

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: P509551

Luminaire Tested: **VERD-G-CA2-120-730-U-T3**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P509551
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-CA2-120-730-U-T3
Description: VERDEON-G ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 1120mA LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17377 lumens
Efficiency: N/A
Efficacy: 139.4 lumens/watt
Luminous Opening: Rectangular (W 0.9' x L: 1.25' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G3

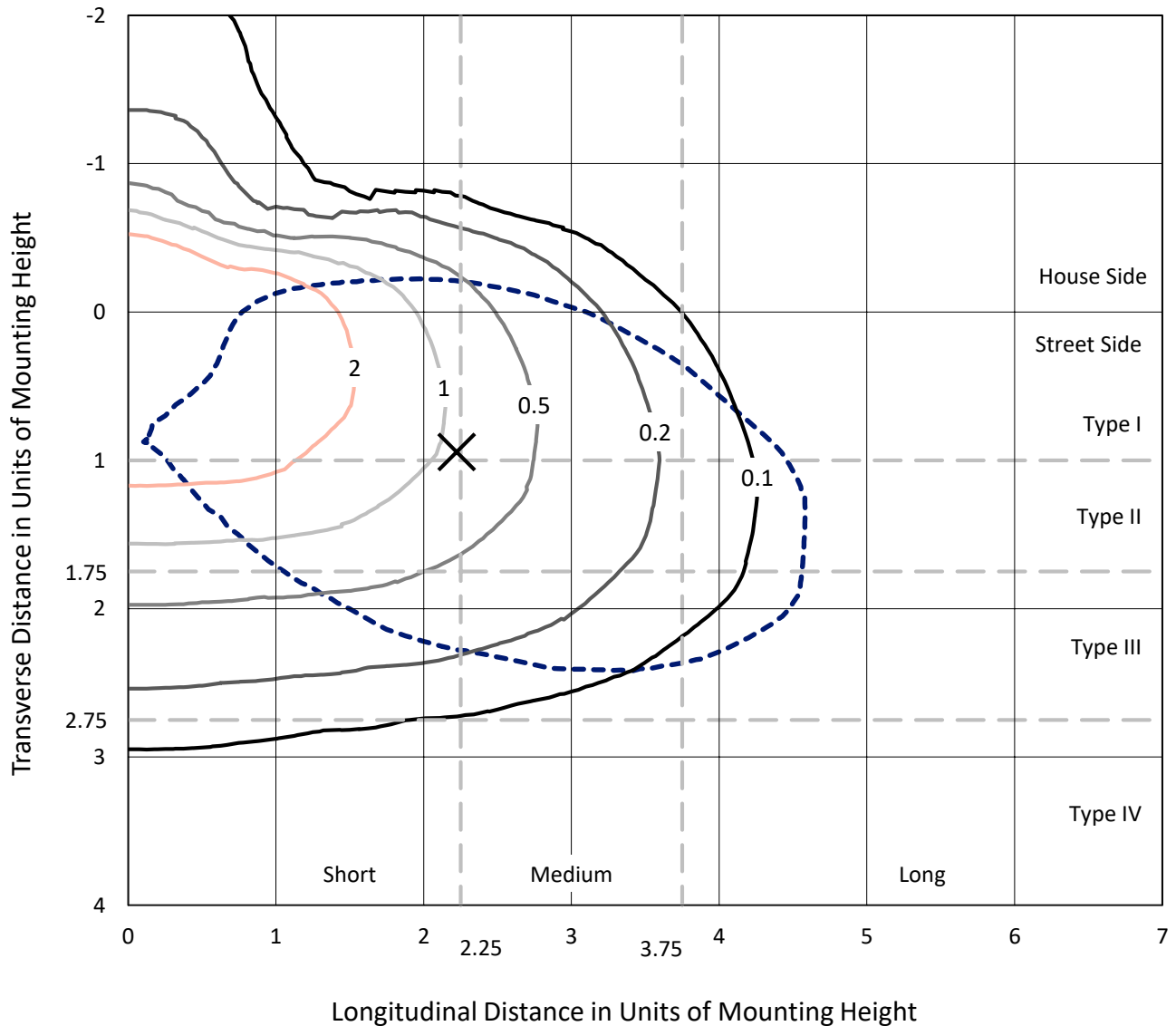
Input Watts (W): 124.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

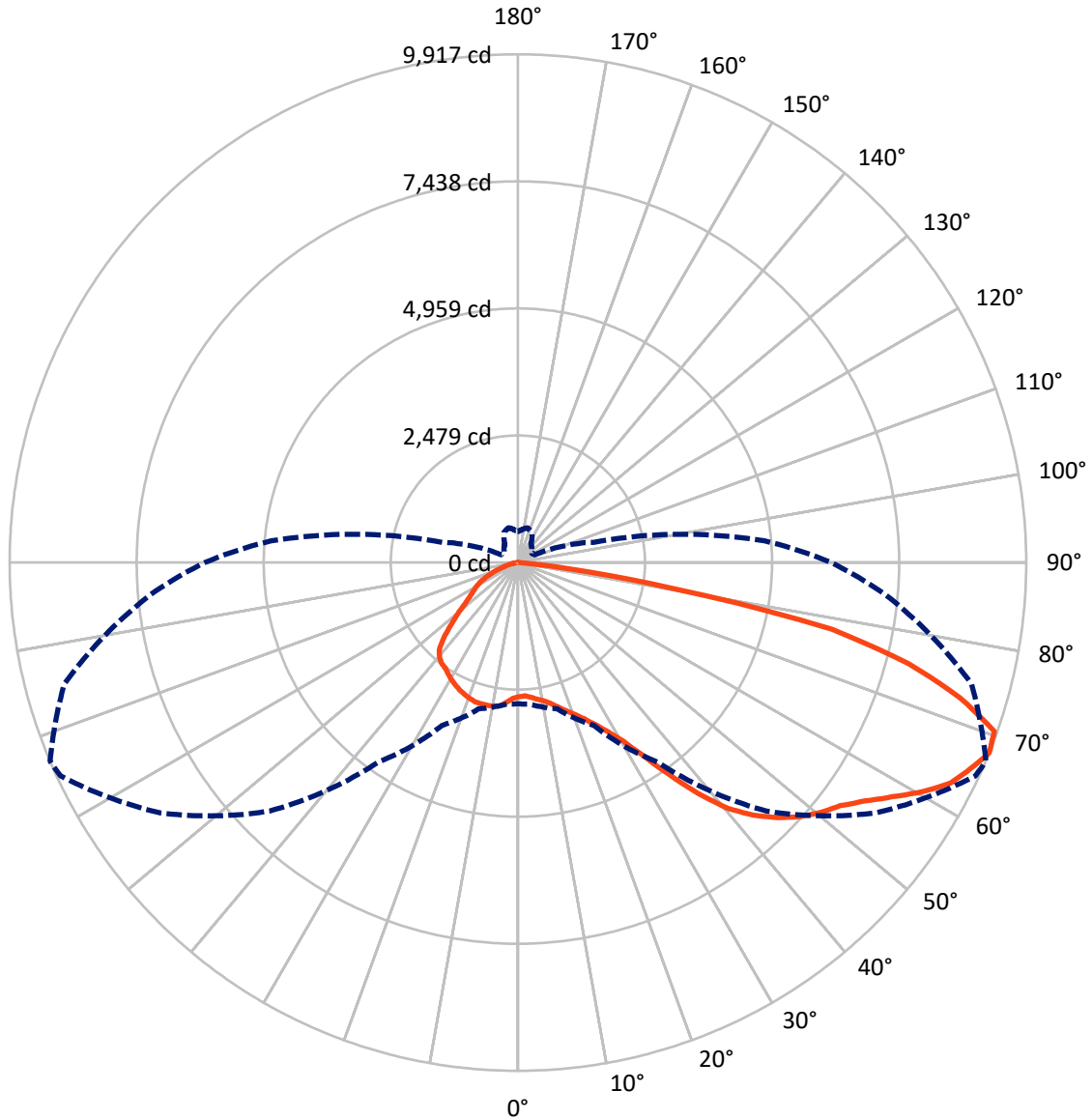
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.9 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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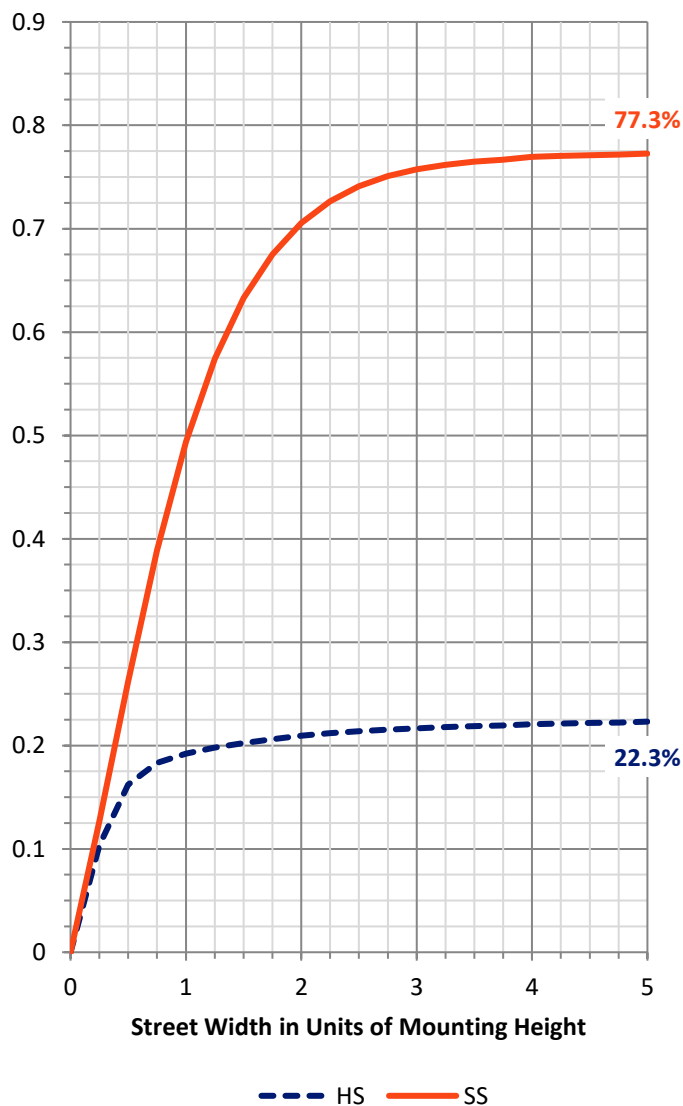
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3942.9	0.0	3942.9
	% Fixture	22.7	0.0	22.7
Street Side	Lumens	13434.1	0.0	13434.1
	% Fixture	77.3	0.0	77.3
Total	Lumens	17377.0	0.0	17377.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	265.4	1.5
10°-20°	839.9	4.8
20°-30°	1440.6	8.3
30°-40°	2143.9	12.3
40°-50°	2931.1	16.9
50°-60°	3520.8	20.3
60°-70°	3735.1	21.5
70°-80°	2281.7	13.1
80°-90°	218.5	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°	17377.0	100.0
0°-180°	17377.0	100.0

Coefficient of Utilization



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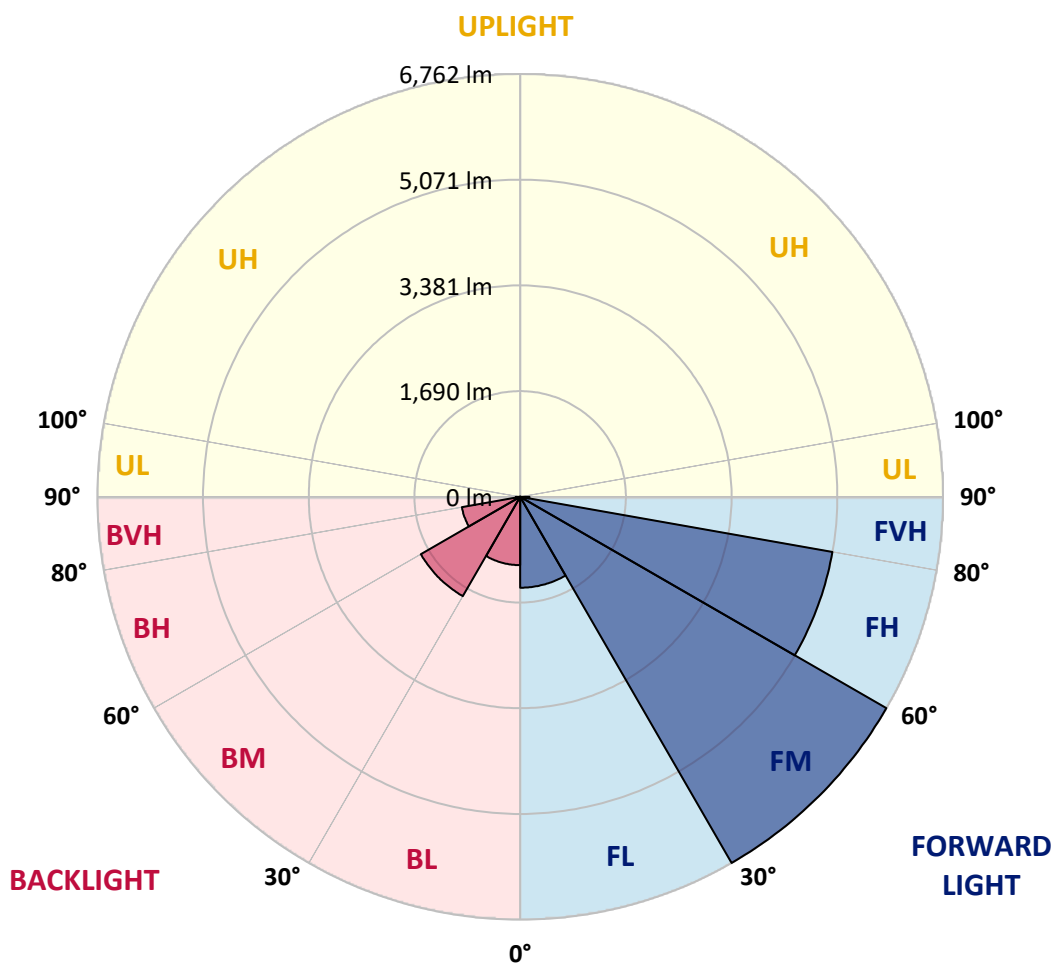
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1453.4	8.4			
FM	(30°-60°)	6761.7	38.9			
FH	(60°-80°)	5070.1	29.2			G3/7500
FVH	(80°-90°)	148.8	0.9			G2/225
BL	(0°-30°)	1092.4	6.3	B3/2500		
BM	(30°-60°)	1834.1	10.6	B2/2500		
BH	(60°-80°)	946.7	5.4	B2/1000		G2/1000
BVH	(80°-90°)	69.7	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-G3

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	2620.0	2620.0	2620.0	2620.0	2620.0	2620.0	2620.0	2620.0	2620.0	2620.0	2620.0
2.5°	2661.4	2674.1	2653.4	2639.5	2624.6	2632.6	2613.1	2613.1	2603.9	2618.8	2609.6
5°	2747.8	2759.3	2723.6	2694.8	2692.5	2668.3	2666.0	2654.5	2640.7	2653.4	2666.0
7.5°	2862.9	2858.3	2832.9	2799.6	2766.2	2752.4	2729.3	2712.1	2691.3	2702.9	2706.3
10°	3003.3	2995.2	2961.9	2908.9	2882.4	2844.4	2786.9	2754.7	2739.7	2751.2	2754.7
12.5°	3153.0	3142.6	3110.4	3051.7	3005.6	2945.7	2880.1	2828.3	2818.0	2806.5	2826.0
15°	3321.0	3302.6	3275.0	3227.8	3156.4	3078.1	2988.3	2938.8	2923.9	2904.3	2895.1
17.5°	3502.9	3500.6	3464.9	3413.1	3340.6	3232.4	3117.3	3040.1	3040.1	3032.1	2982.6
20°	3698.6	3689.4	3653.7	3624.9	3522.5	3408.5	3268.1	3170.2	3159.9	3143.7	3062.0
22.5°	3895.4	3896.6	3850.5	3828.7	3752.7	3606.5	3429.2	3331.4	3310.7	3288.8	3147.2
25°	4073.9	4076.2	4062.3	4022.1	3959.9	3825.2	3639.9	3509.8	3498.3	3468.4	3296.8
27.5°	4254.6	4283.4	4243.1	4247.7	4220.1	4065.8	3880.5	3722.8	3734.3	3668.7	3433.8
30°	4468.7	4479.1	4459.5	4465.2	4448.0	4346.7	4167.1	4039.3	4039.3	3964.5	3666.4
32.5°	4640.2	4631.0	4632.2	4692.0	4700.1	4644.8	4497.5	4456.0	4491.7	4482.5	4214.3
35°	4725.4	4741.5	4786.4	4923.4	4990.2	4956.8	4939.5	4994.8	5084.6	5142.1	4812.9
37.5°	4834.8	4884.3	4940.7	5093.8	5216.9	5309.0	5403.4	5585.3	5714.2	5789.0	5381.5
40°	4947.6	4952.2	5065.0	5254.9	5495.5	5641.7	5866.2	6179.3	6305.9	6249.5	5697.0
42.5°	4860.1	4871.6	5028.1	5366.6	5668.2	6042.3	6285.2	6646.6	6734.1	6562.6	6022.7
45°	4747.3	4769.1	4967.1	5366.6	5858.1	6409.5	6686.9	7089.8	7100.2	6868.8	6219.6
47.5°	4647.1	4665.5	4873.9	5325.1	6036.5	6731.8	7010.4	7338.5	7408.7	7118.6	6480.9
50°	4513.6	4559.6	4764.5	5288.3	6119.4	6956.3	7297.0	7637.8	7661.9	7354.6	6676.6
52.5°	4368.5	4408.8	4660.9	5219.2	6225.3	7141.6	7487.0	7925.5	7880.7	7670.0	6896.4
55°	4172.9	4208.5	4499.8	5108.7	6238.0	7241.8	7624.0	8192.6	8209.9	7932.5	7109.4
57.5°	3948.4	4008.2	4273.0	4903.8	6121.7	7271.7	7859.9	8554.1	8620.8	8257.1	7279.8
60°	3705.5	3752.7	4053.1	4686.3	5967.5	7384.5	8183.4	9022.6	9075.5	8540.3	7348.8
62.5°	3456.9	3496.0	3744.6	4359.3	5684.3	7406.4	8465.4	9493.4	9476.1	8792.4	7444.4
65°	3147.2	3150.7	3385.5	3964.5	5290.6	7249.8	8610.5	9684.5	9701.7	9021.4	7335.0
67.5°	2753.5	2775.4	2953.8	3504.0	4754.2	6856.1	8518.4	9849.1	9917.0	9163.0	7195.7
70°	2192.9	2205.6	2392.1	2904.3	4041.6	6247.2	8343.4	9874.4	9859.5	8980.0	6812.4
72.5°	1559.8	1608.1	1733.6	2042.1	3101.2	5113.3	7552.6	9092.8	9023.7	8273.2	6076.8
75°	1002.6	1007.2	1132.7	1334.2	1815.3	3624.9	6295.5	7838.1	7866.8	7176.2	4947.6
77.5°	331.5	374.1	415.6	562.9	752.8	1509.1	4250.0	6178.1	6265.6	5653.2	3376.3
80°	146.2	146.2	247.5	318.9	406.3	646.9	1695.6	2796.1	3064.3	2636.1	1300.8
82.5°	107.1	109.4	165.8	189.9	160.0	269.4	608.9	895.6	949.7	853.0	516.9
85°	61.0	63.3	71.4	81.7	67.9	109.4	134.7	138.1	139.3	120.9	94.4
87.5°	27.6	27.6	25.3	21.9	12.7	8.1	8.1	5.8	6.9	5.8	4.6
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°	2620.0	2620.0	2620.0	2620.0	2620.0	2620.0	2620.0	2620.0	2620.0	2620.0	2620.0
2.5°	2606.2	2617.7	2643.0	2647.6	2659.1	2676.4	2698.3	2708.6	2743.1	2759.3	2763.9
5°	2668.3	2674.1	2717.8	2732.8	2784.6	2811.1	2834.1	2850.2	2892.8	2903.2	2921.6
7.5°	2715.5	2735.1	2788.0	2821.4	2853.7	2881.3	2879.0	2917.0	2938.8	2956.1	2963.0
10°	2763.9	2774.2	2828.3	2843.3	2867.5	2888.2	2893.9	2904.3	2910.1	2934.2	2942.3
12.5°	2838.7	2831.8	2838.7	2851.4	2870.9	2866.3	2879.0	2864.0	2872.1	2903.2	2891.6
15°	2893.9	2877.8	2847.9	2849.1	2836.4	2830.6	2812.2	2799.6	2798.4	2805.3	2816.8
17.5°	2956.1	2908.9	2853.7	2838.7	2791.5	2745.5	2713.2	2678.7	2672.9	2679.8	2671.8
20°	3010.2	2946.9	2851.4	2804.2	2712.1	2629.2	2582.0	2530.2	2527.9	2523.3	2514.1
22.5°	3075.8	2996.4	2850.2	2754.7	2645.3	2511.8	2413.9	2374.8	2327.6	2346.0	2343.7
25°	3173.7	3074.7	2860.6	2701.7	2524.4	2365.6	2240.1	2153.8	2106.6	2096.2	2100.8
27.5°	3294.5	3163.3	2866.3	2634.9	2413.9	2187.2	1988.0	1857.9	1829.1	1791.2	1794.6
30°	3470.7	3284.2	2893.9	2561.3	2251.6	1959.2	1722.1	1552.9	1504.5	1512.6	1514.9
32.5°	3886.2	3532.8	2913.5	2476.1	2073.2	1707.1	1397.5	1228.3	1190.3	1204.1	1212.1
35°	4431.9	4009.4	3020.6	2366.7	1870.6	1412.4	1071.7	976.2	984.2	1010.7	1017.6
37.5°	4972.9	4514.7	3256.6	2271.2	1611.6	1080.9	855.3	798.9	846.1	871.4	879.5
40°	5305.6	4850.9	3516.7	2123.8	1282.4	794.3	651.5	619.3	673.4	732.1	760.9
42.5°	5641.7	5126.0	3685.9	1944.3	917.5	577.9	484.6	511.1	599.7	658.4	672.3
45°	5855.8	5267.6	3702.0	1658.8	611.3	447.8	442.0	498.4	589.4	636.6	644.6
47.5°	6064.2	5457.5	3634.1	1328.4	460.5	425.9	438.6	504.2	594.0	646.9	645.8
50°	6271.4	5644.0	3486.8	1054.4	435.1	412.1	445.5	515.7	602.0	642.3	642.3
52.5°	6398.0	5736.1	3190.9	839.2	419.0	404.0	448.9	520.3	594.0	617.0	613.6
55°	6549.9	5758.0	2991.8	698.7	401.7	398.3	455.8	533.0	592.8	595.1	587.1
57.5°	6629.4	5703.9	2829.5	594.0	386.8	400.6	463.9	536.4	626.2	653.8	658.4
60°	6594.8	5638.2	2645.3	528.4	373.0	397.1	461.6	562.9	729.8	787.4	777.0
62.5°	6561.5	5515.1	2335.6	474.3	358.0	399.4	459.3	623.9	857.6	797.7	765.5
65°	6440.6	5259.5	1932.8	422.5	339.6	400.6	454.7	689.5	878.3	805.8	750.5
67.5°	6109.1	4833.6	1528.7	367.2	317.7	384.5	444.3	648.1	703.3	633.1	603.2
70°	5615.2	4216.6	1048.7	317.7	291.2	364.9	437.4	613.6	660.8	611.3	573.3
72.5°	4818.6	3313.0	581.3	265.9	255.6	340.7	436.3	605.5	665.4	523.8	482.3
75°	3664.1	2197.5	377.6	208.4	209.5	303.9	415.6	577.9	644.6	492.7	436.3
77.5°	2158.4	925.5	263.6	148.5	163.5	236.0	369.5	553.7	610.1	482.3	436.3
80°	733.3	407.5	171.5	100.1	100.1	150.8	263.6	452.4	543.3	469.7	465.1
82.5°	381.0	259.0	109.4	62.2	57.6	72.5	162.3	310.8	436.3	398.3	453.5
85°	76.0	54.1	34.5	25.3	27.6	36.8	57.6	157.7	276.3	307.4	368.4
87.5°	5.8	4.6	6.9	6.9	6.9	6.9	8.1	39.1	110.5	135.8	168.1
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)