

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: P509949

Luminaire Tested: **VERD-M-CA3-170-750-U-T2**

Issue Date: 4/6/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P509949  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2103-181-2)  
Test Lab: INNOVATION CENTER  
Issue Date: 4/6/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: VERD-M-CA3-170-750-U-T2  
Description: VERDEON-M ROADWAY AND AREA LUMINAIRE  
(3) 70 CRI, 5000K, 1060mA LEDS AND TYPE II OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 24880 lumens  
Efficiency: N/A  
Efficacy: 144.0 lumens/watt  
Luminous Opening: Rectangular (W 1.35' x L: 1.58' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3

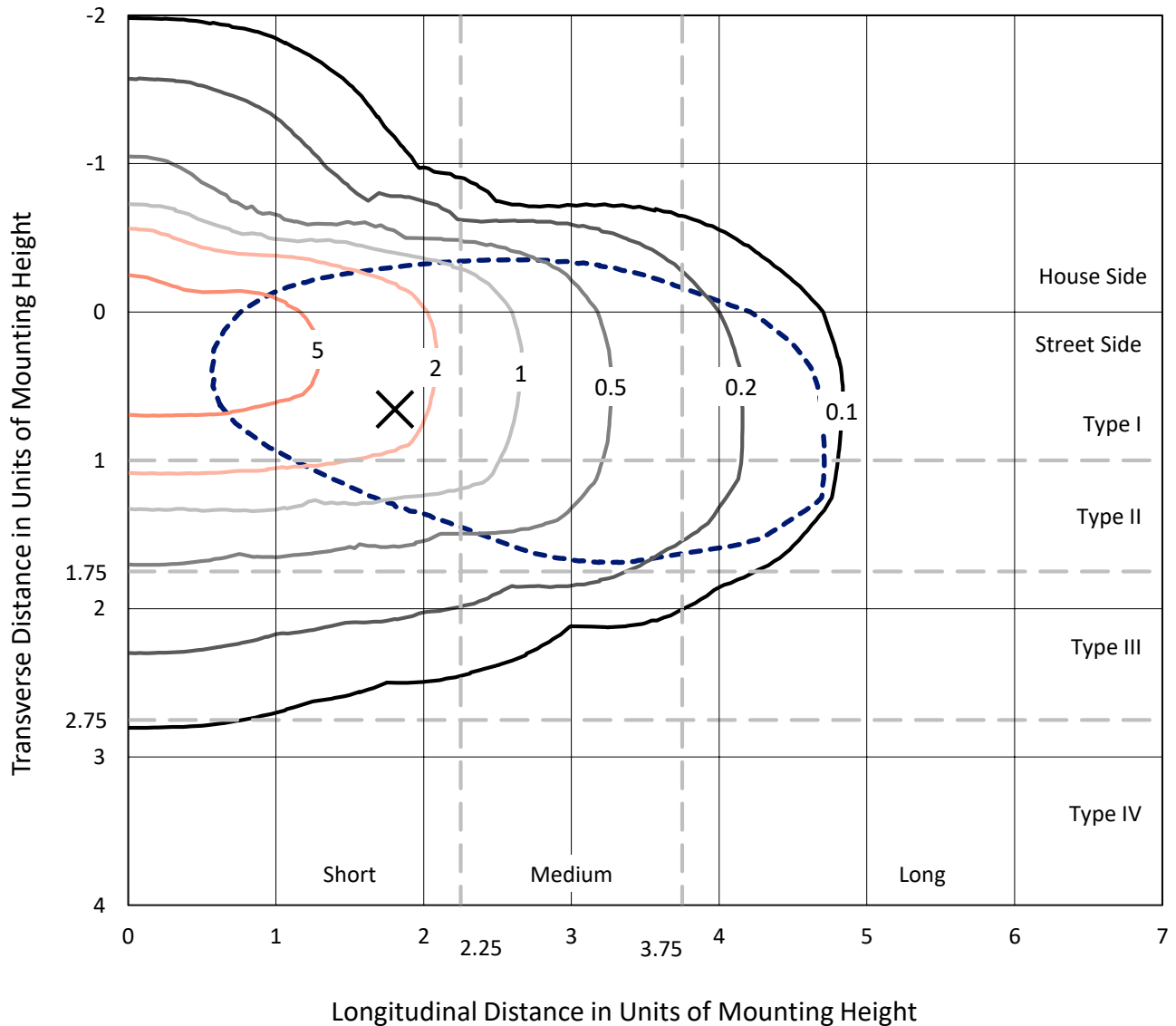
Input Watts (W): 172.8  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

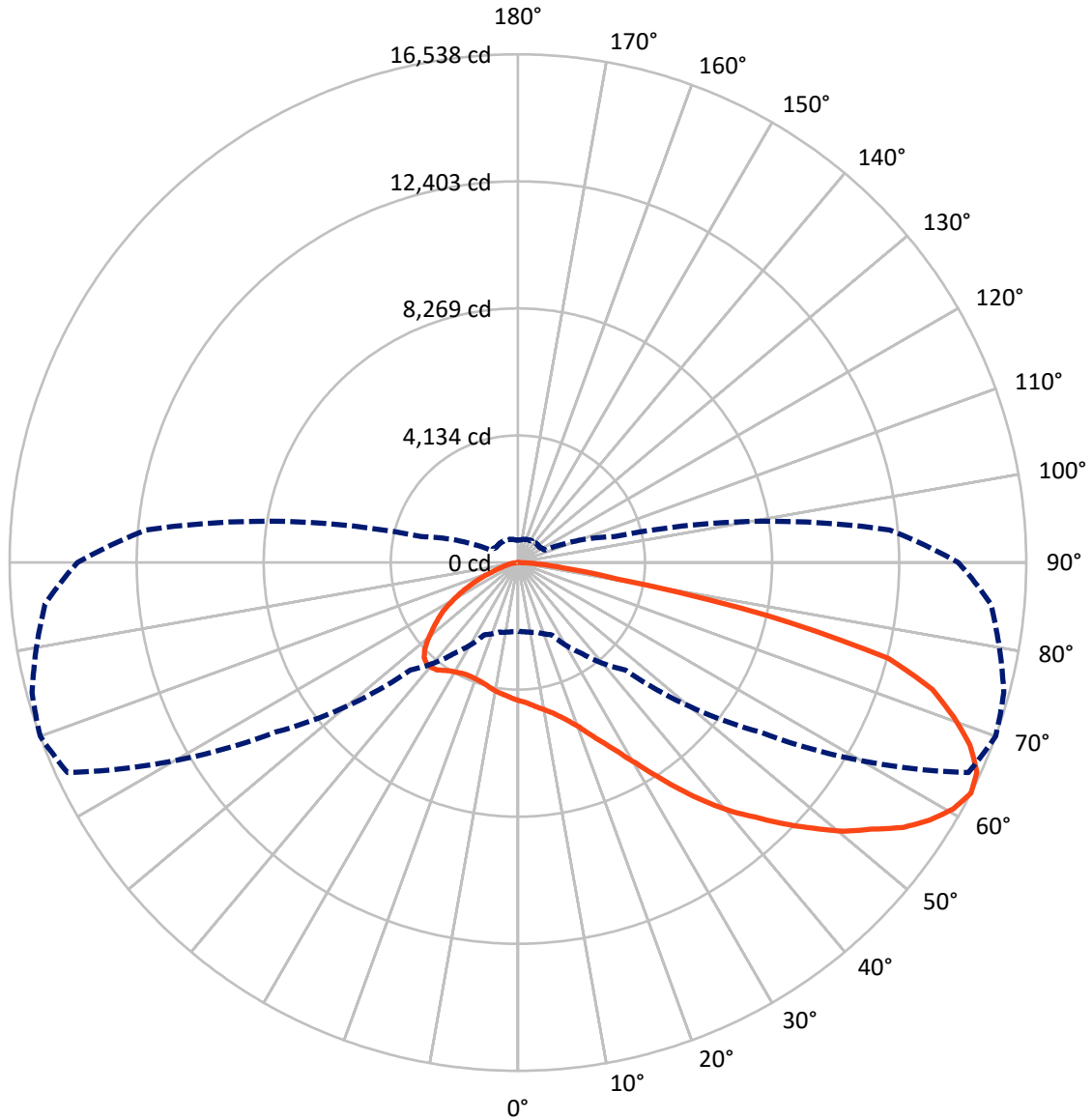
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.2 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 70-Deg Lateral    - - - Horizontal Cone Through 62.5-Deg Vertical

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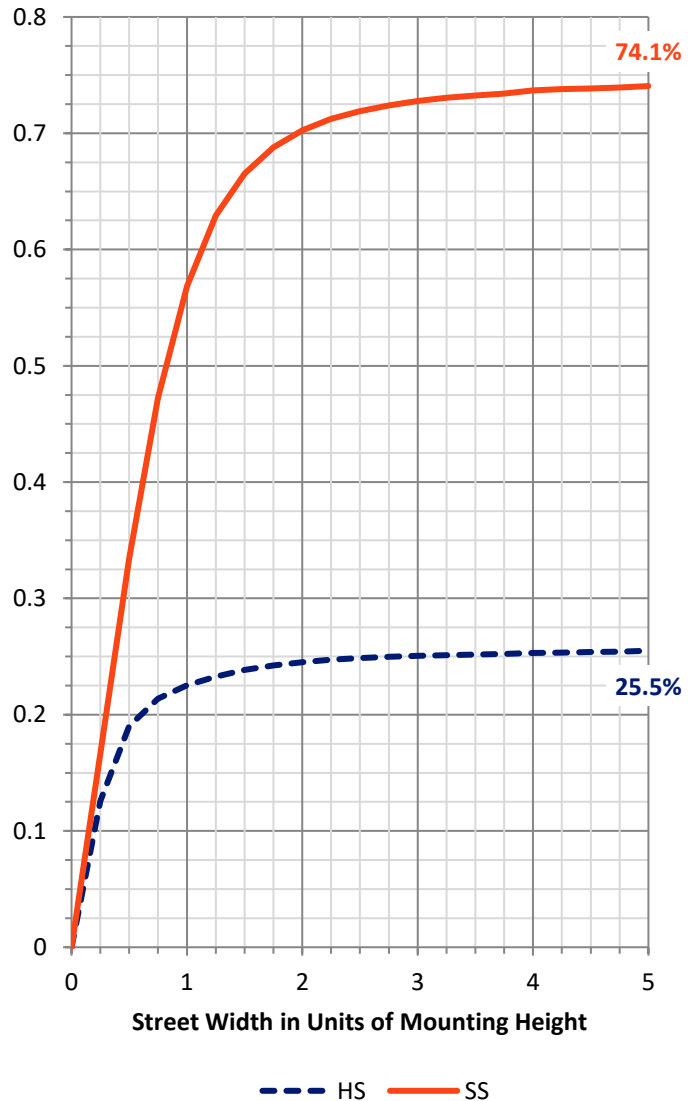
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6441.6	0.0	6441.6
	% Fixture	25.9	0.0	25.9
<b>Street Side</b>	Lumens	18438.4	0.0	18438.4
	% Fixture	74.1	0.0	74.1
<b>Total</b>	Lumens	24880.0	0.0	24880.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	431.3	1.7
10°-20°	1309.8	5.3
20°-30°	2223.0	8.9
30°-40°	3216.5	12.9
40°-50°	4220.9	17.0
50°-60°	4932.0	19.8
60°-70°	4949.4	19.9
70°-80°	3153.8	12.7
80°-90°	443.2	1.8
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°	24880.0	100.0
0°-180°	24880.0	100.0

**Coefficient of Utilization**



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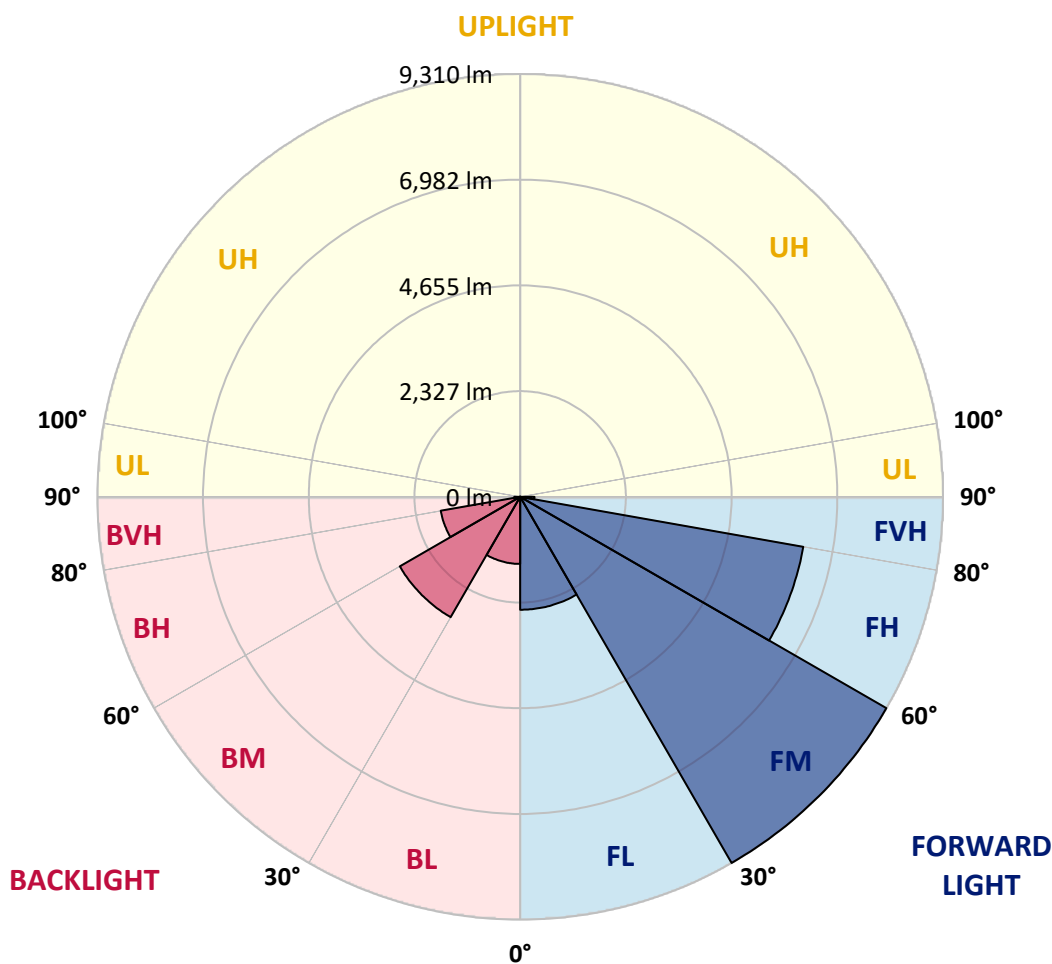
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2486.8	10.0			
FM (30°-60°)	9309.8	37.4			
FH (60°-80°)	6329.2	25.4			G3/7500
FVH (80°-90°)	312.6	1.3			G3/500
BL (0°-30°)	1477.4	5.9	B3/2500		
BM (30°-60°)	3059.6	12.3	B3/5000		
BH (60°-80°)	1774.1	7.1	B3/2500		G3/2500
BVH (80°-90°)	130.6	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G3**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	4490.5	4490.5	4490.5	4490.5	4490.5	4490.5	4490.5	4490.5	4490.5	4490.5	4490.5
2.5°	4662.5	4712.0	4705.2	4674.9	4696.2	4637.8	4616.4	4583.8	4550.1	4538.8	4519.7
5°	4882.9	4948.1	4935.7	4895.2	4894.1	4810.9	4763.7	4701.9	4650.1	4609.7	4550.1
7.5°	5088.6	5164.0	5152.7	5113.4	5111.1	5015.5	4917.7	4821.0	4761.5	4709.7	4600.7
10°	5306.7	5364.1	5354.0	5303.4	5293.3	5199.9	5085.3	4963.8	4876.1	4804.2	4649.0
12.5°	5508.0	5568.7	5573.2	5510.2	5494.5	5394.4	5294.4	5133.6	5020.0	4938.0	4709.7
15°	5695.8	5767.7	5754.2	5691.3	5674.4	5573.2	5475.4	5327.0	5208.9	5094.3	4808.7
17.5°	5846.4	5915.0	5898.1	5870.0	5861.0	5782.3	5701.4	5540.6	5436.0	5288.8	4961.6
20°	5949.9	6013.9	6020.7	6012.8	6064.5	5990.3	5945.4	5831.8	5717.1	5584.5	5170.7
22.5°	5990.3	6066.8	6132.0	6182.6	6289.4	6278.2	6270.3	6205.1	6092.6	5899.3	5447.3
25°	6002.7	6079.1	6180.3	6305.1	6496.3	6564.8	6614.3	6630.1	6507.5	6354.6	5791.3
27.5°	6004.9	6087.0	6190.5	6391.7	6682.9	6889.8	7007.8	7062.9	6994.3	6872.9	6259.0
30°	5957.7	6042.0	6174.7	6443.4	6829.1	7168.6	7364.2	7608.2	7579.0	7476.7	6844.8
32.5°	5821.7	5898.1	6081.4	6434.4	6974.1	7454.2	7758.9	8181.6	8280.5	8214.2	7520.5
35°	5577.7	5671.0	5908.3	6360.2	7052.8	7731.9	8223.2	8880.9	9059.7	9064.2	8349.1
37.5°	5331.5	5402.3	5681.1	6220.8	7096.6	7978.1	8663.9	9581.4	9841.1	9846.7	9038.3
40°	5069.5	5134.7	5441.7	6034.2	7051.7	8171.5	9074.3	10254.8	10627.0	10592.1	9715.2
42.5°	4730.0	4801.9	5106.6	5780.1	6939.2	8321.0	9491.4	10962.0	11319.6	11358.9	10421.2
45°	4439.9	4497.2	4763.7	5383.2	6733.5	8402.0	9882.7	11716.4	12125.7	12084.1	11174.5
47.5°	4082.4	4167.8	4452.3	5060.5	6363.6	8381.7	10257.1	12463.0	12918.3	12880.1	11827.7
50°	3149.2	3248.1	3909.2	4722.1	5891.4	8223.2	10596.6	13176.9	13742.4	13642.4	12519.2
52.5°	2860.2	2888.4	3151.4	4333.1	5425.9	7863.4	10846.2	14078.6	14413.7	14374.3	13219.6
55°	2683.7	2737.7	2858.0	3569.7	5007.7	7278.8	11019.4	14831.9	15209.7	15025.3	13853.8
57.5°	2528.6	2566.8	2709.6	3055.9	4526.5	6473.8	10968.8	15467.1	15804.4	15547.0	14473.3
60°	2363.3	2388.0	2530.8	2789.4	4007.0	5584.5	10455.0	16122.6	16272.1	16036.0	14997.2
62.5°	2235.1	2258.7	2344.2	2592.7	3602.3	4948.1	9614.0	16168.7	16537.5	16365.5	15442.4
65°	2071.0	2086.7	2193.5	2389.2	3226.8	4569.2	8873.1	15735.9	16409.3	16366.6	15613.3
67.5°	1890.0	1909.1	2010.3	2148.6	2746.7	4122.8	7634.1	15502.0	15867.4	15909.0	15292.9
70°	1677.5	1691.0	1795.5	1895.6	2349.8	3619.2	6069.0	14605.9	15032.0	15030.9	14303.5
72.5°	1448.1	1447.0	1550.4	1656.1	1968.7	3040.1	4751.3	12967.8	14095.5	14011.2	12895.8
75°	1194.0	1210.9	1310.9	1394.1	1638.1	2464.5	3308.8	9393.6	12443.9	12559.7	11129.6
77.5°	763.4	774.7	830.9	916.3	1145.7	1883.2	2158.7	5220.2	8308.7	10022.1	8760.6
80°	557.7	563.3	612.7	662.2	762.3	1146.8	1097.3	2268.9	3293.1	4920.0	5374.2
82.5°	380.0	381.1	420.5	431.7	437.4	517.2	520.6	1104.1	1568.4	1847.2	2373.4
85°	251.8	209.1	163.0	215.9	221.5	190.0	185.5	498.1	778.0	933.2	879.2
87.5°	56.2	55.1	64.1	65.2	63.0	54.0	45.0	76.5	116.9	115.8	148.4
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°	4490.5	4490.5	4490.5	4490.5	4490.5	4490.5	4490.5	4490.5	4490.5	4490.5	4490.5
2.5°	4501.7	4496.1	4464.6	4398.3	4353.3	4307.2	4281.4	4265.6	4271.3	4245.4	4234.2
5°	4513.0	4484.9	4396.1	4317.4	4246.5	4166.7	4100.4	4091.4	4104.9	4081.2	4067.8
7.5°	4542.2	4482.6	4369.1	4234.2	4116.1	4040.8	3945.2	3896.9	3893.5	3869.9	3874.4
10°	4559.1	4481.5	4329.7	4166.7	4028.4	3894.6	3792.3	3738.3	3735.0	3701.2	3693.4
12.5°	4605.2	4493.9	4283.6	4084.6	3930.6	3751.8	3643.9	3594.4	3588.8	3541.6	3523.6
15°	4676.0	4522.0	4235.3	3989.1	3790.1	3622.5	3493.2	3426.9	3416.8	3361.7	3342.6
17.5°	4788.4	4601.8	4220.7	3902.5	3667.5	3484.2	3332.5	3260.5	3202.0	3171.7	3145.8
20°	4940.2	4700.7	4237.5	3821.5	3513.5	3302.1	3113.2	3018.8	2978.3	2928.8	2932.2
22.5°	5156.1	4855.9	4266.8	3758.6	3374.1	3107.6	2895.1	2789.4	2716.3	2674.7	2677.0
25°	5459.7	5089.8	4324.1	3699.0	3222.3	2895.1	2644.4	2497.1	2422.9	2395.9	2367.8
27.5°	5843.0	5369.7	4460.1	3625.9	3042.4	2654.5	2376.8	2204.8	2129.4	2089.0	2083.3
30°	6335.5	5737.4	4619.8	3571.9	2853.5	2354.3	2045.1	1909.1	1842.7	1785.4	1758.4
32.5°	6935.9	6256.8	4797.4	3518.0	2619.6	2018.1	1738.2	1633.6	1527.9	1454.9	1458.2
35°	7632.9	6822.3	5061.6	3449.4	2345.3	1704.5	1511.1	1376.2	1277.2	1228.9	1206.4
37.5°	8290.7	7402.5	5372.0	3379.7	2038.4	1501.0	1287.3	1162.5	1086.1	1049.0	1056.9
40°	8956.3	8000.6	5639.5	3208.8	1694.3	1316.6	1065.8	995.0	964.7	935.4	938.8
42.5°	9552.1	8477.3	5835.2	3018.8	1453.7	1105.2	908.4	924.2	942.2	925.3	920.8
45°	10172.8	9035.0	6007.2	2695.0	1252.5	938.8	869.1	912.9	952.3	950.0	944.4
47.5°	10795.6	9552.1	6024.1	2265.5	1069.2	882.6	868.0	900.6	952.3	961.3	954.5
50°	11437.6	10094.1	5925.1	1759.5	991.6	889.3	869.1	874.7	932.1	942.2	938.8
52.5°	12149.3	10679.8	5681.1	1337.9	961.3	900.6	872.5	864.6	897.2	915.2	918.6
55°	12803.6	11145.3	5223.5	1181.7	938.8	901.7	897.2	871.3	872.5	863.5	886.0
57.5°	13353.4	11589.4	4704.1	1096.2	918.6	891.6	908.4	860.1	846.6	809.5	800.5
60°	13922.3	11950.3	3973.3	1037.7	895.0	879.2	880.3	841.0	807.3	753.3	737.5
62.5°	14326.0	12141.4	3263.9	969.2	862.3	860.1	843.2	814.0	783.6	736.4	729.7
65°	14442.9	12040.2	2507.2	897.2	819.6	828.6	798.3	757.8	631.9	573.4	573.4
67.5°	14056.1	11417.4	1856.2	814.0	767.9	785.9	726.3	597.0	531.8	496.9	502.6
70°	12995.9	10411.1	1208.6	692.6	693.7	708.3	599.3	537.4	475.6	454.2	465.5
72.5°	11579.3	8919.2	797.1	552.0	584.6	559.9	547.5	494.7	439.6	414.9	422.7
75°	9542.0	7042.7	553.2	434.0	378.9	477.8	486.8	416.0	373.3	453.1	471.1
77.5°	7538.5	4895.2	456.5	303.6	280.0	353.0	390.1	385.6	617.2	725.2	717.3
80°	4482.6	2818.6	372.1	210.2	197.9	227.1	306.9	443.0	691.5	519.4	494.7
82.5°	2032.8	1281.7	197.9	110.2	129.3	150.7	229.4	550.9	453.1	332.8	313.7
85°	793.8	418.2	78.7	48.3	45.0	56.2	104.6	265.3	182.1	147.3	147.3
87.5°	102.3	75.3	22.5	16.9	14.6	18.0	33.7	147.3	85.4	72.0	69.7
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)