

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: P509565

Luminaire Tested: **VERD-G-CA2-120-750-U-T2**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P509565
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-CA2-120-750-U-T2
Description: VERDEON-G ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 5000K, 1120mA LEDS AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18206 lumens
Efficiency: N/A
Efficacy: 146.0 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

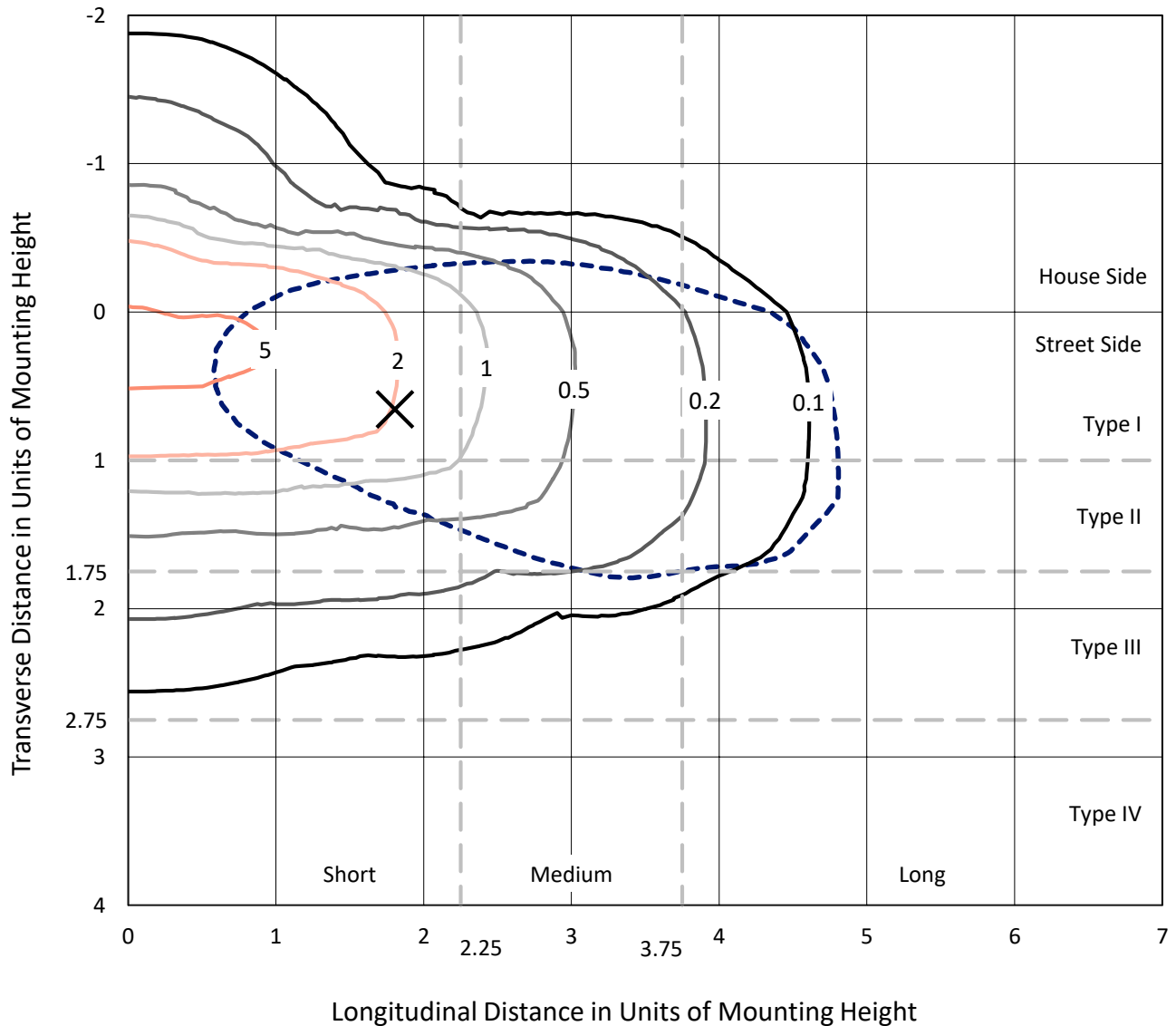
Input Watts (W): 124.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

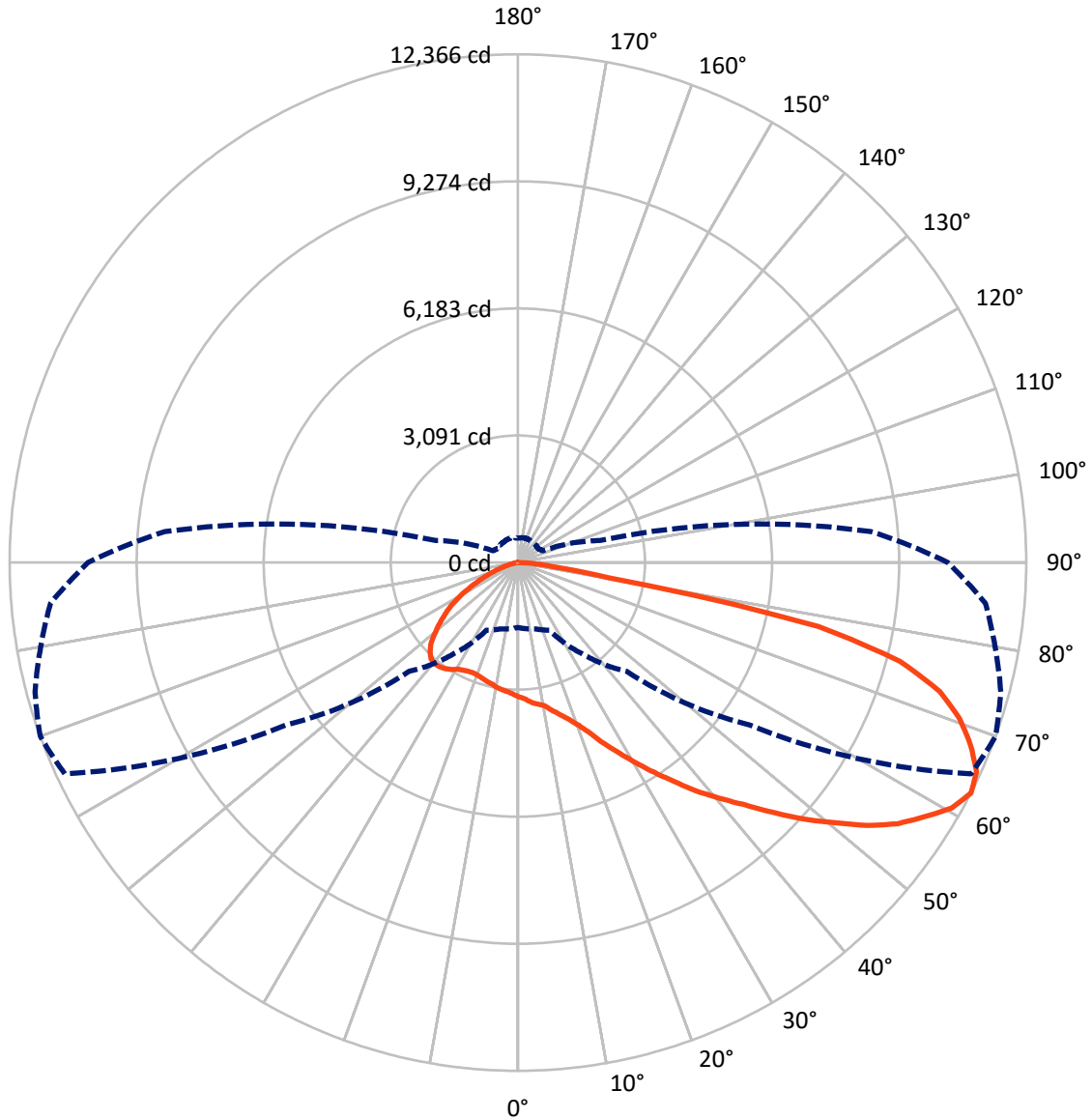
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.2 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	4652.3	0.0	4652.3
	% Fixture	25.6	0.0	25.6
Street Side	Lumens	13553.7	0.0	13553.7
	% Fixture	74.4	0.0	74.4
Total	Lumens	18206.0	0.0	18206.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	315.5	1.7
10°-20°	959.8	5.3
20°-30°	1631.5	9.0
30°-40°	2347.7	12.9
40°-50°	3046.6	16.7
50°-60°	3571.4	19.6
60°-70°	3662.5	20.1
70°-80°	2403.3	13.2
80°-90°	267.7	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°	18206.0	100.0
0°-180°	18206.0	100.0

Coefficient of Utilization



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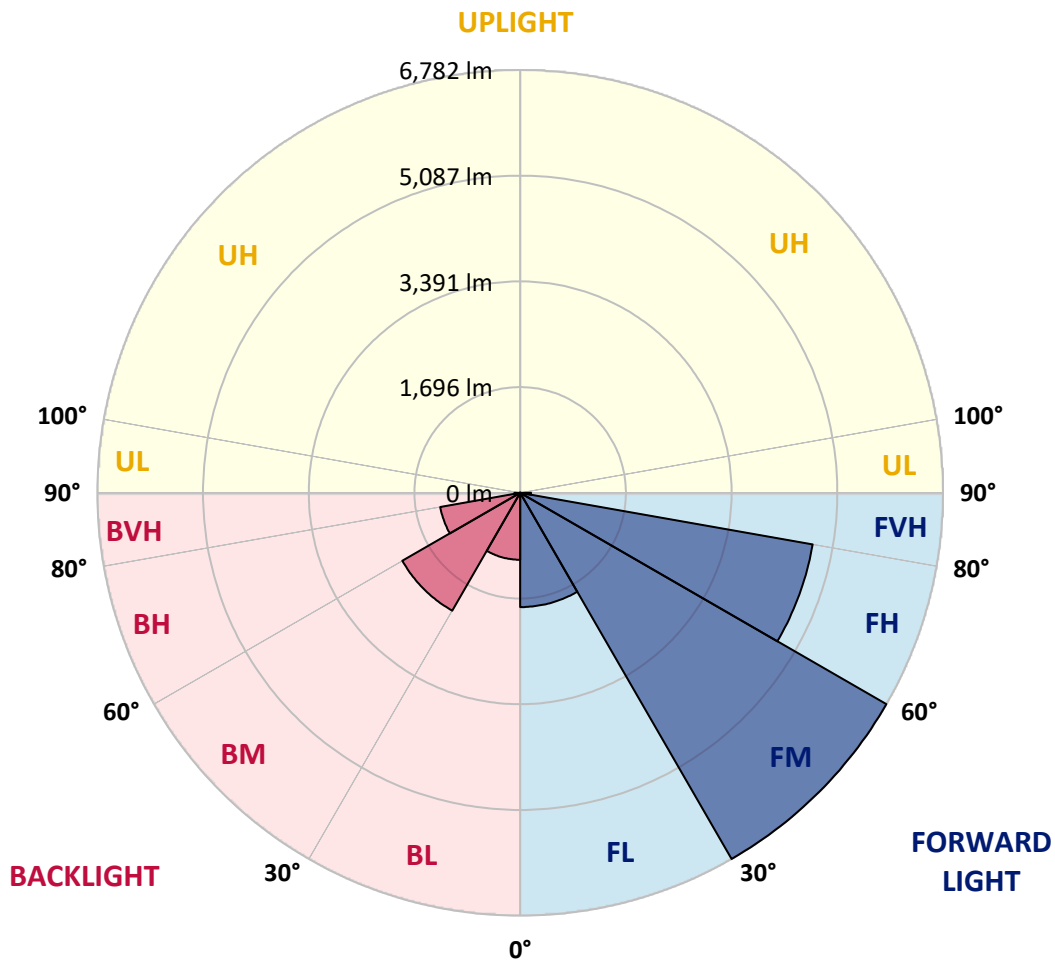
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1832.5	10.1			
FM (30°-60°)	6782.2	37.3			
FH (60°-80°)	4764.4	26.2			G2/5000
FVH (80°-90°)	174.6	1.0			G2/225
BL (0°-30°)	1074.3	5.9	B3/2500		
BM (30°-60°)	2183.4	12.0	B2/2500		
BH (60°-80°)	1301.4	7.1	B3/2500		G3/2500
BVH (80°-90°)	93.1	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°	3267.5	3267.5	3267.5	3267.5	3267.5	3267.5	3267.5	3267.5	3267.5	3267.5	3267.5
2.5°	3477.6	3490.8	3469.3	3449.0	3428.7	3416.7	3396.4	3339.1	3318.8	3300.9	3265.1
5°	3657.9	3675.8	3644.8	3580.3	3564.8	3514.6	3487.2	3438.2	3417.9	3386.9	3327.2
7.5°	3869.2	3871.6	3827.4	3807.1	3755.8	3687.7	3600.6	3511.1	3481.2	3449.0	3373.8
10°	3992.2	4017.2	3974.3	3911.0	3875.2	3814.3	3722.4	3604.2	3538.5	3481.2	3397.6
12.5°	4165.3	4171.2	4102.0	4066.2	4018.4	3942.0	3852.5	3749.8	3685.4	3579.1	3427.5
15°	4291.8	4295.4	4233.3	4195.1	4149.8	4104.4	4007.7	3900.2	3837.0	3730.7	3500.3
17.5°	4382.5	4398.1	4359.9	4332.4	4284.7	4252.4	4176.0	4091.3	4008.9	3913.4	3651.9
20°	4481.6	4490.0	4419.6	4431.5	4423.1	4408.8	4373.0	4293.0	4226.2	4099.6	3773.7
22.5°	4509.1	4494.8	4513.9	4560.4	4583.1	4599.8	4589.1	4571.2	4510.3	4352.7	4004.1
25°	4468.5	4486.4	4531.8	4633.3	4759.8	4835.0	4888.7	4901.9	4884.0	4733.5	4312.1
27.5°	4457.8	4449.4	4523.4	4696.5	4909.0	5084.5	5190.8	5291.1	5245.7	5151.4	4659.5
30°	4412.4	4408.8	4538.9	4716.8	4990.2	5316.1	5505.9	5675.5	5654.0	5558.5	5066.6
32.5°	4301.4	4325.2	4425.5	4733.5	5114.4	5540.6	5772.2	6050.3	6082.6	6012.1	5478.5
35°	4158.1	4166.5	4326.4	4689.4	5211.1	5737.5	6074.2	6461.0	6536.2	6533.8	5941.7
37.5°	3976.6	4024.4	4195.1	4579.5	5252.9	5917.8	6364.3	6897.9	7048.4	7025.7	6404.9
40°	3795.2	3825.0	4026.8	4439.9	5256.4	6038.4	6610.2	7364.7	7531.9	7535.5	6932.6
42.5°	3523.0	3573.1	3784.4	4256.0	5176.4	6141.1	6855.0	7854.2	8044.0	8071.5	7422.0
45°	3296.2	3312.9	3500.3	3970.7	5003.3	6196.0	7127.2	8355.6	8662.4	8639.7	7847.0
47.5°	3002.5	3068.1	3266.3	3700.9	4732.3	6205.5	7363.5	8938.2	9317.8	9265.3	8426.1
50°	2323.2	2396.0	2935.6	3457.3	4389.7	6096.9	7553.4	9630.6	9939.8	9883.7	8919.1
52.5°	2048.6	2084.4	2302.9	3173.2	4034.0	5837.8	7705.0	10287.2	10625.1	10452.0	9495.7
55°	1931.6	1948.3	2047.4	2595.4	3720.0	5412.8	7792.1	11023.8	11213.6	10957.0	10032.9
57.5°	1805.1	1844.5	1894.6	2187.1	3370.2	4824.3	7738.4	11635.1	11666.1	11410.6	10491.4
60°	1685.7	1702.4	1806.3	1960.3	2967.9	4216.6	7435.2	12015.9	12125.7	11811.8	11042.9
62.5°	1579.4	1609.3	1670.2	1814.6	2699.2	3743.9	6895.6	12162.7	12365.7	12161.5	11415.4
65°	1479.2	1488.7	1557.9	1689.3	2402.0	3511.1	6584.0	11931.1	12260.6	12228.4	11579.0
67.5°	1361.0	1371.7	1432.6	1523.3	2030.7	3252.0	5772.2	11604.0	11881.0	11990.8	11485.8
70°	1207.0	1215.3	1286.9	1340.7	1702.4	2870.0	4846.9	11102.6	11402.3	11300.8	10860.3
72.5°	1030.3	1043.4	1100.7	1167.6	1415.9	2419.9	3796.4	10053.2	10739.7	10672.8	9931.5
75°	832.1	852.4	899.0	978.9	1150.9	1922.1	2687.3	8134.8	9600.8	9701.1	8570.5
77.5°	394.0	414.3	456.0	522.9	697.2	1340.7	1470.8	4585.5	7477.0	8097.7	6900.3
80°	128.9	131.3	309.2	353.4	442.9	826.1	600.5	1495.9	2214.6	3745.0	3711.6
82.5°	69.2	75.2	167.1	205.3	222.1	222.1	175.5	660.2	932.4	1140.1	1320.4
85°	37.0	38.2	58.5	70.4	76.4	60.9	45.4	272.2	436.9	545.6	540.8
87.5°	15.5	16.7	17.9	15.5	13.1	8.4	6.0	4.8	4.8	4.8	4.8
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°	3267.5	3267.5	3267.5	3267.5	3267.5	3267.5	3267.5	3267.5	3267.5	3267.5	3267.5
2.5°	3247.2	3230.5	3222.1	3187.5	3149.3	3108.7	3076.5	3077.7	3102.8	3121.9	3120.7
5°	3284.2	3242.4	3191.1	3109.9	3076.5	3046.7	3010.8	2963.1	2978.6	2997.7	3012.0
7.5°	3304.5	3250.8	3181.6	3061.0	3006.1	2941.6	2908.2	2846.1	2819.8	2838.9	2838.9
10°	3297.4	3242.4	3123.1	3034.7	2927.3	2825.8	2758.9	2743.4	2720.7	2717.2	2716.0
12.5°	3345.1	3263.9	3087.2	2957.1	2859.2	2729.1	2657.5	2643.1	2647.9	2618.1	2622.8
15°	3391.7	3299.7	3056.2	2921.3	2769.7	2616.9	2559.6	2507.0	2530.9	2505.8	2511.8
17.5°	3475.2	3364.2	3039.5	2849.7	2655.1	2522.6	2419.9	2360.2	2357.8	2354.2	2344.7
20°	3570.7	3416.7	3037.1	2787.6	2562.0	2404.4	2257.5	2191.9	2144.1	2160.8	2162.0
22.5°	3743.9	3515.8	3062.2	2730.3	2431.8	2255.1	2104.7	2004.4	1947.1	1956.7	1957.9
25°	3989.8	3723.6	3127.8	2681.3	2323.2	2082.0	1934.0	1807.5	1738.2	1739.4	1758.5
27.5°	4346.7	3971.9	3232.9	2639.6	2207.4	1918.5	1717.9	1593.8	1518.6	1517.4	1530.5
30°	4700.1	4282.3	3383.3	2579.9	2060.6	1698.8	1472.0	1372.9	1326.3	1295.3	1302.5
32.5°	5049.9	4615.3	3579.1	2548.8	1888.6	1439.8	1249.9	1181.9	1123.4	1066.1	1072.1
35°	5446.3	4928.1	3776.1	2486.7	1682.1	1224.9	1092.4	999.2	924.0	894.2	888.2
37.5°	5911.8	5292.2	3912.2	2434.2	1437.4	1080.4	919.2	850.0	801.1	768.8	764.1
40°	6322.5	5597.9	4062.6	2311.3	1202.2	950.3	767.6	730.6	724.7	699.6	696.0
42.5°	6738.0	5972.7	4165.3	2150.1	1041.0	784.3	656.6	678.1	711.5	696.0	696.0
45°	7161.8	6364.3	4185.6	1908.9	887.0	663.8	629.1	669.7	716.3	719.9	718.7
47.5°	7626.2	6711.7	4225.0	1563.9	777.2	632.7	624.4	657.8	717.5	739.0	734.2
50°	8152.7	7087.8	4115.1	1192.6	711.5	636.3	629.1	644.7	709.1	733.0	724.7
52.5°	8664.8	7449.5	3933.7	909.7	669.7	639.9	654.2	642.3	688.8	712.7	722.3
55°	9140.0	7848.2	3549.3	809.4	641.1	635.1	674.5	653.0	669.7	676.9	690.0
57.5°	9621.1	8141.9	3141.0	759.3	625.6	629.1	662.6	653.0	663.8	655.4	644.7
60°	10072.3	8451.1	2614.5	712.7	608.9	625.6	638.7	636.3	643.5	628.0	620.8
62.5°	10455.6	8618.3	2064.1	672.1	594.5	608.9	606.5	618.4	619.6	601.7	596.9
65°	10631.1	8689.9	1575.9	635.1	573.0	587.4	575.4	577.8	579.0	555.1	553.9
67.5°	10453.2	8295.9	1080.4	580.2	550.4	568.3	545.6	542.0	533.6	509.8	511.0
70°	9933.9	7638.1	721.1	501.4	501.4	532.4	519.3	511.0	490.7	468.0	475.1
72.5°	8773.5	6520.7	468.0	404.7	440.5	490.7	484.7	472.8	425.0	360.5	362.9
75°	7504.4	5175.3	311.6	294.9	336.7	425.0	403.5	374.9	355.8	376.1	401.1
77.5°	5843.8	3299.7	174.3	169.5	199.4	298.5	336.7	342.6	484.7	575.4	569.5
80°	3033.5	1676.1	101.5	83.6	118.2	200.6	265.0	360.5	601.7	453.7	439.3
82.5°	1192.6	628.0	62.1	44.2	52.5	82.4	175.5	518.1	456.0	229.2	219.7
85°	408.3	142.1	25.1	22.7	25.1	34.6	69.2	464.4	236.4	145.6	138.5
87.5°	4.8	4.8	6.0	7.2	8.4	8.4	19.1	220.9	109.8	68.0	65.7
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)