

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: P510053

Luminaire Tested: **VERD-M-CA4-190-760-U-T2**

Issue Date: 4/6/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P510053  
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-CA4-190-760-U-T2  
Description: VERDEON-M ROADWAY AND AREA LUMINAIRE  
(4) 70 CRI, 5700K, 870mA LEDS AND TYPE II OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 27557 lumens  
Efficiency: N/A  
Efficacy: 142.7 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

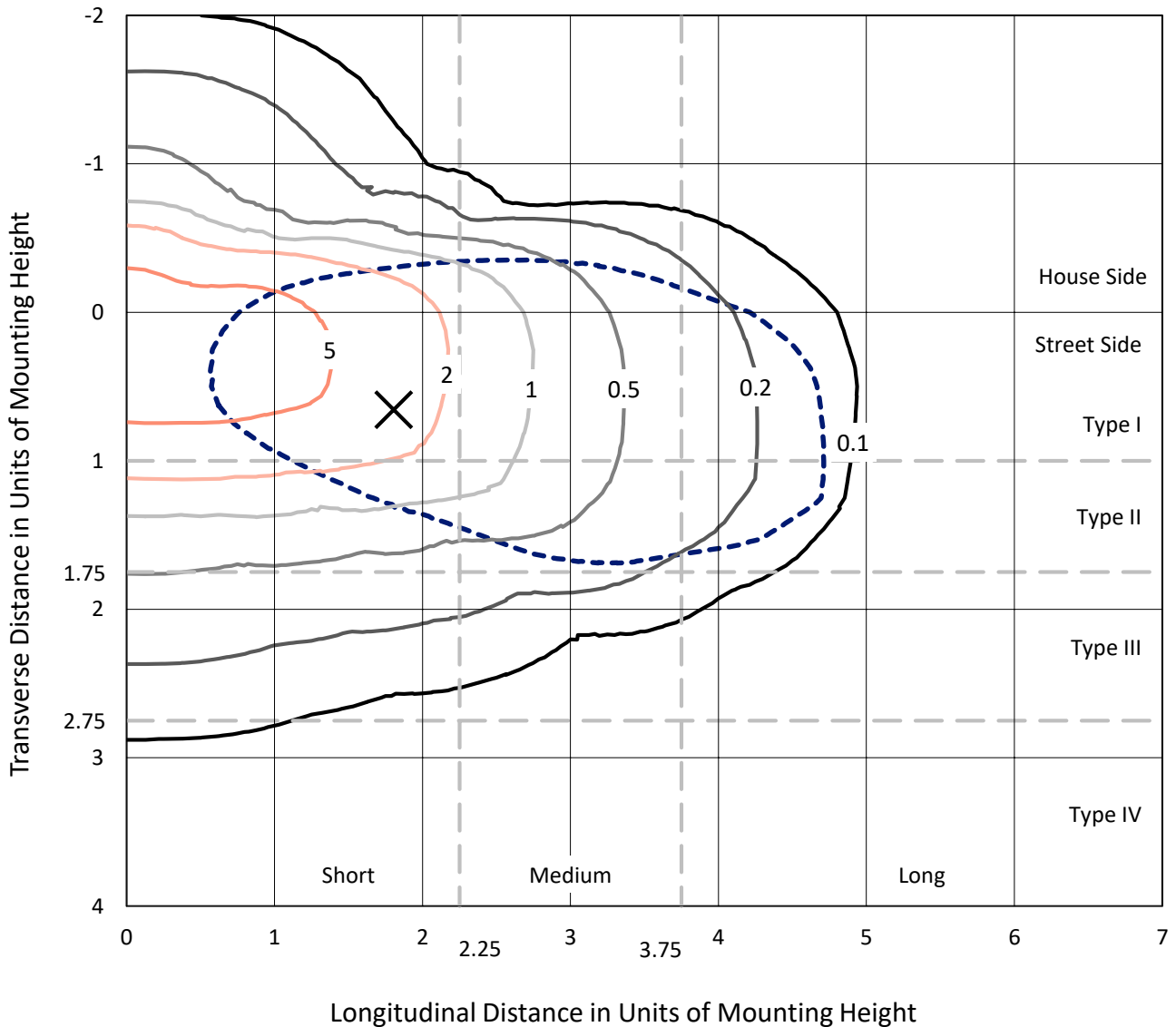
Input Watts (W): 193.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

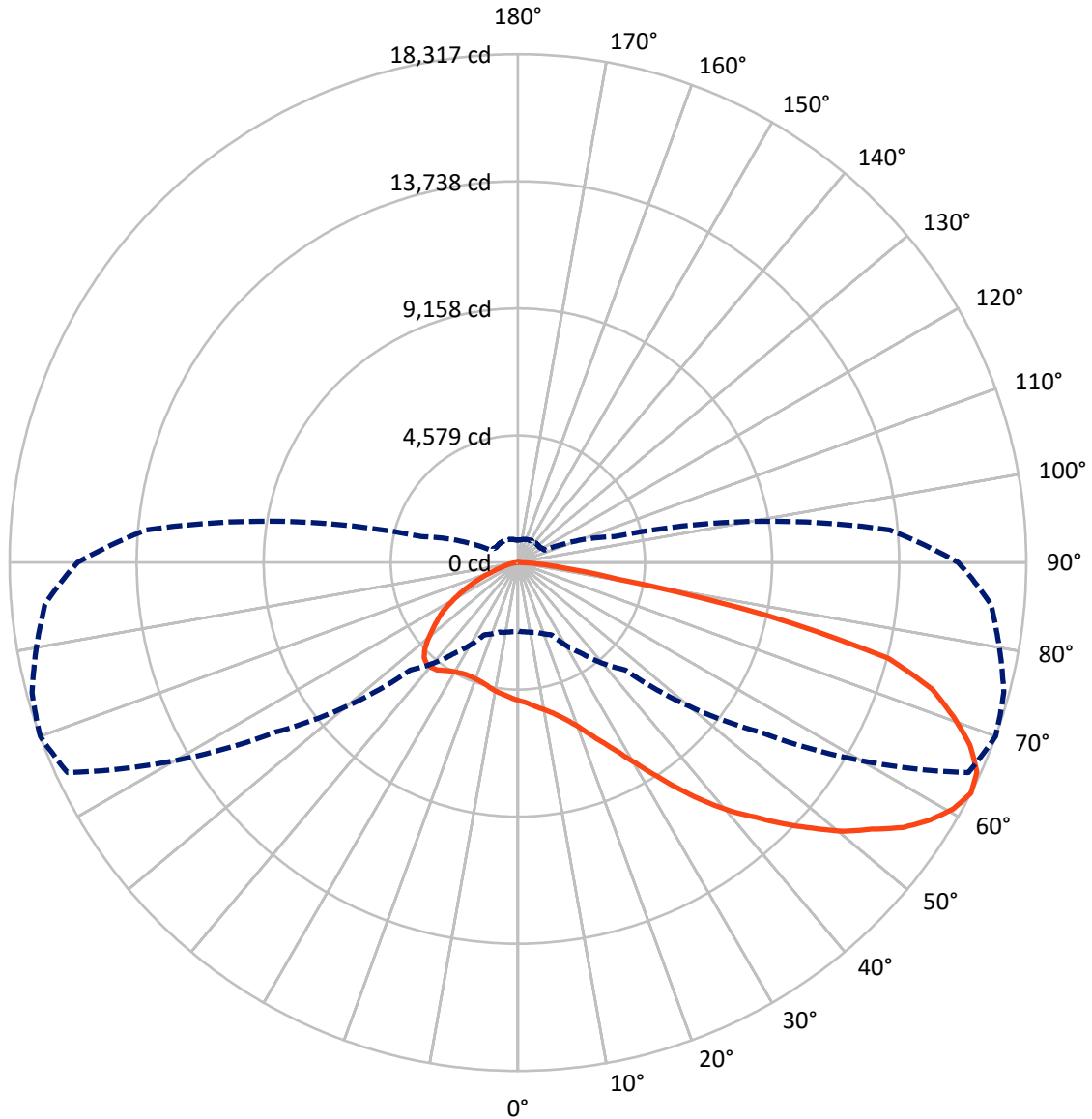
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.1 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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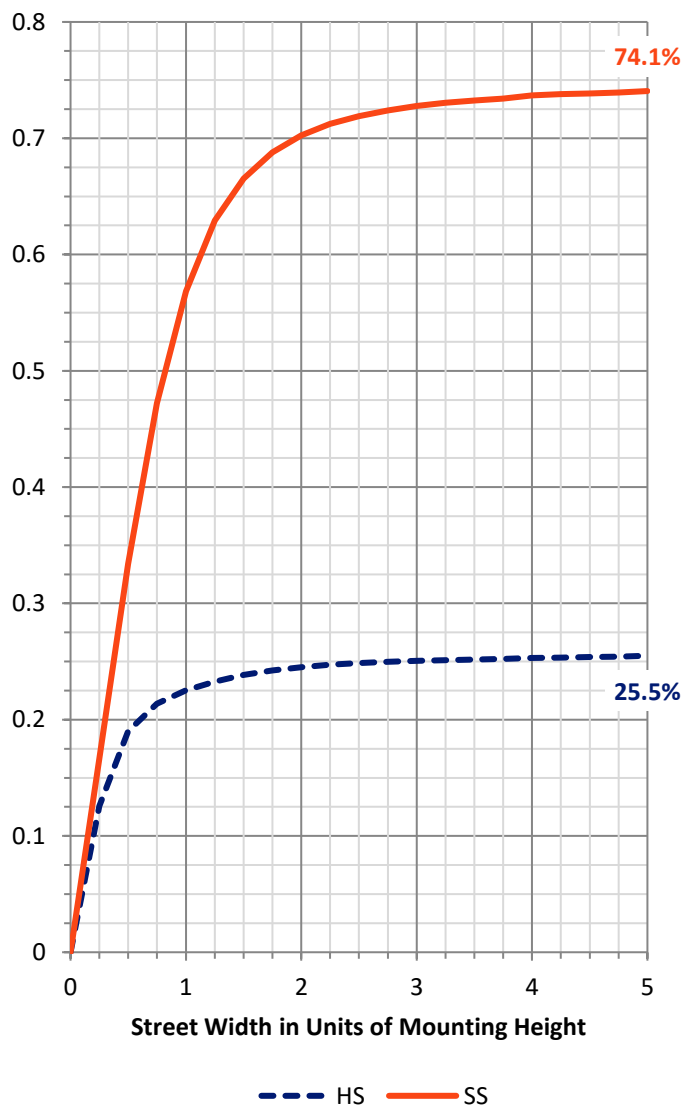
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	7134.6	0.0	7134.6
	% Fixture	25.9	0.0	25.9
<b>Street Side</b>	Lumens	20422.4	0.0	20422.4
	% Fixture	74.1	0.0	74.1
<b>Total</b>	Lumens	27557.0	0.0	27557.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	477.7	1.7
10°-20°	1450.7	5.3
20°-30°	2462.2	8.9
30°-40°	3562.6	12.9
40°-50°	4675.0	17.0
50°-60°	5462.6	19.8
60°-70°	5482.0	19.9
70°-80°	3493.2	12.7
80°-90°	490.9	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°	27557.0	100.0
0°-180°	27557.0	100.0



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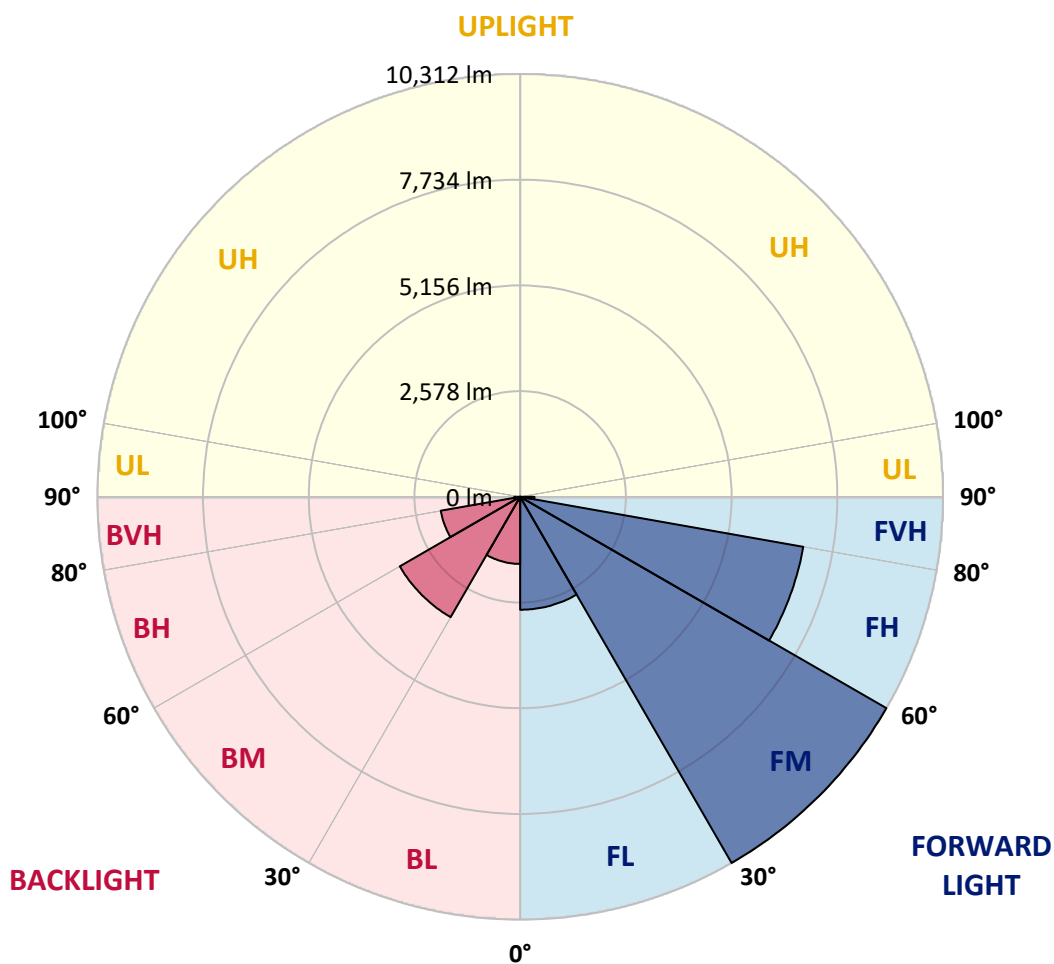
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2754.3	10.0			
FM (30°-60°)	10311.5	37.4			
FH (60°-80°)	7010.2	25.4			G3/7500
FVH (80°-90°)	346.3	1.3			G3/500
BL (0°-30°)	1636.3	5.9	B3/2500		
BM (30°-60°)	3388.7	12.3	B3/5000		
BH (60°-80°)	1964.9	7.1	B3/2500		G3/2500
BVH (80°-90°)	144.6	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°	4973.7	4973.7	4973.7	4973.7	4973.7	4973.7	4973.7	4973.7	4973.7	4973.7	4973.7
2.5°	5164.2	5219.0	5211.5	5177.9	5201.5	5136.8	5113.1	5077.0	5039.7	5027.2	5006.0
5°	5408.3	5480.5	5466.8	5422.0	5420.7	5328.6	5276.3	5207.8	5150.5	5105.7	5039.7
7.5°	5636.1	5719.6	5707.1	5663.5	5661.1	5555.2	5446.9	5339.8	5273.8	5216.5	5095.7
10°	5877.7	5941.2	5930.0	5874.0	5862.8	5759.4	5632.4	5497.9	5400.8	5321.1	5149.2
12.5°	6100.6	6167.9	6172.9	6103.1	6085.7	5974.9	5864.0	5686.0	5560.2	5469.3	5216.5
15°	6308.6	6388.3	6373.4	6303.6	6284.9	6172.9	6064.5	5900.1	5769.4	5642.4	5326.1
17.5°	6475.5	6551.4	6532.8	6501.6	6491.7	6404.5	6314.8	6136.8	6020.9	5857.8	5495.4
20°	6590.0	6661.0	6668.5	6659.8	6717.1	6634.9	6585.1	6459.3	6332.3	6185.3	5727.1
22.5°	6634.9	6719.5	6791.8	6847.8	6966.1	6953.7	6944.9	6872.7	6748.2	6534.0	6033.4
25°	6648.6	6733.2	6845.3	6983.5	7195.2	7271.2	7326.0	7343.4	7207.7	7038.3	6414.4
27.5°	6651.1	6742.0	6856.5	7079.4	7402.0	7631.1	7761.8	7822.9	7746.9	7612.4	6932.5
30°	6598.8	6692.1	6839.1	7136.7	7563.8	7939.9	8156.6	8426.8	8394.4	8281.1	7581.3
32.5°	6448.1	6532.8	6735.7	7126.8	7724.5	8256.2	8593.7	9061.9	9171.5	9098.0	8329.7
35°	6177.8	6281.2	6544.0	7044.6	7811.7	8563.8	9108.0	9836.5	10034.5	10039.5	9247.5
37.5°	5905.1	5983.6	6292.4	6890.1	7860.2	8836.5	9596.1	10612.3	10900.0	10906.2	10010.8
40°	5615.0	5687.2	6027.2	6683.4	7810.4	9050.7	10050.7	11358.2	11770.4	11731.8	10760.5
42.5°	5238.9	5318.6	5656.1	6402.0	7685.9	9216.3	10512.7	12141.5	12537.5	12581.1	11542.5
45°	4917.6	4981.1	5276.3	5962.4	7458.0	9306.0	10946.0	12977.1	13430.4	13384.3	12376.9
47.5°	4521.6	4616.3	4931.3	5605.0	7048.3	9283.6	11360.7	13804.0	14308.3	14266.0	13100.4
50°	3488.0	3597.6	4329.8	5230.2	6525.3	9108.0	11736.8	14594.7	15221.1	15110.3	13866.2
52.5°	3168.0	3199.1	3490.5	4799.3	6009.7	8709.5	12013.2	15593.4	15964.5	15920.9	14642.0
55°	2972.5	3032.3	3165.5	3953.8	5546.5	8062.0	12205.0	16427.8	16846.2	16642.0	15344.4
57.5°	2800.6	2843.0	3001.1	3384.7	5013.5	7170.3	12149.0	17131.4	17504.9	17219.8	16030.5
60°	2617.6	2645.0	2803.1	3089.5	4438.2	6185.3	11579.9	17857.4	18023.0	17761.5	16610.8
62.5°	2475.6	2501.8	2596.4	2871.6	3989.9	5480.5	10648.4	17908.4	18316.9	18126.3	17104.0
65°	2293.8	2311.2	2429.5	2646.2	3574.0	5060.8	9827.8	17429.0	18174.9	18127.6	17293.2
67.5°	2093.3	2114.5	2226.6	2379.7	3042.2	4566.5	8455.5	17170.0	17574.7	17620.7	16938.3
70°	1858.0	1872.9	1988.7	2099.5	2602.6	4008.6	6722.0	16177.5	16649.4	16648.2	15842.5
72.5°	1603.9	1602.7	1717.2	1834.3	2180.5	3367.2	5262.6	14363.1	15612.1	15518.7	14283.4
75°	1322.5	1341.2	1452.0	1544.2	1814.4	2729.7	3664.9	10404.3	13782.8	13911.1	12327.1
77.5°	845.5	858.0	920.3	1014.9	1268.9	2085.8	2390.9	5781.8	9202.6	11100.4	9703.2
80°	617.7	623.9	678.7	733.5	844.3	1270.2	1215.4	2513.0	3647.4	5449.4	5952.5
82.5°	420.9	422.2	465.7	478.2	484.4	572.8	576.6	1222.9	1737.2	2046.0	2628.8
85°	278.9	231.6	180.6	239.1	245.3	210.5	205.5	551.7	861.7	1033.6	973.8
87.5°	62.3	61.0	71.0	72.2	69.7	59.8	49.8	84.7	129.5	128.3	164.4
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°	4973.7	4973.7	4973.7	4973.7	4973.7	4973.7	4973.7	4973.7	4973.7	4973.7	4973.7
2.5°	4986.1	4979.9	4945.0	4871.5	4821.7	4770.7	4742.0	4724.6	4730.8	4702.2	4689.7
5°	4998.6	4967.4	4869.1	4781.9	4703.4	4615.0	4541.5	4531.6	4546.5	4520.4	4505.4
7.5°	5030.9	4964.9	4839.2	4689.7	4559.0	4475.5	4369.7	4316.1	4312.4	4286.3	4291.2
10°	5049.6	4963.7	4795.6	4615.0	4461.8	4313.7	4200.3	4140.6	4136.8	4099.5	4090.8
12.5°	5100.7	4977.4	4744.5	4524.1	4353.5	4155.5	4036.0	3981.2	3974.9	3922.6	3902.7
15°	5179.1	5008.5	4691.0	4418.3	4197.8	4012.3	3869.1	3795.6	3784.4	3723.4	3702.2
17.5°	5303.7	5096.9	4674.8	4322.4	4062.1	3859.1	3691.0	3611.3	3546.6	3512.9	3484.3
20°	5471.8	5206.5	4693.5	4232.7	3891.5	3657.4	3448.2	3343.6	3298.8	3244.0	3247.7
22.5°	5710.9	5378.4	4725.8	4163.0	3737.1	3442.0	3206.6	3089.5	3008.6	2962.5	2965.0
25°	6047.1	5637.4	4789.4	4097.0	3569.0	3206.6	2928.9	2765.8	2683.6	2653.7	2622.6
27.5°	6471.7	5947.5	4940.0	4016.0	3369.7	2940.1	2632.5	2442.0	2358.6	2313.7	2307.5
30°	7017.2	6354.7	5116.9	3956.3	3160.5	2607.6	2265.2	2114.5	2041.0	1977.5	1947.6
32.5°	7682.1	6930.0	5313.6	3896.5	2901.5	2235.3	1925.2	1809.4	1692.3	1611.4	1615.1
35°	8454.2	7556.4	5606.3	3820.5	2597.7	1887.8	1673.7	1524.2	1414.6	1361.1	1336.2
37.5°	9182.7	8198.9	5950.0	3743.3	2257.7	1662.5	1425.8	1287.6	1202.9	1161.8	1170.6
40°	9919.9	8861.4	6246.3	3554.0	1876.6	1458.2	1180.5	1102.1	1068.5	1036.1	1039.8
42.5°	10579.9	9389.4	6463.0	3343.6	1610.2	1224.1	1006.2	1023.6	1043.5	1024.9	1019.9
45°	11267.3	10007.1	6653.5	2984.9	1387.2	1039.8	962.6	1011.2	1054.8	1052.3	1046.0
47.5°	11957.2	10579.9	6672.2	2509.2	1184.3	977.5	961.4	997.5	1054.8	1064.7	1057.2
50°	12668.3	11180.1	6562.6	1948.9	1098.3	985.0	962.6	968.8	1032.3	1043.5	1039.8
52.5°	13456.5	11828.9	6292.4	1481.9	1064.7	997.5	966.3	957.6	993.7	1013.7	1017.4
55°	14181.3	12344.5	5785.6	1308.8	1039.8	998.7	993.7	965.1	966.3	956.4	981.3
57.5°	14790.2	12836.4	5210.3	1214.2	1017.4	987.5	1006.2	952.6	937.7	896.6	886.6
60°	15420.3	13236.1	4400.8	1149.4	991.2	973.8	975.1	931.5	894.1	834.3	816.9
62.5°	15867.4	13447.8	3615.1	1073.4	955.1	952.6	934.0	901.6	868.0	815.7	808.2
65°	15996.9	13335.7	2777.0	993.7	907.8	917.8	884.2	839.3	699.8	635.1	635.1
67.5°	15568.5	12645.8	2056.0	901.6	850.5	870.5	804.5	661.2	589.0	550.4	556.6
70°	14394.2	11531.3	1338.7	767.1	768.3	784.5	663.7	595.2	526.8	503.1	515.5
72.5°	12825.2	9878.8	882.9	611.4	647.5	620.2	606.5	547.9	486.9	459.5	468.2
75°	10568.7	7800.4	612.7	480.7	419.7	529.2	539.2	460.8	413.4	501.8	521.8
77.5°	8349.6	5422.0	505.6	336.2	310.1	391.0	432.1	427.1	683.7	803.2	794.5
80°	4964.9	3121.9	412.2	232.9	219.2	251.5	340.0	490.6	765.8	575.3	547.9
82.5°	2251.5	1419.6	219.2	122.0	143.2	166.9	254.0	610.2	501.8	368.6	347.4
85°	879.2	463.2	87.2	53.5	49.8	62.3	115.8	293.9	201.7	163.1	163.1
87.5°	113.3	83.4	24.9	18.7	16.2	19.9	37.4	163.1	94.6	79.7	77.2
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)