

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: P553601

Luminaire Tested: **VERD-G-CA2-160-727-U-T2**

Issue Date: 7/12/2021

Test Information

Test Method: LM-79-08
Report Number: P553601
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-CA2-160-727-U-T2
Description: VERDEON-G ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 1460mA LEDS AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19432 lumens
Efficiency: N/A
Efficacy: 119.5 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

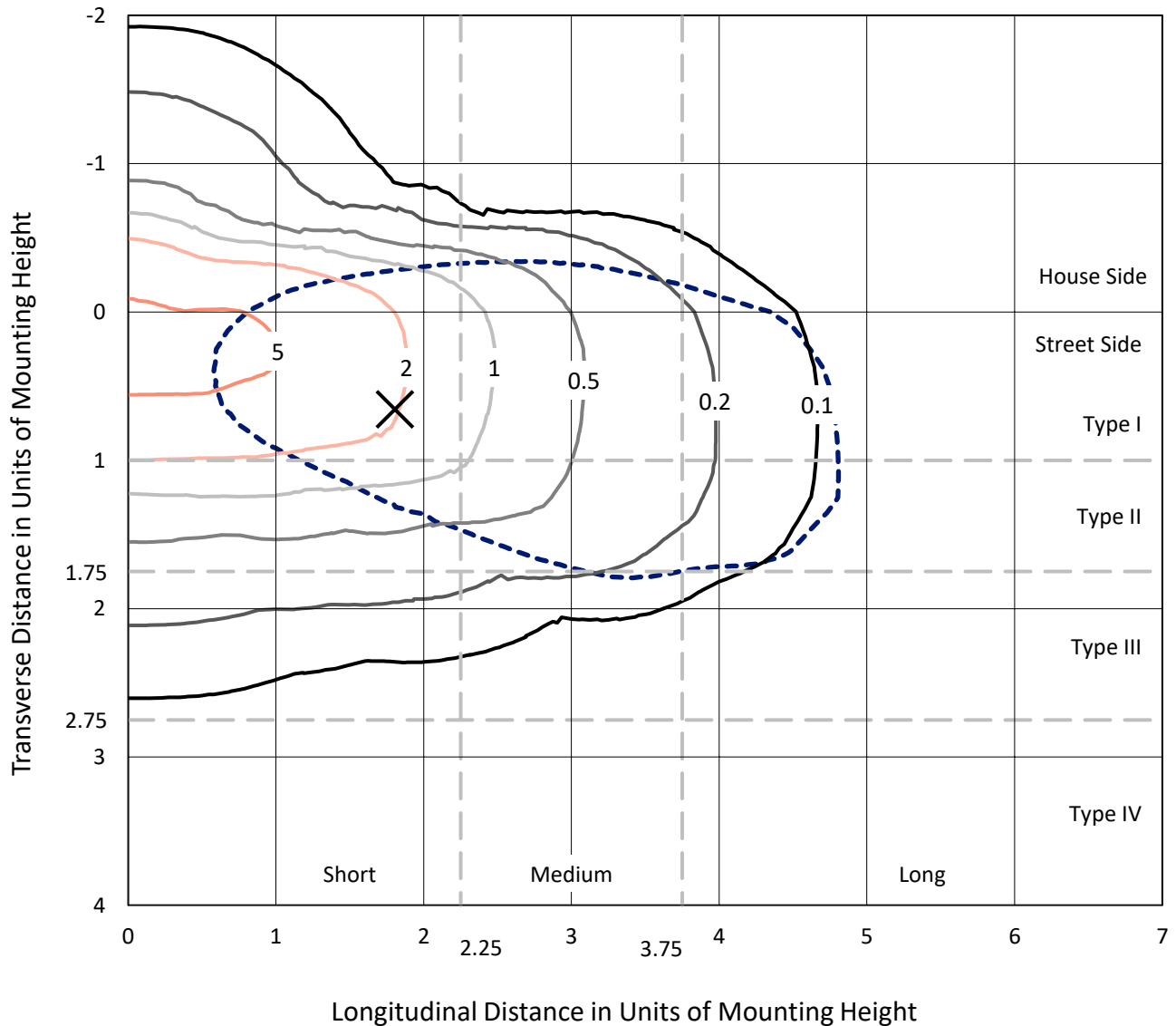
Input Watts (W): 162.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

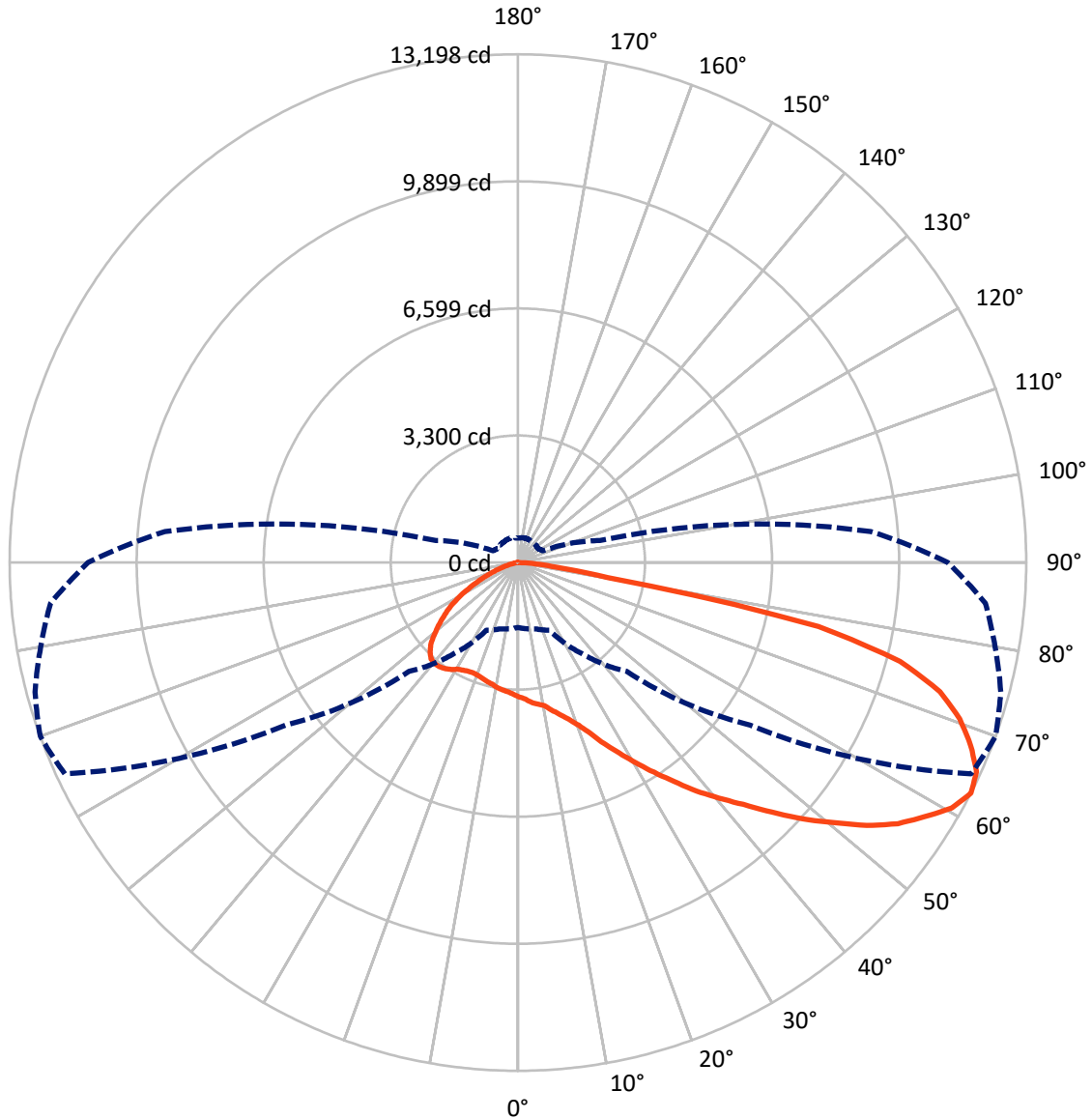
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.6 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	4965.5	0.0	4965.5
	% Fixture	25.6	0.0	25.6
Street Side	Lumens	14466.5	0.0	14466.5
	% Fixture	74.4	0.0	74.4
Total	Lumens	19432.0	0.0	19432.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	336.8	1.7
10°-20°	1024.4	5.3
20°-30°	1741.4	9.0
30°-40°	2505.8	12.9
40°-50°	3251.8	16.7
50°-60°	3811.9	19.6
60°-70°	3909.1	20.1
70°-80°	2565.1	13.2
80°-90°	285.8	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°	19432.0	100.0
0°-180°	19432.0	100.0

Coefficient of Utilization



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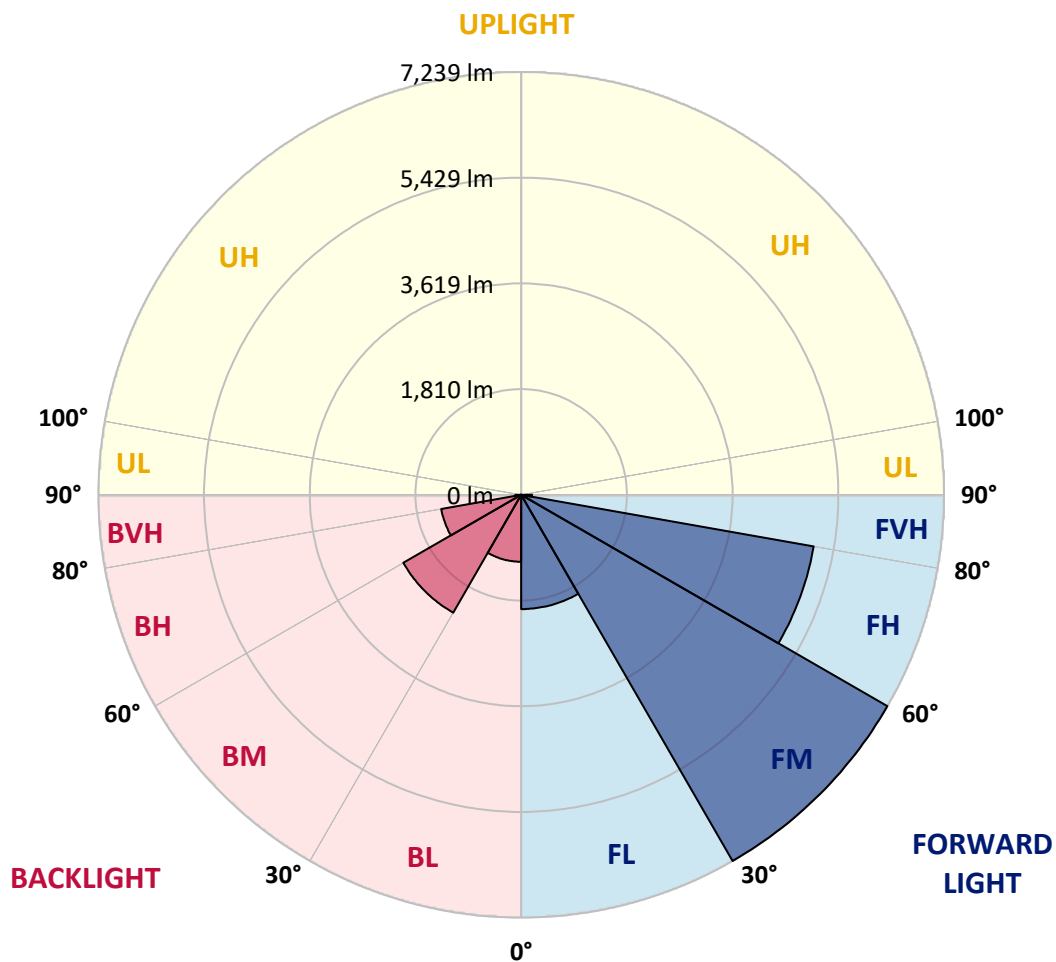
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1956.0	10.1			
FM (30°-60°)	7239.0	37.3			
FH (60°-80°)	5085.2	26.2			G3/7500
FVH (80°-90°)	186.3	1.0			G2/225
BL (0°-30°)	1146.6	5.9	B3/2500		
BM (30°-60°)	2330.5	12.0	B2/2500		
BH (60°-80°)	1389.0	7.1	B3/2500		G3/2500
BVH (80°-90°)	99.4	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°	3487.5	3487.5	3487.5	3487.5	3487.5	3487.5	3487.5	3487.5	3487.5	3487.5	3487.5
2.5°	3711.8	3725.8	3702.9	3681.2	3659.6	3646.8	3625.2	3564.0	3542.3	3523.2	3485.0
5°	3904.2	3923.3	3890.2	3821.4	3804.8	3751.3	3722.0	3669.8	3648.1	3615.0	3551.3
7.5°	4129.8	4132.3	4085.2	4063.5	4008.7	3936.1	3843.1	3747.5	3715.6	3681.2	3601.0
10°	4261.0	4287.8	4241.9	4174.4	4136.1	4071.1	3973.0	3846.9	3776.8	3715.6	3626.4
12.5°	4445.8	4452.1	4378.2	4340.0	4289.0	4207.5	4111.9	4002.3	3933.5	3820.1	3658.3
15°	4580.8	4584.7	4518.4	4477.6	4429.2	4380.8	4277.6	4162.9	4095.4	3981.9	3736.0
17.5°	4677.7	4694.2	4653.5	4624.2	4573.2	4538.8	4457.2	4366.8	4278.8	4176.9	3897.8
20°	4783.4	4792.4	4717.2	4729.9	4721.0	4705.7	4667.5	4582.1	4510.7	4375.7	4027.8
22.5°	4812.7	4797.4	4817.8	4867.5	4891.7	4909.6	4898.1	4879.0	4814.0	4645.8	4273.7
25°	4769.4	4788.5	4836.9	4945.3	5080.3	5160.6	5217.9	5232.0	5212.8	5052.3	4602.5
27.5°	4757.9	4749.0	4828.0	5012.8	5239.6	5426.9	5540.3	5647.4	5598.9	5498.3	4973.3
30°	4709.5	4705.7	4844.6	5034.5	5326.3	5674.1	5876.7	6057.7	6034.7	5932.8	5407.8
32.5°	4591.0	4616.5	4723.5	5052.3	5458.8	5913.7	6160.9	6457.8	6492.2	6417.0	5847.4
35°	4438.1	4447.0	4617.8	5005.1	5562.0	6123.9	6483.2	6896.1	6976.4	6973.8	6341.8
37.5°	4244.4	4295.4	4477.6	4887.9	5606.6	6316.3	6792.9	7362.5	7523.0	7498.8	6836.2
40°	4050.8	4082.6	4298.0	4738.8	5610.4	6445.0	7055.4	7860.7	8039.1	8042.9	7399.4
42.5°	3760.2	3813.7	4039.3	4542.6	5525.0	6554.6	7316.6	8383.1	8585.7	8615.0	7921.8
45°	3518.1	3536.0	3736.0	4238.1	5340.3	6613.2	7607.1	8918.3	9245.8	9221.6	8375.5
47.5°	3204.7	3274.8	3486.3	3950.1	5051.0	6623.4	7859.4	9540.1	9945.3	9889.2	8993.5
50°	2479.6	2557.4	3133.3	3690.1	4685.3	6507.5	8062.0	10279.2	10609.2	10549.3	9519.7
52.5°	2186.6	2224.8	2458.0	3386.9	4305.6	6230.9	8223.8	10980.0	11340.6	11155.8	10135.2
55°	2061.7	2079.5	2185.3	2770.2	3970.5	5777.3	8316.9	11766.2	11968.8	11694.8	10708.6
57.5°	1926.6	1968.7	2022.2	2334.4	3597.1	5149.1	8259.5	12418.6	12451.7	12179.0	11197.9
60°	1799.2	1817.0	1927.9	2092.3	3167.7	4500.6	7935.9	12825.1	12942.3	12607.2	11786.6
62.5°	1685.8	1717.7	1782.6	1936.8	2881.0	3996.0	7359.9	12981.8	13198.4	12980.5	12184.1
65°	1578.8	1589.0	1662.9	1803.0	2563.7	3747.5	7027.3	12734.6	13086.3	13051.9	12358.7
67.5°	1452.6	1464.1	1529.1	1625.9	2167.5	3471.0	6160.9	12385.4	12681.1	12798.3	12259.3
70°	1288.2	1297.2	1373.6	1431.0	1817.0	3063.2	5173.3	11850.3	12170.1	12061.8	11591.6
72.5°	1099.7	1113.7	1174.8	1246.2	1511.2	2582.8	4052.0	10730.2	11462.9	11391.6	10600.3
75°	888.1	909.8	959.5	1044.9	1228.4	2051.5	2868.3	8682.6	10247.3	10354.3	9147.6
77.5°	420.5	442.2	486.8	558.1	744.1	1431.0	1569.8	4894.3	7980.5	8643.1	7365.0
80°	137.6	140.2	330.0	377.2	472.7	881.8	640.9	1596.6	2363.7	3997.2	3961.6
82.5°	73.9	80.3	178.4	219.2	237.0	237.0	187.3	704.6	995.2	1216.9	1409.3
85°	39.5	40.8	62.4	75.2	81.6	65.0	48.4	290.5	466.4	582.3	577.2
87.5°	16.6	17.8	19.1	16.6	14.0	8.9	6.4	5.1	5.1	5.1	5.1
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°	3487.5	3487.5	3487.5	3487.5	3487.5	3487.5	3487.5	3487.5	3487.5	3487.5	3487.5
2.5°	3465.9	3448.0	3439.1	3402.2	3361.4	3318.1	3283.7	3284.9	3311.7	3332.1	3330.8
5°	3505.4	3460.8	3406.0	3319.4	3283.7	3251.8	3213.6	3162.6	3179.2	3199.6	3214.9
7.5°	3527.0	3469.7	3395.8	3267.1	3208.5	3139.7	3104.0	3037.7	3009.7	3030.1	3030.1
10°	3519.4	3460.8	3333.4	3239.1	3124.4	3016.1	2944.7	2928.2	2904.0	2900.1	2898.9
12.5°	3570.4	3483.7	3295.1	3156.2	3051.8	2912.9	2836.4	2821.1	2826.2	2794.4	2799.5
15°	3620.1	3522.0	3262.0	3118.0	2956.2	2793.1	2731.9	2675.9	2701.4	2674.6	2681.0
17.5°	3709.3	3590.8	3244.2	3041.6	2833.9	2692.4	2582.8	2519.1	2516.6	2512.8	2502.6
20°	3811.2	3646.8	3241.6	2975.3	2734.5	2566.3	2409.6	2339.5	2288.5	2306.3	2307.6
22.5°	3996.0	3752.6	3268.4	2914.1	2595.6	2407.0	2246.5	2139.4	2078.3	2088.5	2089.7
25°	4258.5	3974.3	3338.5	2861.9	2479.6	2222.2	2064.2	1929.2	1855.3	1856.5	1876.9
27.5°	4639.4	4239.3	3450.6	2817.3	2356.0	2047.7	1833.6	1701.1	1620.8	1619.5	1633.6
30°	5016.6	4570.6	3611.1	2753.6	2199.3	1813.2	1571.1	1465.4	1415.7	1382.5	1390.2
32.5°	5390.0	4926.1	3820.1	2720.5	2015.8	1536.7	1334.1	1261.5	1199.0	1137.9	1144.3
35°	5813.0	5260.0	4030.4	2654.2	1795.4	1307.4	1165.9	1066.5	986.2	954.4	948.0
37.5°	6310.0	5648.6	4175.6	2598.1	1534.2	1153.2	981.2	907.2	855.0	820.6	815.5
40°	6748.3	5974.8	4336.2	2466.9	1283.1	1014.3	819.3	779.8	773.5	746.7	742.9
42.5°	7191.7	6374.9	4445.8	2294.9	1111.1	837.2	700.8	723.8	759.4	742.9	742.9
45°	7644.1	6792.9	4467.4	2037.5	946.7	708.5	671.5	714.8	764.5	768.4	767.1
47.5°	8139.7	7163.7	4509.5	1669.2	829.5	675.3	666.4	702.1	765.8	788.7	783.6
50°	8701.7	7565.1	4392.2	1272.9	759.4	679.2	671.5	688.1	756.9	782.4	773.5
52.5°	9248.3	7951.2	4198.6	971.0	714.8	683.0	698.3	685.5	735.2	760.7	770.9
55°	9755.5	8376.7	3788.3	863.9	684.3	677.9	719.9	697.0	714.8	722.5	736.5
57.5°	10269.0	8690.2	3352.5	810.4	667.7	671.5	707.2	697.0	708.5	699.5	688.1
60°	10750.6	9020.2	2790.5	760.7	649.9	667.7	681.7	679.2	686.8	670.2	662.6
62.5°	11159.6	9198.6	2203.1	717.4	634.6	649.9	647.3	660.0	661.3	642.2	637.1
65°	11347.0	9275.1	1682.0	677.9	611.6	626.9	614.2	616.7	618.0	592.5	591.2
67.5°	11157.1	8854.6	1153.2	619.3	587.4	606.5	582.3	578.5	569.6	544.1	545.4
70°	10602.8	8152.5	769.6	535.2	535.2	568.3	554.3	545.4	523.7	499.5	507.1
72.5°	9364.3	6959.8	499.5	432.0	470.2	523.7	517.3	504.6	453.6	384.8	387.4
75°	8009.8	5523.8	332.6	314.7	359.3	453.6	430.7	400.1	379.7	401.4	428.1
77.5°	6237.3	3522.0	186.0	180.9	212.8	318.6	359.3	365.7	517.3	614.2	607.8
80°	3237.8	1789.0	108.3	89.2	126.1	214.1	282.9	384.8	642.2	484.2	468.9
82.5°	1272.9	670.2	66.3	47.1	56.1	87.9	187.3	553.0	486.8	244.7	234.5
85°	435.8	151.6	26.8	24.2	26.8	37.0	73.9	495.7	252.3	155.5	147.8
87.5°	5.1	5.1	6.4	7.6	8.9	8.9	20.4	235.7	117.2	72.6	70.1
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)