

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: P509581

Luminaire Tested: **VERD-G-CA2-130-722-U-T2**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P509581
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-CA2-130-722-U-T2
Description: VERDEON-G ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2200K, 1200mA LEDS AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15407 lumens
Efficiency: N/A
Efficacy: 115.1 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

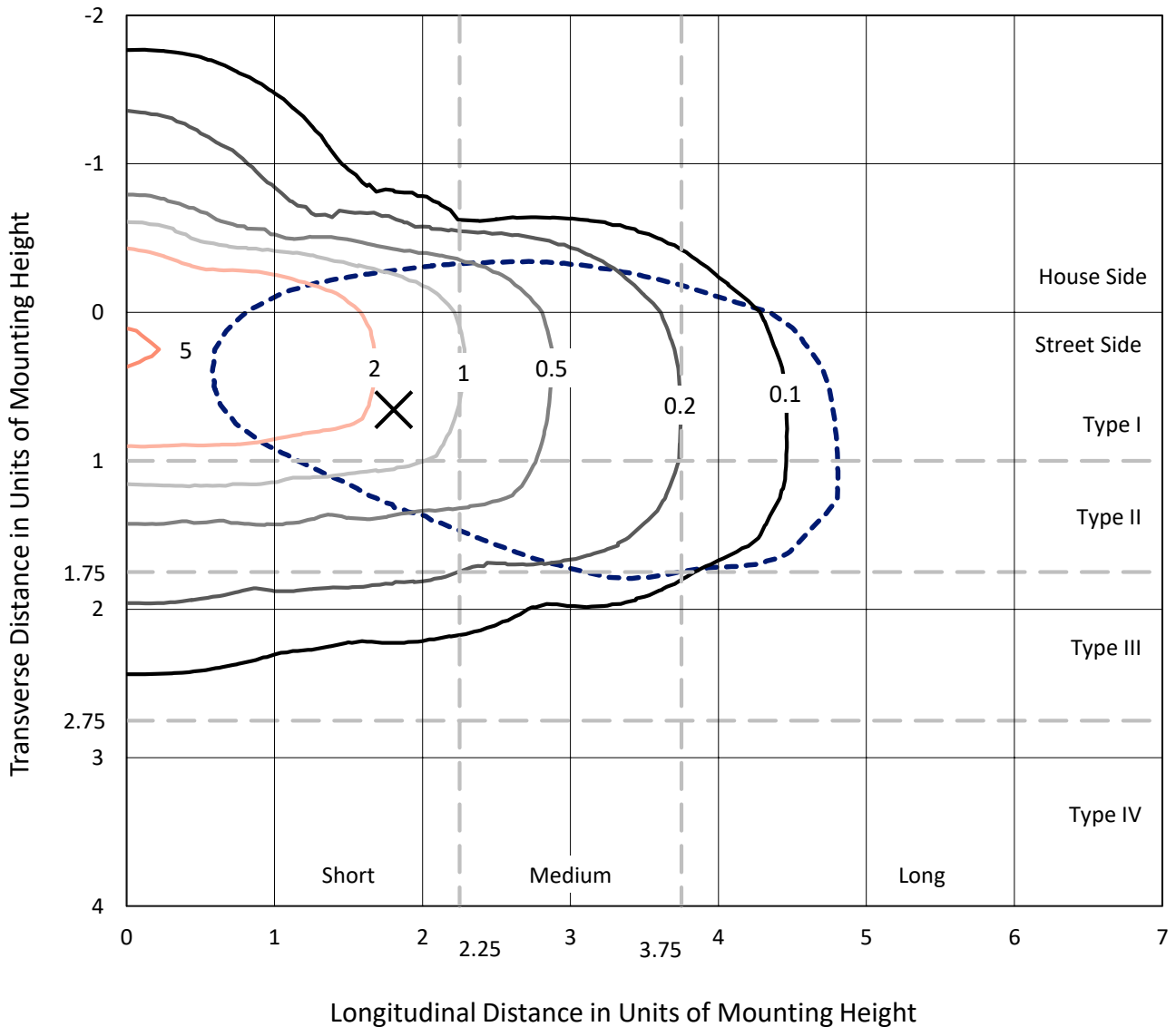
Input Watts (W): 133.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

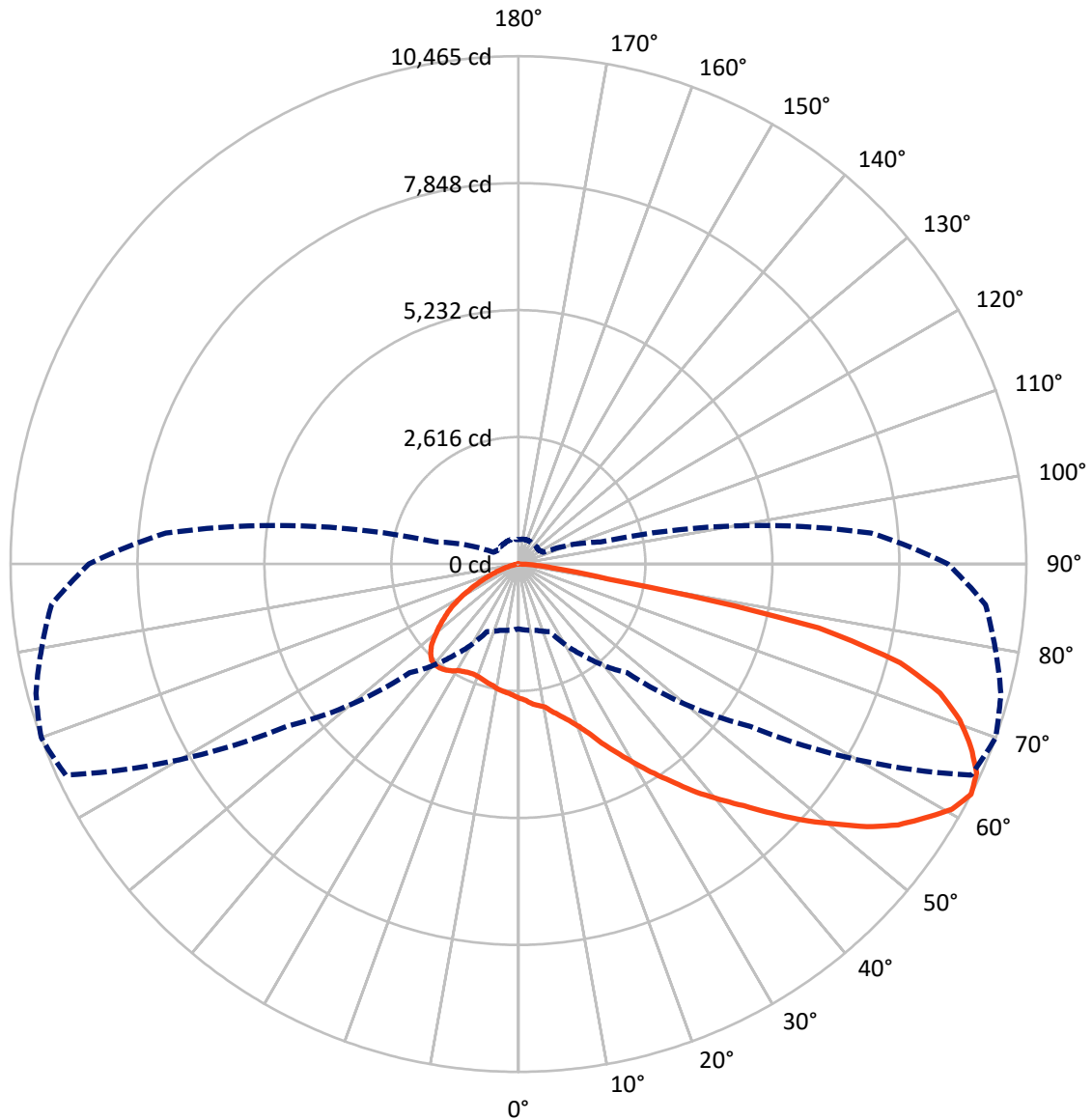
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.2 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	3937.0	0.0	3937.0
	% Fixture	25.6	0.0	25.6
Street Side	Lumens	11470.0	0.0	11470.0
	% Fixture	74.4	0.0	74.4
Total	Lumens	15407.0	0.0	15407.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	267.0	1.7
10°-20°	812.3	5.3
20°-30°	1380.7	9.0
30°-40°	1986.8	12.9
40°-50°	2578.2	16.7
50°-60°	3022.3	19.6
60°-70°	3099.4	20.1
70°-80°	2033.8	13.2
80°-90°	226.6	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°	15407.0	100.0
0°-180°	15407.0	100.0

Coefficient of Utilization



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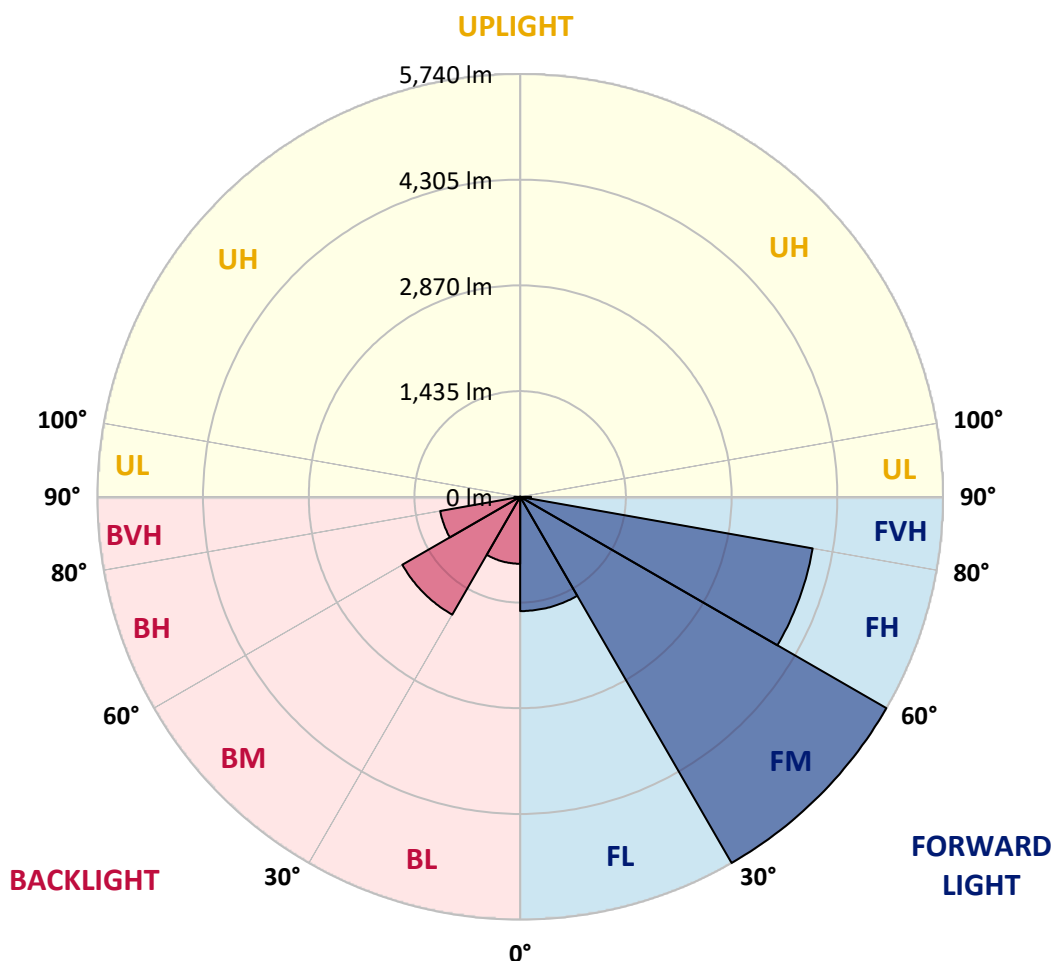
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1550.8	10.1			
FM	(30°-60°)	5739.5	37.3			
FH	(60°-80°)	4031.9	26.2			G2/5000
FVH	(80°-90°)	147.7	1.0			G2/225
BL	(0°-30°)	909.1	5.9	B2/1000		
BM	(30°-60°)	1847.8	12.0	B2/2500		
BH	(60°-80°)	1101.3	7.1	B3/2500		G3/2500
BVH	(80°-90°)	78.8	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°	2765.2	2765.2	2765.2	2765.2	2765.2	2765.2	2765.2	2765.2	2765.2	2765.2	2765.2
2.5°	2943.0	2954.1	2935.9	2918.7	2901.6	2891.4	2874.3	2825.8	2808.6	2793.5	2763.1
5°	3095.5	3110.7	3084.4	3029.9	3016.7	2974.3	2951.1	2909.6	2892.5	2866.2	2815.7
7.5°	3274.3	3276.4	3239.0	3221.8	3178.4	3120.8	3047.0	2971.3	2946.0	2918.7	2855.1
10°	3378.4	3399.6	3363.3	3309.7	3279.4	3227.9	3150.1	3050.1	2994.5	2946.0	2875.3
12.5°	3524.9	3530.0	3471.4	3441.0	3400.6	3336.0	3260.2	3173.3	3118.8	3028.8	2900.5
15°	3632.0	3635.0	3582.5	3550.2	3511.8	3473.4	3391.5	3300.6	3247.1	3157.2	2962.2
17.5°	3708.8	3721.9	3689.6	3666.3	3625.9	3598.7	3534.0	3462.3	3392.6	3311.7	3090.5
20°	3792.6	3799.7	3740.1	3750.2	3743.1	3731.0	3700.7	3633.0	3576.4	3469.3	3193.5
22.5°	3815.9	3803.7	3819.9	3859.3	3878.5	3892.6	3883.6	3868.4	3816.9	3683.5	3388.5
25°	3781.5	3796.7	3835.1	3920.9	4028.0	4091.7	4137.1	4148.2	4133.1	4005.8	3649.2
27.5°	3772.4	3765.4	3828.0	3974.5	4154.3	4302.8	4392.7	4477.6	4439.2	4359.4	3943.2
30°	3734.0	3731.0	3841.1	3991.7	4223.0	4498.8	4659.5	4802.9	4784.7	4703.9	4287.7
32.5°	3640.1	3660.3	3745.1	4005.8	4328.1	4688.8	4884.8	5120.1	5147.4	5087.8	4636.2
35°	3518.8	3525.9	3661.3	3968.4	4409.9	4855.5	5140.4	5467.7	5531.3	5529.3	5028.2
37.5°	3365.3	3405.7	3550.2	3875.5	4445.3	5008.0	5385.9	5837.5	5964.8	5945.6	5420.2
40°	3211.7	3237.0	3407.7	3757.3	4448.3	5110.0	5594.0	6232.5	6373.9	6376.9	5866.8
42.5°	2981.4	3023.8	3202.6	3601.7	4380.6	5196.9	5801.1	6646.7	6807.3	6830.6	6281.0
45°	2789.4	2803.6	2962.2	3360.2	4234.1	5243.4	6031.4	7071.0	7330.7	7311.5	6640.6
47.5°	2540.9	2596.4	2764.2	3131.9	4004.8	5251.5	6231.5	7564.0	7885.3	7840.9	7130.6
50°	1966.0	2027.7	2484.3	2925.8	3714.8	5159.5	6392.1	8150.0	8411.7	8364.2	7547.9
52.5°	1733.7	1764.0	1948.8	2685.4	3413.8	4940.3	6520.4	8705.7	8991.6	8845.1	8035.8
55°	1634.6	1648.8	1732.6	2196.4	3148.1	4580.7	6594.2	9329.0	9489.7	9272.4	8490.5
57.5°	1527.6	1560.9	1603.3	1850.9	2852.0	4082.6	6548.7	9846.3	9872.6	9656.3	8878.4
60°	1426.5	1440.7	1528.6	1658.9	2511.6	3568.3	6292.1	10168.6	10261.5	9995.8	9345.2
62.5°	1336.6	1361.9	1413.4	1535.6	2284.3	3168.3	5835.4	10292.8	10464.6	10291.8	9660.4
65°	1251.7	1259.8	1318.4	1429.6	2032.7	2971.3	5571.7	10096.8	10375.7	10348.4	9798.8
67.5°	1151.7	1160.8	1212.3	1289.1	1718.5	2752.0	4884.8	9820.0	10054.4	10147.4	9720.0
70°	1021.4	1028.5	1089.1	1134.6	1440.7	2428.7	4101.8	9395.7	9649.3	9563.4	9190.6
72.5°	871.9	883.0	931.5	988.1	1198.2	2047.9	3212.7	8507.7	9088.6	9032.0	8404.6
75°	704.2	721.3	760.7	828.4	973.9	1626.6	2274.2	6884.1	8124.8	8209.6	7252.9
77.5°	333.4	350.6	385.9	442.5	590.0	1134.6	1244.7	3880.5	6327.4	6852.8	5839.5
80°	109.1	111.1	261.7	299.0	374.8	699.1	508.2	1265.9	1874.1	3169.3	3141.0
82.5°	58.6	63.6	141.4	173.8	187.9	187.9	148.5	558.7	789.0	964.8	1117.4
85°	31.3	32.3	49.5	59.6	64.7	51.5	38.4	230.3	369.8	461.7	457.7
87.5°	13.1	14.1	15.2	13.1	11.1	7.1	5.1	4.0	4.0	4.0	4.0
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°	2765.2	2765.2	2765.2	2765.2	2765.2	2765.2	2765.2	2765.2	2765.2	2765.2	2765.2
2.5°	2748.0	2733.8	2726.8	2697.5	2665.1	2630.8	2603.5	2604.5	2625.7	2641.9	2640.9
5°	2779.3	2743.9	2700.5	2631.8	2603.5	2578.3	2548.0	2507.5	2520.7	2536.8	2549.0
7.5°	2796.5	2751.0	2692.4	2590.4	2543.9	2489.4	2461.1	2408.5	2386.3	2402.5	2402.5
10°	2790.4	2743.9	2642.9	2568.2	2477.2	2391.4	2334.8	2321.6	2302.5	2299.4	2298.4
12.5°	2830.8	2762.1	2612.6	2502.5	2419.6	2309.5	2248.9	2236.8	2240.8	2215.6	2219.6
15°	2870.2	2792.4	2586.3	2472.2	2343.9	2214.6	2166.1	2121.6	2141.8	2120.6	2125.6
17.5°	2941.0	2847.0	2572.2	2411.6	2246.9	2134.7	2047.9	1997.3	1995.3	1992.3	1984.2
20°	3021.8	2891.4	2570.2	2359.0	2168.1	2034.7	1910.5	1854.9	1814.5	1828.6	1829.6
22.5°	3168.3	2975.3	2591.4	2310.5	2058.0	1908.4	1781.1	1696.3	1647.8	1655.9	1656.9
25°	3376.4	3151.1	2647.0	2269.1	1966.0	1761.9	1636.7	1529.6	1471.0	1472.0	1488.2
27.5°	3678.5	3361.2	2735.9	2233.8	1868.0	1623.5	1453.8	1348.7	1285.1	1284.1	1295.2
30°	3977.5	3623.9	2863.2	2183.2	1743.8	1437.6	1245.7	1161.8	1122.4	1096.2	1102.2
32.5°	4273.5	3905.8	3028.8	2157.0	1598.3	1218.4	1057.8	1000.2	950.7	902.2	907.2
35°	4608.9	4170.5	3195.5	2104.4	1423.5	1036.6	924.4	845.6	782.0	756.7	751.7
37.5°	5003.0	4478.6	3310.7	2060.0	1216.4	914.3	777.9	719.3	677.9	650.6	646.6
40°	5350.5	4737.2	3438.0	1955.9	1017.4	804.2	649.6	618.3	613.2	592.0	589.0
42.5°	5702.1	5054.5	3524.9	1819.5	881.0	663.8	555.7	573.8	602.1	589.0	589.0
45°	6060.7	5385.9	3542.1	1615.5	750.6	561.7	532.4	566.8	606.2	609.2	608.2
47.5°	6453.7	5679.8	3575.4	1323.5	657.7	535.5	528.4	556.7	607.2	625.4	621.3
50°	6899.3	5998.1	3482.5	1009.3	602.1	538.5	532.4	545.6	600.1	620.3	613.2
52.5°	7332.7	6304.2	3328.9	769.8	566.8	541.5	553.6	543.5	582.9	603.1	611.2
55°	7734.8	6641.6	3003.6	685.0	542.5	537.5	570.8	552.6	566.8	572.8	583.9
57.5°	8141.9	6890.2	2658.1	642.5	529.4	532.4	560.7	552.6	561.7	554.6	545.6
60°	8523.8	7151.8	2212.5	603.1	515.2	529.4	540.5	538.5	544.5	531.4	525.4
62.5°	8848.1	7293.3	1746.8	568.8	503.1	515.2	513.2	523.3	524.3	509.2	505.1
65°	8996.6	7353.9	1333.6	537.5	484.9	497.1	487.0	489.0	490.0	469.8	468.8
67.5°	8846.1	7020.5	914.3	491.0	465.7	480.9	461.7	458.7	451.6	431.4	432.4
70°	8406.6	6463.8	610.2	424.3	424.3	450.6	439.5	432.4	415.2	396.0	402.1
72.5°	7424.6	5518.2	396.0	342.5	372.8	415.2	410.2	400.1	359.7	305.1	307.1
75°	6350.7	4379.6	263.7	249.5	284.9	359.7	341.5	317.2	301.1	318.2	339.5
77.5°	4945.4	2792.4	147.5	143.5	168.7	252.6	284.9	290.0	410.2	487.0	481.9
80°	2567.1	1418.4	85.9	70.7	100.0	169.7	224.3	305.1	509.2	383.9	371.8
82.5°	1009.3	531.4	52.5	37.4	44.5	69.7	148.5	438.5	385.9	194.0	185.9
85°	345.5	120.2	21.2	19.2	21.2	29.3	58.6	393.0	200.0	123.3	117.2
87.5°	4.0	4.0	5.1	6.1	7.1	7.1	16.2	186.9	92.9	57.6	55.6
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)