

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: P509503

Luminaire Tested: **VERD-G-CA2-110-730-U-T3**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P509503
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-CA2-110-730-U-T3
Description: VERDEON-G ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 1020mA LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16113 lumens
Efficiency: N/A
Efficacy: 142.3 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

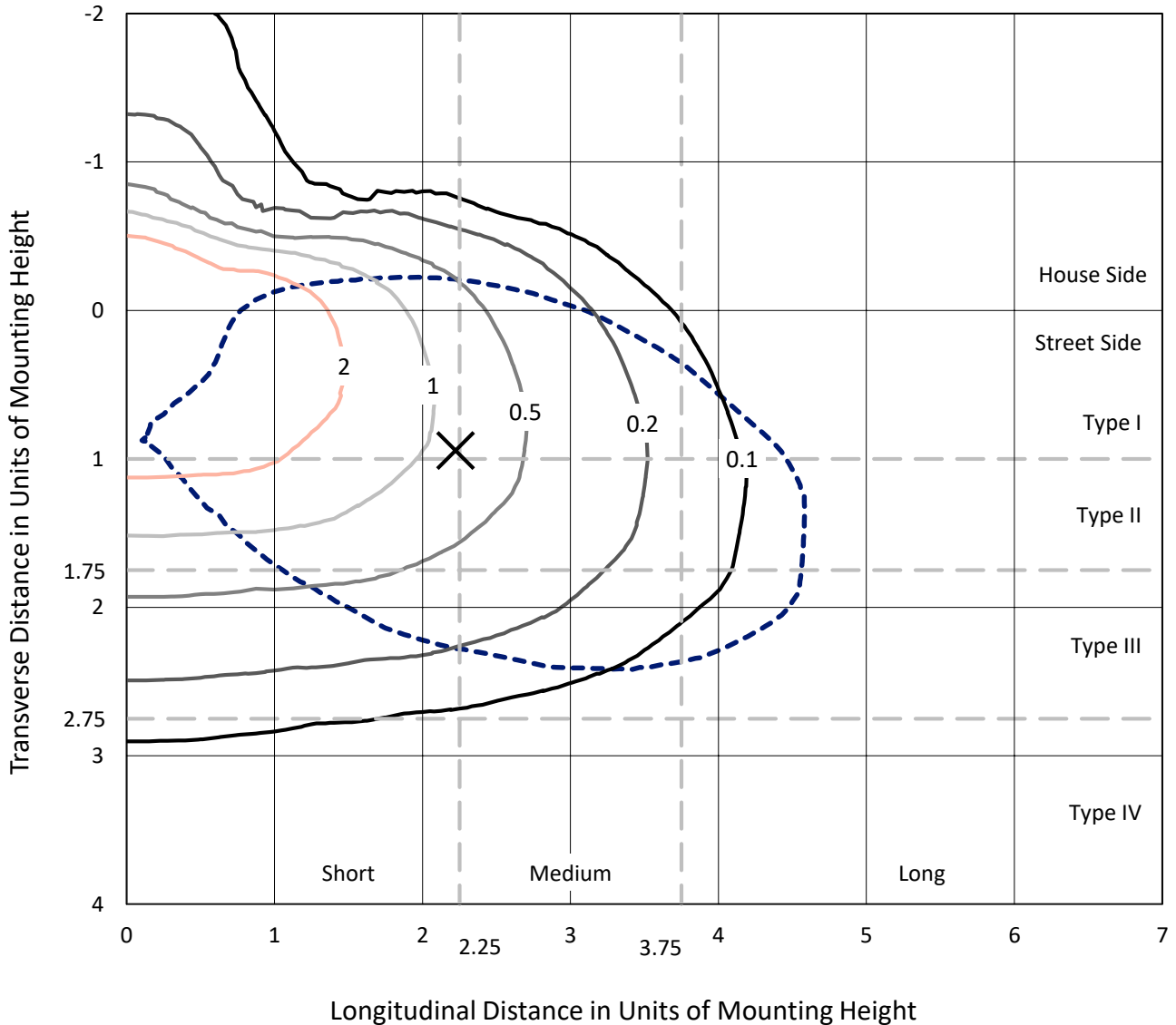
Input Watts (W): 113.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P509503
 CATALOG NUMBER: VERD-G-CA2-110-730-U-T3

Iso-Footcandle Lines of Horizontal Illumination

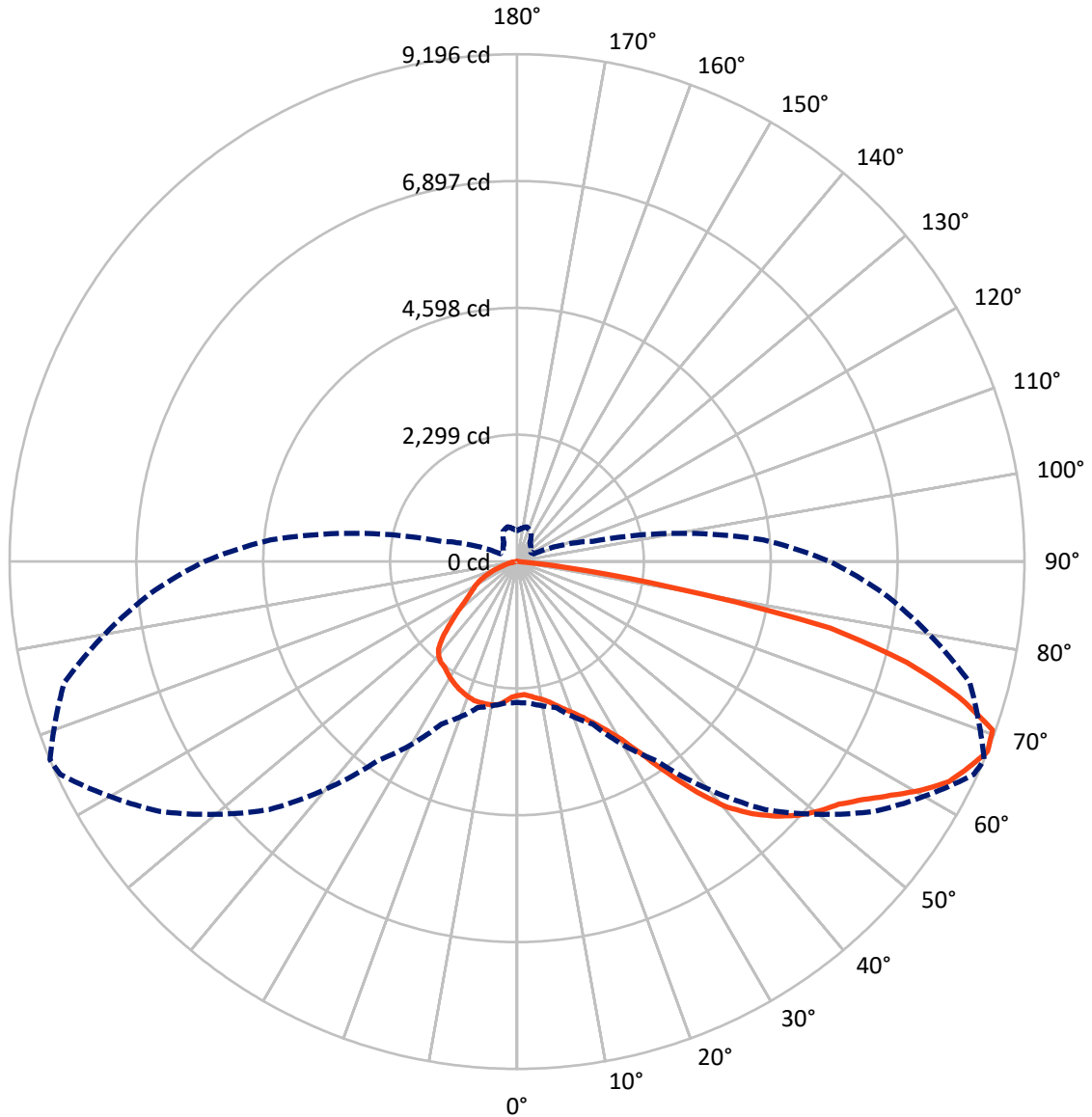
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.6 fc
 Type III - Short - N/A

REPORT NUMBER: P509503
CATALOG NUMBER: VERD-G-CA2-110-730-U-T3

Luminous Intensity Polar Plot



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

REPORT NUMBER: P509503

CATALOG NUMBER: VERD-G-CA2-110-730-U-T3

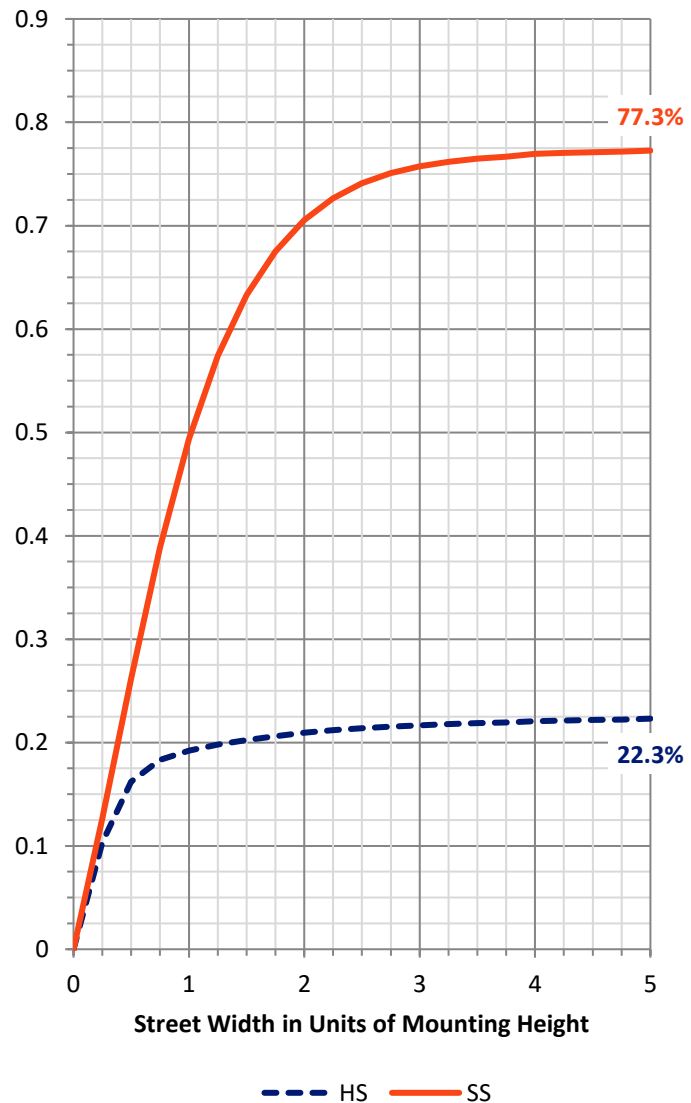
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3656.1	0.0	3656.1
	% Fixture	22.7	0.0	22.7
Street Side	Lumens	12456.9	0.0	12456.9
	% Fixture	77.3	0.0	77.3
Total	Lumens	16113.0	0.0	16113.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	246.1	1.5
10°-20°	778.8	4.8
20°-30°	1335.8	8.3
30°-40°	1987.9	12.3
40°-50°	2717.9	16.9
50°-60°	3264.7	20.3
60°-70°	3463.4	21.5
70°-80°	2115.7	13.1
80°-90°	202.6	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°	16113.0	100.0
0°-180°	16113.0	100.0



REPORT NUMBER: P509503

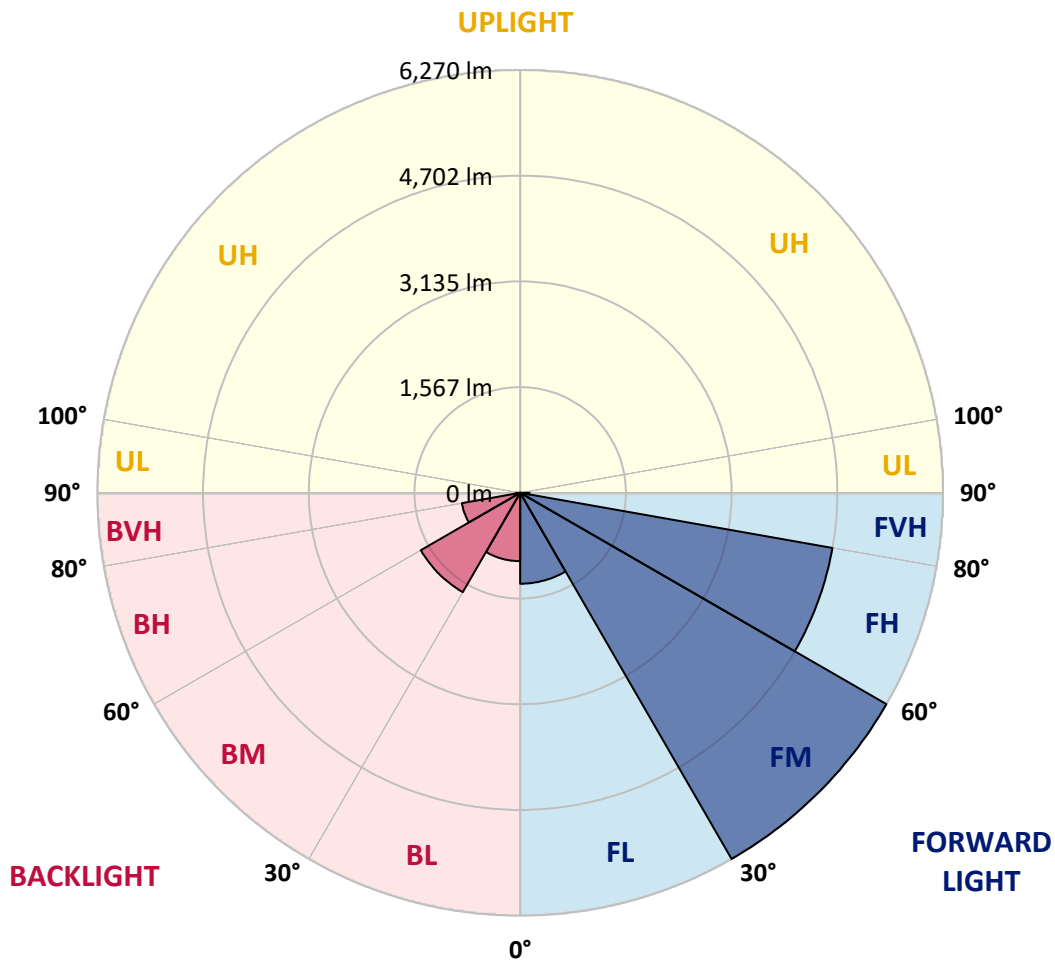
CATALOG NUMBER: VERD-G-CA2-110-730-U-T3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1347.7	8.4			
FM (30°-60°)	6269.9	38.9			
FH (60°-80°)	4701.3	29.2			G2/5000
FVH (80°-90°)	138.0	0.9			G2/225
BL (0°-30°)	1012.9	6.3	B3/2500		
BM (30°-60°)	1700.7	10.6	B2/2500		
BH (60°-80°)	877.8	5.4	B2/1000		G2/1000
BVH (80°-90°)	64.6	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





REPORT NUMBER: P509503
 CATALOG NUMBER: VERD-G-CA2-110-730-U-T3

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	2429.4	2429.4	2429.4	2429.4	2429.4	2429.4	2429.4	2429.4	2429.4	2429.4	2429.4
2.5°	2467.8	2479.6	2460.4	2447.5	2433.7	2441.1	2423.0	2423.0	2414.5	2428.3	2419.8
5°	2547.9	2558.6	2525.5	2498.8	2496.6	2474.2	2472.1	2461.4	2448.6	2460.4	2472.1
7.5°	2654.6	2650.4	2626.9	2595.9	2565.0	2552.2	2530.8	2514.8	2495.6	2506.3	2509.5
10°	2784.8	2777.4	2746.4	2697.3	2672.8	2637.5	2584.2	2554.3	2540.4	2551.1	2554.3
12.5°	2923.6	2914.0	2884.1	2829.7	2787.0	2731.5	2670.6	2622.6	2613.0	2602.3	2620.5
15°	3079.4	3062.4	3036.8	2993.0	2926.8	2854.2	2771.0	2725.1	2711.2	2693.0	2684.5
17.5°	3248.1	3246.0	3212.9	3164.8	3097.6	2997.3	2890.5	2819.0	2819.0	2811.5	2765.6
20°	3429.6	3421.0	3387.9	3361.2	3266.2	3160.6	3030.3	2939.6	2930.0	2915.1	2839.3
22.5°	3612.1	3613.1	3570.5	3550.2	3479.7	3344.2	3179.8	3089.1	3069.8	3049.6	2918.3
25°	3777.5	3779.7	3766.9	3729.5	3671.9	3547.0	3375.1	3254.5	3243.8	3216.1	3057.0
27.5°	3945.1	3971.8	3934.4	3938.7	3913.1	3770.1	3598.2	3452.0	3462.6	3401.8	3184.1
30°	4143.6	4153.3	4135.1	4140.4	4124.4	4030.5	3864.0	3745.5	3745.5	3676.1	3399.7
32.5°	4302.7	4294.1	4295.2	4350.7	4358.2	4307.0	4170.3	4131.9	4165.0	4156.5	3907.7
35°	4381.7	4396.6	4438.2	4565.3	4627.2	4596.2	4580.2	4631.4	4714.7	4768.1	4462.8
37.5°	4483.1	4529.0	4581.3	4723.2	4837.5	4922.8	5010.4	5179.0	5298.6	5368.0	4990.1
40°	4587.7	4592.0	4696.6	4872.7	5095.8	5231.3	5439.5	5729.8	5847.2	5794.9	5282.6
42.5°	4506.6	4517.2	4662.4	4976.2	5255.9	5602.8	5828.0	6163.2	6244.3	6085.2	5584.6
45°	4402.0	4422.2	4605.8	4976.2	5432.0	5943.3	6200.5	6574.1	6583.7	6369.2	5767.2
47.5°	4309.1	4326.2	4519.4	4937.8	5597.4	6242.2	6500.5	6804.7	6869.8	6600.8	6009.5
50°	4185.3	4228.0	4418.0	4903.6	5674.3	6450.3	6766.2	7082.2	7104.6	6819.6	6190.9
52.5°	4050.8	4088.1	4321.9	4839.6	5772.5	6622.1	6942.4	7349.0	7307.4	7112.1	6394.8
55°	3869.3	3902.4	4172.5	4737.1	5784.2	6715.0	7069.4	7596.7	7612.7	7355.4	6592.3
57.5°	3661.2	3716.7	3962.2	4547.1	5676.4	6742.8	7288.2	7931.8	7993.8	7656.5	6750.2
60°	3436.0	3479.7	3758.3	4345.4	5533.4	6847.4	7588.1	8366.3	8415.4	7919.0	6814.3
62.5°	3205.4	3241.7	3472.3	4042.2	5270.8	6867.6	7849.7	8802.8	8786.8	8152.8	6902.9
65°	2918.3	2921.5	3139.2	3676.1	4905.8	6722.5	7984.1	8980.0	8996.0	8365.2	6801.5
67.5°	2553.2	2573.5	2738.9	3249.2	4408.4	6357.4	7898.8	9132.7	9195.6	8496.5	6672.3
70°	2033.4	2045.1	2218.1	2693.0	3747.6	5792.8	7736.5	9156.2	9142.3	8326.8	6316.9
72.5°	1446.3	1491.2	1607.5	1893.6	2875.6	4741.4	7003.2	8431.4	8367.3	7671.4	5634.8
75°	929.7	934.0	1050.3	1237.1	1683.3	3361.2	5837.6	7267.9	7294.6	6654.2	4587.7
77.5°	307.4	346.9	385.3	522.0	698.1	1399.4	3940.8	5728.7	5809.9	5242.0	3130.7
80°	135.6	135.6	229.5	295.7	376.8	599.9	1572.3	2592.7	2841.4	2444.3	1206.2
82.5°	99.3	101.4	153.7	176.1	148.4	249.8	564.7	830.4	880.6	790.9	479.3
85°	56.6	58.7	66.2	75.8	63.0	101.4	124.9	128.1	129.2	112.1	87.5
87.5°	25.6	25.6	23.5	20.3	11.7	7.5	7.5	5.3	6.4	5.3	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



REPORT NUMBER: P509503
 CATALOG NUMBER: VERD-G-CA2-110-730-U-T3

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2429.4	2429.4	2429.4	2429.4	2429.4	2429.4	2429.4	2429.4	2429.4	2429.4	2429.4
2.5°	2416.6	2427.3	2450.7	2455.0	2465.7	2481.7	2502.0	2511.6	2543.6	2558.6	2562.8
5°	2474.2	2479.6	2520.1	2534.0	2582.0	2606.6	2627.9	2642.9	2682.4	2692.0	2709.1
7.5°	2518.0	2536.1	2585.2	2616.2	2646.1	2671.7	2669.6	2704.8	2725.1	2741.1	2747.5
10°	2562.8	2572.4	2622.6	2636.5	2658.9	2678.1	2683.4	2693.0	2698.4	2720.8	2728.3
12.5°	2632.2	2625.8	2632.2	2643.9	2662.1	2657.8	2669.6	2655.7	2663.2	2692.0	2681.3
15°	2683.4	2668.5	2640.7	2641.8	2630.1	2624.7	2607.7	2595.9	2594.8	2601.3	2611.9
17.5°	2741.1	2697.3	2646.1	2632.2	2588.4	2545.7	2515.9	2483.8	2478.5	2484.9	2477.4
20°	2791.2	2732.5	2643.9	2600.2	2514.8	2437.9	2394.2	2346.1	2344.0	2339.7	2331.2
22.5°	2852.1	2778.4	2642.9	2554.3	2452.9	2329.1	2238.3	2202.0	2158.3	2175.4	2173.2
25°	2942.8	2851.0	2652.5	2505.2	2340.8	2193.5	2077.2	1997.1	1953.3	1943.7	1948.0
27.5°	3054.9	2933.2	2657.8	2443.3	2238.3	2028.1	1843.4	1722.8	1696.1	1660.9	1664.1
30°	3218.2	3045.3	2683.4	2375.0	2087.8	1816.7	1596.8	1439.9	1395.1	1402.6	1404.7
32.5°	3603.5	3275.8	2701.6	2296.0	1922.4	1583.0	1295.8	1138.9	1103.7	1116.5	1124.0
35°	4109.5	3717.8	2800.9	2194.6	1734.5	1309.7	993.7	905.2	912.6	937.2	943.6
37.5°	4611.2	4186.3	3019.7	2106.0	1494.4	1002.3	793.1	740.8	784.5	808.0	815.5
40°	4919.6	4498.0	3260.9	1969.4	1189.1	736.5	604.1	574.3	624.4	678.9	705.6
42.5°	5231.3	4753.1	3417.8	1802.8	850.7	535.8	449.4	473.9	556.1	610.6	623.4
45°	5429.9	4884.4	3432.8	1538.1	566.8	415.2	409.9	462.2	546.5	590.3	597.7
47.5°	5623.1	5060.5	3369.8	1231.8	427.0	394.9	406.7	467.5	550.8	599.9	598.8
50°	5815.2	5233.5	3233.2	977.7	403.5	382.1	413.1	478.2	558.2	595.6	595.6
52.5°	5932.6	5318.9	2958.8	778.1	388.5	374.7	416.3	482.5	550.8	572.1	568.9
55°	6073.5	5339.1	2774.2	647.9	372.5	369.3	422.7	494.2	549.7	551.8	544.4
57.5°	6147.2	5289.0	2623.7	550.8	358.6	371.5	430.2	497.4	580.7	606.3	610.6
60°	6115.1	5228.1	2452.9	489.9	345.8	368.3	428.0	522.0	676.7	730.1	720.5
62.5°	6084.2	5113.9	2165.8	439.8	332.0	370.4	425.9	578.5	795.2	739.7	709.8
65°	5972.1	4876.9	1792.2	391.7	314.9	371.5	421.6	639.4	814.4	747.2	695.9
67.5°	5664.7	4482.0	1417.5	340.5	294.6	356.5	412.0	600.9	652.2	587.1	559.3
70°	5206.8	3909.9	972.4	294.6	270.1	338.4	405.6	568.9	612.7	566.8	531.6
72.5°	4468.1	3072.0	539.0	246.6	237.0	316.0	404.5	561.5	617.0	485.7	447.2
75°	3397.5	2037.7	350.1	193.2	194.3	281.8	385.3	535.8	597.7	456.8	404.5
77.5°	2001.4	858.2	244.4	137.7	151.6	218.8	342.6	513.4	565.7	447.2	404.5
80°	679.9	377.9	159.0	92.9	92.9	139.8	244.4	419.5	503.8	435.5	431.2
82.5°	353.3	240.2	101.4	57.6	53.4	67.2	150.5	288.2	404.5	369.3	420.6
85°	70.4	50.2	32.0	23.5	25.6	34.2	53.4	146.2	256.2	285.0	341.6
87.5°	5.3	4.3	6.4	6.4	6.4	6.4	7.5	36.3	102.5	126.0	155.8
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)