

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: P509518

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

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P509518
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2102-155-5)
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-HSS
Description: VERDEON-G ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 5000K, 1020mA LEDS AND TYPE III OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15475 lumens
Efficiency: N/A
Efficacy: 136.7 lumens/watt
Luminous Opening: Rectangular (W 0.9' x L: 1.25' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

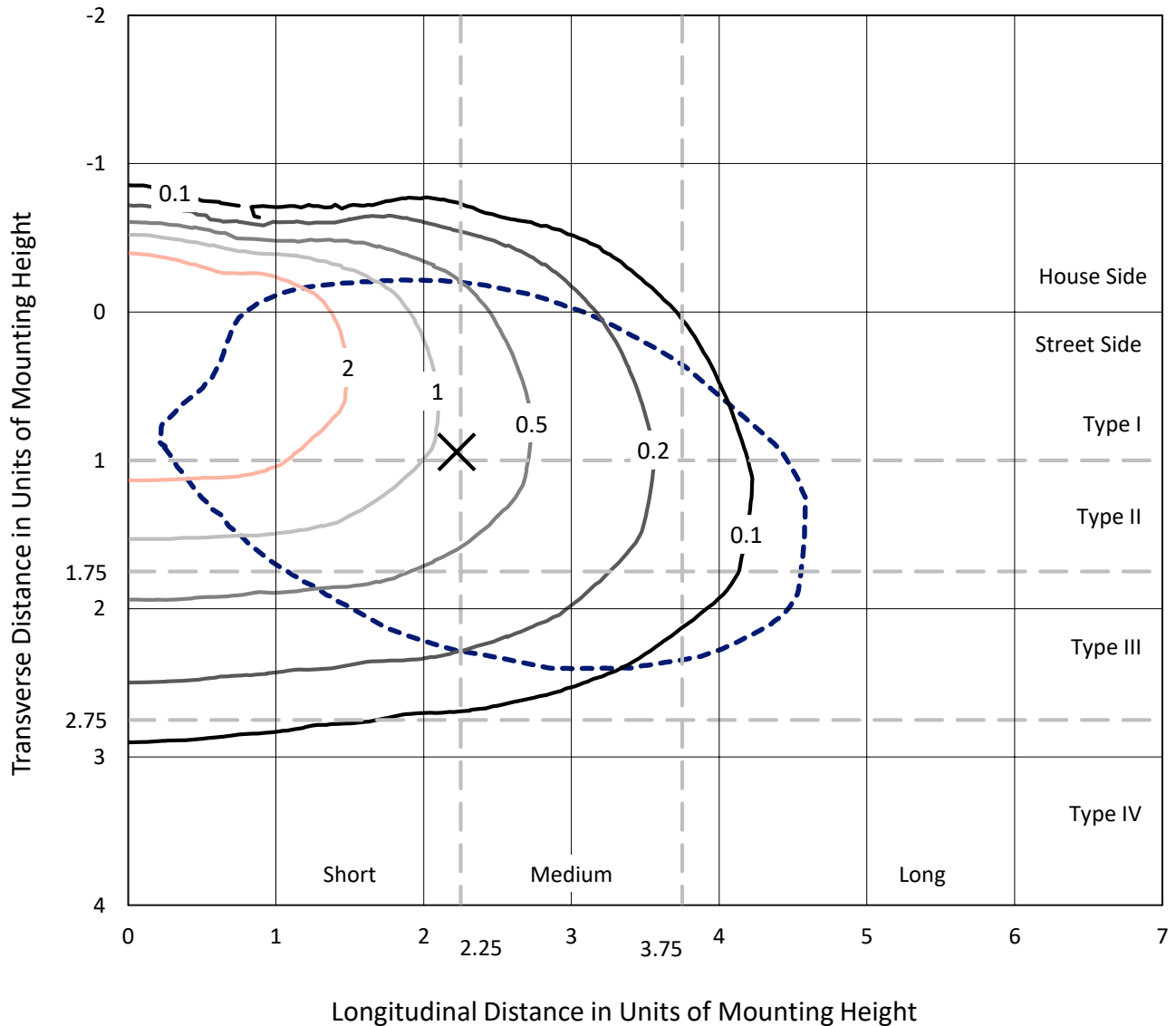
Input Watts (W): 113.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

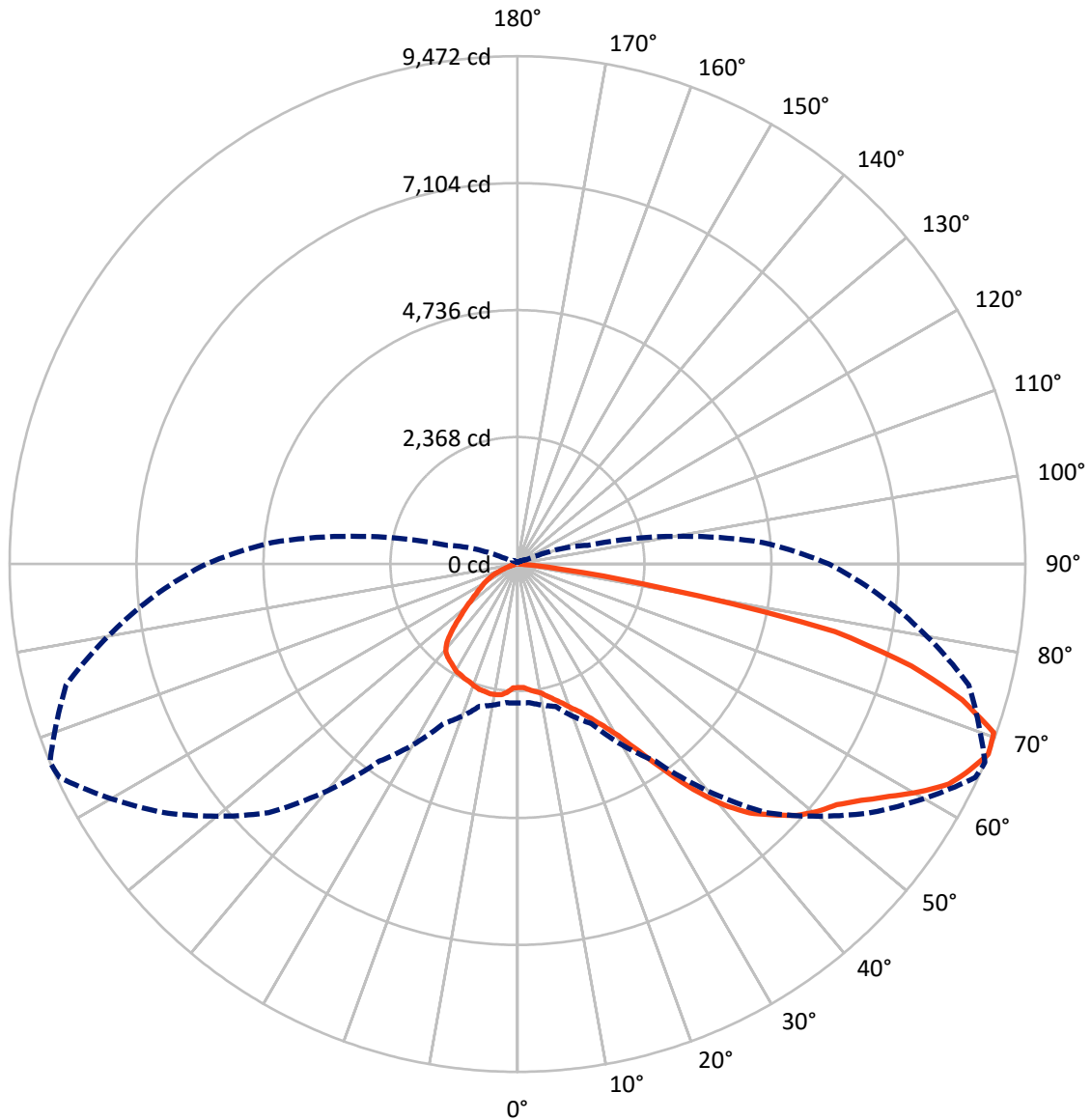
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.5 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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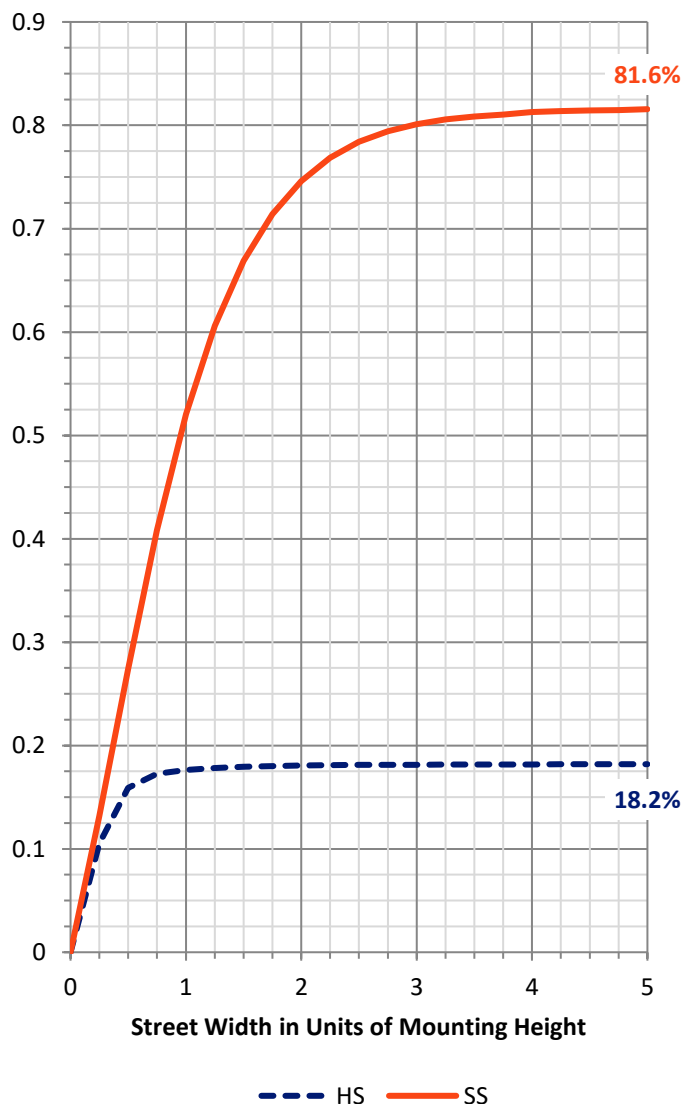
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2848.3	0.0	2848.3
	% Fixture	18.4	0.0	18.4
Street Side	Lumens	12626.7	0.0	12626.7
	% Fixture	81.6	0.0	81.6
Total	Lumens	15475.0	0.0	15475.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	231.7	1.5
10°-20°	724.4	4.7
20°-30°	1235.0	8.0
30°-40°	1883.6	12.2
40°-50°	2655.3	17.2
50°-60°	3209.5	20.7
60°-70°	3380.2	21.8
70°-80°	2010.8	13.0
80°-90°	144.5	0.9
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°	15475.0	100.0
0°-180°	15475.0	100.0

Coefficient of Utilization



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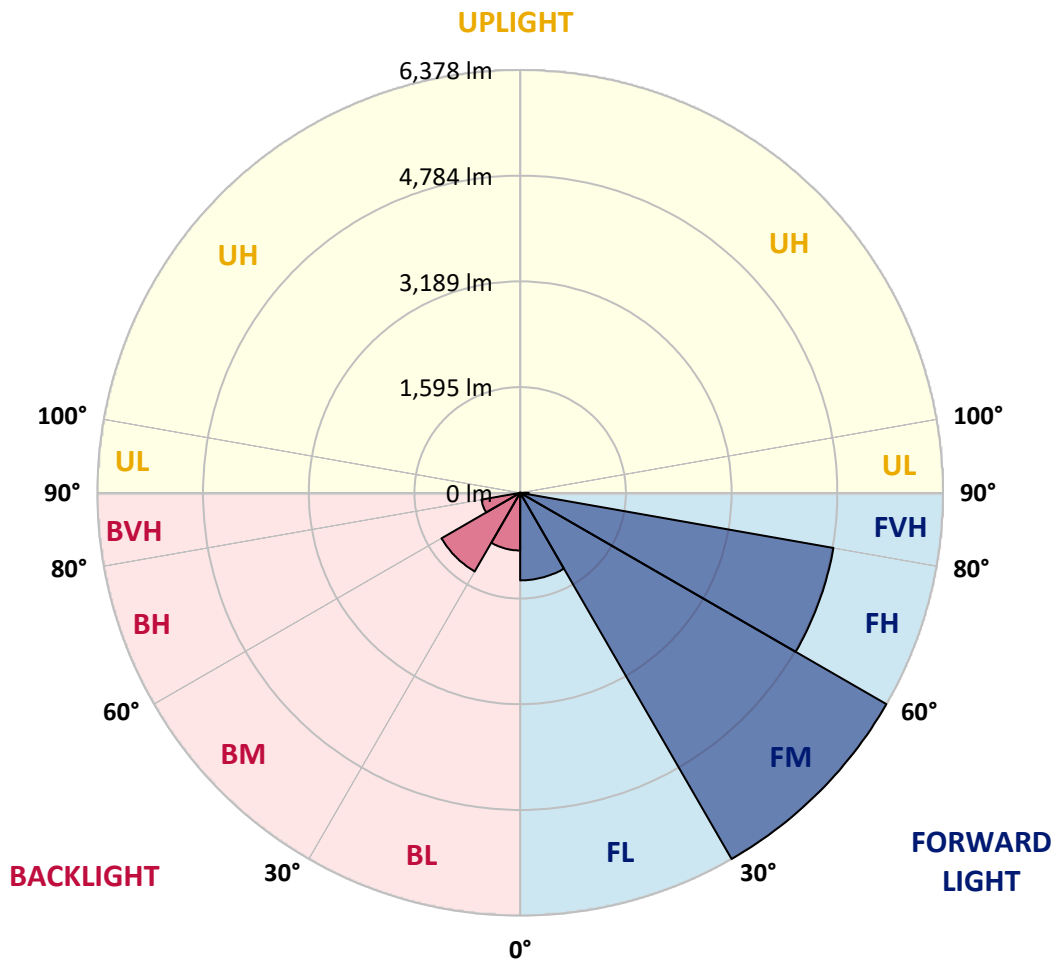
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1321.2	8.5			
FM (30°-60°)	6378.1	41.2			
FH (60°-80°)	4798.0	31.0			G2/5000
FVH (80°-90°)	129.4	0.8			G2/225
BL (0°-30°)	869.9	5.6	B2/1000		
BM (30°-60°)	1370.3	8.9	B2/2500		
BH (60°-80°)	593.0	3.8	B2/1000		G2/1000
BVH (80°-90°)	15.2	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	2303.7	2303.7	2303.7	2303.7	2303.7	2303.7	2303.7	2303.7	2303.7	2303.7	2303.7
2.5°	2352.4	2361.3	2343.6	2339.2	2315.9	2319.2	2314.8	2303.7	2308.2	2299.3	2304.8
5°	2443.2	2420.0	2413.3	2400.1	2379.0	2366.8	2349.1	2343.6	2355.8	2345.8	2348.0
7.5°	2539.5	2544.0	2514.1	2488.6	2451.0	2442.1	2411.1	2392.3	2404.5	2391.2	2398.9
10°	2660.2	2666.8	2634.7	2600.4	2568.3	2521.8	2483.1	2453.2	2449.9	2443.2	2454.3
12.5°	2818.5	2817.4	2782.0	2739.9	2676.8	2644.7	2570.5	2528.5	2534.0	2509.6	2507.4
15°	3002.3	2986.8	2945.8	2902.6	2824.0	2760.9	2671.3	2619.2	2628.1	2600.4	2593.8
17.5°	3181.6	3166.1	3134.0	3086.4	3014.5	2917.0	2807.4	2732.2	2729.9	2716.7	2676.8
20°	3365.4	3372.0	3328.9	3285.7	3213.7	3083.1	2959.1	2861.7	2863.9	2840.7	2763.2
22.5°	3580.1	3568.0	3515.9	3496.0	3414.1	3271.3	3132.9	3021.1	2999.0	2994.5	2860.6
25°	3785.0	3777.2	3729.6	3706.4	3637.7	3507.1	3327.7	3193.8	3190.5	3176.1	2986.8
27.5°	3947.7	3956.5	3952.1	3935.5	3860.2	3731.8	3574.6	3414.1	3416.3	3395.3	3150.6
30°	4179.1	4152.5	4142.5	4155.8	4149.2	4010.8	3843.6	3727.4	3719.6	3665.4	3357.6
32.5°	4314.1	4327.4	4340.7	4387.2	4388.3	4285.3	4176.8	4121.5	4152.5	4161.3	3872.4
35°	4438.1	4438.1	4514.5	4631.8	4672.8	4637.4	4590.9	4660.6	4721.5	4844.4	4505.6
37.5°	4548.8	4580.9	4652.9	4800.1	4934.1	4968.4	5070.2	5261.7	5335.9	5447.7	5039.2
40°	4641.8	4665.0	4756.9	4937.4	5167.6	5324.8	5515.2	5819.7	5897.2	5876.1	5335.9
42.5°	4538.8	4576.5	4723.7	5094.6	5384.6	5680.2	5929.3	6258.1	6352.2	6157.3	5648.1
45°	4483.5	4497.9	4651.8	5072.4	5544.0	6040.0	6322.3	6674.3	6674.3	6456.2	5868.4
47.5°	4372.8	4398.2	4580.9	5043.6	5713.4	6340.0	6625.6	6984.3	7007.5	6738.5	6087.6
50°	4261.0	4293.1	4500.1	4992.7	5808.6	6641.1	6883.5	7243.3	7252.2	6932.2	6281.3
52.5°	4150.3	4166.9	4398.2	4959.5	5913.8	6796.1	7106.1	7453.7	7458.1	7222.3	6495.0
55°	3952.1	3993.1	4232.2	4837.7	5908.2	6866.9	7222.3	7734.8	7778.0	7537.8	6705.3
57.5°	3766.1	3778.3	4039.6	4661.7	5818.6	6948.9	7472.5	8137.8	8179.9	7824.5	6861.4
60°	3518.2	3531.4	3812.6	4452.5	5685.7	7030.8	7790.2	8608.3	8627.1	8125.6	6978.7
62.5°	3259.1	3304.5	3535.9	4131.5	5410.1	7045.2	8059.2	9042.3	9034.5	8386.9	7056.2
65°	2954.7	2971.3	3193.8	3756.2	4988.3	6935.6	8169.9	9252.6	9271.4	8570.7	7005.3
67.5°	2589.4	2596.0	2748.8	3289.0	4489.0	6558.1	8078.0	9424.2	9471.8	8714.6	6792.8
70°	2045.8	2055.8	2196.4	2710.0	3780.5	5980.2	7923.0	9444.1	9424.2	8585.1	6469.5
72.5°	1425.9	1411.5	1548.7	1900.8	2862.8	4918.6	7174.7	8640.4	8675.8	7943.0	5793.1
75°	683.0	687.5	959.8	1169.0	1607.4	3513.7	5971.3	7440.4	7588.7	6922.3	4719.3
77.5°	116.2	118.5	253.5	460.5	647.6	1474.6	3959.9	5926.0	6052.2	5433.3	3194.9
80°	93.0	93.0	124.0	248.0	343.2	611.1	1500.0	2627.0	2764.3	2460.9	1177.9
82.5°	63.1	66.4	88.6	145.0	121.8	239.1	544.7	831.4	853.5	773.8	483.8
85°	35.4	36.5	45.4	58.7	50.9	88.6	111.8	114.0	120.7	94.1	72.0
87.5°	4.4	10.0	10.0	10.0	4.4	4.4	3.3	3.3	4.4	3.3	3.3
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°	2303.7	2303.7	2303.7	2303.7	2303.7	2303.7	2303.7	2303.7	2303.7	2303.7	2303.7
2.5°	2301.5	2288.2	2317.0	2311.5	2331.4	2328.1	2344.7	2353.6	2372.4	2396.7	2394.5
5°	2350.2	2349.1	2383.4	2400.1	2417.8	2434.4	2435.5	2452.1	2468.7	2505.2	2504.1
7.5°	2396.7	2406.7	2455.4	2456.5	2463.2	2475.3	2458.7	2464.3	2468.7	2482.0	2486.4
10°	2451.0	2469.8	2470.9	2466.5	2445.4	2444.3	2406.7	2411.1	2391.2	2406.7	2398.9
12.5°	2520.7	2505.2	2496.4	2466.5	2434.4	2391.2	2355.8	2307.1	2296.0	2296.0	2299.3
15°	2589.4	2566.1	2489.7	2442.1	2383.4	2314.8	2257.2	2201.9	2174.2	2162.0	2159.8
17.5°	2649.1	2600.4	2491.9	2429.9	2319.2	2218.5	2132.1	2043.6	2000.4	1972.7	1968.3
20°	2697.8	2645.8	2498.6	2390.1	2249.5	2101.2	1970.5	1858.7	1773.5	1710.4	1717.0
22.5°	2779.8	2696.7	2494.1	2342.5	2168.7	1976.1	1779.0	1625.1	1482.3	1446.9	1456.9
25°	2878.3	2769.8	2519.6	2313.7	2074.6	1818.9	1559.8	1381.6	1228.8	1180.1	1183.4
27.5°	2992.3	2858.4	2548.4	2266.1	1977.2	1625.1	1312.9	1092.6	970.9	874.6	866.8
30°	3173.9	2979.0	2579.4	2235.1	1841.0	1409.3	1043.9	814.8	662.0	610.0	610.0
32.5°	3600.1	3223.7	2629.2	2160.9	1661.7	1167.9	761.6	533.6	398.5	352.0	353.1
35°	4141.4	3717.4	2742.1	2070.2	1450.2	885.6	470.5	296.7	233.6	210.3	208.1
37.5°	4658.4	4171.3	2983.5	1963.9	1183.4	561.3	264.6	182.7	159.4	158.3	159.4
40°	4977.2	4530.0	3225.9	1822.2	864.6	308.9	171.6	149.4	146.1	142.8	142.8
42.5°	5271.7	4776.9	3409.7	1605.2	515.9	187.1	150.6	136.2	134.0	128.4	128.4
45°	5510.8	4954.0	3424.1	1316.3	273.4	166.1	138.4	124.0	119.6	116.2	115.1
47.5°	5737.8	5126.7	3372.0	1008.5	194.8	153.9	129.5	114.0	108.5	110.7	109.6
50°	5890.5	5299.4	3230.3	792.6	186.0	142.8	119.6	104.1	101.8	106.3	105.2
52.5°	6055.5	5441.1	2954.7	616.6	172.7	131.7	109.6	97.4	93.0	96.3	97.4
55°	6186.1	5438.9	2752.1	481.6	163.8	122.9	103.0	91.9	84.1	84.1	83.0
57.5°	6250.3	5386.8	2589.4	378.6	153.9	114.0	96.3	80.8	72.0	69.7	68.6
60°	6247.0	5335.9	2400.1	311.1	143.9	104.1	86.3	68.6	59.8	55.4	55.4
62.5°	6211.6	5216.3	2100.0	267.9	134.0	96.3	72.0	56.5	49.8	45.4	46.5
65°	6120.8	4986.1	1731.4	228.0	124.0	93.0	60.9	49.8	43.2	38.7	38.7
67.5°	5806.4	4599.7	1350.6	191.5	114.0	77.5	53.1	42.1	36.5	32.1	32.1
70°	5361.4	4010.8	888.9	161.6	101.8	67.5	47.6	36.5	31.0	26.6	25.5
72.5°	4569.8	3204.9	451.7	138.4	87.5	59.8	42.1	32.1	26.6	22.1	21.0
75°	3504.9	2158.7	281.2	110.7	68.6	53.1	37.6	28.8	22.1	16.6	15.5
77.5°	2090.1	869.0	199.3	77.5	46.5	42.1	31.0	23.2	17.7	12.2	12.2
80°	659.8	384.1	135.1	53.1	29.9	28.8	23.2	16.6	12.2	8.9	8.9
82.5°	373.1	243.5	90.8	35.4	21.0	18.8	13.3	10.0	7.7	6.6	6.6
85°	62.0	48.7	27.7	13.3	10.0	8.9	5.5	3.3	2.2	1.1	2.2
87.5°	3.3	3.3	4.4	4.4	4.4	3.3	2.2	0.0	0.0	0.0	0.0
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)