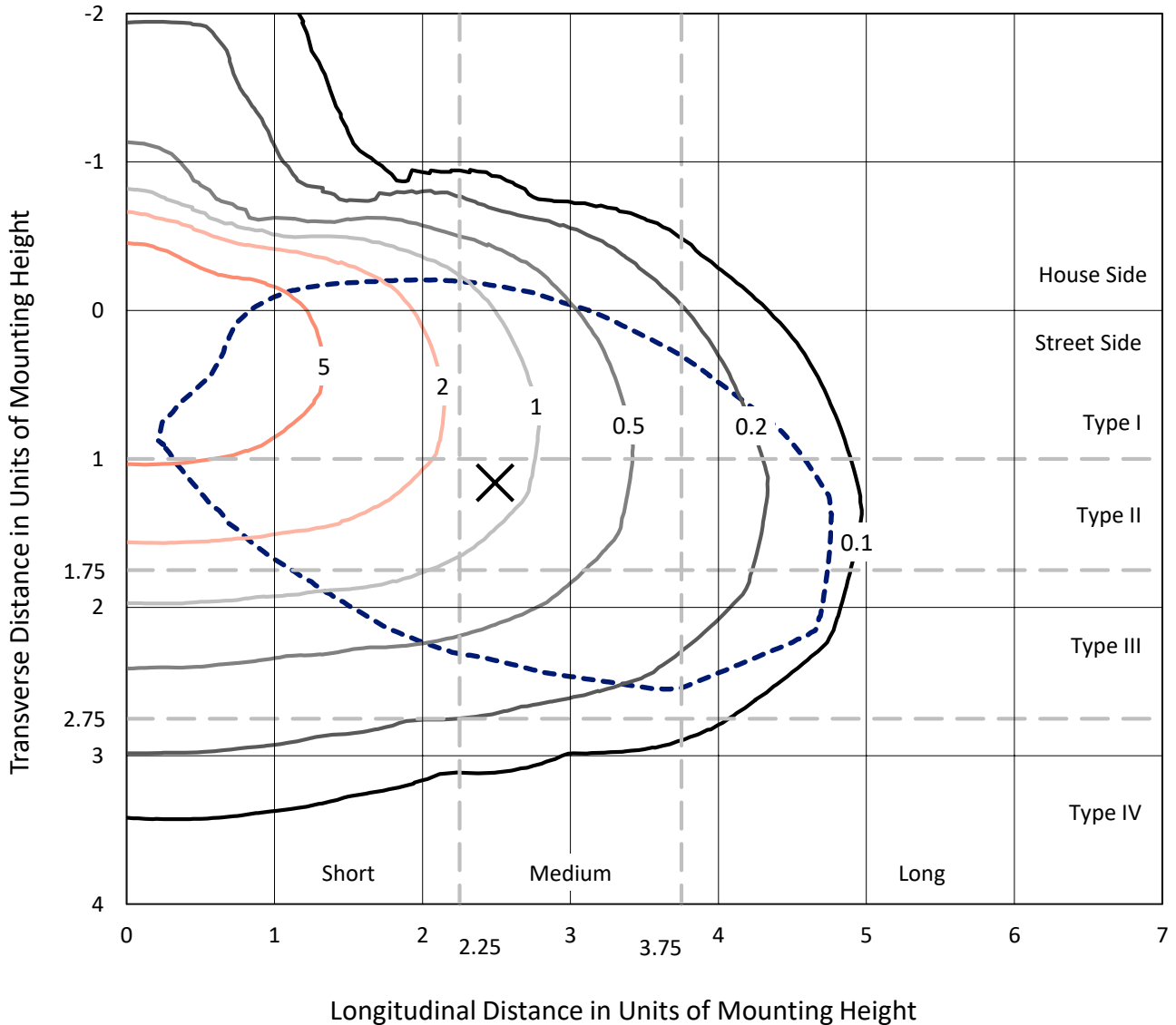
Lumens per Lamp: N/A  
Luminaire Lumens: 34640 lumens  
Efficiency: N/A  
Efficacy: 137.6 lumens/watt  
Luminous Opening: Rectangular (W 1.35' x L: 1.58' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B3 - U0 - G4  
  
Input Watts (W): 251.7  
Input Voltage (V): NR  
Input Current (Ain): 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

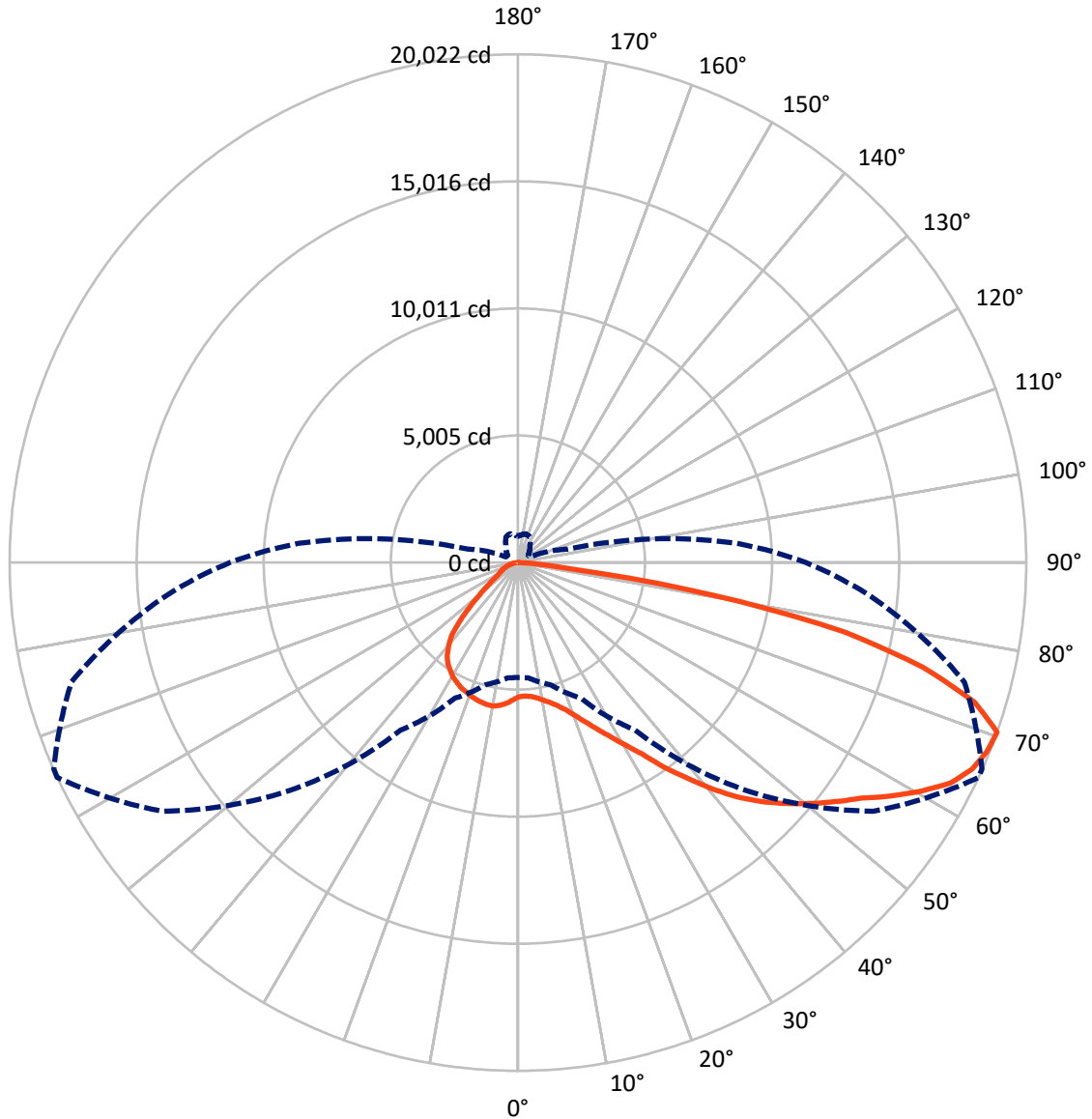
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.7 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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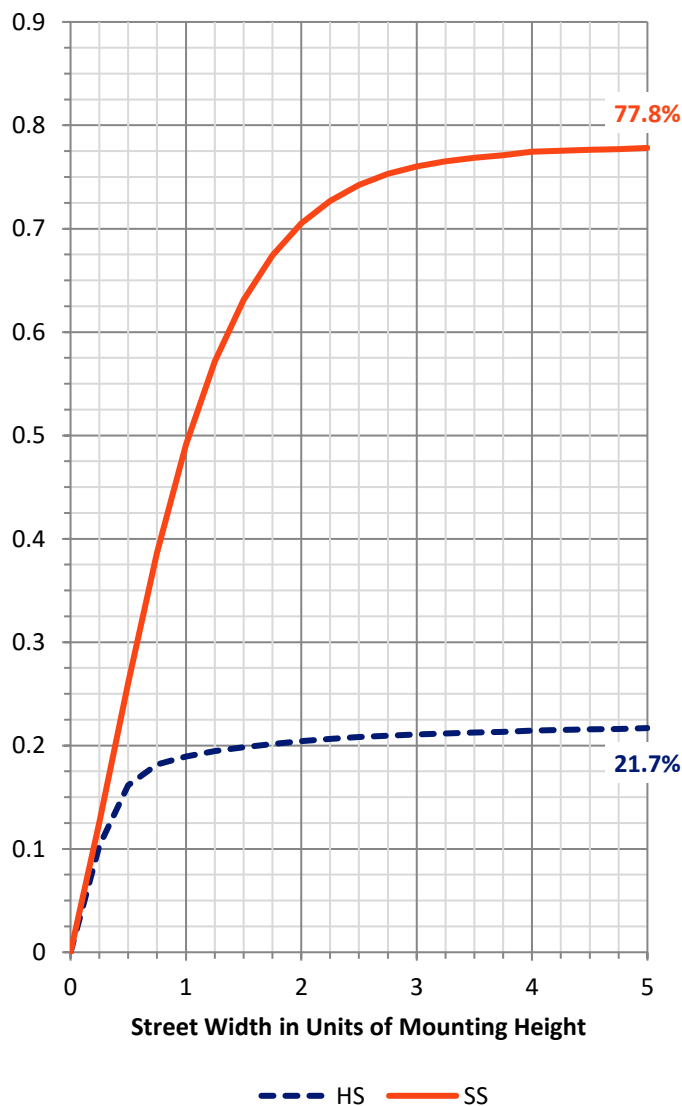
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	7641.3	0.0	7641.3
	% Fixture	22.1	0.0	22.1
<b>Street Side</b>	Lumens	26998.7	0.0	26998.7
	% Fixture	77.9	0.0	77.9
<b>Total</b>	Lumens	34640.0	0.0	34640.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	530.5	1.5
10°-20°	1676.8	4.8
20°-30°	2908.9	8.4
30°-40°	4229.4	12.2
40°-50°	5650.6	16.3
50°-60°	6882.9	19.9
60°-70°	7419.9	21.4
70°-80°	4810.6	13.9
80°-90°	530.6	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°	34640.0	100.0
0°-180°	34640.0	100.0

**Coefficient of Utilization**



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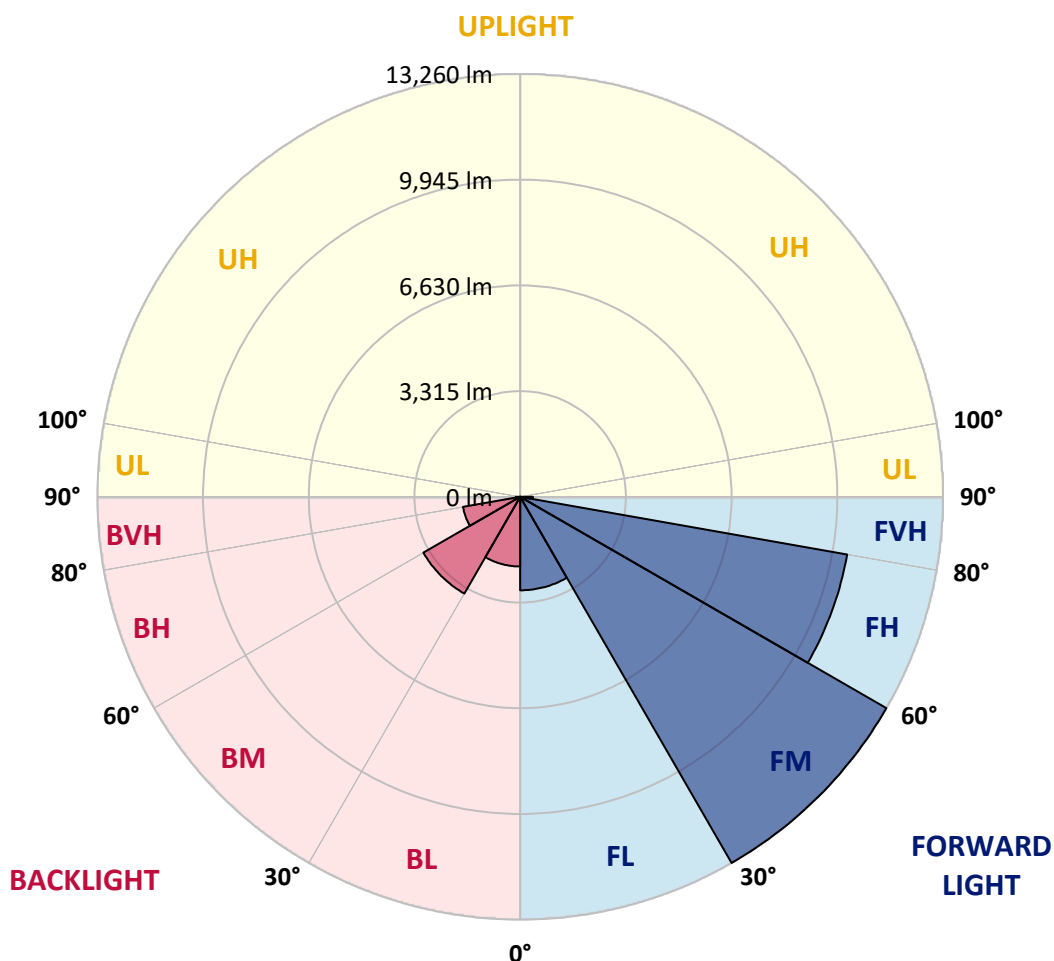
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2931.5	8.5			
FM	(30°-60°)	13259.6	38.3			
FH	(60°-80°)	10411.9	30.1			G4/12000
FVH	(80°-90°)	395.7	1.1			G3/500
BL	(0°-30°)	2184.6	6.3	B3/2500		
BM	(30°-60°)	3503.3	10.1	B3/5000		
BH	(60°-80°)	1818.5	5.2	B3/2500		G3/2500
BVH	(80°-90°)	134.9	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°	5288.5	5288.5	5288.5	5288.5	5288.5	5288.5	5288.5	5288.5	5288.5	5288.5	5288.5
2.5°	5210.4	5257.3	5232.3	5233.9	5269.8	5240.1	5260.4	5260.4	5258.9	5269.8	5302.6
5°	5338.5	5388.5	5358.8	5340.1	5347.9	5310.4	5302.6	5296.3	5291.7	5304.2	5358.8
7.5°	5525.9	5583.7	5550.9	5533.8	5524.4	5438.5	5422.9	5380.7	5376.0	5386.9	5436.9
10°	5774.3	5852.4	5813.3	5764.9	5732.1	5632.2	5552.5	5515.0	5504.1	5497.8	5549.4
12.5°	6132.0	6200.7	6155.4	6064.8	6021.1	5860.2	5764.9	5658.7	5657.1	5635.3	5674.3
15°	6470.9	6542.7	6484.9	6395.9	6338.1	6121.0	5980.5	5849.3	5833.6	5808.6	5821.1
17.5°	6798.9	6886.3	6845.7	6764.5	6694.2	6452.1	6267.8	6099.2	6082.0	6042.9	5985.1
20°	7206.5	7286.2	7275.3	7201.8	7123.8	6848.9	6647.4	6430.3	6411.5	6341.2	6211.6
22.5°	7614.2	7712.6	7651.7	7639.2	7595.4	7322.1	7041.0	6820.7	6802.0	6709.9	6472.4
25°	7998.4	8085.9	8107.7	8087.4	8092.1	7821.9	7542.3	7265.9	7247.1	7122.2	6778.6
27.5°	8452.9	8535.7	8541.9	8546.6	8601.3	8376.4	8048.4	7764.1	7751.6	7611.1	7175.3
30°	8801.2	8938.7	8966.8	8993.3	9021.4	8901.2	8602.9	8337.3	8312.3	8159.3	7622.0
32.5°	9119.8	9222.9	9322.9	9377.6	9504.1	9396.3	9151.1	8987.1	8988.6	8916.8	8334.2
35°	9366.6	9480.6	9607.1	9807.1	9991.4	9946.1	9869.5	9878.9	9880.5	9911.7	9294.8
37.5°	9602.5	9705.5	9864.9	10103.8	10428.7	10488.1	10539.6	10734.8	10803.6	10950.4	10181.9
40°	9744.6	9853.9	10060.1	10391.2	10812.9	11026.9	11183.1	11684.5	11803.2	11804.7	10867.6
42.5°	9536.9	9657.1	10025.7	10614.6	11159.7	11559.5	11970.3	12602.8	12688.7	12496.6	11453.3
45°	9351.0	9461.9	9858.6	10648.9	11431.4	12128.0	12699.7	13432.2	13494.7	13107.3	11993.7
47.5°	9171.4	9258.8	9718.0	10577.1	11709.4	12698.1	13321.3	14181.9	14227.2	13775.8	12521.6
50°	8923.0	9027.7	9515.0	10492.7	11876.6	13187.0	13930.4	14922.2	14916.0	14377.1	12999.6
52.5°	8651.3	8754.4	9277.6	10338.1	11985.9	13566.5	14623.9	15647.0	15651.6	15067.5	13472.8
55°	8309.2	8435.7	8987.1	10128.8	12012.4	13864.8	15225.2	16390.4	16466.9	15771.9	13928.9
57.5°	7900.0	8026.5	8629.4	9822.7	11854.7	14114.7	15867.2	17340.0	17380.6	16491.9	14269.4
60°	7423.6	7576.7	8153.0	9413.5	11553.3	14405.3	16645.0	18270.9	18285.0	17135.4	14553.6
62.5°	6872.3	6981.6	7587.6	8820.0	11072.2	14520.8	17288.5	19125.3	19128.4	17621.2	14681.7
65°	6275.6	6317.8	6825.4	8012.5	10370.9	14331.8	17535.3	19645.4	19631.3	18047.6	14617.7
67.5°	5565.0	5544.7	6086.7	7014.4	9483.8	13702.4	17415.0	19912.5	19954.6	18375.6	14411.5
70°	4524.8	4554.5	4985.5	5897.7	8051.5	12691.9	17083.9	20021.8	20010.9	18211.6	13747.7
72.5°	3434.6	3487.7	3800.1	4484.2	6249.1	10673.9	15665.7	18812.9	18834.8	17055.8	12552.9
75°	2124.2	2277.2	2541.2	2958.2	3915.6	7647.0	13333.8	16479.4	16590.3	15048.8	10336.5
77.5°	930.9	966.8	1099.6	1426.0	2047.6	3839.1	9857.0	13160.4	13488.4	12170.2	7456.4
80°	576.3	576.3	613.8	715.3	913.7	1427.6	3950.0	7857.8	7525.2	6961.3	3289.3
82.5°	479.5	479.5	498.2	515.4	468.6	604.4	1321.4	2202.3	2360.0	1910.2	1010.5
85°	260.8	267.1	268.6	273.3	268.6	326.4	520.1	651.3	659.1	596.6	359.2
87.5°	95.3	101.5	98.4	92.2	82.8	78.1	100.0	101.5	104.6	96.8	53.1
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°	5288.5	5288.5	5288.5	5288.5	5288.5	5288.5	5288.5	5288.5	5288.5	5288.5	5288.5
2.5°	5324.5	5346.3	5404.1	5408.8	5430.7	5438.5	5457.2	5483.8	5530.6	5507.2	5480.7
5°	5385.4	5413.5	5505.6	5552.5	5613.4	5649.3	5708.7	5738.4	5810.2	5786.8	5783.7
7.5°	5477.5	5536.9	5619.7	5665.0	5744.6	5768.0	5811.8	5811.8	5871.1	5841.4	5833.6
10°	5602.5	5641.5	5729.0	5732.1	5777.4	5777.4	5829.0	5796.2	5853.9	5819.6	5818.0
12.5°	5702.4	5724.3	5757.1	5730.6	5754.0	5727.4	5754.0	5714.9	5750.9	5707.1	5697.8
15°	5814.9	5785.2	5752.4	5689.9	5669.6	5627.5	5605.6	5565.0	5568.1	5518.1	5510.3
17.5°	5941.4	5864.9	5769.6	5633.7	5558.7	5451.0	5405.7	5347.9	5315.1	5269.8	5290.1
20°	6094.5	5980.5	5782.1	5571.2	5411.9	5247.9	5141.7	5048.0	5040.2	4999.6	4977.7
22.5°	6292.8	6110.1	5836.8	5482.2	5226.1	4991.8	4834.0	4677.8	4662.2	4579.4	4548.2
25°	6538.0	6281.9	5864.9	5413.5	5009.0	4687.2	4438.9	4221.8	4117.1	4029.7	4009.4
27.5°	6867.6	6534.9	5921.1	5290.1	4752.8	4309.2	3953.1	3665.7	3540.8	3497.1	3451.8
30°	7253.4	6844.2	6025.7	5187.0	4449.8	3826.6	3392.4	3050.4	2914.5	2845.8	2823.9
32.5°	7821.9	7234.6	6122.6	5016.8	4082.8	3295.6	2730.2	2352.2	2269.4	2256.9	2286.6
35°	8649.7	7968.7	6263.2	4859.0	3651.7	2705.2	2080.4	1833.7	1816.5	1819.6	1819.6
37.5°	9511.9	8668.5	6680.2	4626.3	3123.8	2036.7	1583.8	1449.4	1455.7	1455.7	1454.1
40°	10074.2	9230.7	6983.2	4296.7	2467.8	1460.4	1174.5	1073.0	1116.7	1176.1	1207.3
42.5°	10694.2	9741.5	7192.5	3917.2	1716.5	1032.4	854.4	890.3	1018.3	1108.9	1121.4
45°	11222.1	10175.7	7215.9	3326.8	1105.8	784.1	779.4	882.5	1030.8	1129.2	1137.1
47.5°	11675.1	10570.8	7069.1	2652.1	805.9	732.5	779.4	909.0	1043.3	1104.3	1110.5
50°	12114.0	10884.8	6723.9	2038.3	734.1	713.8	788.8	913.7	998.0	1040.2	1034.0
52.5°	12504.4	11170.6	6224.1	1590.0	706.0	701.3	796.6	909.0	962.1	959.0	954.3
55°	12801.2	11254.9	5833.6	1240.1	682.5	693.5	801.2	913.7	952.7	924.6	918.4
57.5°	12954.3	11150.3	5505.6	985.5	657.6	685.7	813.7	912.1	980.9	1034.0	1030.8
60°	12951.1	11031.6	5101.1	849.7	632.6	679.4	834.0	990.2	1238.6	1288.6	1290.1
62.5°	12901.2	10828.5	4546.6	768.4	604.4	682.5	848.1	1124.6	1410.4	1369.8	1337.0
65°	12735.6	10447.4	3803.2	681.0	568.5	685.7	841.9	1216.7	1293.2	1148.0	1127.7
67.5°	12274.8	9710.2	2986.3	609.1	535.7	668.5	852.8	1130.8	1188.6	1096.4	1066.8
70°	11339.3	8671.6	2024.2	524.8	498.2	643.5	827.8	1112.1	1173.0	1079.3	1035.5
72.5°	9857.0	6959.8	1183.9	451.4	443.6	592.0	815.3	1124.6	1191.7	1087.1	1030.8
75°	7672.0	4879.3	684.1	365.5	370.2	546.7	748.1	1060.5	1180.8	1099.6	1026.2
77.5°	4952.7	2369.4	482.6	292.1	288.9	431.1	607.6	927.8	1137.1	1110.5	1049.6
80°	1772.7	865.3	338.9	217.1	210.9	292.1	467.0	746.6	962.1	996.5	996.5
82.5°	637.2	434.2	217.1	132.8	131.2	185.9	348.3	567.0	698.2	787.2	809.1
85°	267.1	189.0	106.2	67.2	54.7	71.8	179.6	351.4	473.3	509.2	554.5
87.5°	39.0	34.4	28.1	21.9	18.7	18.7	23.4	101.5	168.7	242.1	299.9
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)