

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: P509501

Luminaire Tested: **VERD-G-CA2-110-730-U-T2**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P509501
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2102-155-2)
Test Lab: INNOVATION CENTER
Issue Date: 4/6/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VERD-G-CA2-110-730-U-T2
Description: VERDEON-G ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 1020mA LEDS AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16278 lumens
Efficiency: N/A
Efficacy: 143.8 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

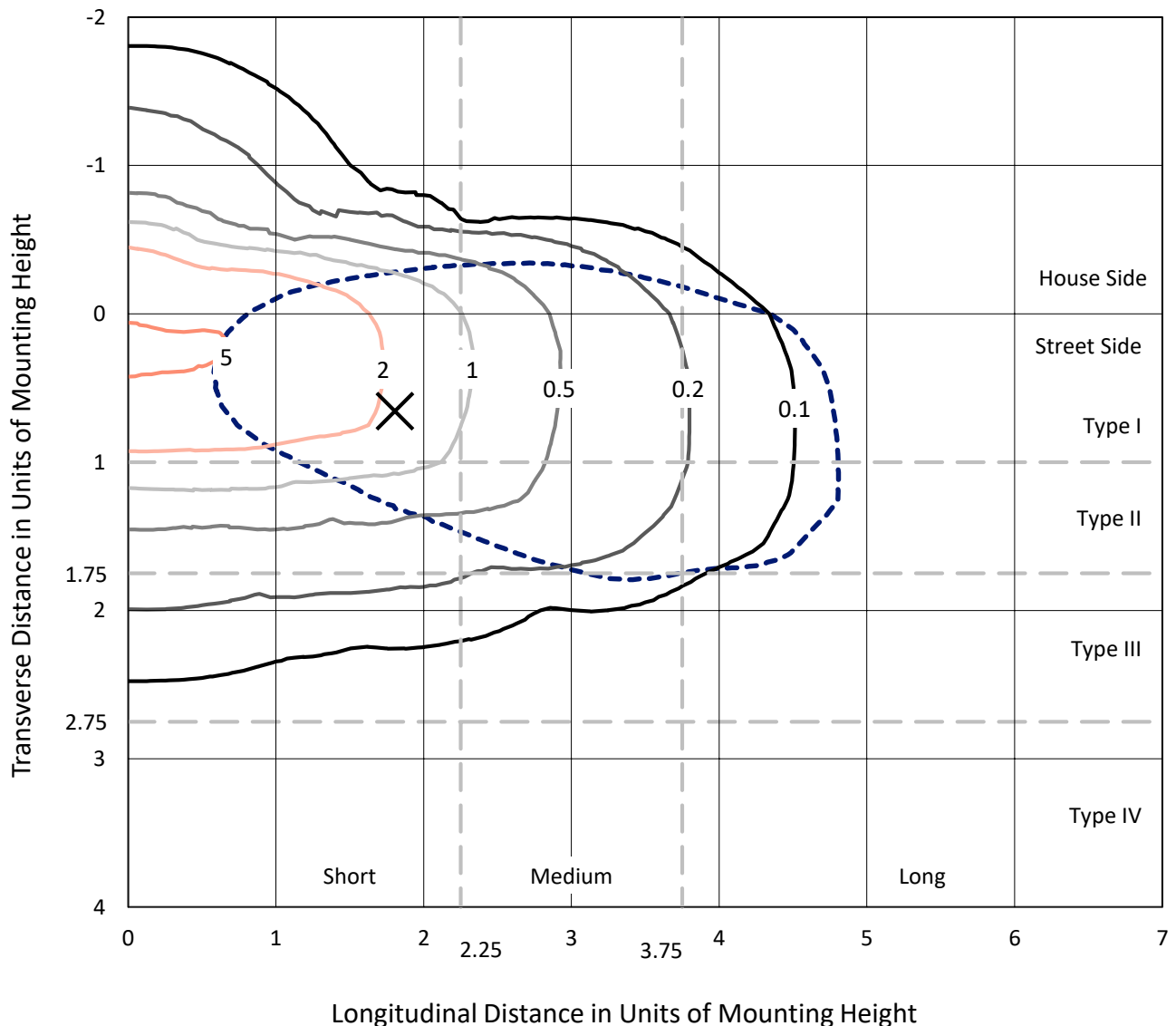
Input Watts (W): 113.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

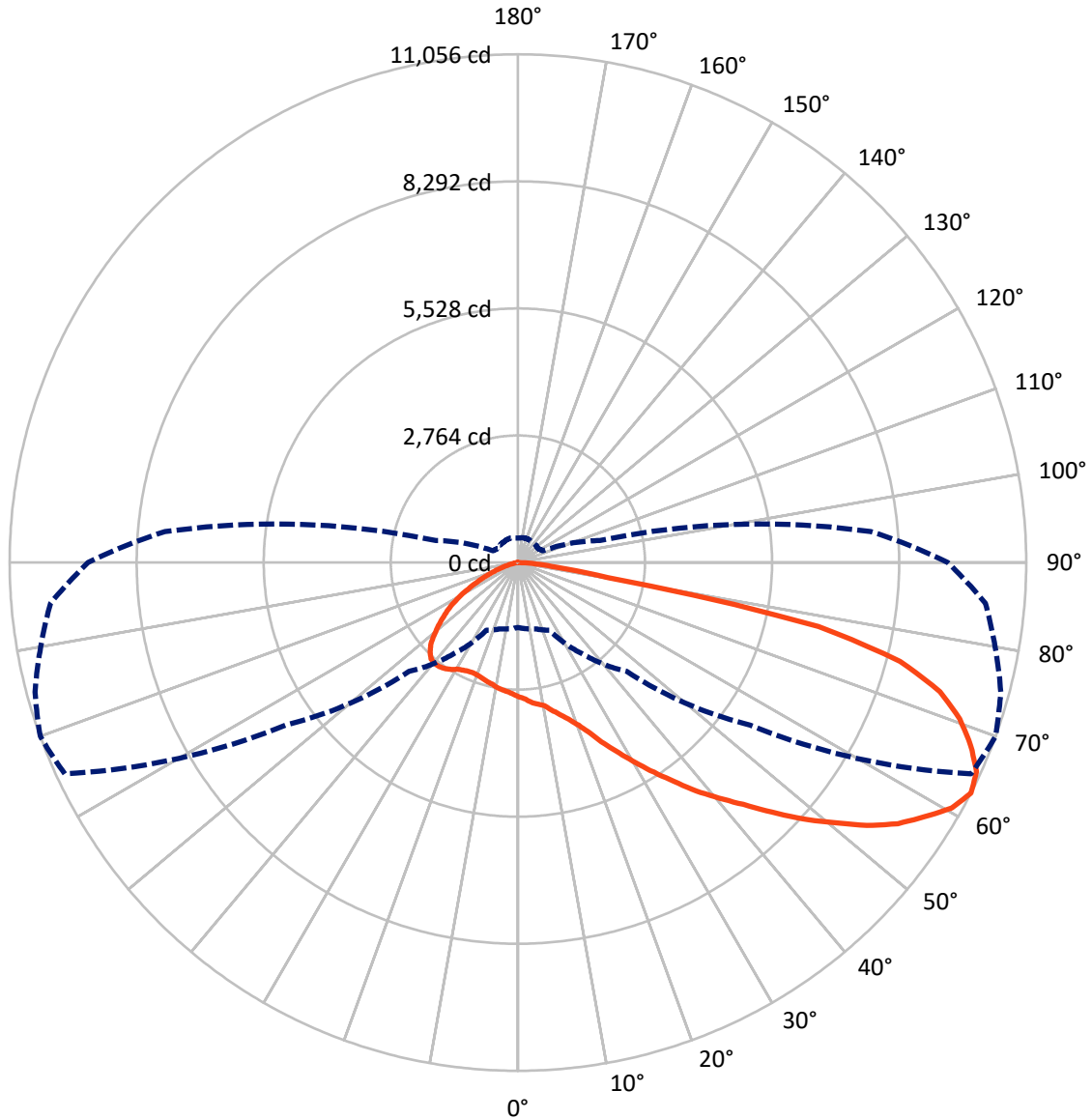
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.5 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	4159.6	0.0	4159.6
	% Fixture	25.6	0.0	25.6
Street Side	Lumens	12118.4	0.0	12118.4
	% Fixture	74.4	0.0	74.4
Total	Lumens	16278.0	0.0	16278.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	282.1	1.7
10°-20°	858.2	5.3
20°-30°	1458.7	9.0
30°-40°	2099.1	12.9
40°-50°	2724.0	16.7
50°-60°	3193.2	19.6
60°-70°	3274.6	20.1
70°-80°	2148.8	13.2
80°-90°	239.4	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°	16278.0	100.0
0°-180°	16278.0	100.0

Coefficient of Utilization



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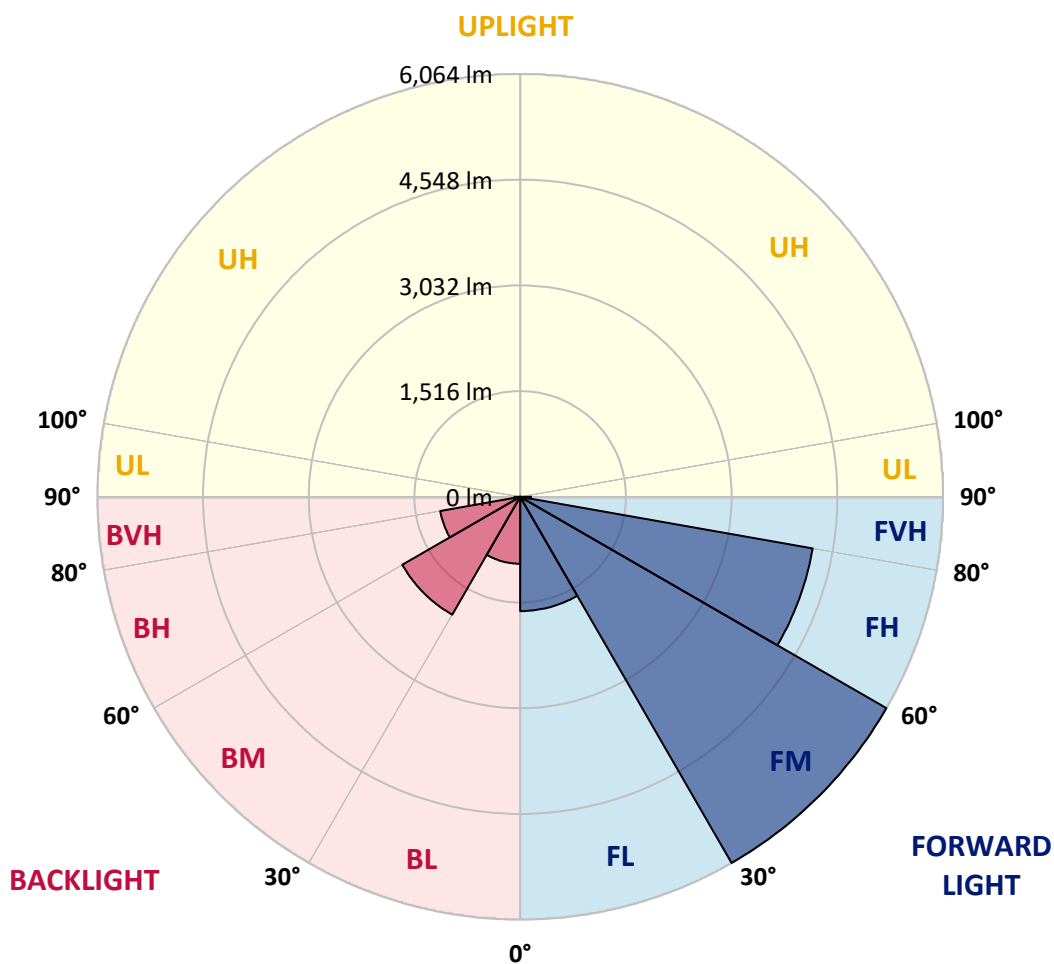
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1638.5	10.1			
FM (30°-60°)	6064.0	37.3			
FH (60°-80°)	4259.8	26.2			G2/5000
FVH (80°-90°)	156.1	1.0			G2/225
BL (0°-30°)	960.5	5.9	B2/1000		
BM (30°-60°)	1952.2	12.0	B2/2500		
BH (60°-80°)	1163.6	7.1	B3/2500		G3/2500
BVH (80°-90°)	83.3	0.5			G1/100
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°	2921.5	2921.5	2921.5	2921.5	2921.5	2921.5	2921.5	2921.5	2921.5	2921.5	2921.5
2.5°	3109.3	3121.1	3101.9	3083.7	3065.6	3054.9	3036.8	2985.5	2967.4	2951.4	2919.4
5°	3270.5	3286.5	3258.8	3201.1	3187.3	3142.4	3117.9	3074.1	3056.0	3028.2	2974.9
7.5°	3459.5	3461.6	3422.1	3404.0	3358.1	3297.2	3219.3	3139.2	3112.6	3083.7	3016.5
10°	3569.4	3591.8	3553.4	3496.8	3464.8	3410.4	3328.2	3222.5	3163.8	3112.6	3037.8
12.5°	3724.2	3729.5	3667.6	3635.6	3592.9	3524.6	3444.5	3352.7	3295.1	3200.1	3064.5
15°	3837.3	3840.5	3785.0	3750.9	3710.3	3669.7	3583.3	3487.2	3430.6	3335.6	3129.6
17.5°	3918.4	3932.3	3898.2	3873.6	3830.9	3802.1	3733.8	3658.0	3584.3	3499.0	3265.2
20°	4007.0	4014.5	3951.5	3962.2	3954.7	3941.9	3909.9	3838.4	3778.6	3665.5	3374.1
22.5°	4031.6	4018.8	4035.9	4077.5	4097.8	4112.7	4103.1	4087.1	4032.7	3891.8	3580.1
25°	3995.3	4011.3	4051.9	4142.6	4255.7	4323.0	4371.0	4382.8	4366.8	4232.3	3855.5
27.5°	3985.7	3978.2	4044.4	4199.2	4389.2	4546.1	4641.1	4730.7	4690.2	4605.8	4166.1
30°	3945.1	3941.9	4058.3	4217.3	4461.7	4753.2	4922.9	5074.4	5055.2	4969.8	4530.1
32.5°	3845.9	3867.2	3956.9	4232.3	4572.8	4953.8	5160.9	5409.6	5438.4	5375.4	4898.3
35°	3717.8	3725.2	3868.3	4192.8	4659.2	5129.9	5431.0	5776.8	5844.0	5841.9	5312.5
37.5°	3555.5	3598.2	3750.9	4094.6	4696.6	5291.1	5690.3	6167.5	6302.0	6281.7	5726.6
40°	3393.3	3420.0	3600.4	3969.7	4699.8	5398.9	5910.2	6584.8	6734.3	6737.5	6198.4
42.5°	3149.9	3194.7	3383.7	3805.3	4628.3	5490.7	6129.0	7022.5	7192.2	7216.7	6636.1
45°	2947.1	2962.0	3129.6	3550.2	4473.5	5539.8	6372.4	7470.8	7745.1	7724.8	7016.0
47.5°	2684.5	2743.2	2920.4	3309.0	4231.2	5548.4	6583.7	7991.7	8331.1	8284.1	7533.7
50°	2077.2	2142.3	2624.7	3091.2	3924.8	5451.2	6753.5	8610.8	8887.2	8837.0	7974.6
52.5°	1831.7	1863.7	2059.0	2837.2	3606.8	5219.6	6889.0	9197.8	9499.9	9345.1	8490.1
55°	1727.1	1742.0	1830.6	2320.5	3326.0	4839.6	6966.9	9856.4	10026.1	9796.6	8970.5
57.5°	1613.9	1649.1	1694.0	1955.5	3013.3	4313.4	6918.9	10402.9	10430.7	10202.2	9380.3
60°	1507.2	1522.1	1615.0	1752.7	2653.6	3770.1	6647.8	10743.4	10841.6	10560.9	9873.5
62.5°	1412.2	1438.9	1493.3	1622.5	2413.4	3347.4	6165.3	10874.7	11056.2	10873.6	10206.5
65°	1322.5	1331.1	1393.0	1510.4	2147.6	3139.2	5886.7	10667.6	10962.2	10933.4	10352.8
67.5°	1216.8	1226.4	1280.9	1362.0	1815.7	2907.6	5160.9	10375.2	10622.8	10721.0	10269.5
70°	1079.1	1086.6	1150.7	1198.7	1522.1	2566.0	4333.7	9926.9	10194.8	10104.0	9710.2
72.5°	921.2	932.9	984.1	1043.9	1265.9	2163.6	3394.3	8988.6	9602.4	9542.6	8879.7
75°	744.0	762.1	803.8	875.3	1029.0	1718.5	2402.7	7273.3	8584.1	8673.7	7662.9
77.5°	352.2	370.4	407.7	467.5	623.4	1198.7	1315.0	4099.9	6685.2	7240.2	6169.6
80°	115.3	117.4	276.5	316.0	396.0	738.6	536.9	1337.5	1980.0	3348.4	3318.6
82.5°	61.9	67.2	149.4	183.6	198.5	198.5	156.9	590.3	833.6	1019.4	1180.5
85°	33.1	34.2	52.3	63.0	68.3	54.4	40.6	243.4	390.7	487.8	483.5
87.5°	13.9	14.9	16.0	13.9	11.7	7.5	5.3	4.3	4.3	4.3	4.3
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°	2921.5	2921.5	2921.5	2921.5	2921.5	2921.5	2921.5	2921.5	2921.5	2921.5	2921.5
2.5°	2903.3	2888.4	2880.9	2850.0	2815.8	2779.5	2750.7	2751.8	2774.2	2791.3	2790.2
5°	2936.4	2899.1	2853.2	2780.6	2750.7	2724.0	2692.0	2649.3	2663.2	2680.3	2693.1
7.5°	2954.6	2906.5	2844.6	2736.8	2687.7	2630.1	2600.2	2544.7	2521.2	2538.3	2538.3
10°	2948.2	2899.1	2792.3	2713.3	2617.3	2526.5	2466.8	2452.9	2432.6	2429.4	2428.3
12.5°	2990.9	2918.3	2760.3	2644.0	2556.4	2440.1	2376.0	2363.2	2367.5	2340.8	2345.1
15°	3032.5	2950.3	2732.6	2611.9	2476.4	2339.8	2288.5	2241.5	2262.9	2240.5	2245.8
17.5°	3107.2	3007.9	2717.6	2547.9	2373.9	2255.4	2163.6	2110.3	2108.1	2104.9	2096.4
20°	3192.6	3054.9	2715.5	2492.4	2290.6	2149.8	2018.5	1959.8	1917.1	1932.0	1933.1
22.5°	3347.4	3143.5	2737.9	2441.2	2174.3	2016.3	1881.8	1792.2	1740.9	1749.5	1750.5
25°	3567.3	3329.2	2796.6	2397.4	2077.2	1861.6	1729.2	1616.1	1554.1	1555.2	1572.3
27.5°	3886.4	3551.3	2890.5	2360.0	1973.6	1715.3	1536.0	1425.0	1357.7	1356.7	1368.4
30°	4202.4	3828.8	3025.0	2306.7	1842.3	1518.9	1316.1	1227.5	1185.9	1158.1	1164.5
32.5°	4515.1	4126.6	3200.1	2278.9	1688.6	1287.3	1117.6	1056.7	1004.4	953.2	958.5
35°	4869.5	4406.2	3376.2	2223.4	1504.0	1095.2	976.7	893.4	826.2	799.5	794.1
37.5°	5285.8	4731.8	3497.9	2176.4	1285.2	966.0	821.9	760.0	716.2	687.4	683.1
40°	5653.0	5005.1	3632.4	2066.5	1074.9	849.7	686.3	653.3	647.9	625.5	622.3
42.5°	6024.4	5340.2	3724.2	1922.4	930.8	701.3	587.1	606.3	636.2	622.3	622.3
45°	6403.4	5690.3	3742.3	1706.8	793.1	593.5	562.5	598.8	640.4	643.6	642.6
47.5°	6818.6	6000.9	3777.5	1398.3	694.9	565.7	558.3	588.1	641.5	660.7	656.5
50°	7289.3	6337.2	3679.3	1066.3	636.2	568.9	562.5	576.4	634.0	655.4	647.9
52.5°	7747.2	6660.6	3517.1	813.4	598.8	572.1	584.9	574.3	615.9	637.2	645.8
55°	8172.0	7017.1	3173.4	723.7	573.2	567.9	603.1	583.9	598.8	605.2	617.0
57.5°	8602.2	7279.7	2808.3	678.9	559.3	562.5	592.4	583.9	593.5	586.0	576.4
60°	9005.7	7556.2	2337.6	637.2	544.4	559.3	571.1	568.9	575.3	561.5	555.1
62.5°	9348.3	7705.6	1845.5	600.9	531.6	544.4	542.2	552.9	554.0	538.0	533.7
65°	9505.2	7769.6	1409.0	567.9	512.4	525.2	514.5	516.6	517.7	496.3	495.3
67.5°	9346.2	7417.4	966.0	518.8	492.1	508.1	487.8	484.6	477.1	455.8	456.8
70°	8881.9	6829.3	644.7	448.3	448.3	476.1	464.3	456.8	438.7	418.4	424.8
72.5°	7844.4	5830.2	418.4	361.9	393.9	438.7	433.4	422.7	380.0	322.4	324.5
75°	6709.7	4627.2	278.6	263.6	301.0	380.0	360.8	335.2	318.1	336.2	358.6
77.5°	5224.9	2950.3	155.8	151.6	178.3	266.9	301.0	306.3	433.4	514.5	509.2
80°	2712.3	1498.6	90.7	74.7	105.7	179.3	237.0	322.4	538.0	405.6	392.8
82.5°	1066.3	561.5	55.5	39.5	47.0	73.7	156.9	463.3	407.7	204.9	196.4
85°	365.1	127.0	22.4	20.3	22.4	31.0	61.9	415.2	211.3	130.2	123.8
87.5°	4.3	4.3	5.3	6.4	7.5	7.5	17.1	197.5	98.2	60.8	58.7
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)