

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: P510271

Luminaire Tested: **VERD-M-CA4-240-730-U-T3**

Issue Date: 4/6/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P510271  
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-CA4-240-730-U-T3  
Description: VERDEON-M ROADWAY AND AREA LUMINAIRE  
(4) 70 CRI, 3000K, 1090mA LEDS AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 32908 lumens  
Efficiency: N/A  
Efficacy: 135.8 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

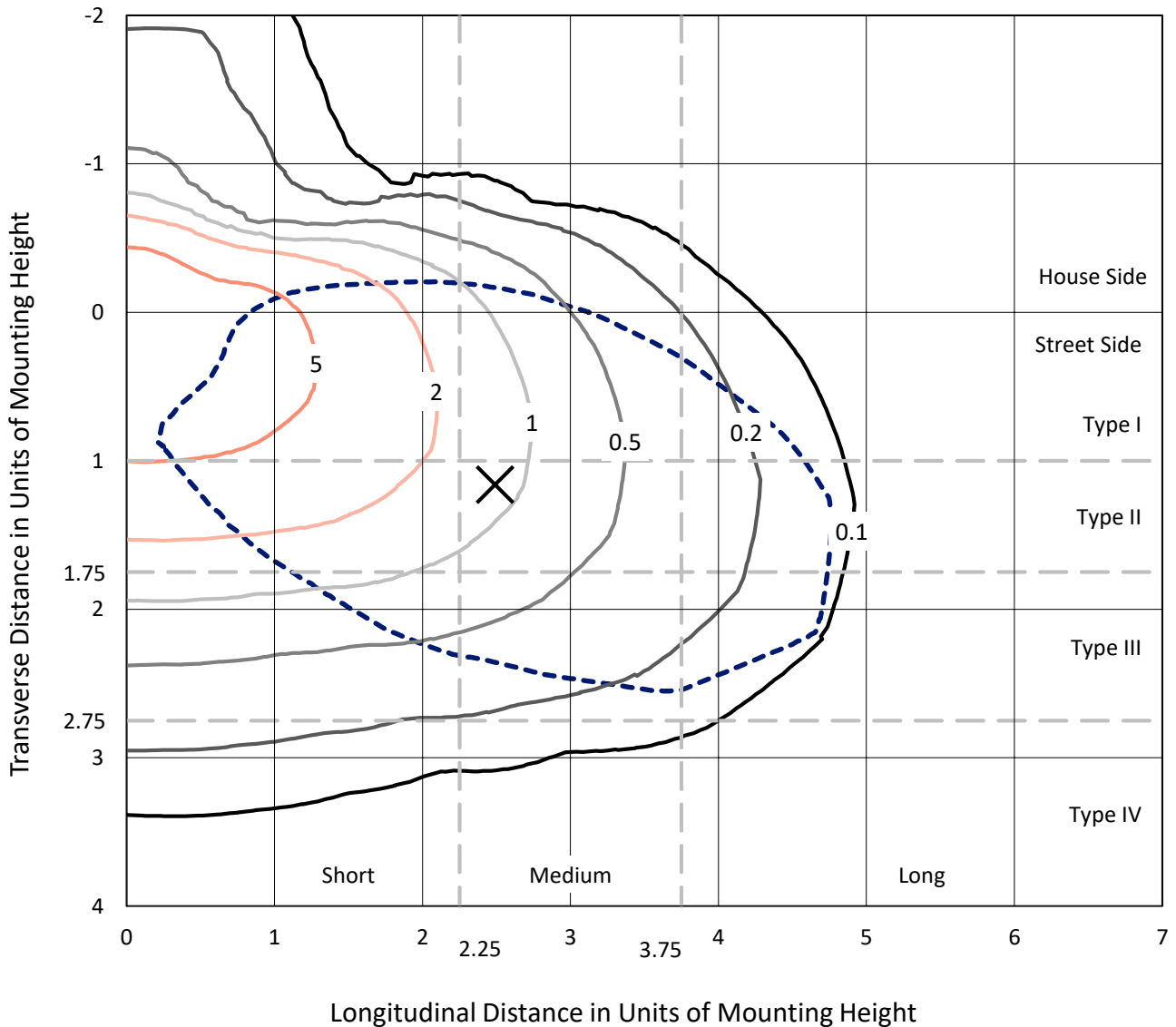
Input Watts (W): 242.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P510271  
 CATALOG NUMBER: VERD-M-CA4-240-730-U-T3

### Iso-Footcandle Lines of Horizontal Illumination

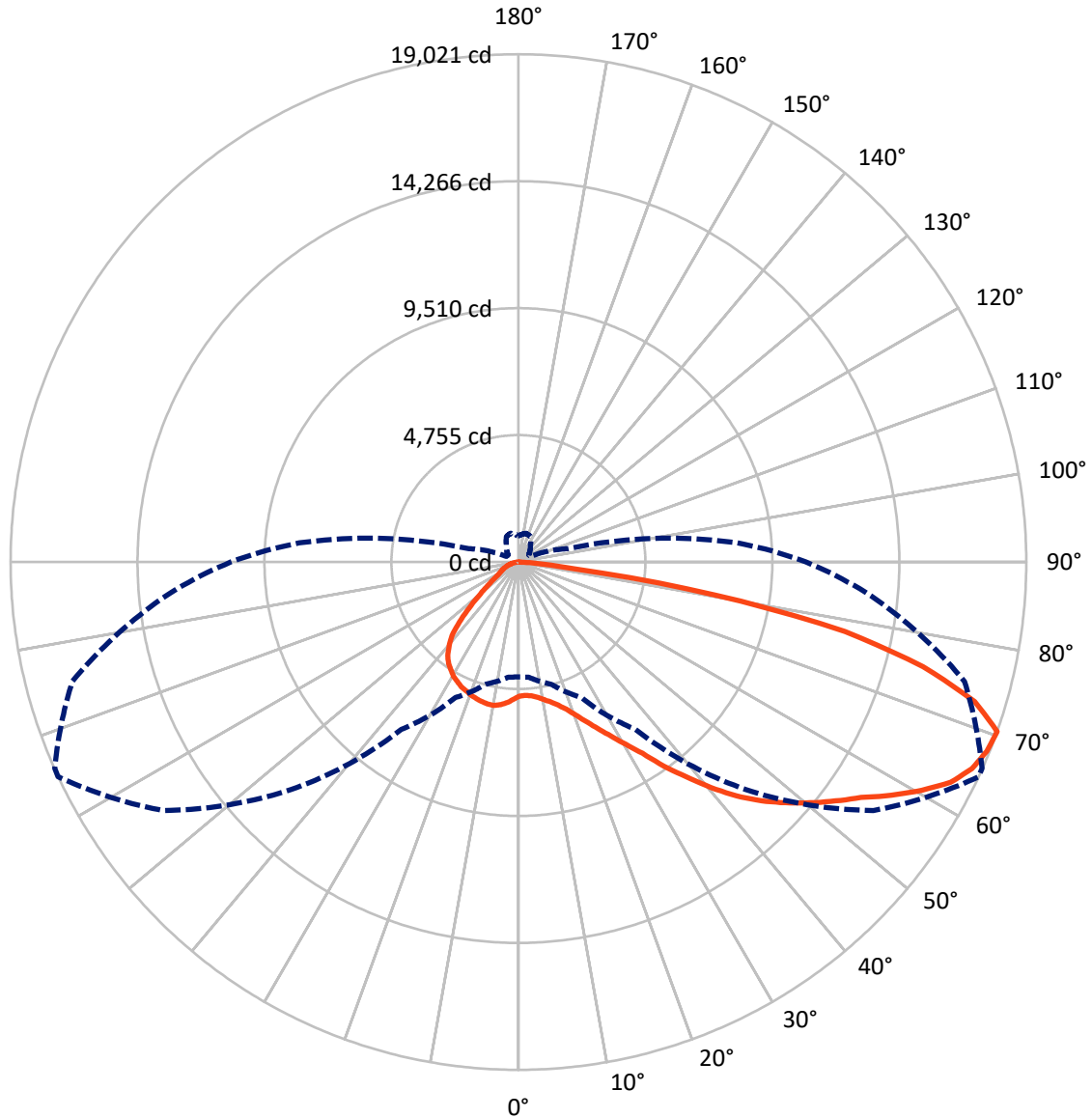
✕ Max cd  
 - - - 1/2 Max cd



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

REPORT NUMBER: P510271  
CATALOG NUMBER: VERD-M-CA4-240-730-U-T3

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P510271

CATALOG NUMBER: VERD-M-CA4-240-730-U-T3

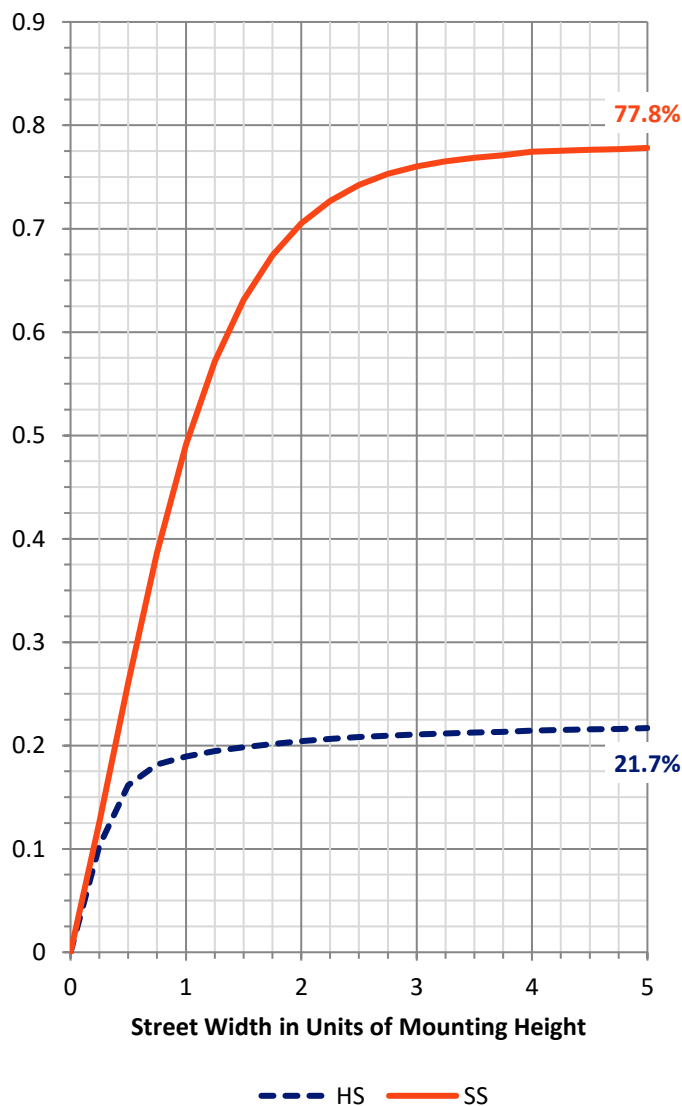
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	7259.2	0.0	7259.2
	% Fixture	22.1	0.0	22.1
<b>Street Side</b>	Lumens	25648.8	0.0	25648.8
	% Fixture	77.9	0.0	77.9
<b>Total</b>	Lumens	32908.0	0.0	32908.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	504.0	1.5
10°-20°	1592.9	4.8
20°-30°	2763.4	8.4
30°-40°	4017.9	12.2
40°-50°	5368.0	16.3
50°-60°	6538.7	19.9
60°-70°	7048.9	21.4
70°-80°	4570.0	13.9
80°-90°	504.0	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°	32908.0	100.0
0°-180°	32908.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P510271

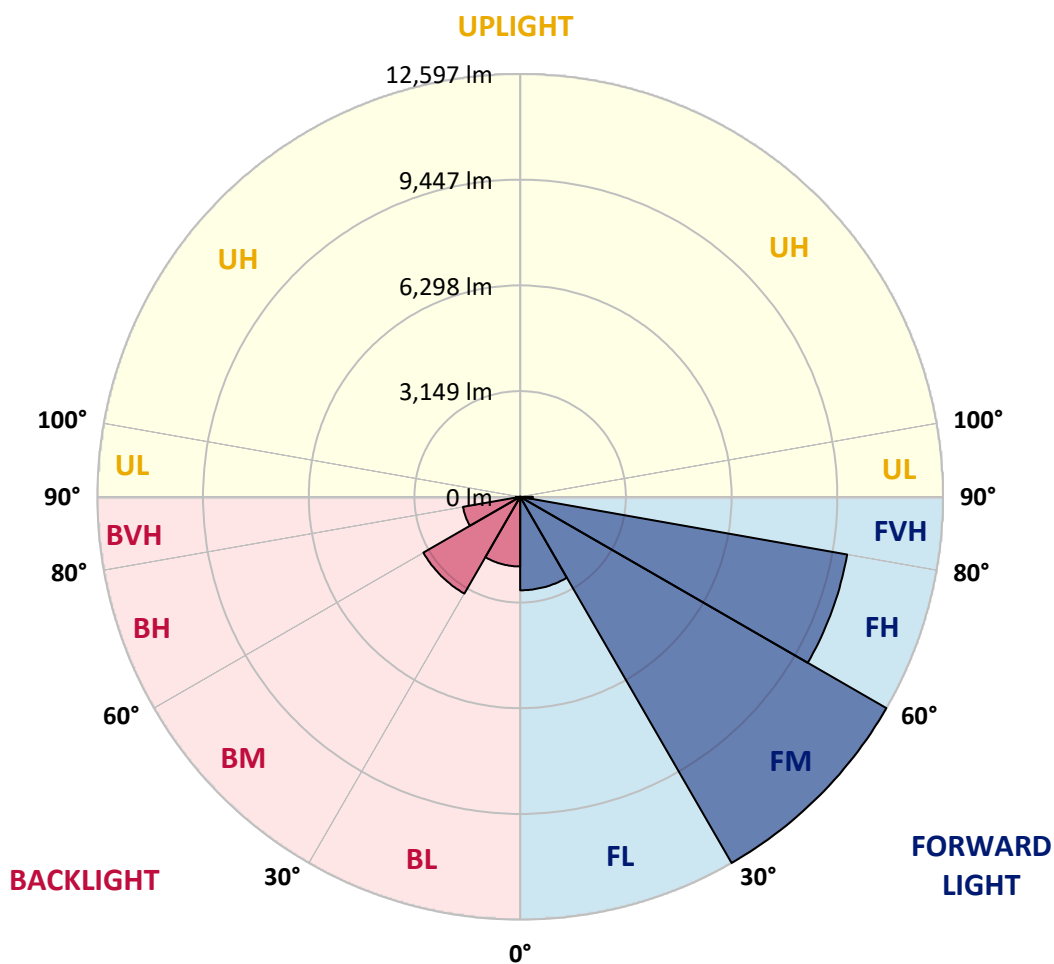
CATALOG NUMBER: VERD-M-CA4-240-730-U-T3

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

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2785.0	8.5			
FM	(30°-60°)	12596.6	38.3			
FH	(60°-80°)	9891.4	30.1			G4/12000
FVH	(80°-90°)	375.9	1.1			G3/500
BL	(0°-30°)	2075.4	6.3	B3/2500		
BM	(30°-60°)	3328.1	10.1	B3/5000		
BH	(60°-80°)	1727.6	5.2	B3/2500		G3/2500
BVH	(80°-90°)	128.1	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





REPORT NUMBER: P510271

CATALOG NUMBER: VERD-M-CA4-240-730-U-T3

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	5024.1	5024.1	5024.1	5024.1	5024.1	5024.1	5024.1	5024.1	5024.1	5024.1	5024.1
2.5°	4949.9	4994.4	4970.7	4972.2	5006.3	4978.1	4997.4	4997.4	4995.9	5006.3	5037.5
5°	5071.6	5119.1	5090.9	5073.1	5080.5	5044.9	5037.5	5031.5	5027.1	5038.9	5090.9
7.5°	5249.6	5304.5	5273.4	5257.1	5248.2	5166.6	5151.7	5111.7	5107.2	5117.6	5165.1
10°	5485.6	5559.8	5522.7	5476.7	5445.5	5350.5	5274.9	5239.3	5228.9	5222.9	5271.9
12.5°	5825.4	5890.6	5847.6	5761.6	5720.0	5567.2	5476.7	5375.8	5374.3	5353.5	5390.6
15°	6147.3	6215.6	6160.7	6076.1	6021.2	5815.0	5681.4	5556.8	5542.0	5518.2	5530.1
17.5°	6458.9	6542.0	6503.5	6426.3	6359.5	6129.5	5954.4	5794.2	5777.9	5740.8	5685.9
20°	6846.2	6921.9	6911.5	6841.8	6767.6	6506.4	6315.0	6108.8	6091.0	6024.2	5901.0
22.5°	7233.5	7327.0	7269.1	7257.2	7215.7	6956.0	6688.9	6479.7	6461.9	6374.4	6148.8
25°	7598.5	7681.6	7702.4	7683.1	7687.5	7430.8	7165.2	6902.6	6884.8	6766.1	6439.6
27.5°	8030.3	8108.9	8114.8	8119.3	8171.2	7957.6	7646.0	7375.9	7364.0	7230.5	6816.5
30°	8361.2	8491.7	8518.4	8543.7	8570.4	8456.1	8172.7	7920.5	7896.7	7751.3	7240.9
32.5°	8663.8	8761.8	8856.7	8908.7	9028.9	8926.5	8693.5	8537.7	8539.2	8471.0	7917.5
35°	8898.3	9006.6	9126.8	9316.7	9491.8	9448.8	9376.1	9385.0	9386.5	9416.1	8830.0
37.5°	9122.3	9220.3	9371.6	9598.6	9907.3	9963.6	10012.6	10198.1	10263.4	10402.8	9672.8
40°	9257.4	9361.2	9557.1	9871.7	10272.3	10475.6	10623.9	11100.2	11213.0	11214.5	10324.2
42.5°	9060.0	9174.3	9524.4	10083.8	10601.7	10981.5	11371.8	11972.7	12054.3	11871.8	10880.6
45°	8883.4	8988.8	9365.7	10116.5	10859.9	11521.6	12064.7	12760.6	12819.9	12452.0	11394.0
47.5°	8712.8	8795.9	9232.1	10048.2	11124.0	12063.2	12655.2	13472.8	13515.8	13087.0	11895.5
50°	8476.9	8576.3	9039.2	9968.1	11282.7	12527.6	13233.9	14176.1	14170.2	13658.3	12349.6
52.5°	8218.7	8316.6	8813.7	9821.2	11386.6	12888.2	13892.7	14864.6	14869.1	14314.1	12799.2
55°	7893.8	8013.9	8537.7	9622.4	11411.8	13171.6	14464.0	15570.9	15643.6	14983.3	13232.4
57.5°	7505.0	7625.2	8197.9	9331.6	11262.0	13409.0	15073.8	16473.0	16511.6	15667.3	13555.9
60°	7052.5	7197.9	7745.4	8942.8	10975.6	13685.0	15812.7	17357.4	17370.7	16278.7	13826.0
62.5°	6528.7	6632.5	7208.3	8379.0	10518.6	13794.8	16424.1	18169.0	18172.0	16740.1	13947.6
65°	5961.9	6001.9	6484.2	7611.8	9852.4	13615.3	16658.5	18663.1	18649.8	17145.2	13886.8
67.5°	5286.7	5267.5	5782.3	6663.7	9009.6	13017.3	16544.3	18916.8	18956.9	17456.8	13690.9
70°	4298.5	4326.7	4736.3	5602.8	7648.9	12057.3	16229.7	19020.7	19010.3	17301.0	13060.3
72.5°	3262.9	3313.3	3610.1	4260.0	5936.6	10140.2	14882.4	17872.2	17893.0	16203.0	11925.2
75°	2018.0	2163.4	2414.1	2810.3	3719.9	7264.6	12667.1	15655.5	15760.8	14296.3	9819.7
77.5°	884.3	918.5	1044.6	1354.7	1945.2	3647.2	9364.2	12502.4	12814.0	11561.7	7083.6
80°	547.5	547.5	583.1	679.6	868.0	1356.2	3752.5	7464.9	7148.9	6613.3	3124.9
82.5°	455.5	455.5	473.3	489.7	445.1	574.2	1255.3	2092.1	2242.0	1814.7	960.0
85°	247.8	253.7	255.2	259.7	255.2	310.1	494.1	618.7	626.2	566.8	341.3
87.5°	90.5	96.4	93.5	87.5	78.6	74.2	95.0	96.4	99.4	92.0	50.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P510271

CATALOG NUMBER: VERD-M-CA4-240-730-U-T3

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5024.1	5024.1	5024.1	5024.1	5024.1	5024.1	5024.1	5024.1	5024.1	5024.1	5024.1
2.5°	5058.2	5079.0	5133.9	5138.4	5159.1	5166.6	5184.4	5209.6	5254.1	5231.8	5206.6
5°	5116.1	5142.8	5230.4	5274.9	5332.7	5366.9	5423.3	5451.4	5519.7	5497.4	5494.5
7.5°	5203.7	5260.0	5338.7	5381.7	5457.4	5479.6	5521.2	5521.2	5577.6	5549.4	5542.0
10°	5322.4	5359.4	5442.5	5445.5	5488.5	5488.5	5537.5	5506.3	5561.2	5528.6	5527.1
12.5°	5417.3	5438.1	5469.2	5444.0	5466.3	5441.1	5466.3	5429.2	5463.3	5421.8	5412.9
15°	5524.1	5496.0	5464.8	5405.4	5386.2	5346.1	5325.3	5286.7	5289.7	5242.2	5234.8
17.5°	5644.3	5571.6	5481.1	5352.0	5280.8	5178.4	5135.4	5080.5	5049.3	5006.3	5025.6
20°	5789.7	5681.4	5493.0	5292.7	5141.3	4985.5	4884.6	4795.6	4788.2	4749.6	4728.8
22.5°	5978.2	5804.6	5544.9	5208.1	4964.8	4742.2	4592.3	4444.0	4429.1	4350.5	4320.8
25°	6211.1	5967.8	5571.6	5142.8	4758.5	4452.9	4216.9	4010.7	3911.3	3828.2	3808.9
27.5°	6524.2	6208.2	5625.0	5025.6	4515.2	4093.8	3755.5	3482.5	3363.8	3322.2	3279.2
30°	6890.7	6502.0	5724.5	4927.7	4227.3	3635.3	3222.8	2897.8	2768.8	2703.5	2682.7
32.5°	7430.8	6872.9	5816.5	4765.9	3878.6	3130.8	2593.7	2234.6	2155.9	2144.1	2172.3
35°	8217.2	7570.3	5950.0	4616.1	3469.1	2569.9	1976.4	1742.0	1725.6	1728.6	1728.6
37.5°	9036.3	8235.0	6346.2	4395.0	2967.6	1934.9	1504.6	1377.0	1382.9	1382.9	1381.4
40°	9570.4	8769.2	6634.0	4081.9	2344.4	1387.3	1115.8	1019.4	1060.9	1117.3	1147.0
42.5°	10159.5	9254.4	6832.9	3721.3	1630.7	980.8	811.6	845.8	967.4	1053.5	1065.4
45°	10661.0	9666.9	6855.1	3160.5	1050.5	744.9	740.4	838.3	979.3	1072.8	1080.2
47.5°	11091.3	10042.3	6715.6	2519.5	765.6	695.9	740.4	863.6	991.2	1049.0	1055.0
50°	11508.3	10340.5	6387.7	1936.3	697.4	678.1	749.3	868.0	948.1	988.2	982.3
52.5°	11879.2	10612.1	5912.9	1510.5	670.7	666.2	756.7	863.6	914.0	911.0	906.6
55°	12161.1	10692.2	5542.0	1178.1	648.4	658.8	761.2	868.0	905.1	878.4	872.5
57.5°	12306.6	10592.8	5230.4	936.3	624.7	651.4	773.1	866.5	931.8	982.3	979.3
60°	12303.6	10480.0	4846.1	807.2	600.9	645.4	792.3	940.7	1176.6	1224.1	1225.6
62.5°	12256.1	10287.1	4319.3	730.0	574.2	648.4	805.7	1068.3	1339.9	1301.3	1270.1
65°	12098.8	9925.1	3613.0	646.9	540.1	651.4	799.8	1155.9	1228.6	1090.6	1071.3
67.5°	11661.1	9224.7	2837.0	578.7	508.9	635.1	810.1	1074.3	1129.2	1041.6	1013.4
70°	10772.3	8238.0	1923.0	498.6	473.3	611.3	786.4	1056.5	1114.3	1025.3	983.8
72.5°	9364.2	6611.8	1124.7	428.8	421.4	562.4	774.5	1068.3	1132.1	1032.7	979.3
75°	7288.4	4635.4	649.9	347.2	351.7	519.3	710.7	1007.5	1121.7	1044.6	974.8
77.5°	4705.1	2250.9	458.5	277.5	274.5	409.5	577.2	881.4	1080.2	1055.0	997.1
80°	1684.1	822.0	322.0	206.2	200.3	277.5	443.7	709.3	914.0	946.7	946.7
82.5°	605.4	412.5	206.2	126.1	124.6	176.6	330.9	538.6	663.3	747.8	768.6
85°	253.7	179.5	100.9	63.8	51.9	68.3	170.6	333.9	449.6	483.7	526.7
87.5°	37.1	32.6	26.7	20.8	17.8	17.8	22.3	96.4	160.2	230.0	284.9
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)