

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: P509957

Luminaire Tested: **VERD-M-CA3-170-760-U-T2**

Issue Date: 4/6/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P509957  
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-CA3-170-760-U-T2  
Description: VERDEON-M ROADWAY AND AREA LUMINAIRE  
(3) 70 CRI, 5700K, 1060mA LEDS AND TYPE II OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 24353 lumens  
Efficiency: N/A  
Efficacy: 140.9 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

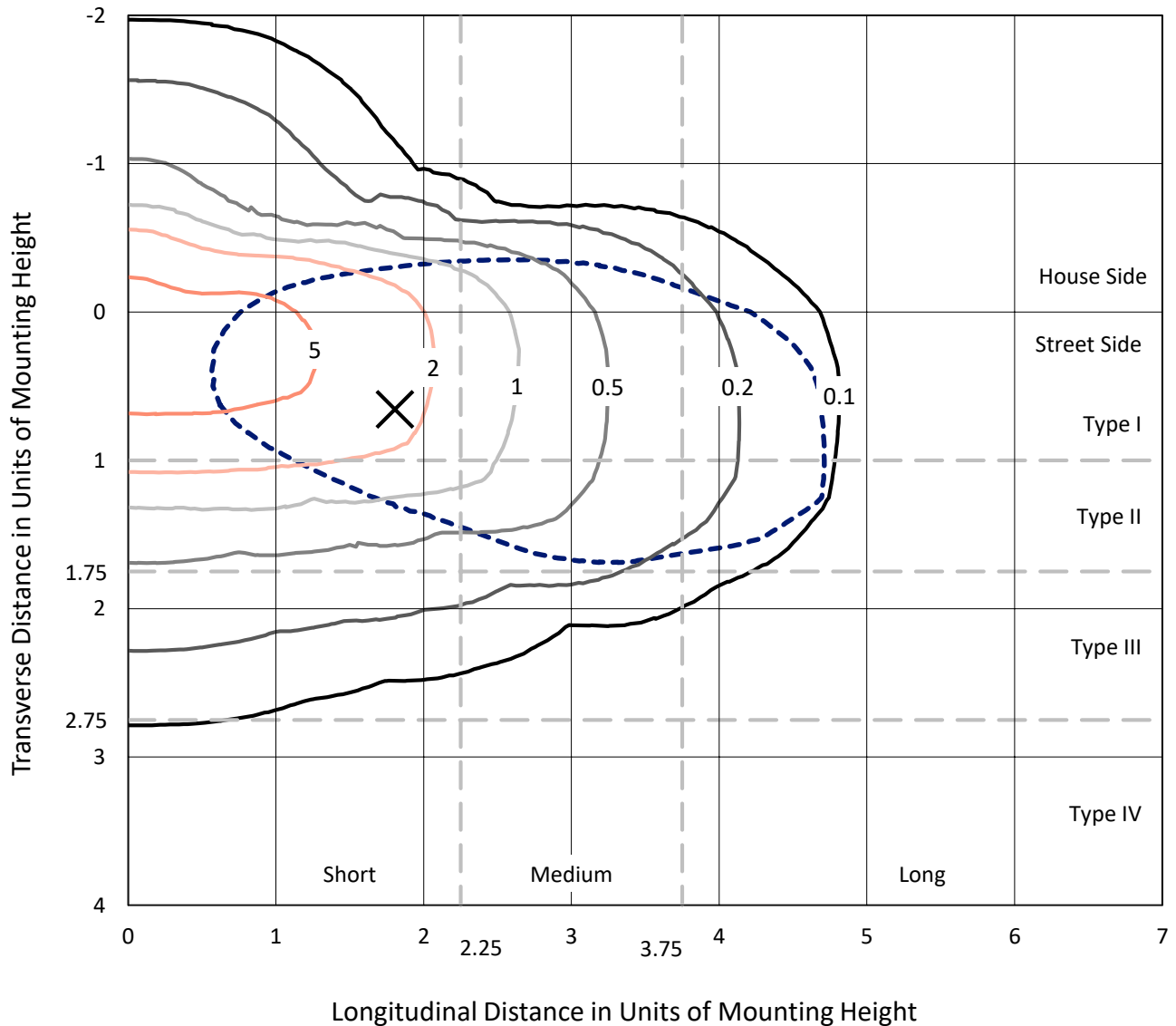
Input Watts (W): 172.8  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

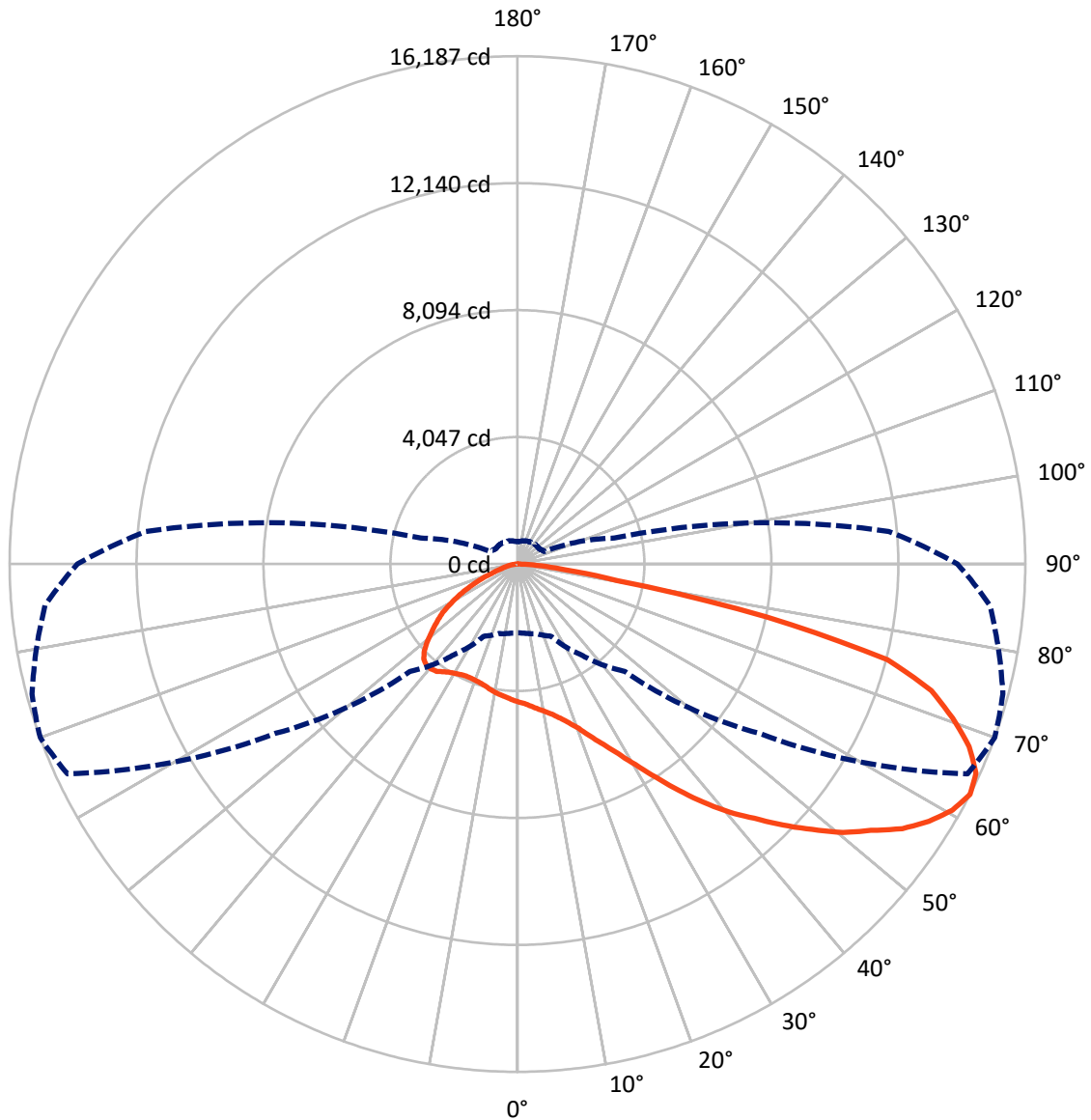
✕ Max cd  
 - - - 1/2 Max cd



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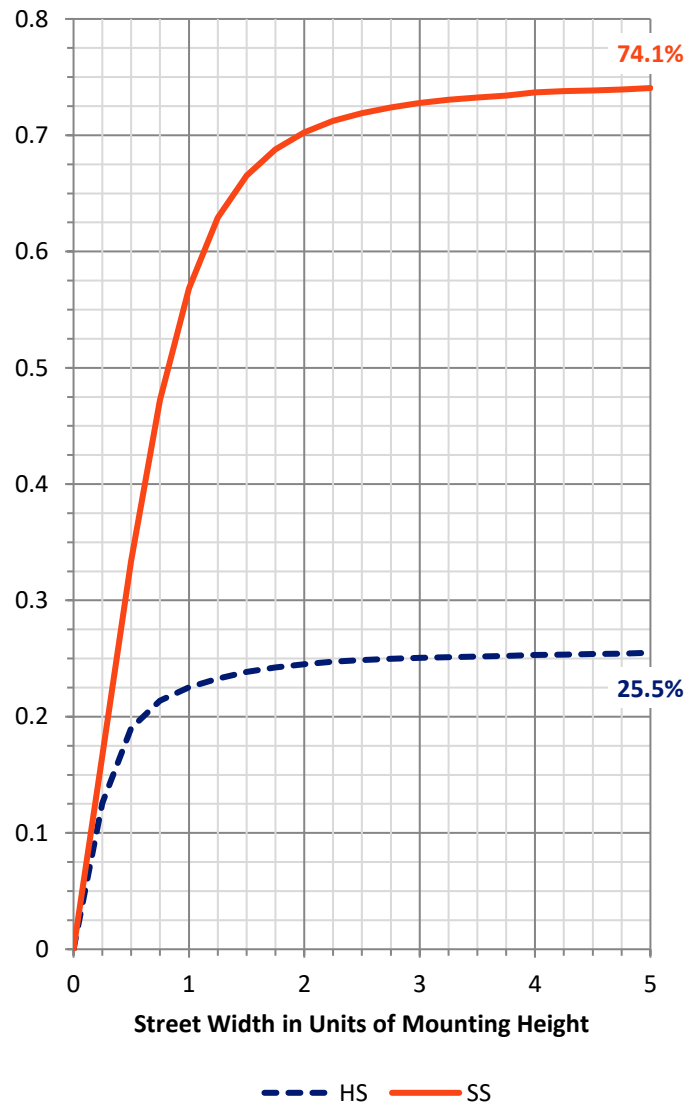
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6305.1	0.0	6305.1
	% Fixture	25.9	0.0	25.9
<b>Street Side</b>	Lumens	18047.9	0.0	18047.9
	% Fixture	74.1	0.0	74.1
<b>Total</b>	Lumens	24353.0	0.0	24353.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	422.2	1.7
10°-20°	1282.1	5.3
20°-30°	2175.9	8.9
30°-40°	3148.4	12.9
40°-50°	4131.5	17.0
50°-60°	4827.5	19.8
60°-70°	4844.6	19.9
70°-80°	3087.0	12.7
80°-90°	433.8	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°	24353.0	100.0
0°-180°	24353.0	100.0



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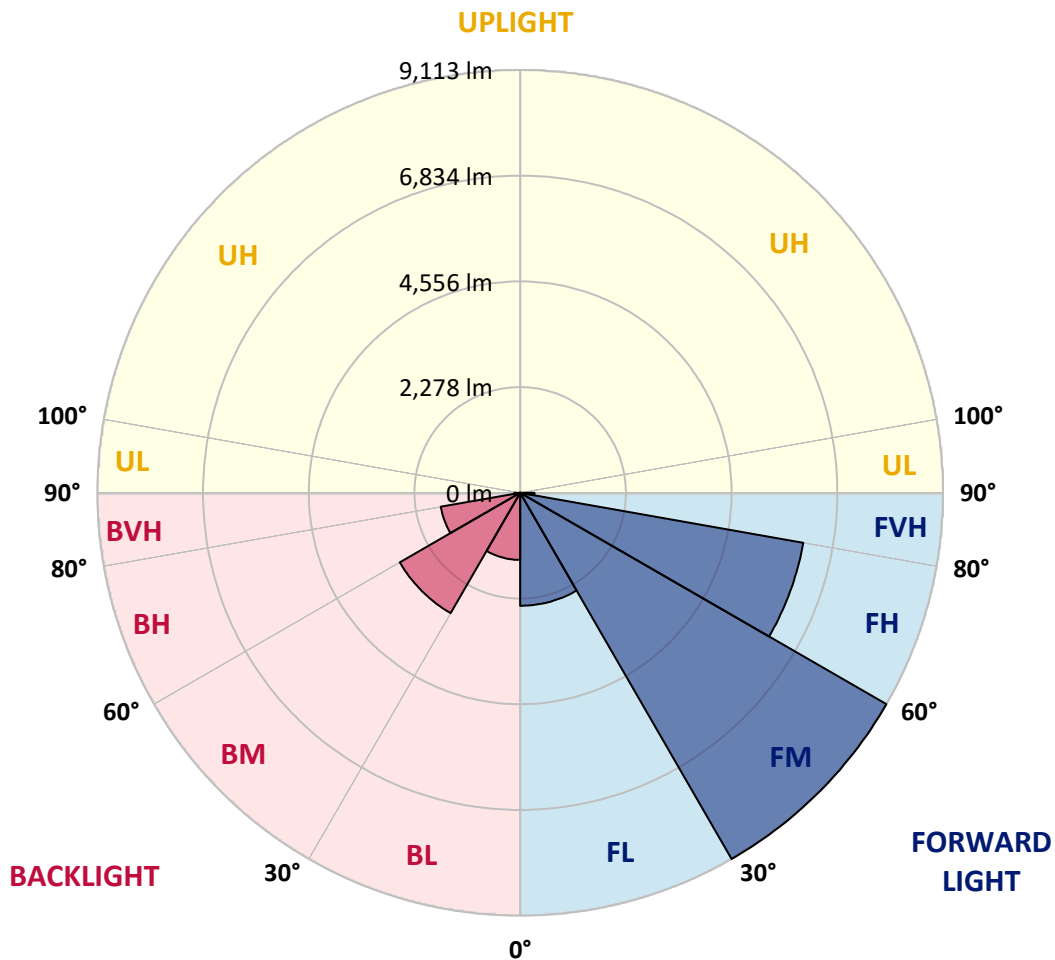
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2434.1	10.0			
FM (30°-60°)	9112.6	37.4			
FH (60°-80°)	6195.1	25.4			G3/7500
FVH (80°-90°)	306.0	1.3			G3/500
BL (0°-30°)	1446.1	5.9	B3/2500		
BM (30°-60°)	2994.8	12.3	B3/5000		
BH (60°-80°)	1736.5	7.1	B3/2500		G3/2500
BVH (80°-90°)	127.8	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°	4395.4	4395.4	4395.4	4395.4	4395.4	4395.4	4395.4	4395.4	4395.4	4395.4	4395.4
2.5°	4563.8	4612.2	4605.6	4575.9	4596.8	4539.5	4518.6	4486.7	4453.7	4442.7	4424.0
5°	4779.5	4843.3	4831.2	4791.6	4790.5	4709.0	4662.8	4602.3	4551.7	4512.0	4453.7
7.5°	4980.8	5054.6	5043.6	5005.1	5002.9	4909.3	4813.6	4718.9	4660.6	4610.0	4503.2
10°	5194.3	5250.5	5240.6	5191.0	5181.1	5089.8	4977.5	4858.7	4772.9	4702.4	4550.6
12.5°	5391.3	5450.8	5455.2	5393.5	5378.1	5280.2	5182.2	5024.9	4913.7	4833.4	4610.0
15°	5575.1	5645.5	5632.3	5570.7	5554.2	5455.2	5359.4	5214.1	5098.6	4986.3	4706.8
17.5°	5722.6	5789.7	5773.2	5745.7	5736.9	5659.8	5580.6	5423.2	5320.9	5176.7	4856.5
20°	5823.8	5886.6	5893.2	5885.5	5936.1	5863.4	5819.4	5708.3	5596.0	5466.2	5061.2
22.5°	5863.4	5938.3	6002.1	6051.6	6156.2	6145.2	6137.5	6073.6	5963.6	5774.3	5331.9
25°	5875.5	5950.4	6049.4	6171.6	6358.7	6425.8	6474.2	6489.6	6369.7	6220.0	5668.7
27.5°	5877.7	5958.1	6059.3	6256.3	6541.3	6743.8	6859.4	6913.3	6846.2	6727.3	6126.5
30°	5831.5	5914.1	6043.9	6306.9	6684.4	7016.8	7208.2	7447.1	7418.4	7318.3	6699.8
32.5°	5698.4	5773.2	5952.6	6298.1	6826.4	7296.3	7594.5	8008.3	8105.2	8040.2	7361.2
35°	5459.6	5550.9	5783.1	6225.5	6903.4	7568.1	8049.0	8692.8	8867.8	8872.2	8172.3
37.5°	5218.6	5287.9	5560.8	6089.0	6946.3	7809.1	8480.4	9378.4	9632.6	9638.1	8846.9
40°	4962.1	5026.0	5326.4	5906.4	6902.3	7998.4	8882.1	10037.6	10401.9	10367.8	9509.4
42.5°	4629.8	4700.2	4998.5	5657.6	6792.3	8144.8	9290.4	10729.8	11079.8	11118.3	10200.5
45°	4345.9	4402.0	4662.8	5269.2	6590.9	8224.0	9673.4	11468.3	11868.8	11828.1	10937.8
47.5°	3995.9	4079.5	4358.0	4953.3	6228.8	8204.2	10039.8	12199.0	12644.7	12607.3	11577.2
50°	3082.5	3179.3	3826.4	4622.1	5766.6	8049.0	10372.2	12897.8	13451.4	13353.4	12254.0
52.5°	2799.7	2827.2	3084.7	4241.3	5311.0	7696.9	10616.5	13780.4	14108.4	14069.8	12939.6
55°	2626.9	2679.7	2797.5	3494.1	4901.6	7124.6	10786.0	14517.7	14887.5	14707.0	13560.3
57.5°	2475.0	2512.4	2652.2	2991.1	4430.6	6336.7	10736.4	15139.5	15469.7	15217.7	14166.7
60°	2313.2	2337.5	2477.2	2730.3	3922.2	5466.2	10233.5	15781.1	15927.5	15696.4	14679.5
62.5°	2187.8	2210.9	2294.5	2537.7	3526.0	4843.3	9410.3	15826.2	16187.2	16018.8	15115.3
65°	2027.1	2042.5	2147.1	2338.6	3158.4	4472.4	8685.1	15402.5	16061.7	16019.9	15282.6
67.5°	1849.9	1868.6	1967.7	2103.0	2688.5	4035.5	7472.4	15173.6	15531.3	15572.0	14968.9
70°	1641.9	1655.1	1757.5	1855.4	2300.0	3542.5	5940.5	14296.5	14713.6	14712.5	14000.5
72.5°	1417.4	1416.3	1517.6	1621.0	1927.0	2975.7	4650.7	12693.1	13796.9	13714.4	12622.7
75°	1168.7	1185.2	1283.2	1364.6	1603.4	2412.3	3238.8	9194.6	12180.3	12293.6	10893.8
77.5°	747.2	758.2	813.3	896.9	1121.4	1843.3	2113.0	5109.6	8132.7	9809.8	8575.1
80°	545.8	551.3	599.8	648.2	746.1	1122.5	1074.1	2220.8	3223.4	4815.8	5260.4
82.5°	372.0	373.1	411.6	422.6	428.1	506.2	509.5	1080.7	1535.2	1808.1	2323.1
85°	246.5	204.7	159.6	211.3	216.8	186.0	181.6	487.5	761.5	913.4	860.6
87.5°	55.0	53.9	62.7	63.8	61.6	52.8	44.0	74.8	114.5	113.4	145.3
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°	4395.4	4395.4	4395.4	4395.4	4395.4	4395.4	4395.4	4395.4	4395.4	4395.4	4395.4
2.5°	4406.4	4400.9	4370.1	4305.1	4261.1	4216.0	4190.7	4175.3	4180.8	4155.5	4144.5
5°	4417.4	4389.9	4302.9	4225.9	4156.6	4078.4	4013.5	4004.7	4017.9	3994.8	3981.6
7.5°	4446.0	4387.7	4276.5	4144.5	4028.9	3955.2	3861.6	3814.3	3811.0	3787.9	3792.3
10°	4462.5	4386.6	4238.0	4078.4	3943.1	3812.1	3712.0	3659.1	3655.8	3622.8	3615.1
12.5°	4507.6	4398.7	4192.9	3998.1	3847.3	3672.4	3566.7	3518.3	3512.8	3466.6	3449.0
15°	4577.0	4426.2	4145.6	3904.6	3709.8	3545.8	3419.2	3354.3	3344.4	3290.5	3271.8
17.5°	4687.0	4504.3	4131.3	3819.8	3589.8	3410.4	3261.9	3191.4	3134.2	3104.5	3079.2
20°	4835.6	4601.2	4147.8	3740.6	3439.0	3232.2	3047.3	2954.8	2915.2	2866.8	2870.1
22.5°	5046.9	4753.0	4176.4	3679.0	3302.6	3041.8	2833.8	2730.3	2658.8	2618.1	2620.3
25°	5344.0	4981.9	4232.5	3620.6	3154.0	2833.8	2588.4	2444.2	2371.6	2345.2	2317.6
27.5°	5719.3	5256.0	4365.7	3549.1	2977.9	2598.3	2326.4	2158.1	2084.3	2044.7	2039.2
30°	6201.3	5615.8	4521.9	3496.3	2793.1	2304.4	2001.8	1868.6	1803.7	1747.6	1721.2
32.5°	6789.0	6124.3	4695.8	3443.5	2564.2	1975.4	1701.4	1599.0	1495.6	1424.0	1427.3
35°	7471.3	6677.8	4954.4	3376.3	2295.6	1668.4	1479.1	1347.0	1250.2	1202.8	1180.8
37.5°	8115.1	7245.7	5258.2	3308.1	1995.2	1469.2	1260.1	1137.9	1063.1	1026.8	1034.5
40°	8766.5	7831.1	5520.1	3140.8	1658.4	1288.7	1043.3	973.9	944.2	915.6	918.9
42.5°	9349.8	8297.7	5711.6	2954.8	1422.9	1081.8	889.2	904.6	922.2	905.7	901.3
45°	9957.3	8843.6	5879.9	2637.9	1226.0	918.9	850.7	893.6	932.1	929.9	924.4
47.5°	10567.0	9349.8	5896.5	2217.5	1046.6	863.9	849.6	881.5	932.1	940.9	934.3
50°	11195.3	9880.3	5799.6	1722.3	970.6	870.5	850.7	856.2	912.3	922.2	918.9
52.5°	11892.0	10453.6	5560.8	1309.6	940.9	881.5	854.0	846.3	878.2	895.8	899.1
55°	12532.4	10909.2	5112.9	1156.6	918.9	882.6	878.2	852.9	854.0	845.2	867.2
57.5°	13070.6	11343.9	4604.5	1073.0	899.1	872.7	889.2	841.9	828.7	792.4	783.6
60°	13627.4	11697.2	3889.2	1015.8	876.0	860.6	861.7	823.2	790.2	737.3	721.9
62.5°	14022.5	11884.3	3194.7	948.6	844.1	841.9	825.4	796.8	767.0	720.8	714.2
65°	14137.0	11785.2	2454.1	878.2	802.3	811.1	781.4	741.7	618.5	561.3	561.3
67.5°	13758.4	11175.5	1816.9	796.8	751.6	769.2	710.9	584.4	520.5	486.4	491.9
70°	12720.6	10190.6	1183.0	677.9	679.0	693.3	586.6	526.0	465.5	444.6	455.6
72.5°	11334.0	8730.2	780.3	540.3	572.3	548.0	535.9	484.2	430.3	406.1	413.8
75°	9339.9	6893.5	541.4	424.8	370.9	467.7	476.5	407.2	365.4	443.5	461.1
77.5°	7378.8	4791.6	446.8	297.1	274.0	345.6	381.9	377.5	604.2	709.8	702.1
80°	4387.7	2758.9	364.3	205.8	193.7	222.3	300.4	433.6	676.8	508.4	484.2
82.5°	1989.7	1254.6	193.7	107.8	126.6	147.5	224.5	539.2	443.5	325.7	307.0
85°	777.0	409.4	77.0	47.3	44.0	55.0	102.3	259.7	178.3	144.2	144.2
87.5°	100.1	73.7	22.0	16.5	14.3	17.6	33.0	144.2	83.6	70.4	68.2
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)