

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: P510117

Luminaire Tested: **VERD-M-CA4-210-727-U-T2**

Issue Date: 4/6/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P510117  
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-CA4-210-727-U-T2  
Description: VERDEON-M ROADWAY AND AREA LUMINAIRE  
(4) 70 CRI, 2700K, 960mA LEDS AND TYPE II OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 25497 lumens  
Efficiency: N/A  
Efficacy: 119.4 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

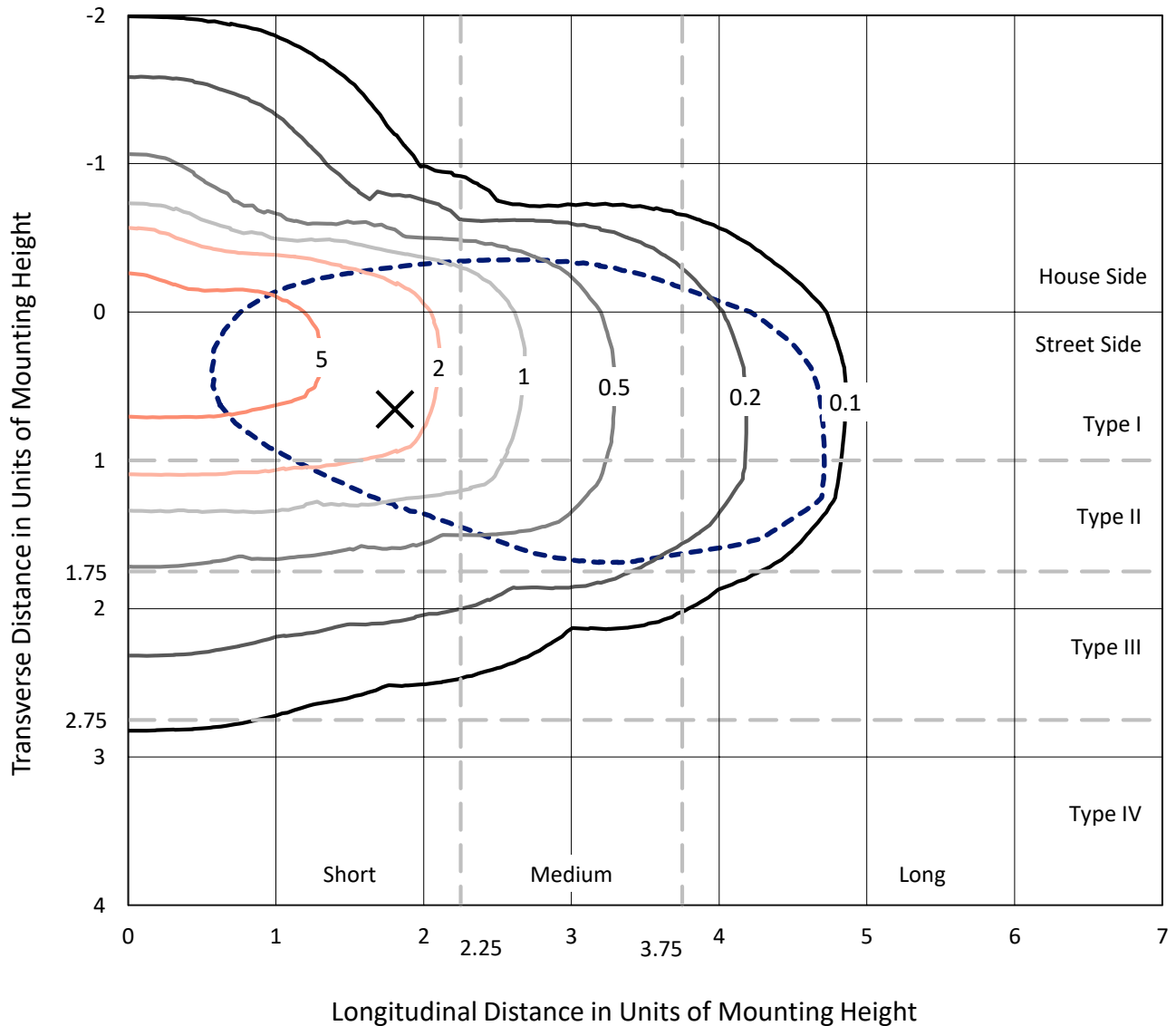
Input Watts (W): 213.6  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

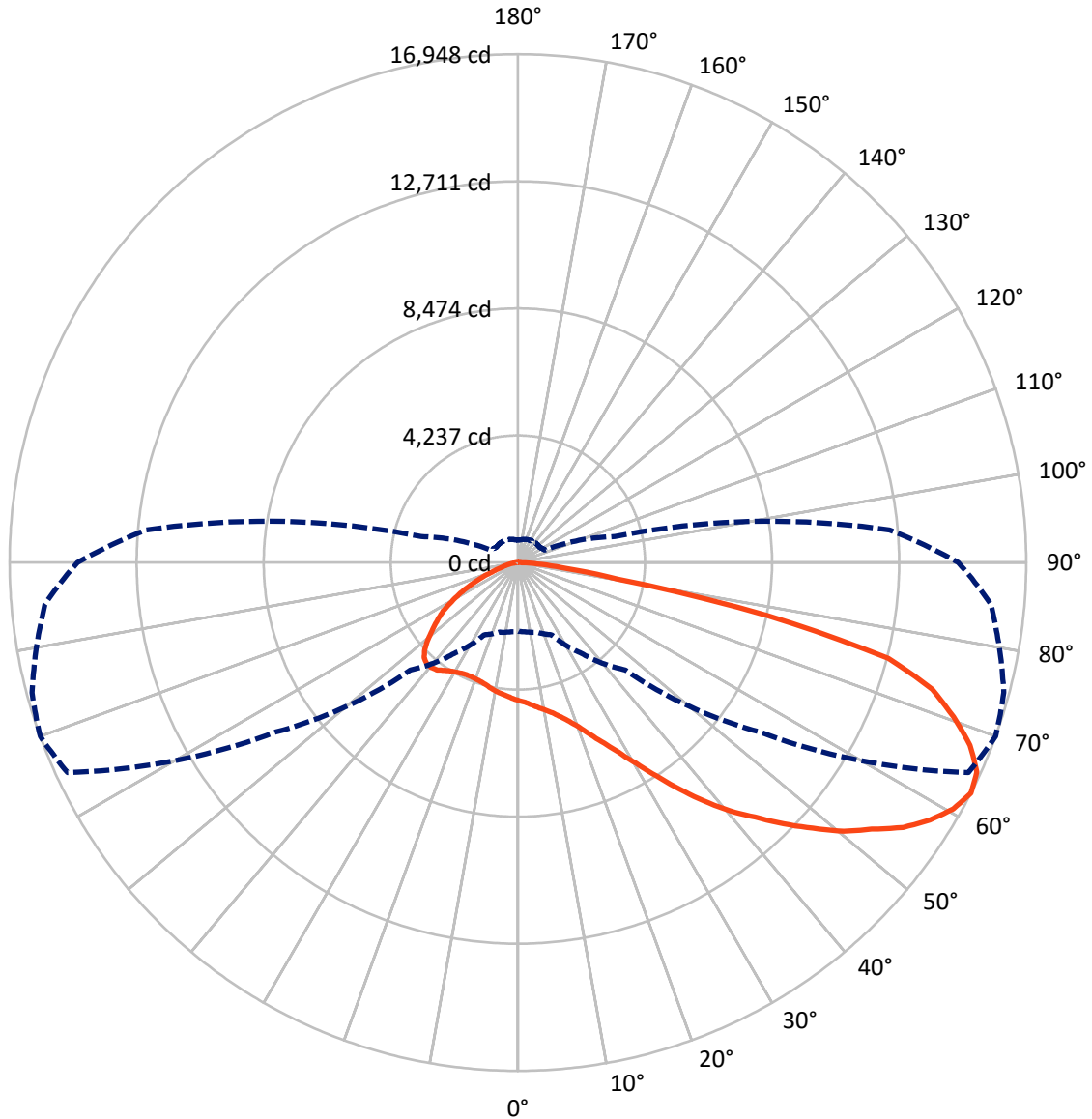
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.4 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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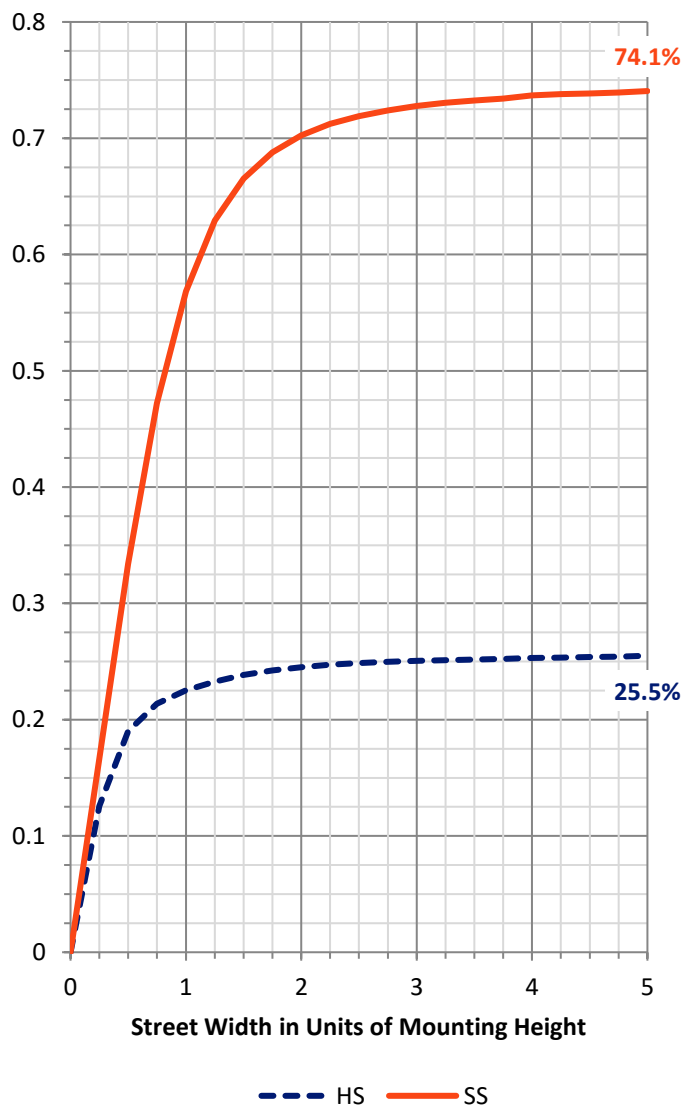
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6601.3	0.0	6601.3
	% Fixture	25.9	0.0	25.9
<b>Street Side</b>	Lumens	18895.7	0.0	18895.7
	% Fixture	74.1	0.0	74.1
<b>Total</b>	Lumens	25497.0	0.0	25497.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	442.0	1.7
10°-20°	1342.3	5.3
20°-30°	2278.1	8.9
30°-40°	3296.3	12.9
40°-50°	4325.5	17.0
50°-60°	5054.3	19.8
60°-70°	5072.2	19.9
70°-80°	3232.1	12.7
80°-90°	454.2	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°	25497.0	100.0
0°-180°	25497.0	100.0

**Coefficient of Utilization**



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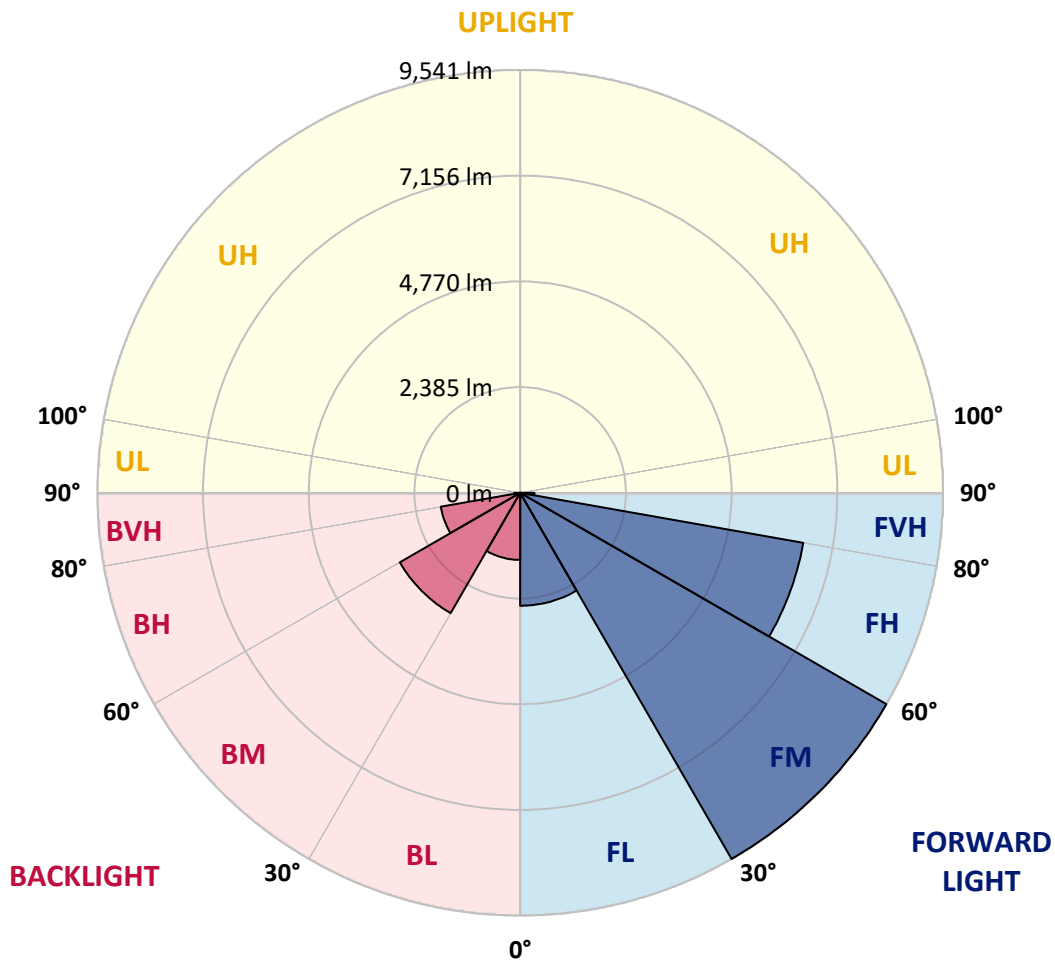
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2548.4	10.0			
FM	(30°-60°)	9540.7	37.4			
FH	(60°-80°)	6486.2	25.4			G3/7500
FVH	(80°-90°)	320.4	1.3			G3/500
BL	(0°-30°)	1514.0	5.9	B3/2500		
BM	(30°-60°)	3135.4	12.3	B3/5000		
BH	(60°-80°)	1818.1	7.1	B3/2500		G3/2500
BVH	(80°-90°)	133.8	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°	4601.9	4601.9	4601.9	4601.9	4601.9	4601.9	4601.9	4601.9	4601.9	4601.9	4601.9
2.5°	4778.1	4828.8	4821.9	4790.8	4812.7	4752.8	4730.9	4697.5	4662.9	4651.4	4631.8
5°	5004.0	5070.8	5058.1	5016.6	5015.5	4930.2	4881.8	4818.5	4765.5	4724.0	4662.9
7.5°	5214.8	5292.0	5280.5	5240.2	5237.9	5139.9	5039.7	4940.6	4879.5	4826.5	4714.8
10°	5438.3	5497.1	5486.7	5434.9	5424.5	5328.9	5211.4	5086.9	4997.1	4923.3	4764.3
12.5°	5644.6	5706.8	5711.4	5646.9	5630.8	5528.2	5425.7	5260.9	5144.5	5060.4	4826.5
15°	5837.0	5910.7	5896.9	5832.4	5815.1	5711.4	5611.2	5459.1	5338.1	5220.6	4927.9
17.5°	5991.4	6061.7	6044.4	6015.6	6006.4	5925.7	5842.8	5678.0	5570.9	5419.9	5084.6
20°	6097.4	6163.1	6170.0	6161.9	6214.9	6138.9	6092.8	5976.4	5858.9	5722.9	5298.9
22.5°	6138.9	6217.2	6284.1	6335.9	6445.4	6433.8	6425.8	6358.9	6243.7	6045.6	5582.4
25°	6151.6	6229.9	6333.6	6461.5	6657.4	6727.7	6778.3	6794.5	6668.9	6512.2	5934.9
27.5°	6153.9	6238.0	6344.0	6550.2	6848.6	7060.6	7181.6	7238.1	7167.8	7043.4	6414.3
30°	6105.5	6191.9	6327.8	6603.2	6998.4	7346.4	7546.9	7796.9	7766.9	7662.1	7014.5
32.5°	5966.1	6044.4	6232.2	6594.0	7147.0	7639.0	7951.3	8384.5	8485.9	8417.9	7707.0
35°	5716.0	5811.7	6054.8	6518.0	7227.7	7923.6	8427.1	9101.2	9284.4	9289.0	8556.2
37.5°	5463.7	5536.3	5822.0	6375.1	7272.6	8176.0	8878.8	9819.0	10085.1	10090.9	9262.5
40°	5195.2	5262.1	5576.6	6183.8	7226.6	8374.1	9299.3	10509.1	10890.5	10854.8	9956.1
42.5°	4847.3	4921.0	5233.3	5923.4	7111.3	8527.4	9726.8	11233.9	11600.3	11640.6	10679.7
45°	4550.0	4608.8	4881.8	5516.7	6900.5	8610.3	10127.8	12007.0	12426.4	12383.8	11451.6
47.5°	4183.6	4271.2	4562.7	5186.0	6521.4	8589.6	10511.5	12772.1	13238.7	13199.5	12121.1
50°	3227.3	3328.7	4006.2	4839.2	6037.5	8427.1	10859.4	13503.7	14083.2	13980.7	12829.7
52.5°	2931.2	2960.0	3229.6	4440.5	5560.5	8058.4	11115.2	14427.8	14771.1	14730.8	13547.5
55°	2750.3	2805.6	2928.9	3658.2	5131.9	7459.3	11292.6	15199.7	15586.9	15397.9	14197.3
57.5°	2591.3	2630.5	2776.8	3131.7	4638.7	6634.3	11240.8	15850.7	16196.4	15932.5	14832.2
60°	2421.9	2447.3	2593.6	2858.6	4106.4	5722.9	10714.2	16522.4	16675.7	16433.7	15369.1
62.5°	2290.6	2314.8	2402.3	2657.0	3691.6	5070.8	9852.4	16569.7	16947.6	16771.3	15825.4
65°	2122.3	2138.5	2247.9	2448.4	3306.8	4682.5	9093.1	16126.1	16816.2	16772.5	16000.5
67.5°	1936.8	1956.4	2060.1	2201.8	2814.8	4225.1	7823.4	15886.4	16260.9	16303.5	15672.1
70°	1719.1	1732.9	1840.1	1942.6	2408.1	3708.9	6219.5	14968.1	15404.8	15403.7	14658.2
72.5°	1484.0	1482.9	1588.9	1697.2	2017.5	3115.5	4869.2	13289.4	14445.0	14358.6	13215.6
75°	1223.6	1240.9	1343.5	1428.7	1678.7	2525.6	3390.9	9626.6	12752.5	12871.1	11405.6
77.5°	782.3	793.9	851.5	939.0	1174.1	1929.9	2212.2	5349.6	8514.7	10270.6	8977.9
80°	571.5	577.2	627.9	678.6	781.2	1175.2	1124.5	2325.1	3374.8	5042.0	5507.5
82.5°	389.4	390.6	430.9	442.4	448.2	530.0	533.5	1131.5	1607.3	1893.1	2432.3
85°	258.1	214.3	167.1	221.2	227.0	194.7	190.1	510.4	797.3	956.3	901.0
87.5°	57.6	56.5	65.7	66.8	64.5	55.3	46.1	78.3	119.8	118.7	152.1
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°	4601.9	4601.9	4601.9	4601.9	4601.9	4601.9	4601.9	4601.9	4601.9	4601.9	4601.9
2.5°	4613.4	4607.6	4575.4	4507.4	4461.3	4414.0	4387.5	4371.4	4377.2	4350.7	4339.2
5°	4624.9	4596.1	4505.1	4424.4	4351.8	4270.0	4202.0	4192.8	4206.7	4182.5	4168.6
7.5°	4654.9	4593.8	4477.4	4339.2	4218.2	4141.0	4043.0	3993.5	3990.0	3965.8	3970.5
10°	4672.1	4592.6	4437.1	4270.0	4128.3	3991.2	3886.3	3831.0	3827.6	3793.0	3785.0
12.5°	4719.4	4605.3	4389.9	4185.9	4028.1	3844.9	3734.3	3683.6	3677.8	3629.4	3611.0
15°	4792.0	4634.1	4340.3	4088.0	3884.0	3712.4	3579.9	3511.9	3501.5	3445.1	3425.5
17.5°	4907.2	4715.9	4325.3	3999.3	3758.5	3570.6	3415.1	3341.4	3281.4	3250.3	3223.8
20°	5062.7	4817.3	4342.6	3916.3	3600.6	3384.0	3190.4	3093.6	3052.2	3001.5	3004.9
22.5°	5284.0	4976.3	4372.6	3851.8	3457.7	3184.7	2966.9	2858.6	2783.7	2741.1	2743.4
25°	5595.0	5216.0	4431.3	3790.7	3302.2	2966.9	2710.0	2559.0	2483.0	2455.3	2426.5
27.5°	5987.9	5502.9	4570.7	3715.8	3117.8	2720.3	2435.7	2259.4	2182.3	2140.8	2135.0
30°	6492.6	5879.6	4734.4	3660.5	2924.3	2412.7	2095.8	1956.4	1888.4	1829.7	1802.0
32.5°	7107.9	6412.0	4916.4	3605.2	2684.6	2068.2	1781.3	1674.1	1565.8	1490.9	1494.4
35°	7822.2	6991.5	5187.2	3534.9	2403.5	1746.7	1548.5	1410.3	1308.9	1259.3	1236.3
37.5°	8496.3	7586.0	5505.2	3463.5	2088.9	1538.2	1319.3	1191.4	1113.0	1075.0	1083.1
40°	9178.4	8199.0	5779.4	3288.4	1736.4	1349.2	1092.3	1019.7	988.6	958.6	962.1
42.5°	9789.0	8687.5	5979.9	3093.6	1489.8	1132.6	931.0	947.1	965.5	948.3	943.6
45°	10425.0	9259.0	6156.2	2761.8	1283.5	962.1	890.6	935.6	975.9	973.6	967.8
47.5°	11063.4	9789.0	6173.4	2321.7	1095.7	904.5	889.5	922.9	975.9	985.1	978.2
50°	11721.3	10344.4	6072.1	1803.2	1016.2	911.4	890.6	896.4	955.2	965.5	962.1
52.5°	12450.6	10944.7	5822.0	1371.1	985.1	922.9	894.1	886.0	919.4	937.9	941.3
55°	13121.2	11421.7	5353.1	1211.0	962.1	924.1	919.4	892.9	894.1	884.9	907.9
57.5°	13684.6	11876.8	4820.8	1123.4	941.3	913.7	931.0	881.4	867.6	829.6	820.4
60°	14267.6	12246.7	4071.8	1063.5	917.1	901.0	902.2	861.8	827.3	772.0	755.8
62.5°	14681.2	12442.5	3344.8	993.2	883.7	881.4	864.1	834.2	803.1	754.7	747.8
65°	14801.1	12338.8	2569.4	919.4	839.9	849.2	818.1	776.6	647.5	587.6	587.6
67.5°	14404.7	11700.5	1902.3	834.2	786.9	805.4	744.3	611.8	545.0	509.3	515.0
70°	13318.2	10669.3	1238.6	709.8	710.9	725.9	614.1	550.7	487.4	465.5	477.0
72.5°	11866.4	9140.3	816.9	565.7	599.1	573.8	561.1	507.0	450.5	425.2	433.2
75°	9778.7	7217.3	566.9	444.7	388.3	489.7	498.9	426.3	382.5	464.3	482.8
77.5°	7725.5	5016.6	467.8	311.1	286.9	361.8	399.8	395.2	632.6	743.2	735.1
80°	4593.8	2888.5	381.4	215.5	202.8	232.7	314.5	454.0	708.6	532.3	507.0
82.5°	2083.2	1313.5	202.8	112.9	132.5	154.4	235.0	564.6	464.3	341.0	321.5
85°	813.4	428.6	80.7	49.5	46.1	57.6	107.2	271.9	186.7	150.9	150.9
87.5°	104.8	77.2	23.0	17.3	15.0	18.4	34.6	150.9	87.6	73.7	71.4
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)