

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: P509511

Luminaire Tested: **VERD-G-CA2-110-740-U-T3**

Issue Date: 4/6/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P509511  
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-CA2-110-740-U-T3  
Description: VERDEON-G ROADWAY AND AREA LUMINAIRE  
(2) 70 CRI, 4000K, 1020mA LEDS AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 16411 lumens  
Efficiency: N/A  
Efficacy: 145.0 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

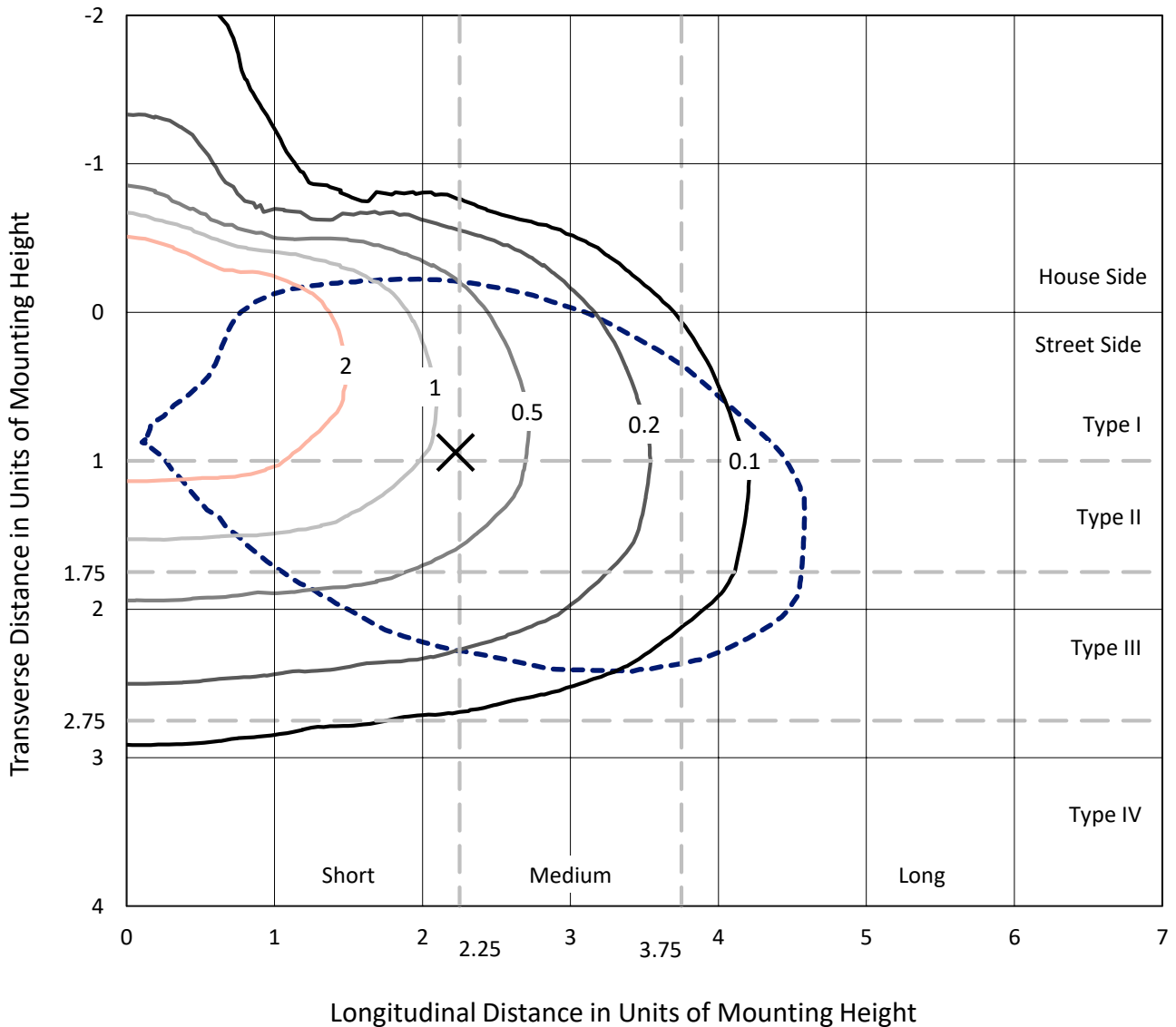
Input Watts (W): 113.2  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

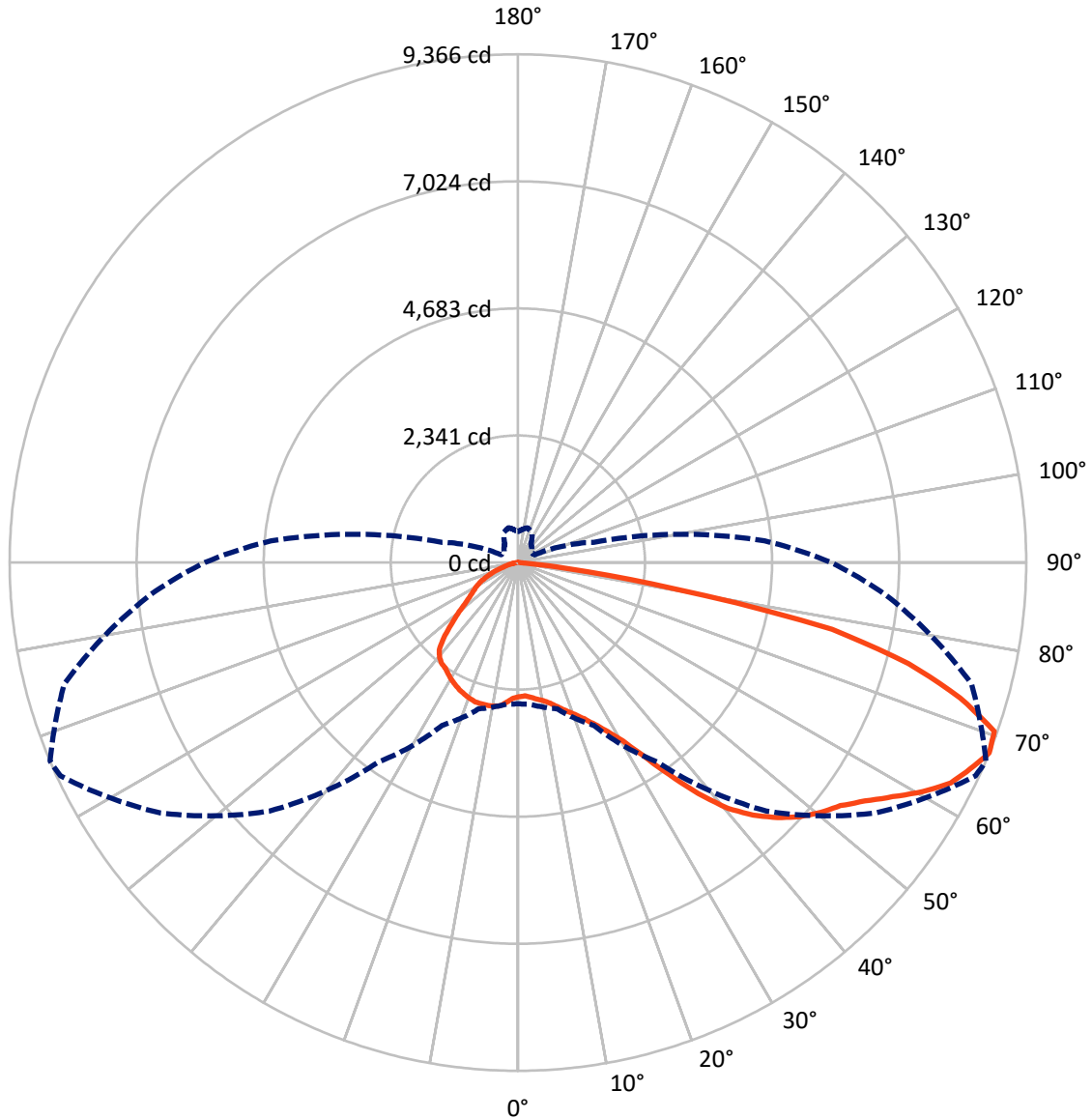
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.6 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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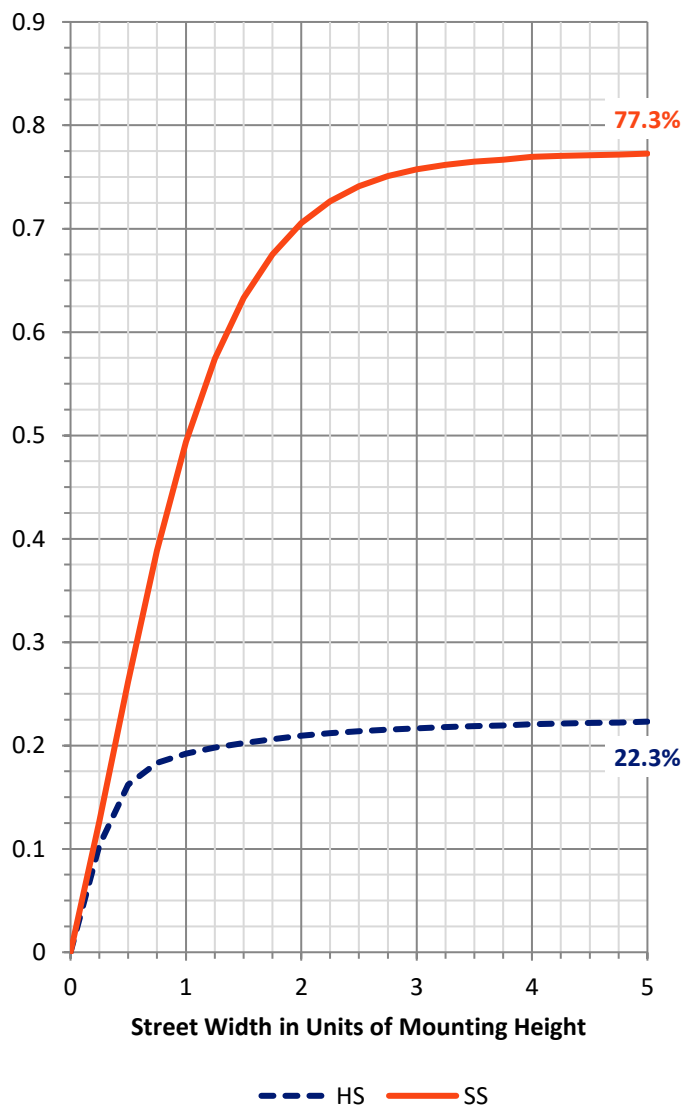
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3723.7	0.0	3723.7
	% Fixture	22.7	0.0	22.7
<b>Street Side</b>	Lumens	12687.3	0.0	12687.3
	% Fixture	77.3	0.0	77.3
<b>Total</b>	Lumens	16411.0	0.0	16411.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	250.6	1.5
10°-20°	793.2	4.8
20°-30°	1360.5	8.3
30°-40°	2024.7	12.3
40°-50°	2768.2	16.9
50°-60°	3325.1	20.3
60°-70°	3527.5	21.5
70°-80°	2154.9	13.1
80°-90°	206.4	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°	16411.0	100.0
0°-180°	16411.0	100.0

**Coefficient of Utilization**



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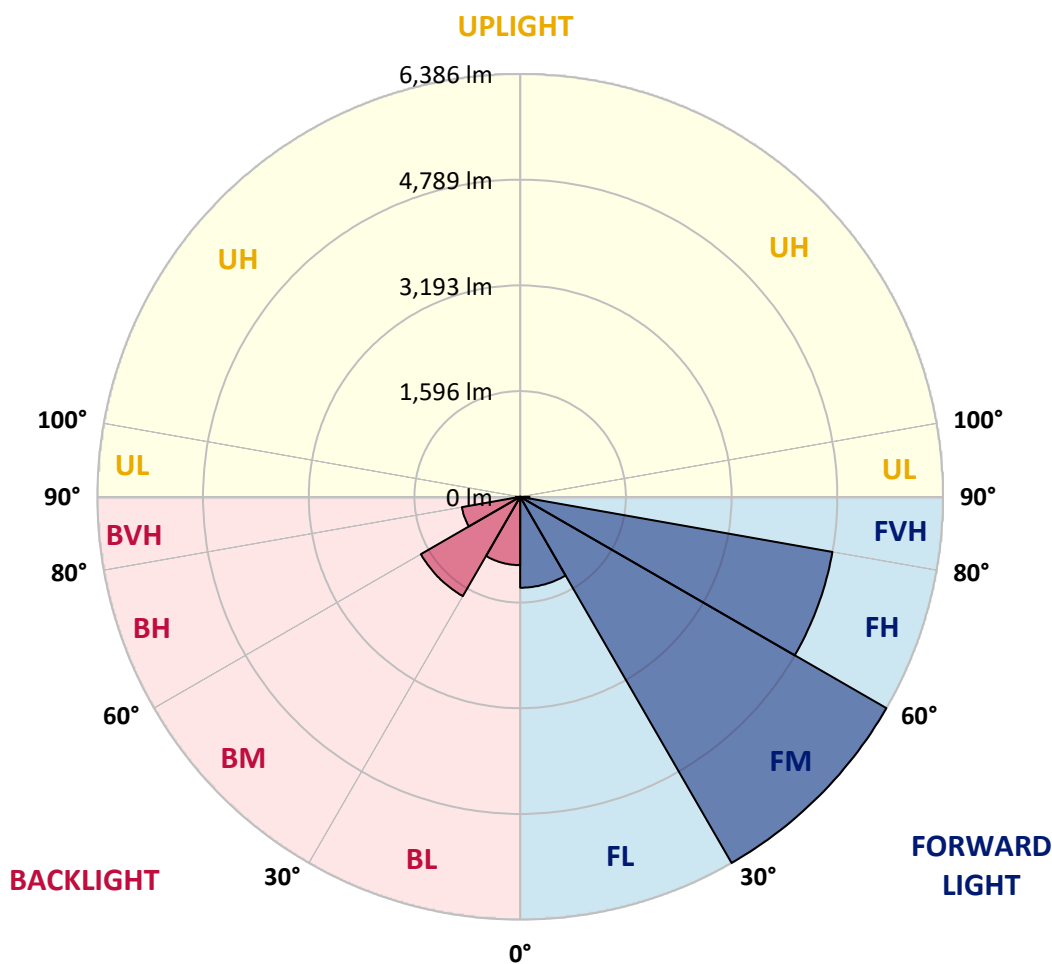
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1372.6	8.4			
FM (30°-60°)	6385.9	38.9			
FH (60°-80°)	4788.3	29.2			G2/5000
FVH (80°-90°)	140.5	0.9			G2/225
BL (0°-30°)	1031.7	6.3	B3/2500		
BM (30°-60°)	1732.1	10.6	B2/2500		
BH (60°-80°)	894.1	5.4	B2/1000		G2/1000
BVH (80°-90°)	65.8	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°	2474.3	2474.3	2474.3	2474.3	2474.3	2474.3	2474.3	2474.3	2474.3	2474.3	2474.3
2.5°	2513.5	2525.4	2505.9	2492.8	2478.7	2486.3	2467.8	2467.8	2459.1	2473.2	2464.5
5°	2595.0	2605.9	2572.2	2545.0	2542.8	2520.0	2517.8	2506.9	2493.9	2505.9	2517.8
7.5°	2703.7	2699.4	2675.5	2643.9	2612.4	2599.4	2577.6	2561.3	2541.7	2552.6	2555.9
10°	2836.3	2828.7	2797.2	2747.2	2722.2	2686.3	2632.0	2601.5	2587.4	2598.3	2601.5
12.5°	2977.7	2967.9	2937.5	2882.0	2838.5	2782.0	2720.0	2671.1	2661.3	2650.4	2668.9
15°	3136.4	3119.0	3092.9	3048.3	2980.9	2907.0	2822.2	2775.5	2761.3	2742.9	2734.2
17.5°	3308.2	3306.0	3272.3	3223.4	3154.9	3052.7	2944.0	2871.1	2871.1	2863.5	2816.8
20°	3493.0	3484.3	3450.6	3423.4	3326.6	3219.0	3086.4	2994.0	2984.2	2969.0	2891.8
22.5°	3678.9	3680.0	3636.5	3615.8	3544.1	3406.0	3238.6	3146.2	3126.6	3106.0	2972.2
25°	3847.4	3849.6	3836.5	3798.5	3739.8	3612.6	3437.5	3314.7	3303.8	3275.6	3113.6
27.5°	4018.1	4045.2	4007.2	4011.5	3985.5	3839.8	3664.8	3515.8	3526.7	3464.7	3242.9
30°	4220.3	4230.1	4211.6	4217.0	4200.7	4105.0	3935.4	3814.8	3814.8	3744.1	3462.5
32.5°	4382.3	4373.6	4374.7	4431.2	4438.8	4386.6	4247.5	4208.3	4242.0	4233.3	3980.0
35°	4462.7	4477.9	4520.3	4649.7	4712.8	4681.2	4664.9	4717.1	4801.9	4856.3	4545.3
37.5°	4566.0	4612.7	4666.0	4810.6	4926.9	5013.9	5103.0	5274.8	5396.6	5467.2	5082.4
40°	4672.5	4676.9	4783.4	4962.8	5190.0	5328.1	5540.1	5835.8	5955.4	5902.1	5380.3
42.5°	4589.9	4600.8	4748.6	5068.2	5353.1	5706.4	5935.8	6277.1	6359.8	6197.8	5687.9
45°	4483.4	4504.0	4691.0	5068.2	5532.5	6053.2	6315.2	6695.7	6705.5	6487.0	5873.8
47.5°	4388.8	4406.2	4603.0	5029.1	5701.0	6357.6	6620.7	6930.5	6996.8	6722.9	6120.6
50°	4262.7	4306.2	4499.7	4994.3	5779.2	6569.6	6891.4	7213.2	7236.0	6945.7	6305.4
52.5°	4125.7	4163.7	4401.8	4929.1	5879.3	6744.6	7070.8	7485.0	7442.6	7243.6	6513.1
55°	3940.9	3974.6	4249.6	4824.7	5891.2	6839.2	7200.1	7737.2	7753.5	7491.5	6714.2
57.5°	3728.9	3785.4	4035.5	4631.2	5781.4	6867.5	7423.0	8078.5	8141.6	7798.1	6875.1
60°	3499.5	3544.1	3827.8	4425.7	5635.7	6974.0	7728.5	8521.0	8571.0	8065.5	6940.3
62.5°	3264.7	3301.6	3536.5	4117.0	5368.3	6994.7	7994.8	8965.6	8949.3	8303.6	7030.5
65°	2972.2	2975.5	3197.3	3744.1	4996.5	6846.8	8131.8	9146.1	9162.4	8519.9	6927.3
67.5°	2600.4	2621.1	2789.6	3309.3	4489.9	6475.0	8044.8	9301.6	9365.7	8653.6	6795.7
70°	2071.0	2083.0	2259.1	2742.9	3816.9	5899.9	7879.6	9325.5	9311.4	8480.8	6433.7
72.5°	1473.1	1518.7	1637.2	1928.6	2928.8	4829.1	7132.7	8587.3	8522.1	7813.3	5739.0
75°	946.9	951.2	1069.7	1260.0	1714.4	3423.4	5945.6	7402.3	7429.5	6777.2	4672.5
77.5°	313.1	353.3	392.5	531.6	711.0	1425.2	4013.7	5834.7	5917.3	5338.9	3188.6
80°	138.1	138.1	233.7	301.1	383.8	611.0	1601.4	2640.7	2894.0	2489.6	1228.5
82.5°	101.1	103.3	156.5	179.4	151.1	254.4	575.1	845.8	896.9	805.6	488.1
85°	57.6	59.8	67.4	77.2	64.1	103.3	127.2	130.5	131.5	114.1	89.1
87.5°	26.1	26.1	23.9	20.7	12.0	7.6	7.6	5.4	6.5	5.4	4.3
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°	2474.3	2474.3	2474.3	2474.3	2474.3	2474.3	2474.3	2474.3	2474.3	2474.3	2474.3
2.5°	2461.3	2472.2	2496.1	2500.4	2511.3	2527.6	2548.3	2558.0	2590.7	2605.9	2610.2
5°	2520.0	2525.4	2566.7	2580.9	2629.8	2654.8	2676.5	2691.8	2732.0	2741.8	2759.2
7.5°	2564.6	2583.0	2633.1	2664.6	2695.0	2721.1	2718.9	2754.8	2775.5	2791.8	2798.3
10°	2610.2	2620.0	2671.1	2685.2	2708.1	2727.6	2733.1	2742.9	2748.3	2771.1	2778.7
12.5°	2680.9	2674.4	2680.9	2692.8	2711.3	2707.0	2718.9	2704.8	2712.4	2741.8	2730.9
15°	2733.1	2717.9	2689.6	2690.7	2678.7	2673.3	2655.9	2643.9	2642.8	2649.4	2660.2
17.5°	2791.8	2747.2	2695.0	2680.9	2636.3	2592.8	2562.4	2529.8	2524.3	2530.9	2523.3
20°	2842.9	2783.1	2692.8	2648.3	2561.3	2483.0	2438.5	2389.5	2387.4	2383.0	2374.3
22.5°	2904.8	2829.8	2691.8	2601.5	2498.2	2372.1	2279.7	2242.8	2198.2	2215.6	2213.4
25°	2997.2	2903.8	2701.5	2551.5	2384.1	2234.1	2115.6	2034.0	1989.5	1979.7	1984.0
27.5°	3111.4	2987.5	2707.0	2488.5	2279.7	2065.6	1877.5	1754.6	1727.5	1691.6	1694.9
30°	3277.7	3101.6	2733.1	2418.9	2126.4	1850.3	1626.4	1466.6	1420.9	1428.5	1430.7
32.5°	3670.2	3336.4	2751.6	2338.4	1957.9	1612.2	1319.8	1160.0	1124.1	1137.1	1144.8
35°	4185.5	3786.5	2852.7	2235.2	1766.6	1333.9	1012.1	921.9	929.5	954.5	961.0
37.5°	4696.4	4263.8	3075.5	2144.9	1522.0	1020.8	807.7	754.5	799.0	823.0	830.6
40°	5010.6	4581.2	3321.2	2005.8	1211.1	750.1	615.3	584.9	636.0	691.4	718.6
42.5°	5328.1	4841.0	3481.0	1836.2	866.5	545.7	457.7	482.7	566.4	621.8	634.9
45°	5530.3	4974.8	3496.2	1566.6	577.3	422.9	417.5	470.7	556.6	601.2	608.8
47.5°	5727.1	5154.1	3432.1	1254.6	434.9	402.2	414.2	476.2	561.0	611.0	609.9
50°	5922.7	5330.2	3292.9	995.8	410.9	389.2	420.7	487.0	568.6	606.6	606.6
52.5°	6042.3	5417.2	3013.6	792.5	395.7	381.6	424.0	491.4	561.0	582.7	579.4
55°	6185.8	5437.9	2825.5	659.9	379.4	376.2	430.5	503.3	559.9	562.1	554.4
57.5°	6260.8	5386.8	2672.2	561.0	365.3	378.3	438.1	506.6	591.4	617.5	621.8
60°	6228.2	5324.8	2498.2	499.0	352.2	375.1	435.9	531.6	689.2	743.6	733.8
62.5°	6196.7	5208.5	2205.8	447.9	338.1	377.2	433.8	589.2	809.9	753.4	722.9
65°	6082.6	4967.1	1825.3	399.0	320.7	378.3	429.4	651.2	829.5	761.0	708.8
67.5°	5769.5	4564.9	1443.7	346.8	300.1	363.1	419.6	612.1	664.2	597.9	569.7
70°	5303.1	3982.2	990.4	300.1	275.0	344.6	413.1	579.4	624.0	577.3	541.4
72.5°	4550.8	3128.8	549.0	251.1	241.3	321.8	412.0	571.8	628.4	494.6	455.5
75°	3460.4	2075.4	356.6	196.8	197.9	287.0	392.5	545.7	608.8	465.3	412.0
77.5°	2038.4	874.1	249.0	140.2	154.4	222.9	349.0	522.9	576.2	455.5	412.0
80°	692.5	384.8	162.0	94.6	94.6	142.4	249.0	427.2	513.1	443.6	439.2
82.5°	359.8	244.6	103.3	58.7	54.4	68.5	153.3	293.5	412.0	376.2	428.3
85°	71.8	51.1	32.6	23.9	26.1	34.8	54.4	148.9	260.9	290.3	347.9
87.5°	5.4	4.3	6.5	6.5	6.5	6.5	7.6	37.0	104.4	128.3	158.7
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)