

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: P553513

Luminaire Tested: **VERD-G-CA2-140-730-U-T2**

Issue Date: 7/12/2021

Test Information

Test Method: LM-79-08
Report Number: P553513
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-CA2-140-730-U-T2
Description: VERDEON-G ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 1290mA LEDS AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20320 lumens
Efficiency: N/A
Efficacy: 142.7 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

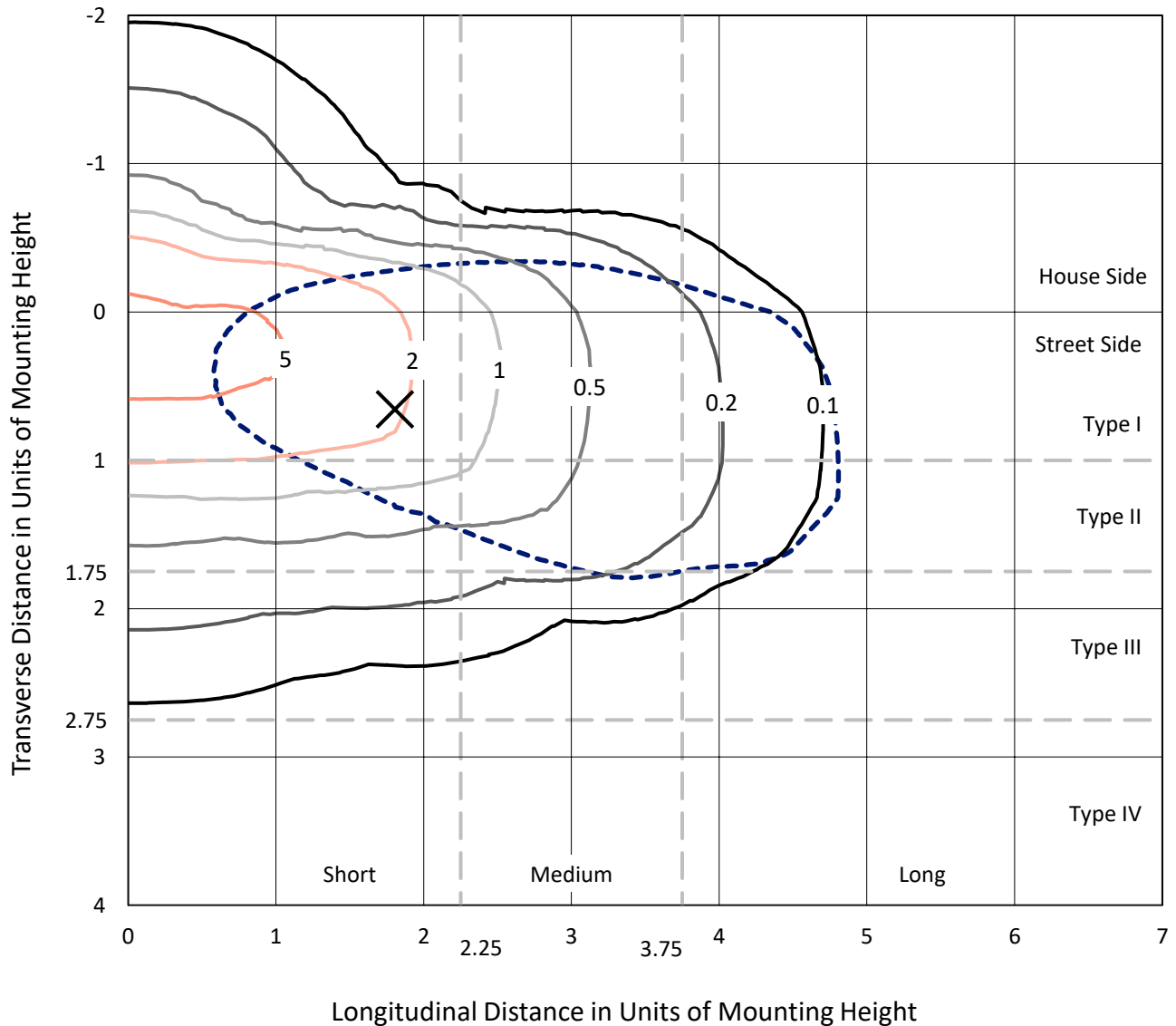
Input Watts (W): 142.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

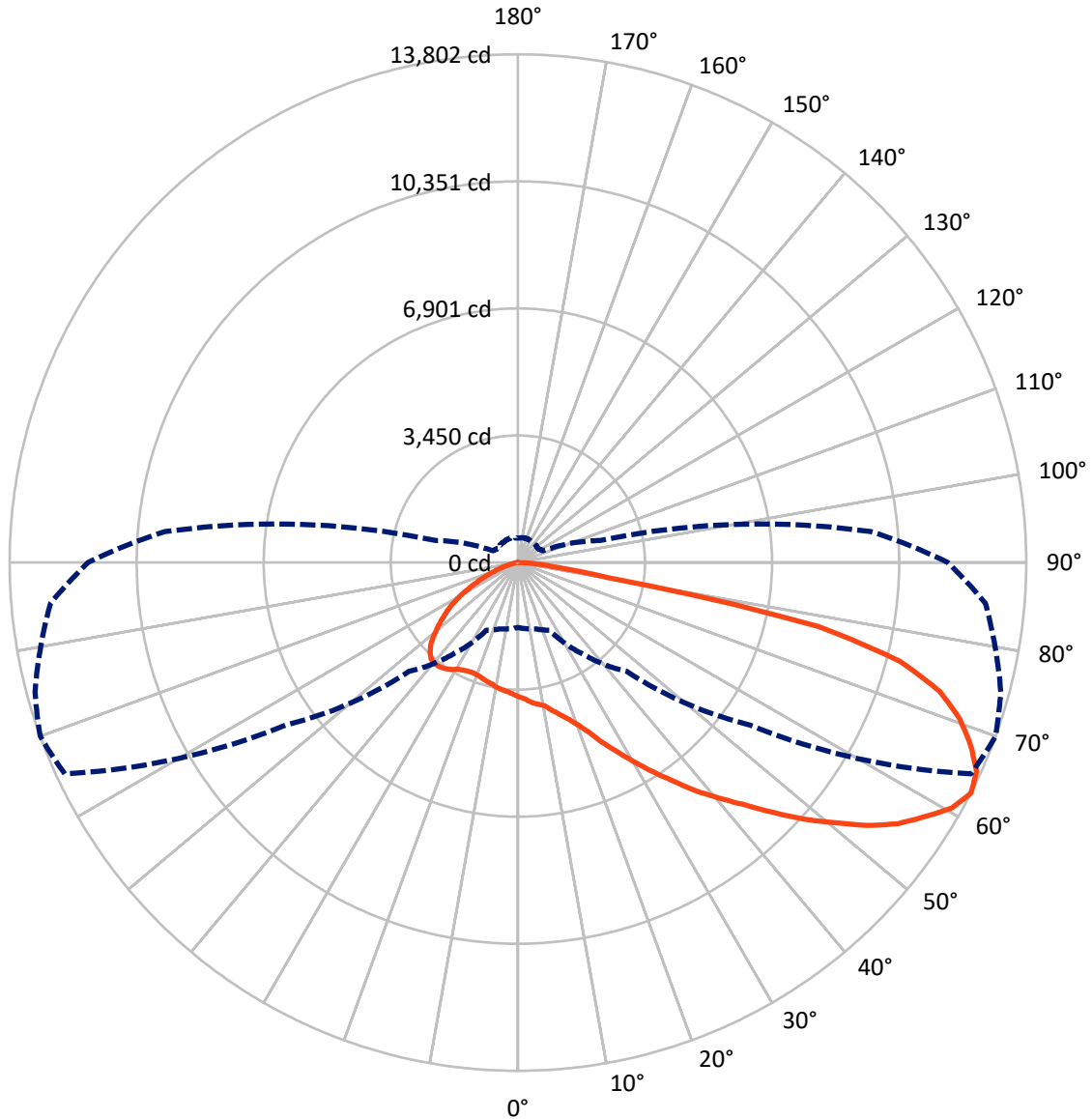
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.9 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	5192.5	0.0	5192.5
	% Fixture	25.6	0.0	25.6
Street Side	Lumens	15127.5	0.0	15127.5
	% Fixture	74.4	0.0	74.4
Total	Lumens	20320.0	0.0	20320.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	352.2	1.7
10°-20°	1071.3	5.3
20°-30°	1820.9	9.0
30°-40°	2620.3	12.9
40°-50°	3400.4	16.7
50°-60°	3986.1	19.6
60°-70°	4087.7	20.1
70°-80°	2682.3	13.2
80°-90°	298.8	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°	20320.0	100.0
0°-180°	20320.0	100.0

Coefficient of Utilization



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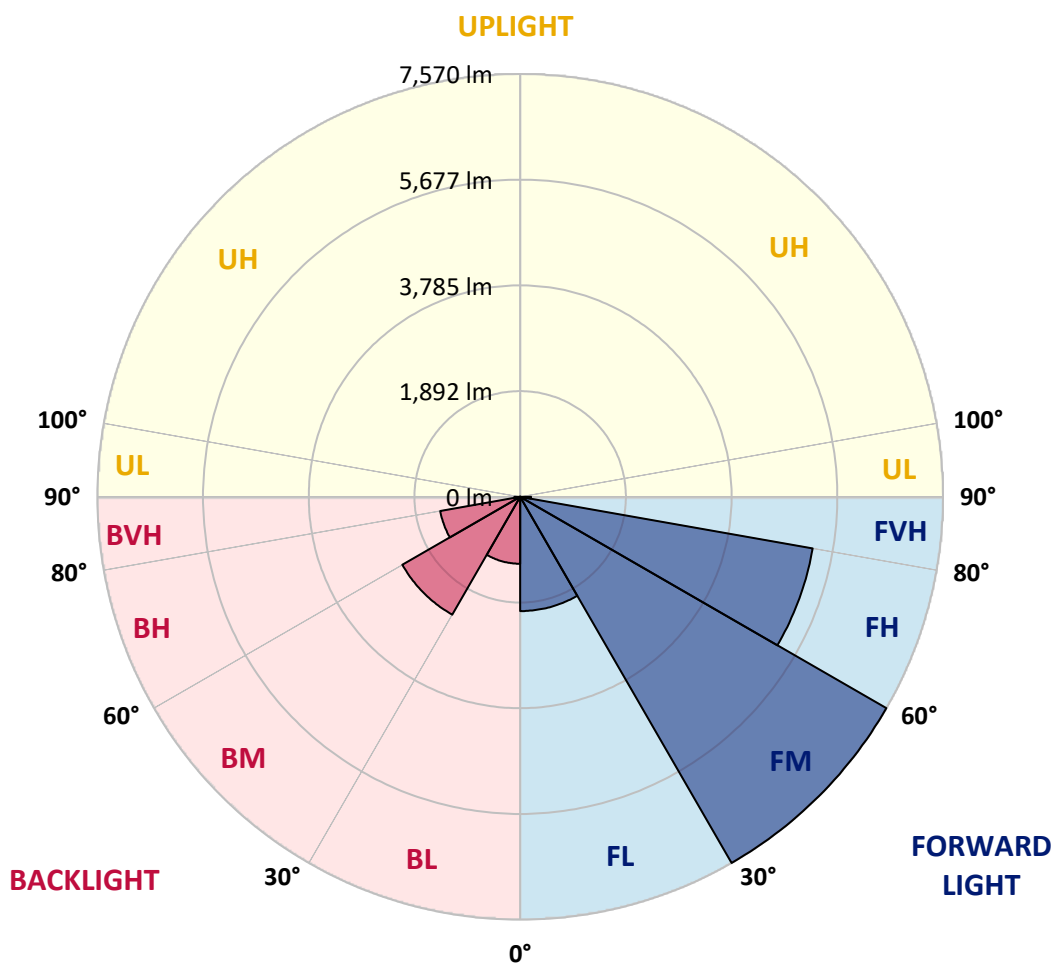
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2045.3	10.1			
FM (30°-60°)	7569.8	37.3			
FH (60°-80°)	5317.6	26.2			G3/7500
FVH (80°-90°)	194.9	1.0			G2/225
BL (0°-30°)	1199.0	5.9	B3/2500		
BM (30°-60°)	2437.0	12.0	B2/2500		
BH (60°-80°)	1452.5	7.1	B3/2500		G3/2500
BVH (80°-90°)	104.0	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°	3646.9	3646.9	3646.9	3646.9	3646.9	3646.9	3646.9	3646.9	3646.9	3646.9	3646.9
2.5°	3881.4	3896.1	3872.1	3849.5	3826.8	3813.5	3790.8	3726.9	3704.2	3684.2	3644.3
5°	4082.6	4102.6	4068.0	3996.0	3978.7	3922.7	3892.1	3837.5	3814.8	3780.2	3713.5
7.5°	4318.5	4321.1	4271.8	4249.2	4191.9	4115.9	4018.7	3918.7	3885.4	3849.5	3765.5
10°	4455.7	4483.7	4435.7	4365.1	4325.1	4257.2	4154.6	4022.7	3949.4	3885.4	3792.2
12.5°	4648.9	4655.6	4578.3	4538.3	4485.0	4399.8	4299.8	4185.2	4113.3	3994.7	3825.5
15°	4790.2	4794.2	4724.9	4682.2	4631.6	4581.0	4473.0	4353.1	4282.5	4163.9	3906.7
17.5°	4891.4	4908.8	4866.1	4835.5	4782.2	4746.2	4660.9	4566.3	4474.4	4367.8	4076.0
20°	5002.0	5011.4	4932.7	4946.1	4936.7	4920.7	4880.8	4791.5	4716.9	4575.6	4211.9
22.5°	5032.7	5016.7	5038.0	5090.0	5115.3	5133.9	5121.9	5102.0	5034.0	4858.1	4469.0
25°	4987.4	5007.4	5058.0	5171.2	5312.5	5396.4	5456.4	5471.0	5451.1	5283.2	4812.8
27.5°	4975.4	4966.0	5048.7	5241.9	5479.0	5674.9	5793.5	5905.4	5854.8	5749.5	5200.6
30°	4924.7	4920.7	5066.0	5264.5	5569.6	5933.4	6145.3	6334.5	6310.5	6203.9	5654.9
32.5°	4800.8	4827.5	4939.4	5283.2	5708.2	6183.9	6442.4	6752.9	6788.8	6710.2	6114.6
35°	4640.9	4650.3	4828.8	5233.9	5816.2	6403.8	6779.5	7211.2	7295.2	7292.5	6631.6
37.5°	4438.4	4491.7	4682.2	5111.3	5862.8	6605.0	7103.3	7698.9	7866.8	7841.5	7148.6
40°	4235.9	4269.2	4494.4	4955.4	5866.8	6739.5	7377.8	8219.9	8406.4	8410.4	7737.5
42.5°	3932.1	3988.0	4223.9	4750.2	5777.5	6854.1	7650.9	8766.2	8978.1	9008.7	8283.9
45°	3678.9	3697.6	3906.7	4431.7	5584.3	6915.4	7954.7	9325.8	9668.3	9643.0	8758.2
47.5°	3351.1	3424.4	3645.6	4130.6	5281.8	6926.1	8218.6	9976.1	10399.8	10341.2	9404.4
50°	2593.0	2674.2	3276.5	3858.8	4899.4	6804.8	8430.4	10748.9	11094.0	11031.4	9954.7
52.5°	2286.5	2326.5	2570.3	3541.7	4502.4	6515.7	8599.6	11481.7	11858.8	11665.6	10598.3
55°	2155.9	2174.6	2285.2	2896.8	4151.9	6041.3	8696.9	12303.9	12515.7	12229.2	11197.9
57.5°	2014.7	2058.6	2114.6	2441.1	3761.5	5384.4	8637.0	12986.1	13020.7	12735.6	11709.6
60°	1881.4	1900.1	2016.0	2187.9	3312.5	4706.2	8298.5	13411.1	13533.7	13183.3	12325.2
62.5°	1762.8	1796.1	1864.1	2025.3	3012.7	4178.6	7696.2	13575.0	13801.5	13573.7	12740.9
65°	1650.9	1661.6	1738.8	1885.4	2680.9	3918.7	7348.5	13316.5	13684.3	13648.3	12923.5
67.5°	1519.0	1531.0	1598.9	1700.2	2266.5	3629.6	6442.4	12951.4	13260.6	13383.1	12819.5
70°	1347.1	1356.4	1436.4	1496.3	1900.1	3203.2	5409.8	12391.8	12726.2	12613.0	12121.3
72.5°	1149.9	1164.6	1228.5	1303.1	1580.3	2700.9	4237.2	11220.6	11986.7	11912.1	11084.7
75°	928.7	951.4	1003.3	1092.6	1284.5	2145.2	2999.3	9079.3	10715.6	10827.5	9565.7
77.5°	439.7	462.4	509.0	583.6	778.2	1496.3	1641.6	5117.9	8345.1	9038.0	7701.6
80°	143.9	146.6	345.1	394.4	494.3	922.1	670.2	1669.6	2471.7	4179.9	4142.6
82.5°	77.3	83.9	186.5	229.2	247.8	247.8	195.9	736.8	1040.6	1272.5	1473.7
85°	41.3	42.6	65.3	78.6	85.3	68.0	50.6	303.8	487.7	608.9	603.6
87.5°	17.3	18.7	20.0	17.3	14.7	9.3	6.7	5.3	5.3	5.3	5.3
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°	3646.9	3646.9	3646.9	3646.9	3646.9	3646.9	3646.9	3646.9	3646.9	3646.9	3646.9
2.5°	3624.3	3605.6	3596.3	3557.6	3515.0	3469.7	3433.7	3435.1	3463.0	3484.4	3483.0
5°	3665.6	3618.9	3561.6	3471.0	3433.7	3400.4	3360.4	3307.1	3324.5	3345.8	3361.8
7.5°	3688.2	3628.3	3551.0	3416.4	3355.1	3283.2	3245.9	3176.6	3147.3	3168.6	3168.6
10°	3680.2	3618.9	3485.7	3387.1	3267.2	3153.9	3079.3	3062.0	3036.7	3032.7	3031.3
12.5°	3733.5	3642.9	3445.7	3300.5	3191.2	3046.0	2966.0	2950.0	2955.4	2922.1	2927.4
15°	3785.5	3682.9	3411.1	3260.5	3091.3	2920.7	2856.8	2798.1	2824.8	2796.8	2803.5
17.5°	3878.8	3754.8	3392.4	3180.6	2963.4	2815.5	2700.9	2634.3	2631.6	2627.6	2616.9
20°	3985.4	3813.5	3389.8	3111.3	2859.4	2683.6	2519.7	2446.4	2393.1	2411.7	2413.1
22.5°	4178.6	3924.1	3417.7	3047.3	2714.2	2517.0	2349.1	2237.2	2173.2	2183.9	2185.2
25°	4453.1	4155.9	3491.0	2992.7	2593.0	2323.8	2158.6	2017.3	1940.1	1941.4	1962.7
27.5°	4851.5	4433.1	3608.3	2946.1	2463.7	2141.3	1917.4	1778.8	1694.9	1693.5	1708.2
30°	5245.9	4779.5	3776.2	2879.4	2299.8	1896.1	1642.9	1532.3	1480.4	1445.7	1453.7
32.5°	5636.3	5151.3	3994.7	2844.8	2107.9	1606.9	1395.1	1319.1	1253.8	1189.9	1196.5
35°	6078.6	5500.4	4214.5	2775.5	1877.4	1367.1	1219.2	1115.3	1031.3	998.0	991.3
37.5°	6598.3	5906.8	4366.4	2716.9	1604.3	1205.9	1026.0	948.7	894.1	858.1	852.8
40°	7056.7	6247.9	4534.3	2579.6	1341.8	1060.6	856.8	815.5	808.8	780.8	776.8
42.5°	7520.4	6666.3	4648.9	2399.7	1161.9	875.4	732.8	756.8	794.1	776.8	776.8
45°	7993.4	7103.3	4671.6	2130.6	990.0	740.8	702.2	747.5	799.5	803.5	802.1
47.5°	8511.7	7491.0	4715.5	1745.5	867.4	706.2	696.9	734.2	800.8	824.8	819.5
50°	9099.3	7910.8	4593.0	1331.1	794.1	710.2	702.2	719.5	791.5	818.1	808.8
52.5°	9670.9	8314.5	4390.4	1015.3	747.5	714.2	730.2	716.9	768.8	795.5	806.1
55°	10201.3	8759.5	3961.4	903.4	715.5	708.9	752.8	728.9	747.5	755.5	770.2
57.5°	10738.2	9087.3	3505.7	847.4	698.2	702.2	739.5	728.9	740.8	731.5	719.5
60°	11241.9	9432.4	2918.1	795.5	679.6	698.2	712.9	710.2	718.2	700.9	692.9
62.5°	11669.6	9619.0	2303.8	750.2	663.6	679.6	676.9	690.2	691.5	671.6	666.2
65°	11865.5	9698.9	1758.8	708.9	639.6	655.6	642.2	644.9	646.2	619.6	618.3
67.5°	11667.0	9259.2	1205.9	647.6	614.3	634.2	608.9	604.9	595.6	569.0	570.3
70°	11087.3	8525.0	804.8	559.6	559.6	594.3	579.6	570.3	547.6	522.3	530.3
72.5°	9792.2	7277.9	522.3	451.7	491.7	547.6	541.0	527.7	474.4	402.4	405.1
75°	8375.8	5776.2	347.8	329.1	375.8	474.4	450.4	418.4	397.1	419.7	447.7
77.5°	6522.4	3682.9	194.5	189.2	222.5	333.1	375.8	382.4	541.0	642.2	635.6
80°	3385.8	1870.8	113.3	93.3	131.9	223.9	295.8	402.4	671.6	506.3	490.3
82.5°	1331.1	700.9	69.3	49.3	58.6	91.9	195.9	578.3	509.0	255.8	245.2
85°	455.7	158.6	28.0	25.3	28.0	38.6	77.3	518.3	263.8	162.6	154.6
87.5°	5.3	5.3	6.7	8.0	9.3	9.3	21.3	246.5	122.6	75.9	73.3
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)