

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: P553625

Luminaire Tested: **VERD-G-CA2-160-750-U-T2**

Issue Date: 7/12/2021

Test Information

Test Method: LM-79-08
Report Number: P553625
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2102-155-2)
Test Lab: INNOVATION CENTER
Issue Date: 7/12/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VERD-G-CA2-160-750-U-T2
Description: VERDEON-G ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 5000K, 1460mA LEDS AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23369 lumens
Efficiency: N/A
Efficacy: 143.7 lumens/watt
Luminous Opening: Rectangular (W 0.9' x L: 1.25' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

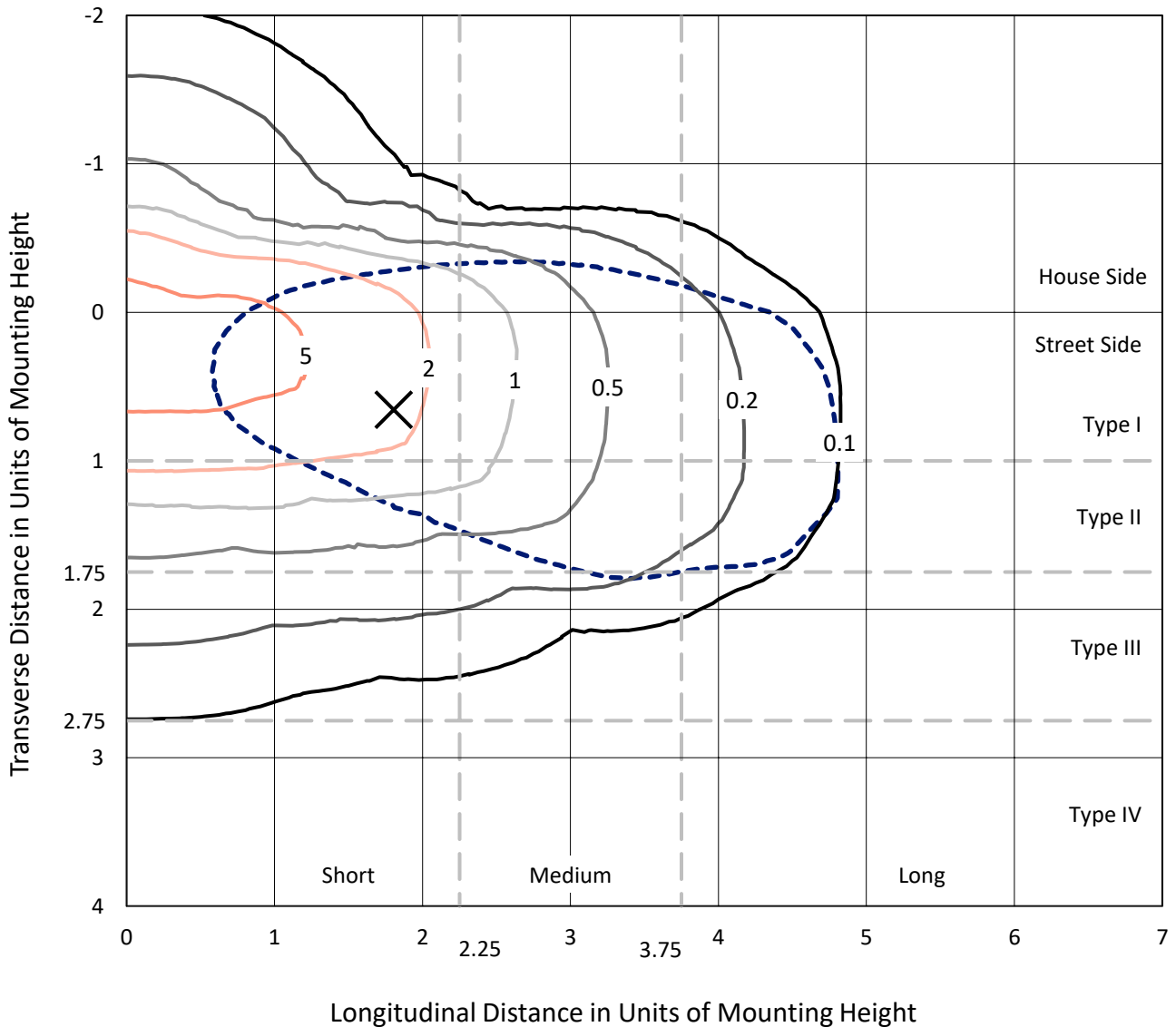
Input Watts (W): 162.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

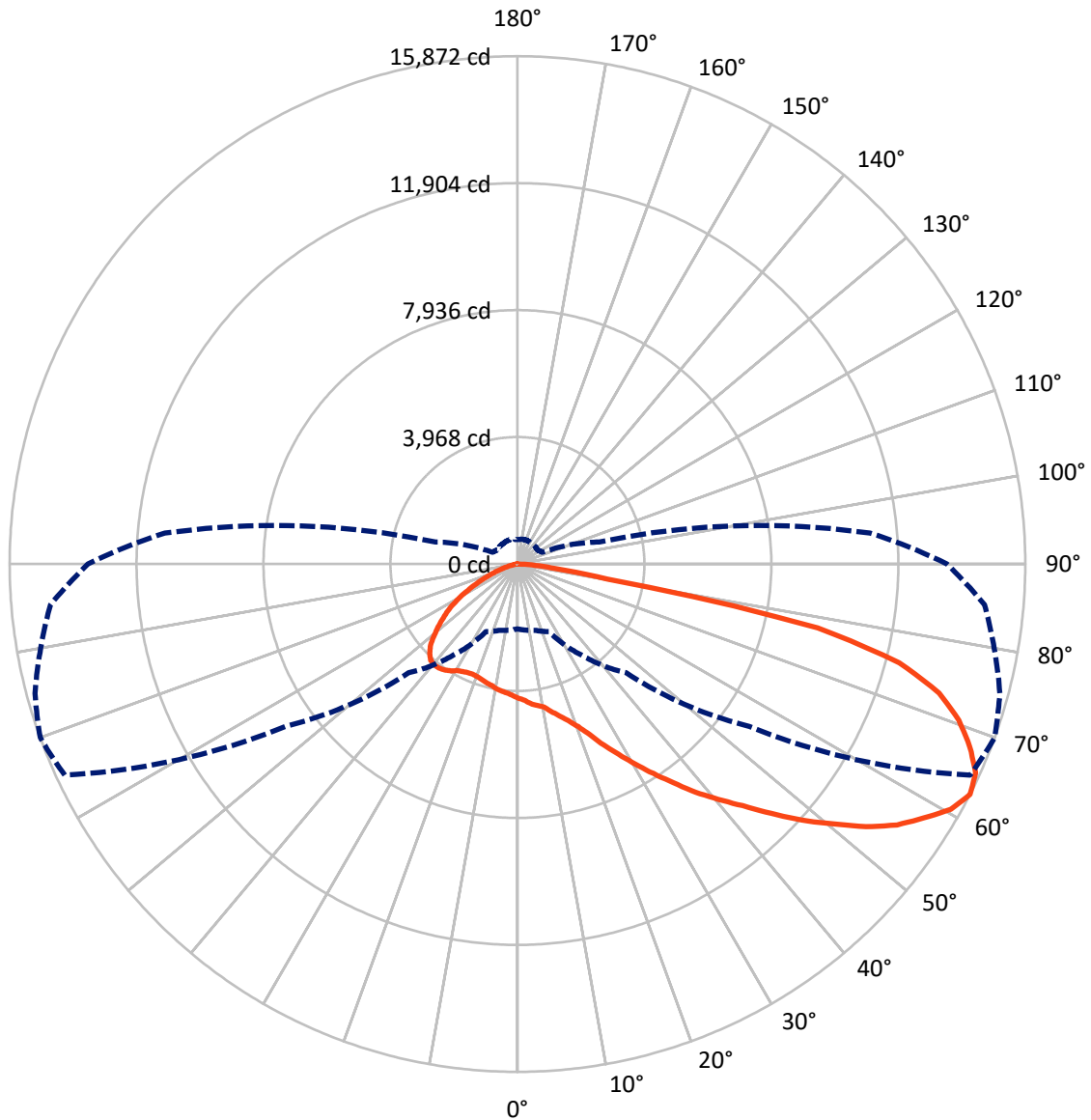
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8 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
House Side	Lumens	5971.6	0.0	5971.6
	% Fixture	25.6	0.0	25.6
Street Side	Lumens	17397.4	0.0	17397.4
	% Fixture	74.4	0.0	74.4
Total	Lumens	23369.0	0.0	23369.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	405.0	1.7
10°-20°	1232.0	5.3
20°-30°	2094.2	9.0
30°-40°	3013.5	12.9
40°-50°	3910.6	16.7
50°-60°	4584.2	19.6
60°-70°	4701.1	20.1
70°-80°	3084.8	13.2
80°-90°	343.7	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°	23369.0	100.0
0°-180°	23369.0	100.0

Coefficient of Utilization



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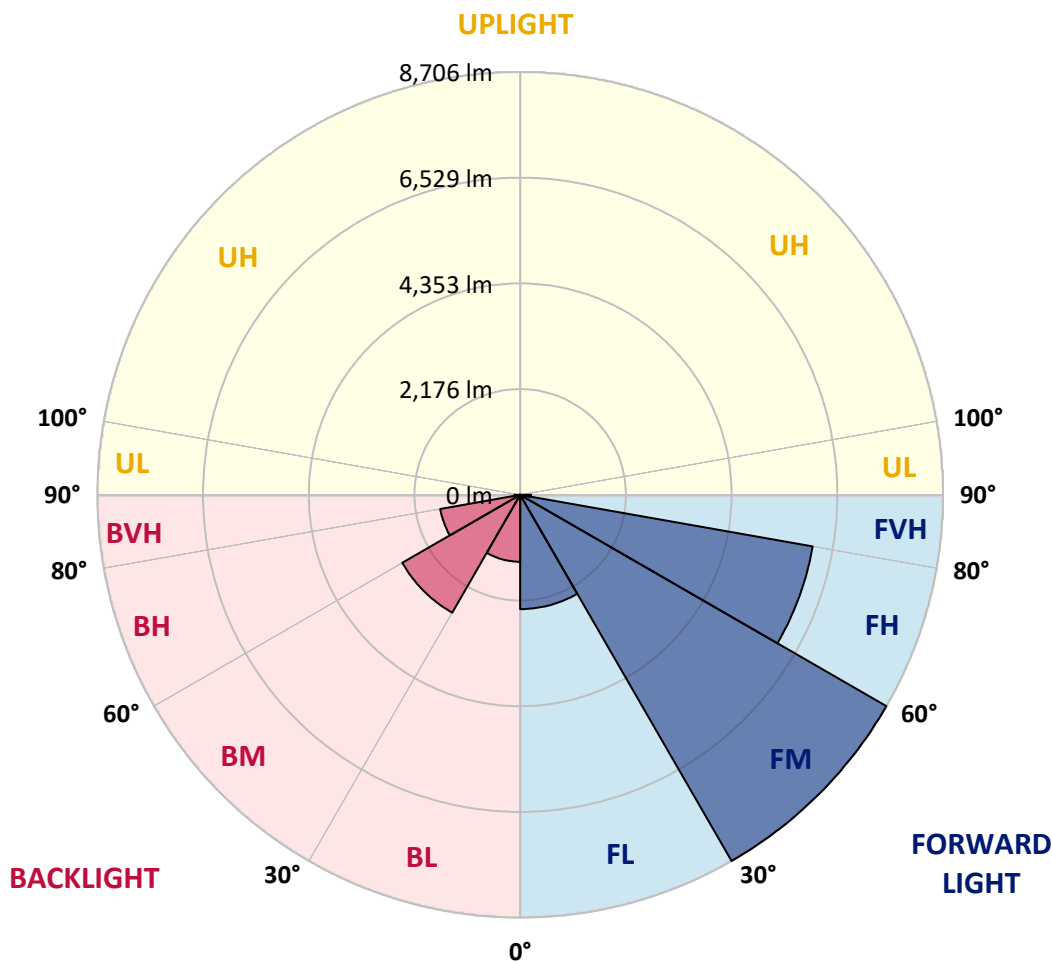
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2352.2	10.1			
FM	(30°-60°)	8705.6	37.3			
FH	(60°-80°)	6115.5	26.2			G3/7500
FVH	(80°-90°)	224.1	1.0			G2/225
BL	(0°-30°)	1378.9	5.9	B3/2500		
BM	(30°-60°)	2802.6	12.0	B3/5000		
BH	(60°-80°)	1670.4	7.1	B3/2500		G3/2500
BVH	(80°-90°)	119.6	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°	4194.1	4194.1	4194.1	4194.1	4194.1	4194.1	4194.1	4194.1	4194.1	4194.1	4194.1
2.5°	4463.8	4480.7	4453.1	4427.1	4401.0	4385.7	4359.6	4286.1	4260.0	4237.0	4191.1
5°	4695.2	4718.2	4678.4	4595.6	4575.7	4511.3	4476.1	4413.3	4387.2	4347.4	4270.8
7.5°	4966.5	4969.5	4912.8	4886.8	4820.9	4733.5	4621.7	4506.7	4468.4	4427.1	4330.5
10°	5124.3	5156.5	5101.3	5020.1	4974.1	4896.0	4778.0	4626.3	4542.0	4468.4	4361.2
12.5°	5346.5	5354.2	5265.3	5219.3	5158.0	5059.9	4945.0	4813.2	4730.5	4594.1	4399.5
15°	5508.9	5513.5	5433.8	5384.8	5326.6	5268.3	5144.2	5006.3	4925.1	4788.7	4493.0
17.5°	5625.4	5645.3	5596.3	5561.0	5499.7	5458.4	5360.3	5251.5	5145.8	5023.2	4687.6
20°	5752.6	5763.3	5672.9	5688.2	5677.5	5659.1	5613.1	5510.5	5424.6	5262.2	4843.9
22.5°	5787.8	5769.4	5793.9	5853.7	5882.8	5904.3	5890.5	5867.5	5789.4	5587.1	5139.6
25°	5735.7	5758.7	5816.9	5947.2	6109.6	6206.2	6275.1	6292.0	6269.0	6075.9	5535.0
27.5°	5721.9	5711.2	5806.2	6028.4	6301.2	6526.4	6662.8	6791.5	6733.3	6612.2	5980.9
30°	5663.7	5659.1	5826.1	6054.5	6405.4	6823.7	7067.4	7285.0	7257.4	7134.8	6503.4
32.5°	5521.2	5551.8	5680.6	6075.9	6564.7	7111.8	7409.1	7766.1	7807.5	7717.1	7032.1
35°	5337.3	5348.0	5553.4	6019.2	6688.9	7364.6	7796.8	8293.3	8389.8	8386.7	7626.7
37.5°	5104.4	5165.7	5384.8	5878.2	6742.5	7596.0	8169.1	8854.1	9047.2	9018.1	8221.2
40°	4871.5	4909.8	5168.7	5698.9	6747.1	7750.8	8484.8	9453.3	9667.8	9672.4	8898.6
42.5°	4522.1	4586.4	4857.7	5463.0	6644.4	7882.6	8799.0	10081.6	10325.2	10360.5	9526.8
45°	4230.9	4252.4	4493.0	5096.7	6422.2	7953.1	9148.3	10725.2	11119.0	11089.9	10072.4
47.5°	3853.9	3938.2	4192.6	4750.4	6074.4	7965.3	9451.8	11473.0	11960.3	11892.8	10815.6
50°	2982.0	3075.5	3768.1	4437.8	5634.6	7825.9	9695.4	12361.8	12758.6	12686.6	11448.5
52.5°	2629.6	2675.5	2956.0	4073.1	5177.9	7493.4	9890.0	13204.6	13638.2	13416.0	12188.6
55°	2479.4	2500.9	2628.0	3331.4	4774.9	6947.8	10001.9	14150.0	14393.7	14064.2	12878.2
57.5°	2317.0	2367.5	2431.9	2807.3	4325.9	6192.4	9932.9	14934.6	14974.5	14646.5	13466.6
60°	2163.7	2185.2	2318.5	2516.2	3809.5	5412.4	9543.7	15423.5	15564.4	15161.4	14174.6
62.5°	2027.3	2065.7	2143.8	2329.2	3464.7	4805.6	8851.1	15611.9	15872.4	15610.4	14652.7
65°	1898.6	1910.9	1999.8	2168.3	3083.2	4506.7	8451.1	15314.7	15737.6	15696.2	14862.6
67.5°	1746.9	1760.7	1838.9	1955.3	2606.6	4174.2	7409.1	14894.8	15250.3	15391.3	14743.1
70°	1549.2	1560.0	1651.9	1720.9	2185.2	3683.9	6221.5	14251.2	14635.8	14505.6	13940.1
72.5°	1322.4	1339.3	1412.9	1498.7	1817.4	3106.1	4873.0	12904.2	13785.3	13699.5	12747.9
75°	1068.1	1094.1	1153.9	1256.6	1477.2	2467.1	3449.4	10441.7	12323.4	12452.2	11001.0
77.5°	505.7	531.7	585.4	671.2	894.9	1720.9	1887.9	5885.9	9597.3	10394.2	8857.2
80°	165.5	168.6	396.9	453.6	568.5	1060.4	770.8	1920.1	2842.6	4807.1	4764.2
82.5°	88.9	96.5	214.5	263.6	285.0	285.0	225.3	847.4	1196.8	1463.4	1694.8
85°	47.5	49.0	75.1	90.4	98.1	78.2	58.2	349.4	560.9	700.3	694.2
87.5°	19.9	21.5	23.0	19.9	16.9	10.7	7.7	6.1	6.1	6.1	6.1
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°	4194.1	4194.1	4194.1	4194.1	4194.1	4194.1	4194.1	4194.1	4194.1	4194.1	4194.1
2.5°	4168.1	4146.6	4135.9	4091.5	4042.4	3990.3	3949.0	3950.5	3982.7	4007.2	4005.7
5°	4215.6	4162.0	4096.1	3991.9	3949.0	3910.6	3864.7	3803.4	3823.3	3847.8	3866.2
7.5°	4241.6	4172.7	4083.8	3929.0	3858.5	3775.8	3732.9	3653.2	3619.5	3644.0	3644.0
10°	4232.4	4162.0	4008.7	3895.3	3757.4	3627.2	3541.3	3521.4	3492.3	3487.7	3486.2
12.5°	4293.7	4189.5	3962.7	3795.7	3670.1	3503.0	3411.1	3392.7	3398.8	3360.5	3366.7
15°	4353.5	4235.5	3922.9	3749.7	3555.1	3359.0	3285.4	3218.0	3248.7	3216.5	3224.1
17.5°	4460.8	4318.3	3901.5	3657.8	3408.0	3237.9	3106.1	3029.5	3026.5	3021.9	3009.6
20°	4583.4	4385.7	3898.4	3578.1	3288.5	3086.2	2897.7	2813.5	2752.2	2773.6	2775.2
22.5°	4805.6	4512.9	3930.6	3504.6	3121.5	2894.7	2701.6	2572.9	2499.3	2511.6	2513.1
25°	5121.2	4779.5	4014.8	3441.7	2982.0	2672.5	2482.5	2320.0	2231.2	2232.7	2257.2
27.5°	5579.4	5098.2	4149.7	3388.1	2833.4	2462.5	2205.1	2045.7	1949.2	1947.7	1964.5
30°	6033.0	5496.7	4342.8	3311.5	2644.9	2180.6	1889.4	1762.2	1702.5	1662.6	1671.8
32.5°	6482.0	5924.2	4594.1	3271.6	2424.2	1848.1	1604.4	1517.1	1442.0	1368.4	1376.1
35°	6990.7	6325.7	4846.9	3192.0	2159.1	1572.2	1402.1	1282.6	1186.1	1147.8	1140.1
37.5°	7588.4	6793.1	5021.6	3124.5	1845.0	1386.8	1179.9	1091.1	1028.2	986.9	980.7
40°	8115.5	7185.4	5214.7	2966.7	1543.1	1219.8	985.3	937.8	930.2	898.0	893.4
42.5°	8648.8	7666.5	5346.5	2759.8	1336.2	1006.8	842.8	870.4	913.3	893.4	893.4
45°	9192.8	8169.1	5372.5	2450.3	1138.6	852.0	807.6	859.7	919.4	924.0	922.5
47.5°	9788.9	8615.1	5423.1	2007.4	997.6	812.2	801.4	844.3	921.0	948.5	942.4
50°	10464.7	9097.8	5282.1	1530.9	913.3	816.8	807.6	827.5	910.2	940.9	930.2
52.5°	11122.1	9562.1	5049.2	1167.7	859.7	821.4	839.7	824.4	884.2	914.8	927.1
55°	11731.9	10073.9	4555.8	1039.0	822.9	815.2	865.8	838.2	859.7	868.9	885.7
57.5°	12349.5	10450.9	4031.7	974.6	803.0	807.6	850.5	838.2	852.0	841.3	827.5
60°	12928.7	10847.8	3355.9	914.8	781.5	803.0	819.8	816.8	826.0	806.0	796.8
62.5°	13420.6	11062.3	2649.5	862.7	763.1	781.5	778.5	793.8	795.3	772.3	766.2
65°	13645.9	11154.2	2022.7	815.2	735.5	753.9	738.6	741.7	743.2	712.6	711.0
67.5°	13417.6	10648.5	1386.8	744.7	706.4	729.4	700.3	695.7	685.0	654.3	655.9
70°	12751.0	9804.2	925.6	643.6	643.6	683.4	666.6	655.9	629.8	600.7	609.9
72.5°	11261.5	8369.9	600.7	519.5	565.5	629.8	622.1	606.8	545.5	462.8	465.8
75°	9632.6	6642.9	400.0	378.5	432.1	545.5	517.9	481.2	456.7	482.7	514.9
77.5°	7501.0	4235.5	223.7	217.6	255.9	383.1	432.1	439.8	622.1	738.6	730.9
80°	3893.8	2151.5	130.3	107.3	151.7	257.4	340.2	462.8	772.3	582.3	563.9
82.5°	1530.9	806.0	79.7	56.7	67.4	105.7	225.3	665.1	585.4	294.2	282.0
85°	524.1	182.4	32.2	29.1	32.2	44.4	88.9	596.1	303.4	187.0	177.8
87.5°	6.1	6.1	7.7	9.2	10.7	10.7	24.5	283.5	141.0	87.3	84.3
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)