

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: P509557

Luminaire Tested: **VERD-G-CA2-120-740-U-T2**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P509557
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-CA2-120-740-U-T2
Description: VERDEON-G ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 4000K, 1120mA LEDS AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17878 lumens
Efficiency: N/A
Efficacy: 143.4 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

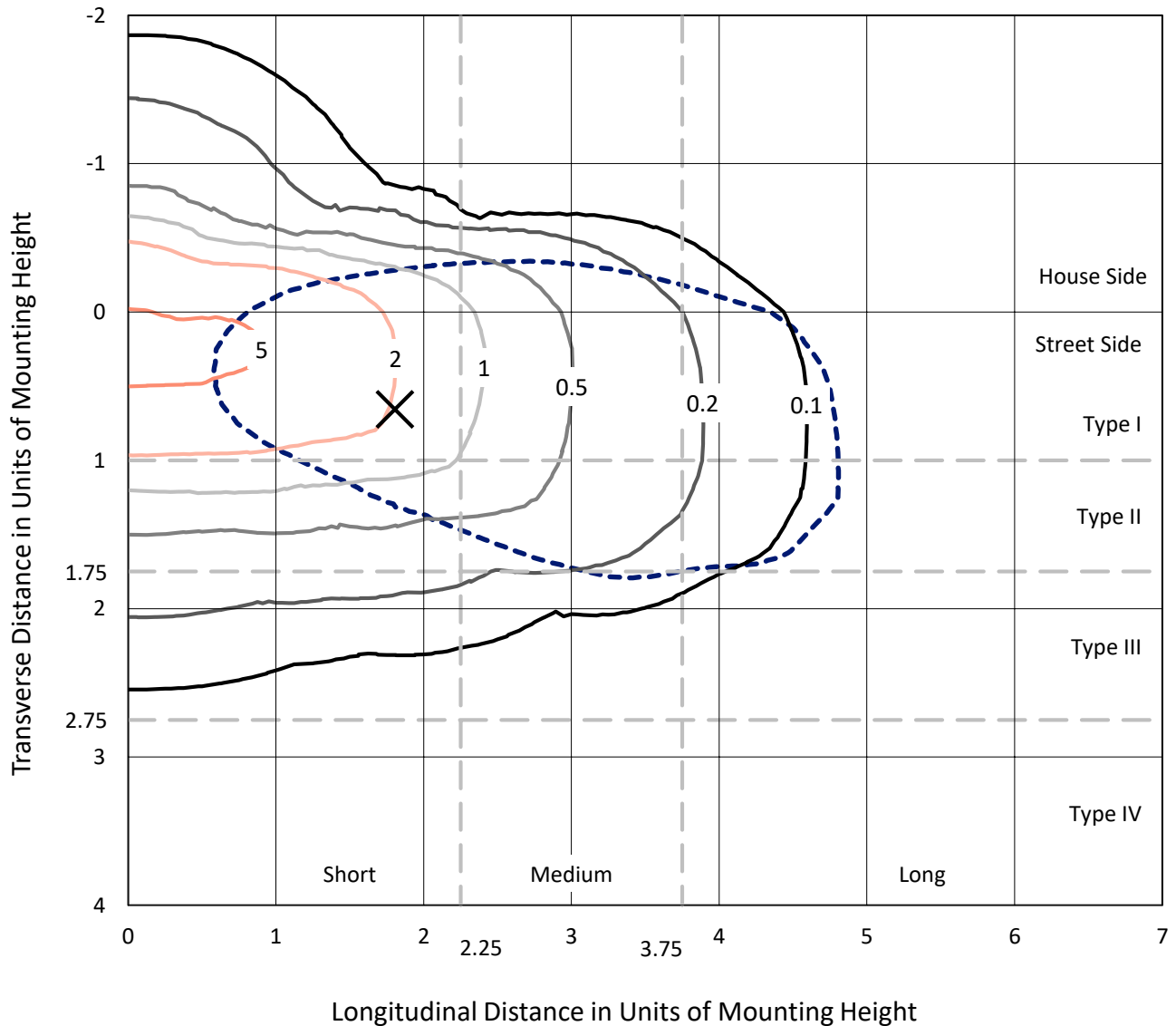
Input Watts (W): 124.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

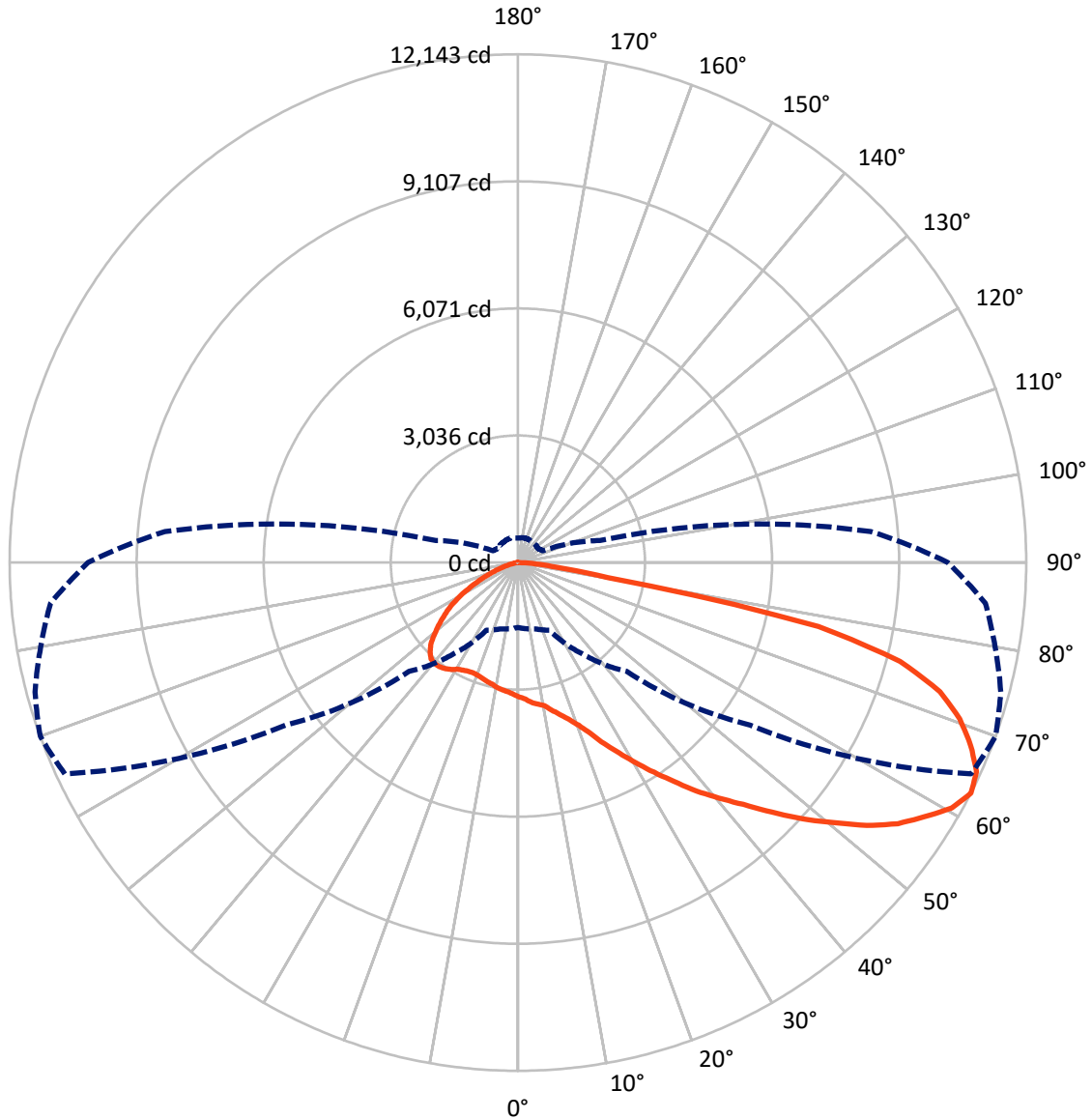
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.1 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	4568.5	0.0	4568.5
	% Fixture	25.6	0.0	25.6
Street Side	Lumens	13309.6	0.0	13309.6
	% Fixture	74.4	0.0	74.4
Total	Lumens	17878.0	0.0	17878.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	309.8	1.7
10°-20°	942.5	5.3
20°-30°	1602.1	9.0
30°-40°	2305.4	12.9
40°-50°	2991.7	16.7
50°-60°	3507.1	19.6
60°-70°	3596.5	20.1
70°-80°	2360.0	13.2
80°-90°	262.9	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°	17878.0	100.0
0°-180°	17878.0	100.0

Coefficient of Utilization



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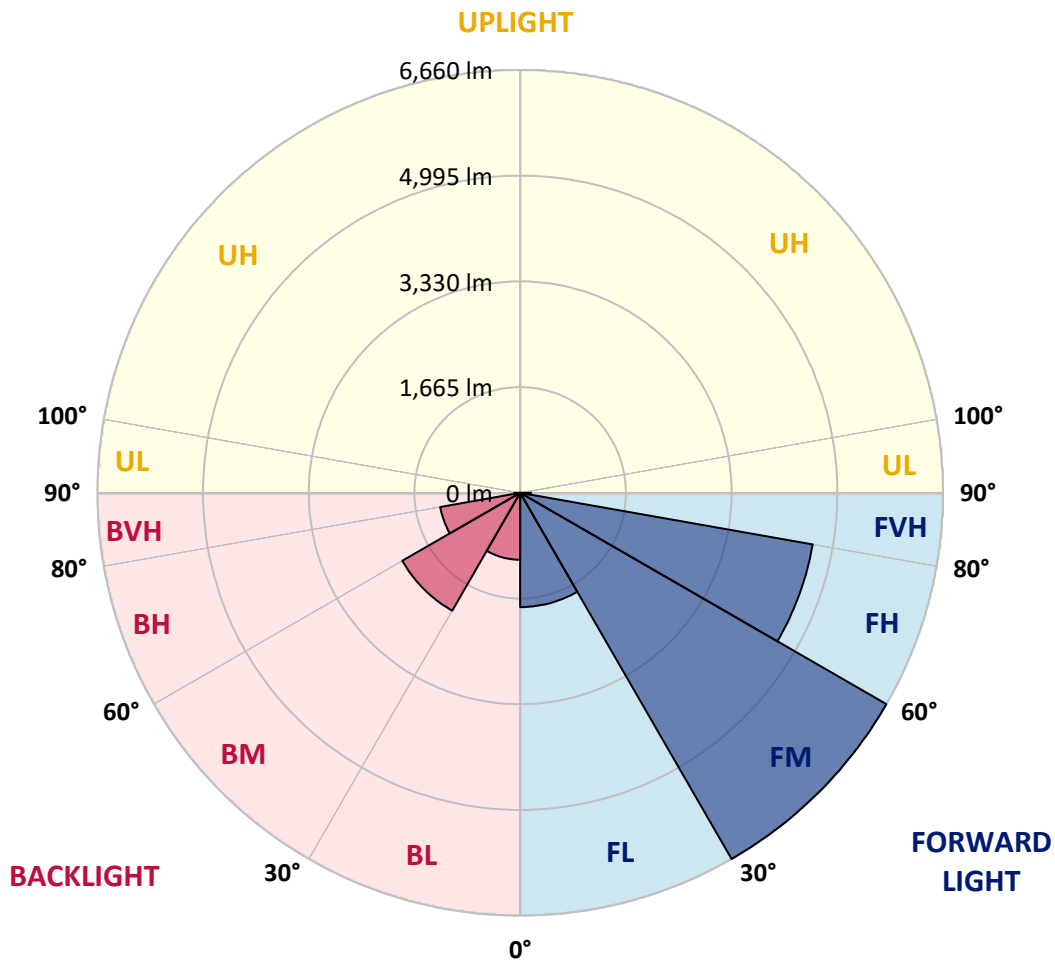
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1799.5	10.1			
FM (30°-60°)	6660.1	37.3			
FH (60°-80°)	4678.5	26.2			G2/5000
FVH (80°-90°)	171.4	1.0			G2/225
BL (0°-30°)	1054.9	5.9	B3/2500		
BM (30°-60°)	2144.1	12.0	B2/2500		
BH (60°-80°)	1278.0	7.1	B3/2500		G3/2500
BVH (80°-90°)	91.5	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°	3208.6	3208.6	3208.6	3208.6	3208.6	3208.6	3208.6	3208.6	3208.6	3208.6	3208.6
2.5°	3415.0	3427.9	3406.8	3386.8	3366.9	3355.2	3335.3	3279.0	3259.1	3241.5	3206.3
5°	3592.0	3609.6	3579.1	3515.8	3500.6	3451.3	3424.4	3376.3	3356.4	3325.9	3267.3
7.5°	3799.5	3801.8	3758.5	3738.5	3688.1	3621.3	3535.7	3447.8	3418.5	3386.8	3313.0
10°	3920.2	3944.9	3902.7	3840.5	3805.4	3745.6	3655.3	3539.2	3474.8	3418.5	3336.4
12.5°	4090.2	4096.1	4028.1	3992.9	3946.0	3871.0	3783.1	3682.3	3619.0	3514.6	3365.7
15°	4214.5	4218.0	4157.1	4119.5	4075.0	4030.4	3935.5	3830.0	3767.8	3663.5	3437.2
17.5°	4303.6	4318.8	4281.3	4254.4	4207.5	4175.8	4100.8	4017.5	3936.7	3842.9	3586.1
20°	4400.9	4409.1	4339.9	4351.7	4343.5	4329.4	4294.2	4215.7	4150.0	4025.8	3705.7
22.5°	4427.9	4413.8	4432.5	4478.3	4500.5	4517.0	4506.4	4488.8	4429.0	4274.3	3932.0
25°	4388.0	4405.6	4450.1	4549.8	4674.0	4747.9	4800.7	4813.6	4796.0	4648.3	4234.4
27.5°	4377.4	4369.2	4441.9	4611.9	4820.6	4992.9	5097.3	5195.7	5151.2	5058.6	4575.6
30°	4332.9	4329.4	4457.2	4631.8	4900.3	5220.3	5406.7	5573.2	5552.1	5458.3	4975.3
32.5°	4223.9	4247.3	4345.8	4648.3	5022.2	5440.7	5668.2	5941.3	5973.0	5903.8	5379.8
35°	4083.2	4091.4	4248.5	4604.9	5117.2	5634.2	5964.8	6344.6	6418.5	6416.1	5834.6
37.5°	3905.0	3951.9	4119.5	4497.0	5158.2	5811.2	6249.6	6773.7	6921.4	6899.1	6289.5
40°	3726.8	3756.1	3954.2	4359.9	5161.7	5929.6	6491.1	7232.1	7396.2	7399.7	6807.7
42.5°	3459.5	3508.8	3716.3	4179.3	5083.2	6030.4	6731.5	7712.7	7899.1	7926.1	7288.3
45°	3236.8	3253.2	3437.2	3899.1	4913.2	6084.3	6998.8	8205.1	8506.4	8484.1	7705.7
47.5°	2948.4	3012.9	3207.5	3634.2	4647.1	6093.7	7230.9	8777.2	9150.0	9098.4	8274.2
50°	2281.3	2352.8	2882.7	3395.0	4310.6	5987.0	7417.3	9457.1	9760.8	9705.7	8758.4
52.5°	2011.7	2046.9	2261.4	3116.0	3961.3	5732.7	7566.2	10101.9	10433.7	10263.7	9324.6
55°	1896.8	1913.2	2010.5	2548.6	3653.0	5315.3	7651.7	10825.2	11011.6	10759.6	9852.2
57.5°	1772.6	1811.2	1860.5	2147.7	3309.5	4737.4	7599.0	11425.4	11455.9	11205.1	10302.4
60°	1655.3	1671.7	1773.7	1925.0	2914.4	4140.6	7301.2	11799.4	11907.3	11599.0	10844.0
62.5°	1551.0	1580.3	1640.1	1781.9	2650.6	3676.4	6771.3	11943.6	12142.9	11942.4	11209.7
65°	1452.5	1461.9	1529.9	1658.8	2358.7	3447.8	6465.4	11716.2	12039.7	12008.1	11370.3
67.5°	1336.4	1347.0	1406.8	1495.9	1994.1	3193.4	5668.2	11395.0	11666.9	11774.8	11278.9
70°	1185.2	1193.4	1263.8	1316.5	1671.7	2818.3	4759.6	10902.6	11196.8	11097.2	10664.6
72.5°	1011.7	1024.6	1080.9	1146.5	1390.4	2376.3	3728.0	9872.1	10546.2	10480.6	9752.5
75°	817.1	837.0	882.8	961.3	1130.1	1887.4	2638.9	7988.2	9427.8	9526.3	8416.1
77.5°	386.9	406.8	447.8	513.5	684.6	1316.5	1444.3	4502.9	7342.3	7951.9	6776.0
80°	126.6	129.0	303.6	347.0	434.9	811.2	589.7	1468.9	2174.7	3677.6	3644.7
82.5°	68.0	73.9	164.1	201.6	218.1	218.1	172.3	648.3	915.6	1119.6	1296.6
85°	36.3	37.5	57.4	69.2	75.0	59.8	44.5	267.3	429.1	535.8	531.1
87.5°	15.2	16.4	17.6	15.2	12.9	8.2	5.9	4.7	4.7	4.7	4.7
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°	3208.6	3208.6	3208.6	3208.6	3208.6	3208.6	3208.6	3208.6	3208.6	3208.6	3208.6
2.5°	3188.7	3172.3	3164.1	3130.1	3092.6	3052.7	3021.1	3022.2	3046.9	3065.6	3064.4
5°	3225.1	3184.0	3133.6	3053.9	3021.1	2991.8	2956.6	2909.7	2924.9	2943.7	2957.8
7.5°	3245.0	3192.2	3124.2	3005.8	2951.9	2888.6	2855.8	2794.8	2769.0	2787.8	2787.8
10°	3238.0	3184.0	3066.8	2980.0	2874.5	2774.9	2709.2	2694.0	2671.7	2668.2	2667.0
12.5°	3284.8	3205.1	3031.6	2903.8	2807.7	2679.9	2609.6	2595.5	2600.2	2570.9	2575.6
15°	3330.6	3240.3	3001.1	2868.7	2719.8	2569.7	2513.5	2461.9	2485.3	2460.7	2466.6
17.5°	3412.6	3303.6	2984.7	2798.3	2607.2	2477.1	2376.3	2317.7	2315.3	2311.8	2302.4
20°	3506.4	3355.2	2982.4	2737.4	2515.8	2361.1	2216.9	2152.4	2105.5	2121.9	2123.1
22.5°	3676.4	3452.5	3007.0	2681.1	2388.0	2214.5	2066.8	1968.3	1912.1	1921.4	1922.6
25°	3917.9	3656.5	3071.5	2633.0	2281.3	2044.5	1899.2	1774.9	1706.9	1708.1	1726.8
27.5°	4268.4	3900.3	3174.6	2592.0	2167.6	1883.9	1687.0	1565.0	1491.2	1490.0	1502.9
30°	4615.4	4205.1	3322.4	2533.4	2023.4	1668.2	1445.5	1348.2	1302.4	1272.0	1279.0
32.5°	4958.9	4532.2	3514.6	2502.9	1854.6	1413.8	1227.4	1160.6	1103.2	1046.9	1052.7
35°	5348.1	4839.3	3708.1	2441.9	1651.8	1202.8	1072.7	981.2	907.4	878.1	872.2
37.5°	5805.3	5196.9	3841.7	2390.4	1411.5	1061.0	902.7	834.7	786.6	755.0	750.3
40°	6208.6	5497.0	3989.4	2269.6	1180.5	933.2	753.8	717.5	711.6	687.0	683.5
42.5°	6616.6	5865.1	4090.2	2111.4	1022.3	770.2	644.8	665.9	698.7	683.5	683.5
45°	7032.8	6249.6	4110.2	1874.5	871.0	651.8	617.8	657.7	703.4	706.9	705.7
47.5°	7488.8	6590.8	4148.8	1535.7	763.2	621.3	613.1	645.9	704.6	725.7	721.0
50°	8005.8	6960.1	4041.0	1171.1	698.7	624.8	617.8	633.1	696.4	719.8	711.6
52.5°	8508.7	7315.3	3862.8	893.3	657.7	628.4	642.4	630.7	676.4	699.9	709.3
55°	8975.3	7706.8	3485.3	794.8	629.5	623.7	662.4	641.3	657.7	664.7	677.6
57.5°	9447.7	7995.2	3084.4	745.6	614.3	617.8	650.6	641.3	651.8	643.6	633.1
60°	9890.9	8298.9	2567.4	699.9	597.9	614.3	627.2	624.8	631.9	616.6	609.6
62.5°	10267.2	8463.0	2026.9	660.0	583.8	597.9	595.5	607.3	608.4	590.9	586.2
65°	10439.5	8533.3	1547.5	623.7	562.7	576.8	565.1	567.4	568.6	545.1	544.0
67.5°	10264.8	8146.5	1061.0	569.7	540.4	558.0	535.8	532.2	524.0	500.6	501.8
70°	9754.9	7500.5	708.1	492.4	492.4	522.9	510.0	501.8	481.8	459.6	466.6
72.5°	8615.4	6403.2	459.6	397.4	432.6	481.8	476.0	464.2	417.3	354.0	356.4
75°	7369.2	5082.0	306.0	289.6	330.6	417.3	396.2	368.1	349.4	369.3	393.9
77.5°	5738.5	3240.3	171.2	166.5	195.8	293.1	330.6	336.5	476.0	565.1	559.2
80°	2978.9	1645.9	99.6	82.1	116.1	197.0	260.3	354.0	590.9	445.5	431.4
82.5°	1171.1	616.6	61.0	43.4	51.6	80.9	172.3	508.8	447.8	225.1	215.7
85°	400.9	139.5	24.6	22.3	24.6	34.0	68.0	456.0	232.1	143.0	136.0
87.5°	4.7	4.7	5.9	7.0	8.2	8.2	18.8	216.9	107.9	66.8	64.5
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)