

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: P509857

Luminaire Tested: **VERD-M-CA3-150-750-U-T4**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P509857
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2103-181-6)
Test Lab: INNOVATION CENTER
Issue Date: 4/6/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VERD-M-CA3-150-750-U-T4
Description: VERDEON-M ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 5000K, 940mA LEDS AND TYPE IV OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22500 lumens
Efficiency: N/A
Efficacy: 147.1 lumens/watt
Luminous Opening: Rectangular (W 1.35' x L: 1.58' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

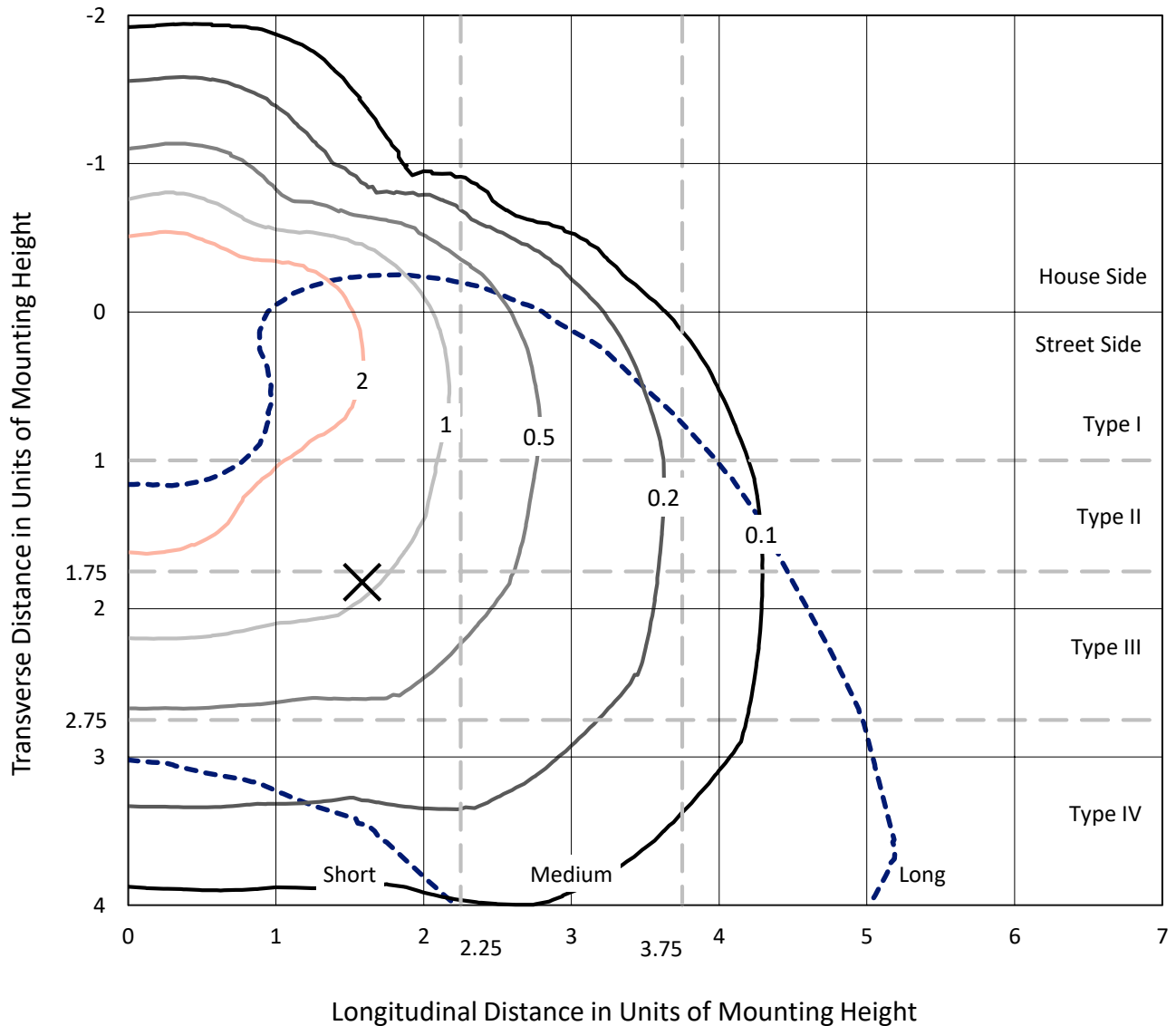
Input Watts (W): 153
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

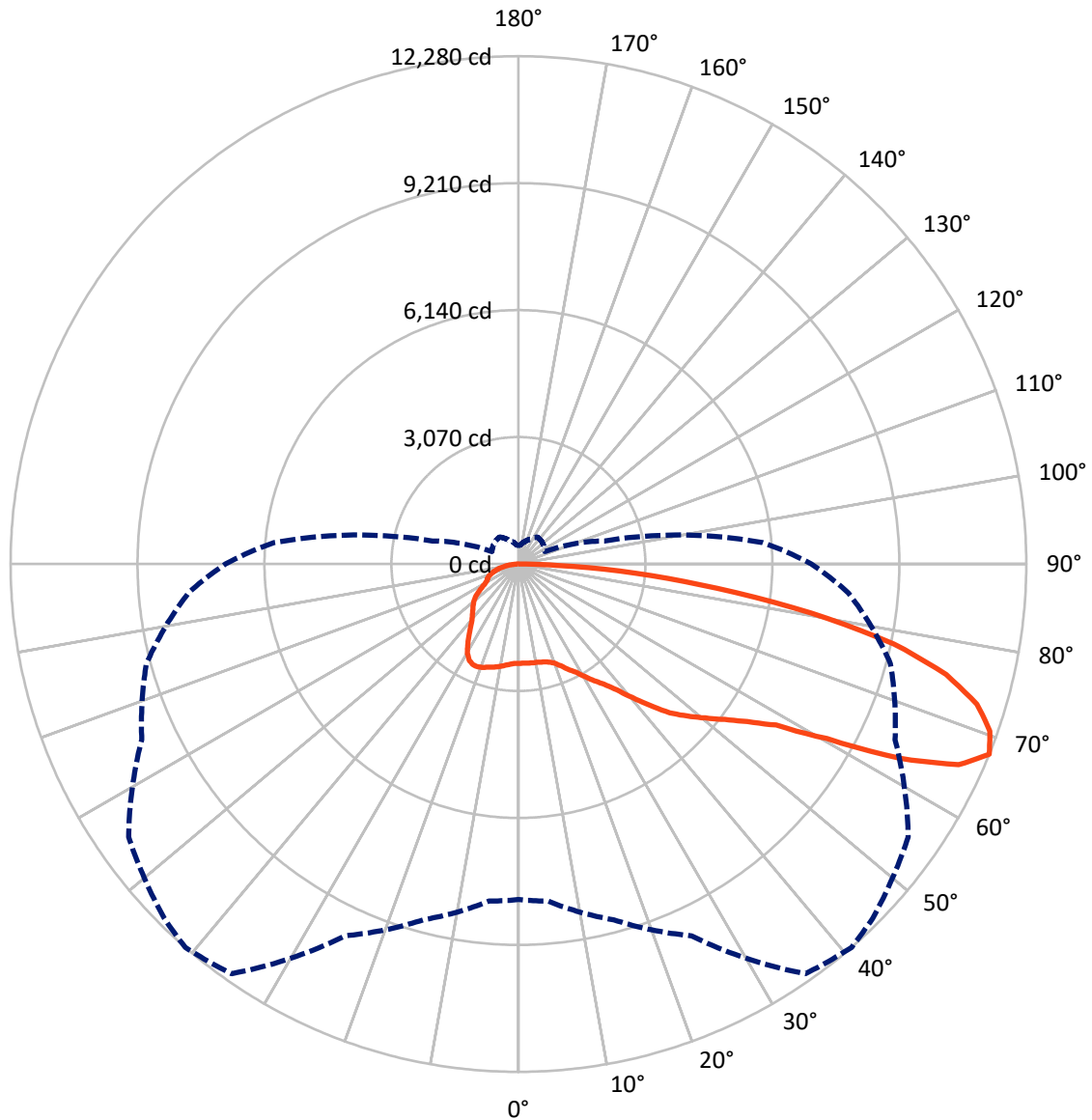
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.1 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 41-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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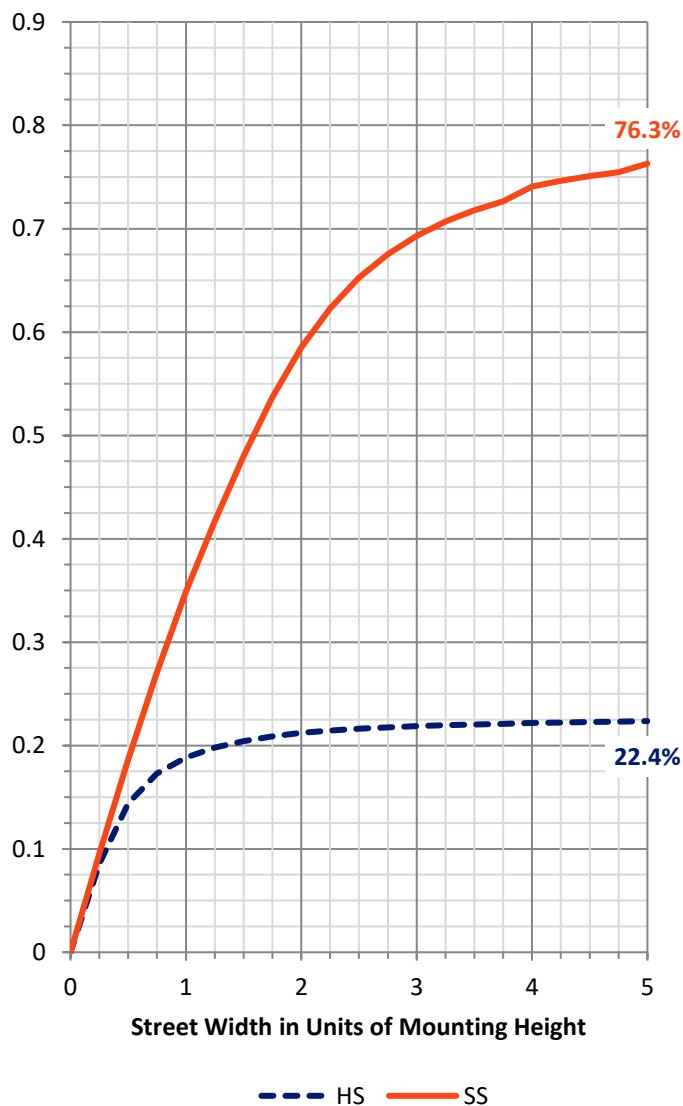
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5091.6	0.0	5091.6
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	17408.3	0.0	17408.3
	% Fixture	77.4	0.0	77.4
Total	Lumens	22500.0	0.0	22500.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	232.1	1.0
10°-20°	720.0	3.2
20°-30°	1287.5	5.7
30°-40°	2018.7	9.0
40°-50°	3130.5	13.9
50°-60°	4413.2	19.6
60°-70°	5625.8	25.0
70°-80°	4210.0	18.7
80°-90°	862.2	3.8
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°	22500.0	100.0
0°-180°	22500.0	100.0

Coefficient of Utilization



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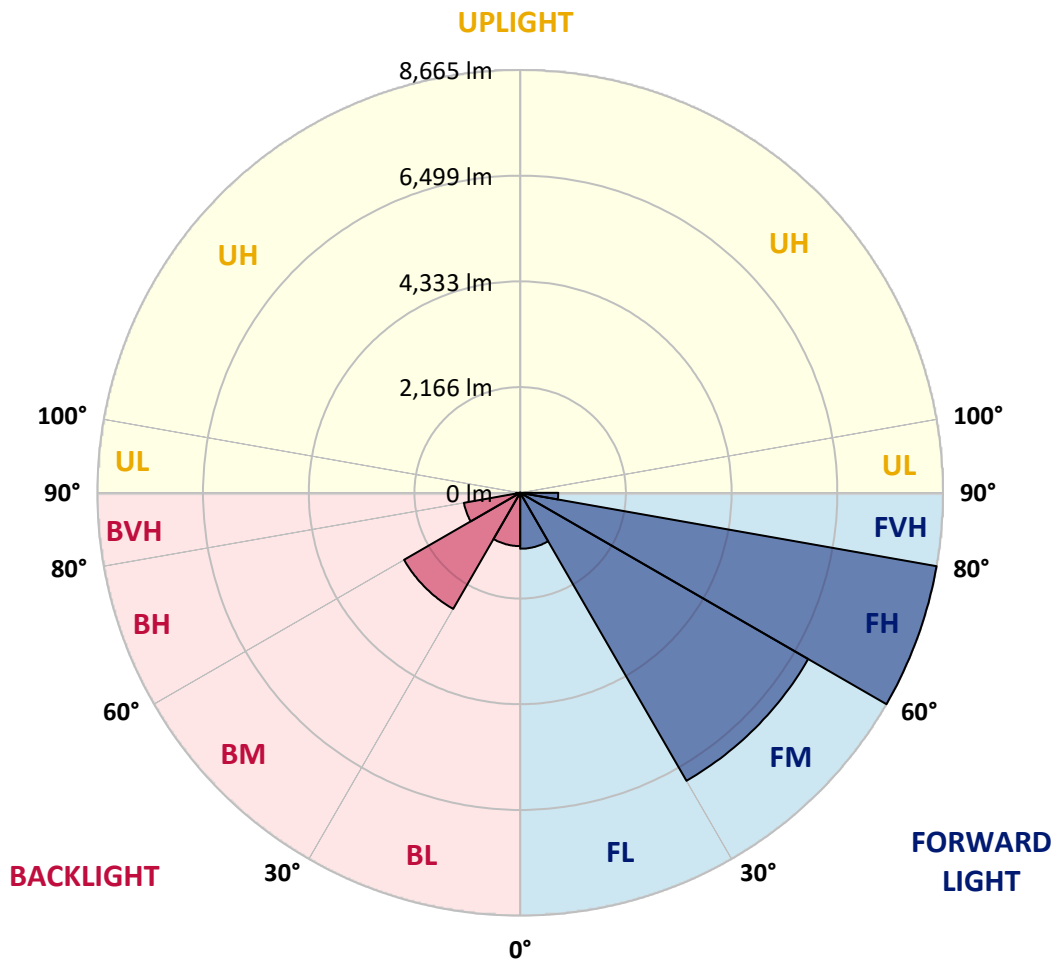
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1146.4	5.1			
FM (30°-60°)	6815.1	30.3			
FH (60°-80°)	8665.2	38.5			G4/12000
FVH (80°-90°)	781.7	3.5			G5
BL (0°-30°)	1093.1	4.9	B3/2500		
BM (30°-60°)	2747.4	12.2	B3/5000		
BH (60°-80°)	1170.6	5.2	B3/2500		G3/2500
BVH (80°-90°)	80.5	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-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	41°	45°	55°	65°	75°	85°
0°	2402.3	2402.3	2402.3	2402.3	2402.3	2402.3	2402.3	2402.3	2402.3	2402.3	2402.3
2.5°	2372.7	2400.2	2396.2	2391.1	2399.2	2400.2	2376.8	2386.0	2391.1	2399.2	2412.4
5°	2378.8	2406.3	2404.3	2395.1	2401.2	2404.3	2382.9	2399.2	2399.2	2402.3	2417.5
7.5°	2365.6	2392.1	2392.1	2389.0	2402.3	2414.5	2395.1	2409.4	2417.5	2425.7	2435.9
10°	2353.4	2375.8	2383.9	2381.9	2412.4	2415.5	2402.3	2436.9	2450.1	2458.3	2470.5
12.5°	2340.1	2367.6	2378.8	2390.0	2422.6	2433.8	2426.7	2462.3	2489.8	2504.1	2517.3
15°	2334.0	2364.6	2382.9	2399.2	2434.8	2455.2	2455.2	2509.2	2541.8	2560.1	2583.5
17.5°	2376.8	2408.4	2422.6	2435.9	2468.5	2496.0	2493.9	2557.1	2604.9	2633.4	2676.2
20°	2482.7	2520.4	2528.5	2533.6	2554.0	2564.2	2561.1	2629.4	2695.5	2749.5	2797.4
22.5°	2667.0	2689.4	2693.5	2673.1	2678.2	2686.4	2681.3	2719.0	2794.3	2857.5	2943.0
25°	2817.7	2853.4	2843.2	2813.7	2817.7	2828.9	2813.7	2871.7	2925.7	3008.2	3094.7
27.5°	2976.6	3003.1	2991.9	2973.6	2969.5	2961.3	2958.3	3032.6	3112.0	3177.2	3305.5
30°	3170.1	3184.3	3151.8	3143.6	3150.7	3155.8	3136.5	3231.2	3303.5	3397.2	3570.3
32.5°	3496.0	3509.2	3462.4	3337.1	3340.2	3363.6	3347.3	3466.4	3602.9	3716.9	3893.1
35°	3911.4	3911.4	3874.8	3698.6	3565.2	3566.2	3570.3	3738.3	3991.9	4247.5	4428.8
37.5°	4332.0	4346.3	4277.0	4116.1	3947.1	3857.5	3782.1	3998.0	4330.0	4900.2	5170.1
40°	4769.9	4792.3	4688.4	4540.8	4346.3	4244.4	4156.9	4288.2	4736.3	5546.9	5760.7
42.5°	5152.8	5184.4	5077.4	4921.6	4786.2	4671.1	4538.7	4591.7	5183.3	6161.0	6282.1
45°	5509.2	5526.5	5435.9	5307.6	5195.6	5132.4	5039.8	5100.9	5694.6	6761.8	6739.4
47.5°	5771.9	5797.4	5714.9	5645.7	5530.6	5492.9	5491.9	5659.9	6269.9	7240.4	7136.5
50°	6198.6	6179.3	5993.9	5909.4	5839.2	5851.4	5880.9	6171.1	6946.1	7701.7	7470.5
52.5°	6914.5	6878.9	6467.5	6291.3	6204.7	6244.5	6259.7	6634.5	7628.4	8099.9	7746.5
55°	7840.2	7726.1	7426.8	6954.2	6682.3	6720.0	6702.7	7132.4	8174.2	8479.7	7951.2
57.5°	8452.2	8559.1	8415.6	8145.7	7470.5	7347.3	7306.6	7625.3	8679.3	8843.3	8163.0
60°	8983.8	9161.0	9389.1	9216.0	9033.7	8572.4	8192.5	8185.4	9124.3	9085.6	8248.6
62.5°	9544.9	9638.6	9989.9	10096.8	10434.9	10350.4	9841.2	8894.2	9569.3	9262.8	8298.4
65°	8977.7	9102.9	9742.5	10326.0	11577.5	11699.7	11533.7	10211.9	9877.9	9353.4	8227.2
67.5°	8114.1	8183.4	8907.4	9919.6	12094.8	12280.2	12113.1	11505.2	10049.0	9313.7	8007.2
70°	7007.2	7088.7	7780.1	9161.0	12068.3	12092.8	12027.6	11624.3	9980.7	9127.4	7453.2
72.5°	5681.3	5784.2	6392.1	7825.9	11489.9	11595.8	11493.0	11388.1	9789.3	8606.0	6499.0
75°	4298.4	4434.9	4977.6	6239.4	10153.9	10687.5	10700.7	11024.5	9045.9	7377.9	4716.9
77.5°	2931.8	3062.1	3576.4	4753.6	8428.8	9281.1	9503.1	9857.5	7558.1	5452.2	2573.3
80°	1650.7	1638.5	2291.3	3396.2	6428.8	7177.3	7456.3	7442.0	5307.6	2799.4	524.4
82.5°	762.7	764.8	1172.1	2168.0	4352.4	4846.3	4959.3	4316.7	1862.5	474.5	167.0
85°	379.8	383.9	564.2	1087.6	2457.3	2839.1	2698.6	1796.4	399.2	138.5	99.8
87.5°	150.7	144.6	223.0	447.1	887.0	939.9	820.8	359.5	72.3	48.9	33.6
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°	2402.3	2402.3	2402.3	2402.3	2402.3	2402.3	2402.3	2402.3	2402.3	2402.3	2402.3
2.5°	2409.4	2411.4	2420.6	2402.3	2407.4	2403.3	2400.2	2416.5	2415.5	2418.6	2413.5
5°	2416.5	2421.6	2430.8	2422.6	2430.8	2426.7	2429.8	2452.2	2455.2	2454.2	2454.2
7.5°	2435.9	2441.0	2458.3	2448.1	2466.4	2461.3	2462.3	2483.7	2487.8	2481.7	2479.7
10°	2476.6	2480.7	2505.1	2503.1	2510.2	2506.1	2502.1	2511.2	2509.2	2500.0	2496.0
12.5°	2523.4	2534.6	2562.1	2563.2	2572.3	2552.0	2530.6	2527.5	2521.4	2507.2	2504.1
15°	2593.7	2606.9	2648.7	2638.5	2632.4	2588.6	2553.0	2524.5	2500.0	2487.8	2476.6
17.5°	2694.5	2716.9	2775.0	2743.4	2698.6	2634.4	2572.3	2510.2	2458.3	2414.5	2397.2
20°	2822.8	2848.3	2897.2	2855.4	2787.2	2691.5	2590.7	2478.6	2365.6	2268.9	2254.6
22.5°	2975.6	3016.3	3052.0	2956.2	2855.4	2734.2	2590.7	2429.8	2242.4	2097.8	2062.1
25°	3153.8	3185.4	3174.2	3039.7	2894.1	2741.4	2562.1	2343.2	2078.4	1910.4	1881.9
27.5°	3347.3	3361.5	3275.0	3079.5	2898.2	2699.6	2481.7	2189.4	1887.0	1754.6	1727.1
30°	3585.6	3542.8	3377.8	3103.9	2857.5	2606.9	2338.1	1964.4	1731.2	1615.1	1583.5
32.5°	3842.2	3763.8	3451.2	3086.6	2767.8	2452.2	2116.1	1805.5	1627.3	1485.8	1459.3
35°	4331.0	4108.0	3558.1	3034.7	2612.0	2245.4	1901.2	1683.3	1517.3	1365.6	1341.2
37.5°	4990.9	4602.9	3707.8	2962.3	2427.7	2044.8	1741.4	1553.0	1409.4	1252.6	1213.9
40°	5504.1	5102.9	3948.1	2885.0	2257.7	1854.4	1625.3	1484.7	1338.1	1171.1	1137.5
42.5°	5992.9	5560.1	4243.4	2798.4	2082.5	1722.0	1574.4	1469.5	1318.7	1148.7	1117.1
45°	6424.7	5929.8	4498.0	2711.8	1884.9	1599.8	1536.7	1439.9	1291.3	1120.2	1089.6
47.5°	6774.0	6247.5	4719.0	2618.2	1705.7	1507.1	1487.8	1386.0	1238.3	1062.1	1025.5
50°	7089.7	6516.4	4871.7	2518.4	1530.6	1431.8	1407.3	1287.2	1133.4	977.6	954.2
52.5°	7284.2	6698.6	4963.4	2534.6	1364.6	1347.3	1307.5	1184.3	1041.8	908.4	877.8
55°	7487.9	6870.7	4962.4	2443.0	1226.1	1220.0	1182.3	1087.6	975.6	863.6	845.2
57.5°	7571.4	6886.0	4869.7	2012.2	1103.9	1065.2	1057.0	1007.1	909.4	803.5	783.1
60°	7627.4	6818.8	4694.5	1373.7	950.1	922.6	962.3	928.7	840.1	729.1	708.8
62.5°	7572.4	6745.5	4235.3	991.9	833.0	848.3	886.0	849.3	756.6	655.8	638.5
65°	7441.0	6465.4	3344.2	772.9	781.1	814.7	844.2	783.1	613.0	513.2	503.1
67.5°	7082.6	5932.8	2151.8	708.8	751.5	786.2	796.3	662.9	555.0	459.3	448.1
70°	6328.0	4762.8	828.9	668.0	722.0	737.3	695.5	607.9	510.2	427.7	417.5
72.5°	4950.1	3127.3	478.6	611.0	658.9	644.6	645.6	545.8	460.3	381.9	373.7
75°	3076.4	1132.4	425.7	543.8	558.1	584.5	550.9	473.5	396.1	349.3	339.1
77.5°	1017.3	321.8	394.1	468.4	500.0	480.7	461.3	404.3	339.1	302.4	297.4
80°	246.4	241.3	353.4	366.6	392.1	359.5	357.4	336.1	286.2	264.8	259.7
82.5°	151.7	173.1	281.1	228.1	261.7	264.8	301.4	277.0	208.8	216.9	209.8
85°	93.7	133.4	147.7	110.0	111.0	148.7	180.2	167.0	125.3	118.1	117.1
87.5°	31.6	27.5	31.6	23.4	31.6	54.0	81.5	77.4	51.9	35.6	33.6
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)