

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: P509519

Luminaire Tested: **VERD-G-CA2-110-750-U-T3**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P509519
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2102-155-4)
Test Lab: INNOVATION CENTER
Issue Date: 4/6/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VERD-G-CA2-110-750-U-T3
Description: VERDEON-G ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 5000K, 1020mA LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16712 lumens
Efficiency: N/A
Efficacy: 147.6 lumens/watt
Luminous Opening: Rectangular (W 0.9' x L: 1.25' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G2

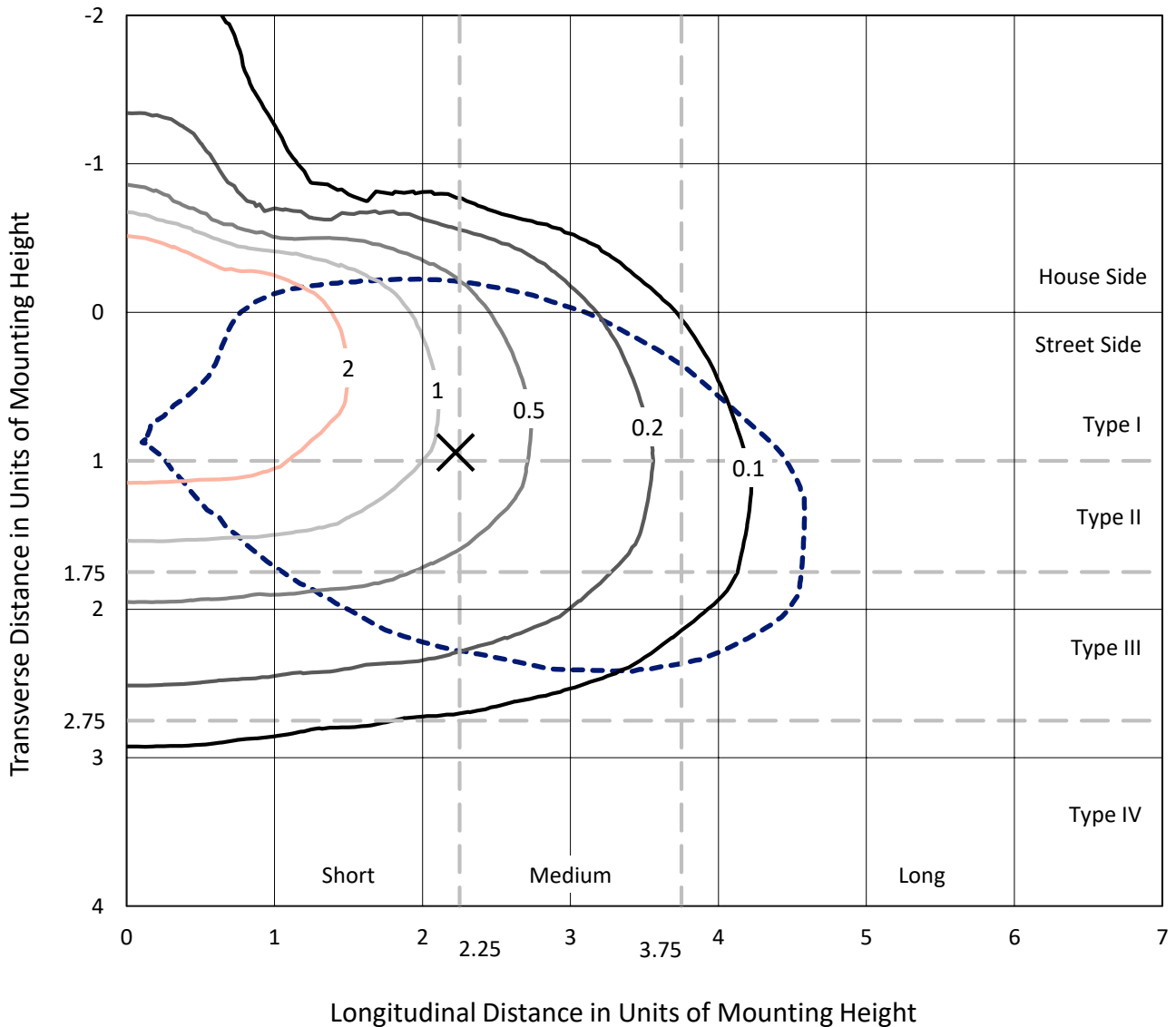
Input Watts (W): 113.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

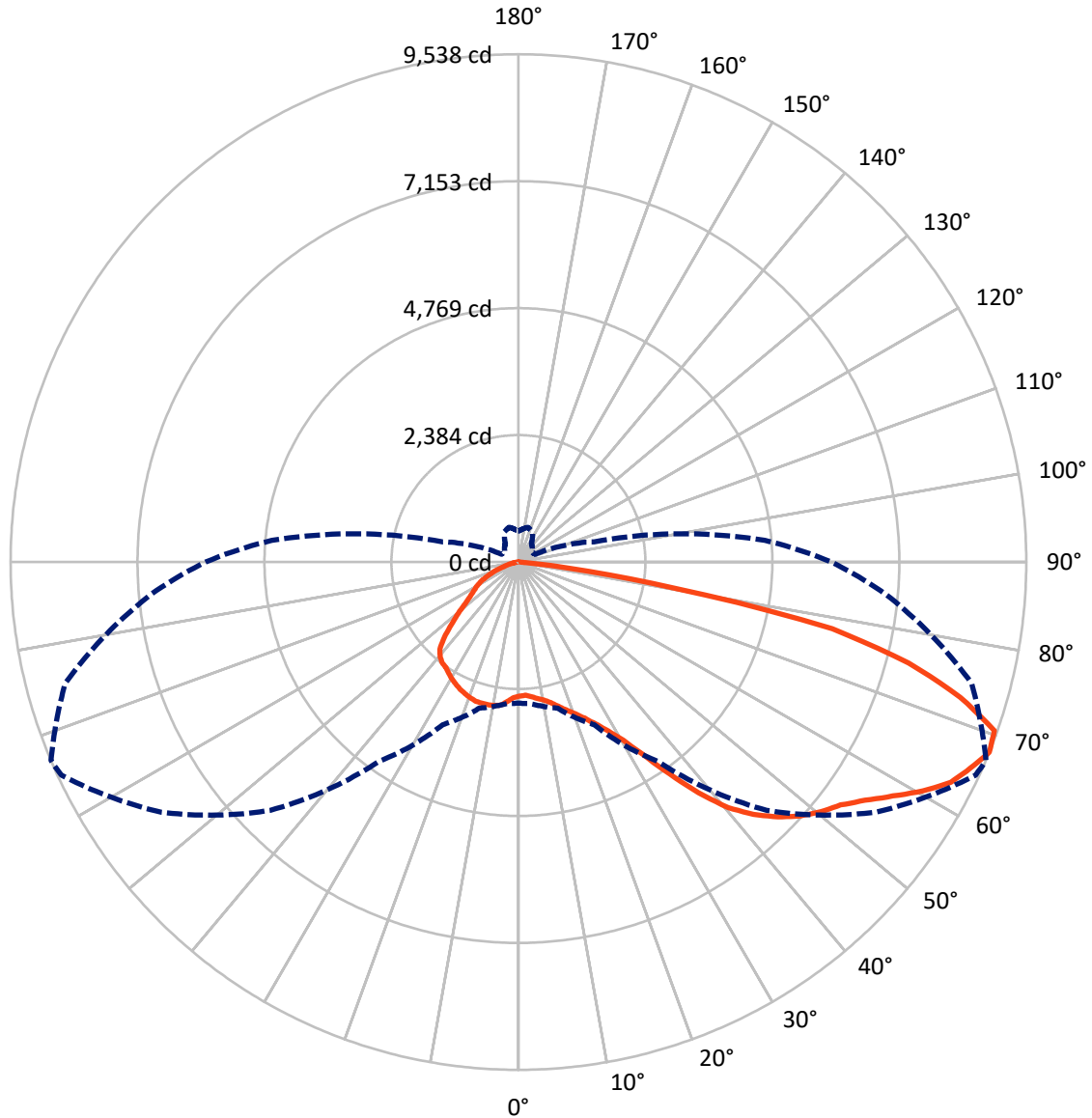
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.7 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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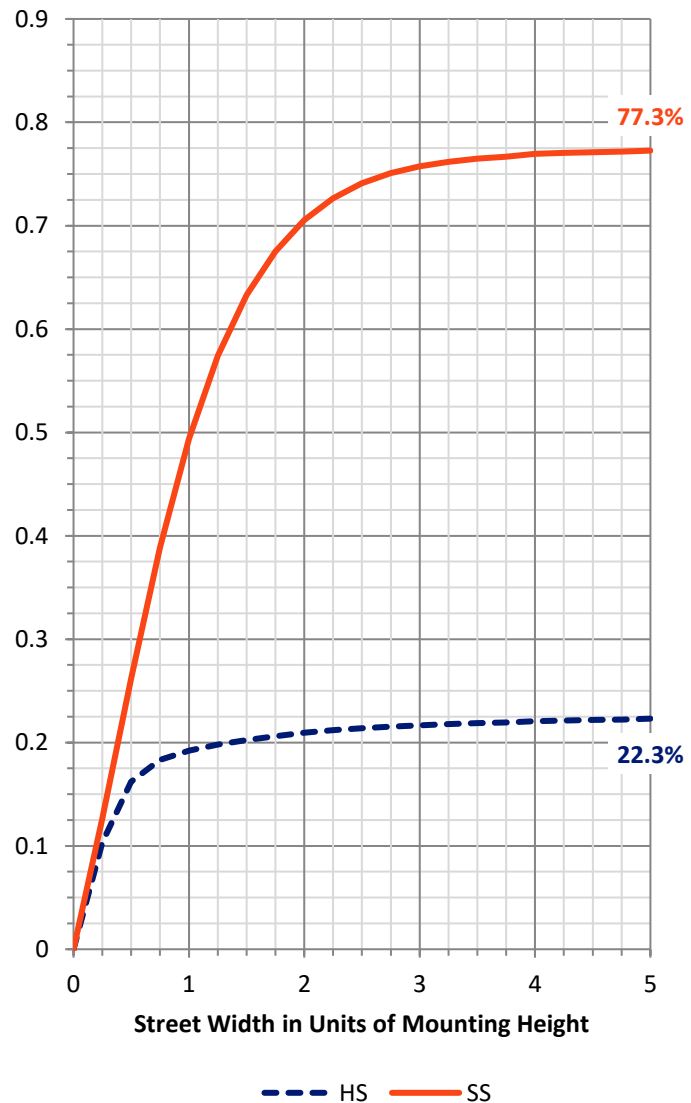
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3792.0	0.0	3792.0
	% Fixture	22.7	0.0	22.7
Street Side	Lumens	12920.0	0.0	12920.0
	% Fixture	77.3	0.0	77.3
Total	Lumens	16712.0	0.0	16712.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	255.2	1.5
10°-20°	807.8	4.8
20°-30°	1385.4	8.3
30°-40°	2061.8	12.3
40°-50°	2819.0	16.9
50°-60°	3386.1	20.3
60°-70°	3592.2	21.5
70°-80°	2194.4	13.1
80°-90°	210.1	1.3
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°	16712.0	100.0
0°-180°	16712.0	100.0



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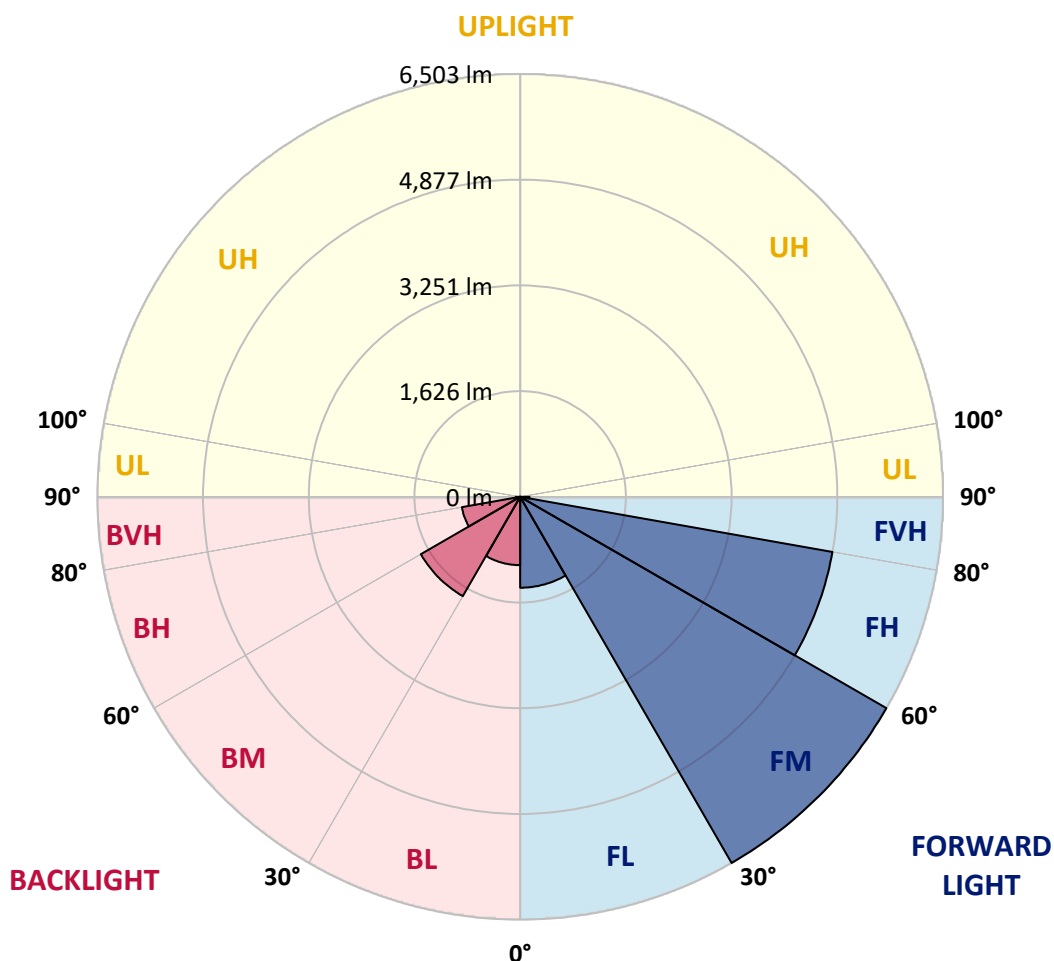
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1397.8	8.4			
FM (30°-60°)	6503.0	38.9			
FH (60°-80°)	4876.1	29.2			G2/5000
FVH (80°-90°)	143.1	0.9			G2/225
BL (0°-30°)	1050.6	6.3	B3/2500		
BM (30°-60°)	1763.9	10.6	B2/2500		
BH (60°-80°)	910.5	5.4	B2/1000		G2/1000
BVH (80°-90°)	67.0	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	2519.7	2519.7	2519.7	2519.7	2519.7	2519.7	2519.7	2519.7	2519.7	2519.7	2519.7
2.5°	2559.6	2571.7	2551.8	2538.5	2524.1	2531.9	2513.1	2513.1	2504.2	2518.6	2509.8
5°	2642.6	2653.7	2619.4	2591.7	2589.5	2566.2	2564.0	2552.9	2539.6	2551.8	2564.0
7.5°	2753.3	2748.9	2724.5	2692.4	2660.3	2647.0	2624.9	2608.3	2588.4	2599.4	2602.7
10°	2888.4	2880.6	2848.5	2797.6	2772.1	2735.6	2680.2	2649.2	2634.9	2645.9	2649.2
12.5°	3032.3	3022.3	2991.3	2934.9	2890.6	2833.0	2769.9	2720.1	2710.1	2699.1	2717.9
15°	3193.9	3176.2	3149.6	3104.3	3035.6	2960.3	2874.0	2826.4	2812.0	2793.2	2784.3
17.5°	3368.8	3366.6	3332.3	3282.5	3212.7	3108.7	2998.0	2923.8	2923.8	2916.0	2868.4
20°	3557.0	3548.2	3513.9	3486.2	3387.7	3278.1	3143.0	3048.9	3038.9	3023.4	2944.8
22.5°	3746.4	3747.5	3703.2	3682.1	3609.1	3468.5	3298.0	3203.9	3184.0	3162.9	3026.8
25°	3918.0	3920.2	3906.9	3868.1	3808.4	3678.8	3500.6	3375.5	3364.4	3335.6	3170.7
27.5°	4091.8	4119.4	4080.7	4085.1	4058.6	3910.2	3732.0	3580.3	3591.4	3528.3	3302.4
30°	4297.7	4307.6	4288.8	4294.4	4277.8	4180.3	4007.6	3884.7	3884.7	3812.8	3526.0
32.5°	4462.6	4453.8	4454.9	4512.5	4520.2	4467.1	4325.4	4285.5	4319.8	4311.0	4053.0
35°	4544.6	4560.1	4603.2	4735.0	4799.2	4767.1	4750.5	4803.6	4890.0	4945.3	4628.7
37.5°	4649.7	4697.3	4751.6	4898.8	5017.3	5105.9	5196.6	5371.6	5495.5	5567.5	5175.6
40°	4758.2	4762.7	4871.2	5053.8	5285.2	5425.8	5641.7	5942.8	6064.6	6010.3	5478.9
42.5°	4674.1	4685.2	4835.7	5161.2	5451.3	5811.1	6044.7	6392.3	6476.4	6311.5	5792.2
45°	4565.6	4586.6	4777.1	5161.2	5633.9	6164.2	6431.0	6818.5	6828.5	6605.9	5981.6
47.5°	4469.3	4487.0	4687.4	5121.4	5805.5	6474.2	6742.1	7057.6	7125.2	6846.2	6232.9
50°	4340.9	4385.1	4582.2	5085.9	5885.2	6690.1	7017.8	7345.5	7368.7	7073.1	6421.1
52.5°	4201.4	4240.1	4482.6	5019.5	5987.1	6868.3	7200.4	7622.2	7579.1	7376.5	6632.5
55°	4013.2	4047.5	4327.6	4913.2	5999.3	6964.6	7332.2	7879.1	7895.7	7628.9	6837.3
57.5°	3797.3	3854.9	4109.5	4716.2	5887.5	6993.4	7559.1	8226.7	8290.9	7941.1	7001.2
60°	3563.7	3609.1	3898.0	4506.9	5739.1	7101.9	7870.2	8677.3	8728.2	8213.4	7067.6
62.5°	3324.6	3362.2	3601.3	4192.5	5466.8	7123.0	8141.5	9130.1	9113.5	8455.9	7159.5
65°	3026.8	3030.1	3255.9	3812.8	5088.1	6972.4	8281.0	9313.9	9330.5	8676.2	7054.3
67.5°	2648.1	2669.2	2840.8	3370.0	4572.2	6593.8	8192.4	9472.2	9537.5	8812.4	6920.4
70°	2109.0	2121.2	2300.5	2793.2	3887.0	6008.1	8024.1	9496.5	9482.1	8636.3	6551.7
72.5°	1500.1	1546.6	1667.3	1964.0	2982.5	4917.6	7263.6	8744.8	8678.4	7956.6	5844.3
75°	964.3	968.7	1089.4	1283.1	1745.9	3486.2	6054.6	7538.1	7565.8	6901.5	4758.2
77.5°	318.8	359.8	399.7	541.4	724.0	1451.4	4087.3	5941.7	6025.8	5436.9	3247.1
80°	140.6	140.6	238.0	306.7	390.8	622.2	1630.7	2689.1	2947.0	2535.2	1251.0
82.5°	103.0	105.2	159.4	182.7	153.9	259.1	585.6	861.3	913.3	820.3	497.1
85°	58.7	60.9	68.6	78.6	65.3	105.2	129.5	132.8	134.0	116.2	90.8
87.5°	26.6	26.6	24.4	21.0	12.2	7.7	7.7	5.5	6.6	5.5	4.4
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°	2519.7	2519.7	2519.7	2519.7	2519.7	2519.7	2519.7	2519.7	2519.7	2519.7	2519.7
2.5°	2506.4	2517.5	2541.9	2546.3	2557.4	2574.0	2595.0	2605.0	2638.2	2653.7	2658.1
5°	2566.2	2571.7	2613.8	2628.2	2678.0	2703.5	2725.6	2741.1	2782.1	2792.1	2809.8
7.5°	2611.6	2630.4	2681.3	2713.5	2744.5	2771.0	2768.8	2805.3	2826.4	2843.0	2849.6
10°	2658.1	2668.1	2720.1	2734.5	2757.7	2777.7	2783.2	2793.2	2798.7	2821.9	2829.7
12.5°	2730.1	2723.4	2730.1	2742.2	2761.1	2756.6	2768.8	2754.4	2762.2	2792.1	2781.0
15°	2783.2	2767.7	2738.9	2740.0	2727.8	2722.3	2704.6	2692.4	2691.3	2698.0	2709.0
17.5°	2843.0	2797.6	2744.5	2730.1	2684.7	2640.4	2609.4	2576.2	2570.6	2577.3	2569.5
20°	2895.0	2834.1	2742.2	2696.8	2608.3	2528.6	2483.2	2433.4	2431.1	2426.7	2417.9
22.5°	2958.1	2881.7	2741.1	2649.2	2544.1	2415.6	2321.5	2283.9	2238.5	2256.2	2254.0
25°	3052.2	2957.0	2751.1	2598.3	2427.8	2275.0	2154.4	2071.3	2026.0	2016.0	2020.4
27.5°	3168.5	3042.3	2756.6	2534.1	2321.5	2103.5	1911.9	1786.8	1759.2	1722.6	1725.9
30°	3337.8	3158.5	2783.2	2463.3	2165.4	1884.3	1656.2	1493.5	1447.0	1454.7	1456.9
32.5°	3737.5	3397.6	2802.0	2381.3	1993.9	1641.8	1344.0	1181.3	1144.7	1158.0	1165.8
35°	4262.3	3856.0	2905.0	2276.2	1799.0	1358.4	1030.7	938.8	946.6	972.0	978.7
37.5°	4782.6	4342.0	3131.9	2184.3	1549.9	1039.5	822.6	768.3	813.7	838.1	845.8
40°	5102.5	4665.2	3382.1	2042.6	1233.3	763.9	626.6	595.6	647.6	704.1	731.8
42.5°	5425.8	4929.8	3544.9	1869.9	882.3	555.8	466.1	491.5	576.8	633.2	646.5
45°	5631.7	5066.0	3560.4	1595.3	587.9	430.7	425.1	479.4	566.8	612.2	620.0
47.5°	5832.1	5248.7	3495.1	1277.6	442.8	409.6	421.8	484.9	571.3	622.2	621.1
50°	6031.4	5428.0	3353.3	1014.1	418.5	396.3	428.4	496.0	579.0	617.8	617.8
52.5°	6153.2	5516.6	3068.8	807.1	403.0	388.6	431.8	500.4	571.3	593.4	590.1
55°	6299.3	5537.6	2877.3	672.0	386.4	383.0	438.4	512.6	570.1	572.4	564.6
57.5°	6375.7	5485.6	2721.2	571.3	372.0	385.3	446.2	515.9	602.3	628.8	633.2
60°	6342.5	5422.5	2544.1	508.1	358.7	381.9	443.9	541.4	701.9	757.2	747.3
62.5°	6310.4	5304.0	2246.3	456.1	344.3	384.2	441.7	600.0	824.8	767.2	736.2
65°	6194.1	5058.2	1858.8	406.3	326.6	385.3	437.3	663.1	844.7	775.0	721.8
67.5°	5875.3	4648.6	1470.2	353.2	305.6	369.8	427.3	623.3	676.4	608.9	580.1
70°	5400.3	4055.2	1008.5	305.6	280.1	350.9	420.7	590.1	635.5	587.9	551.3
72.5°	4634.2	3186.2	559.1	255.7	245.8	327.7	419.6	582.3	639.9	503.7	463.9
75°	3523.8	2113.4	363.1	200.4	201.5	292.3	399.7	555.8	620.0	473.8	419.6
77.5°	2075.8	890.1	253.5	142.8	157.2	227.0	355.4	532.5	586.8	463.9	419.6
80°	705.2	391.9	165.0	96.3	96.3	145.0	253.5	435.1	522.5	451.7	447.3
82.5°	366.4	249.1	105.2	59.8	55.4	69.7	156.1	298.9	419.6	383.0	436.2
85°	73.1	52.0	33.2	24.4	26.6	35.4	55.4	151.7	265.7	295.6	354.3
87.5°	5.5	4.4	6.6	6.6	6.6	6.6	7.7	37.6	106.3	130.6	161.6
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)