

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: P509566

Luminaire Tested: **VERD-G-CA2-120-750-U-T3-HSS**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P509566
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-CA2-120-750-U-T3-HSS
Description: VERDEON-G ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 5000K, 1120mA LEDS AND TYPE III OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16688 lumens
Efficiency: N/A
Efficacy: 133.8 lumens/watt
Luminous Opening: Rectangular (W 0.9' x L: 1.25' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

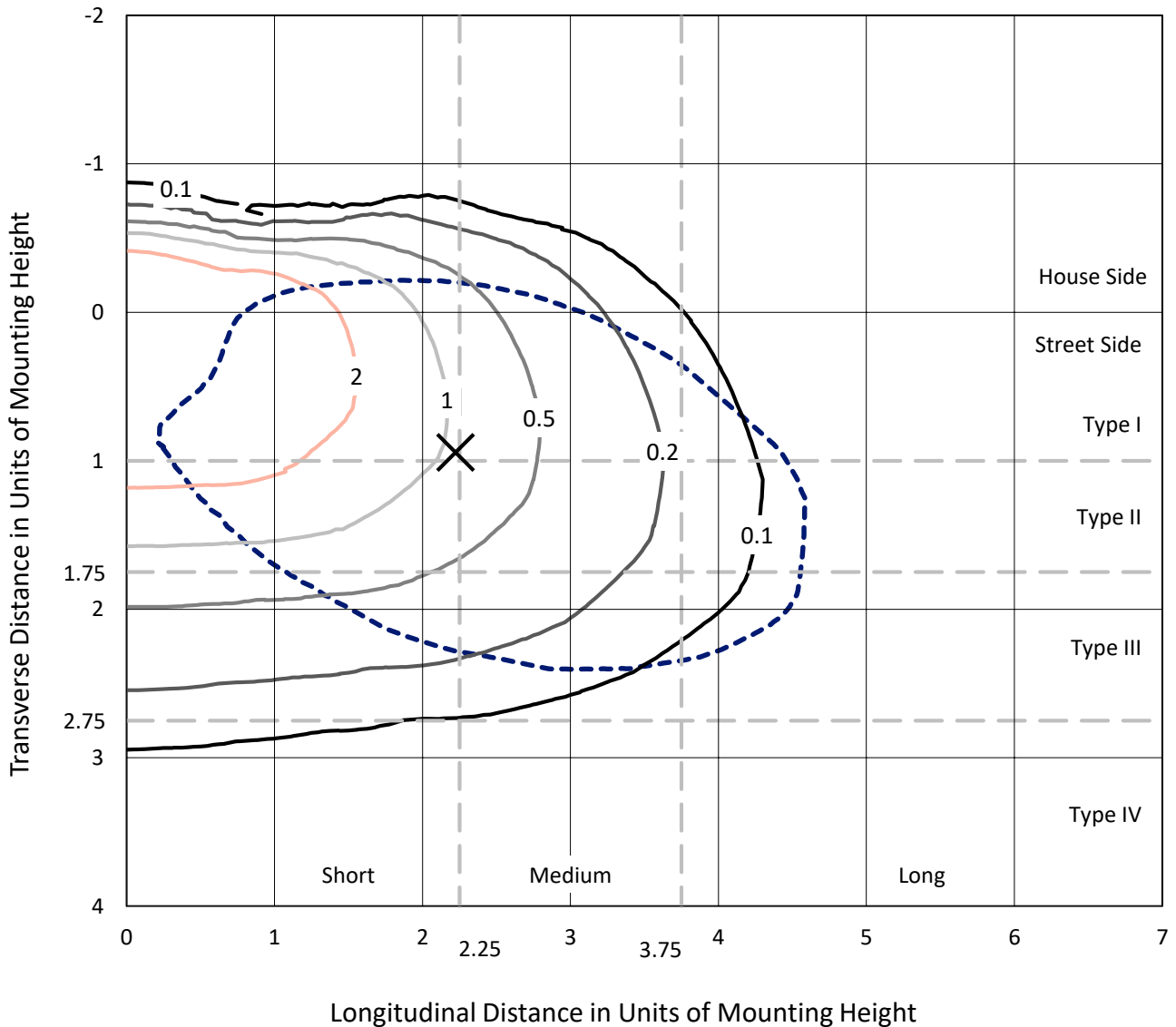
Input Watts (W): 124.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

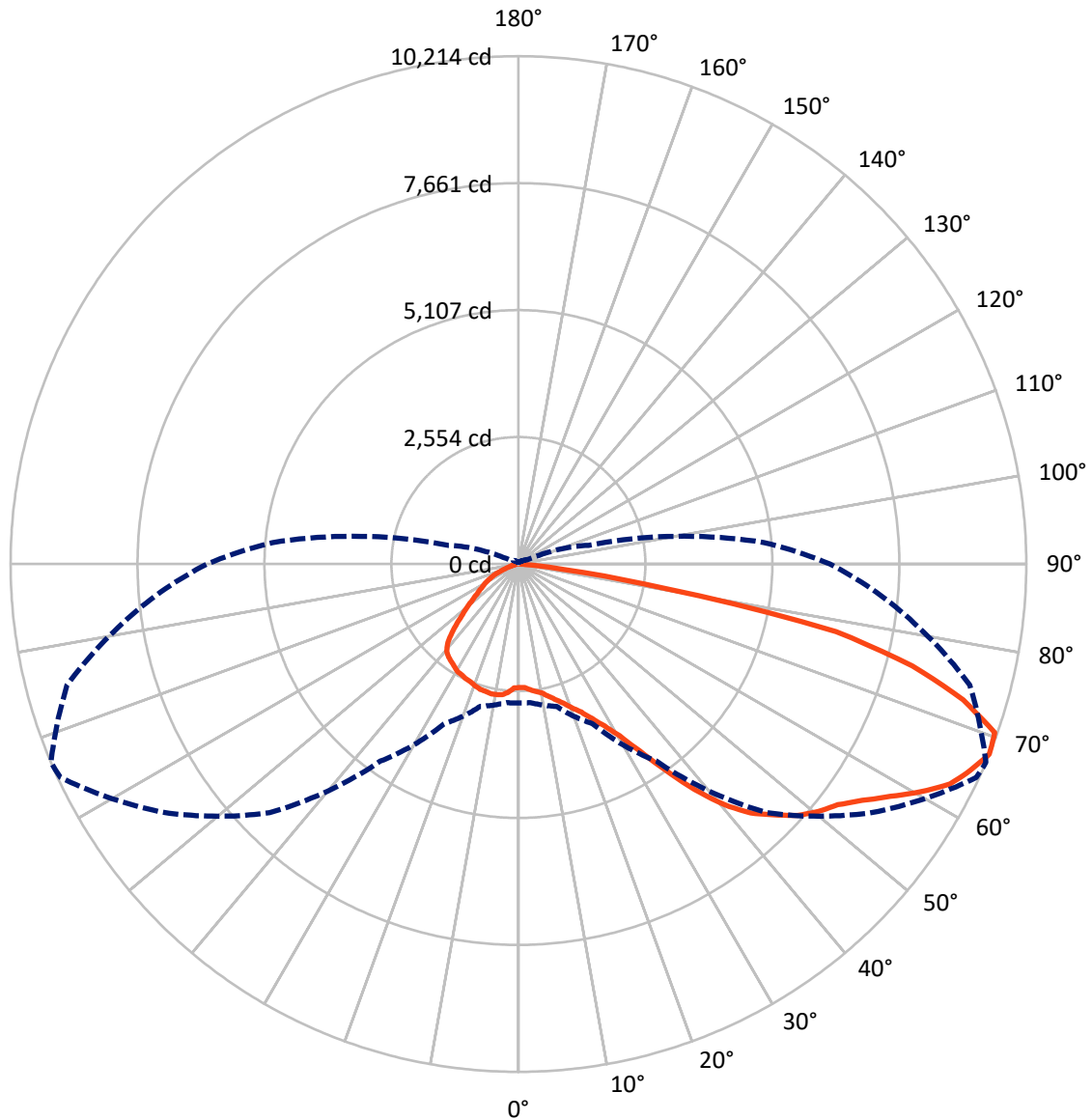
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.8 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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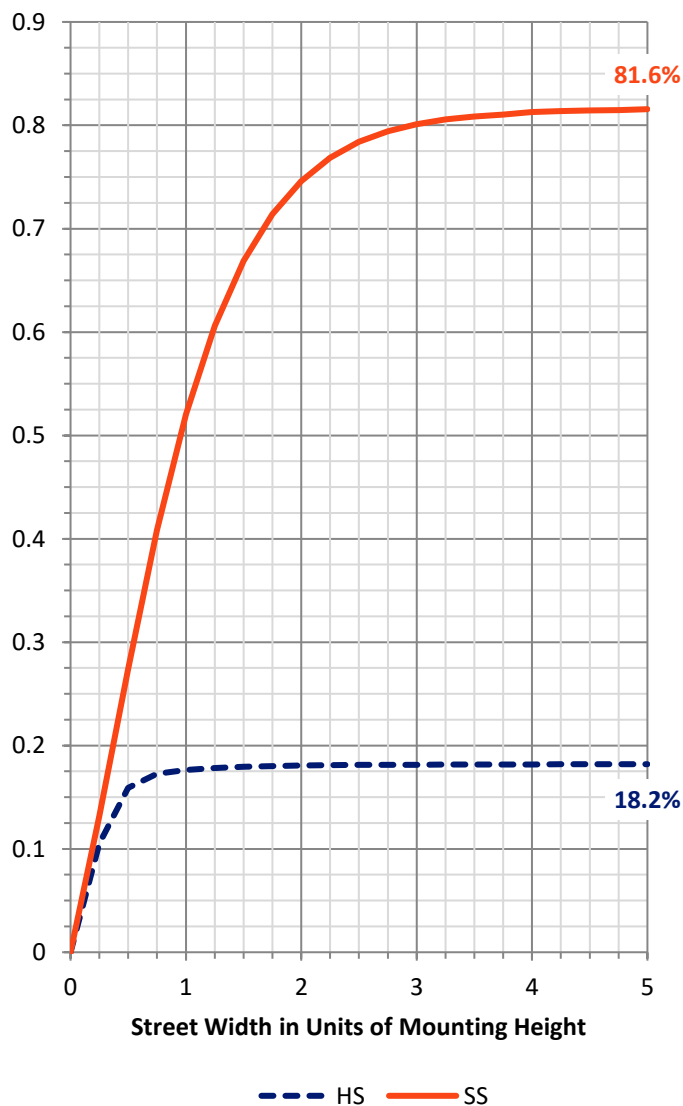
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3071.6	0.0	3071.6
	% Fixture	18.4	0.0	18.4
Street Side	Lumens	13616.4	0.0	13616.4
	% Fixture	81.6	0.0	81.6
Total	Lumens	16688.0	0.0	16688.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	249.9	1.5
10°-20°	781.1	4.7
20°-30°	1331.8	8.0
30°-40°	2031.2	12.2
40°-50°	2863.4	17.2
50°-60°	3461.1	20.7
60°-70°	3645.2	21.8
70°-80°	2168.4	13.0
80°-90°	155.9	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°	16688.0	100.0
0°-180°	16688.0	100.0

Coefficient of Utilization



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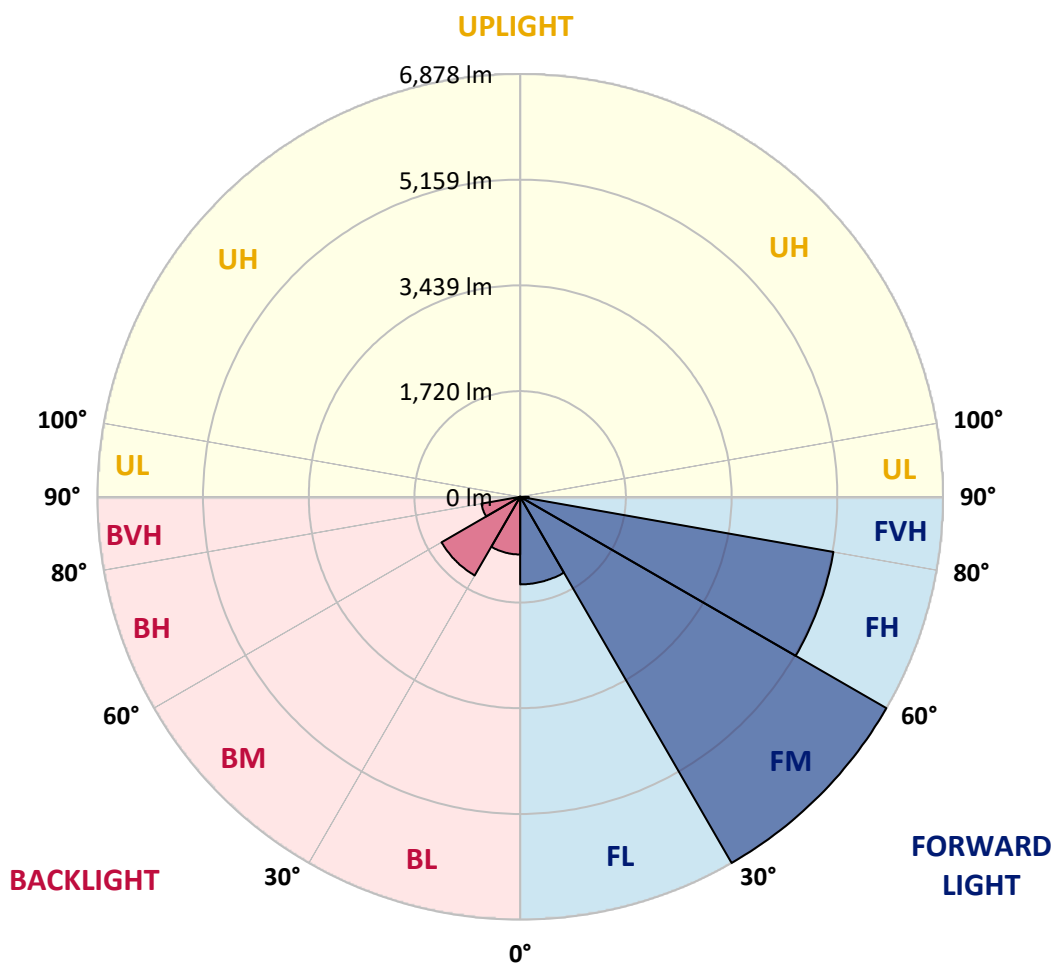
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1424.7	8.5			
FM	(30°-60°)	6878.0	41.2			
FH	(60°-80°)	5174.1	31.0			G3/7500
FVH	(80°-90°)	139.5	0.8			G2/225
BL	(0°-30°)	938.0	5.6	B2/1000		
BM	(30°-60°)	1477.7	8.9	B2/2500		
BH	(60°-80°)	639.5	3.8	B2/1000		G2/1000
BVH	(80°-90°)	16.4	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-G3

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	2484.3	2484.3	2484.3	2484.3	2484.3	2484.3	2484.3	2484.3	2484.3	2484.3	2484.3
2.5°	2536.8	2546.4	2527.3	2522.5	2497.4	2501.0	2496.3	2484.3	2489.1	2479.5	2485.5
5°	2634.7	2609.7	2602.5	2588.2	2565.5	2552.4	2533.3	2527.3	2540.4	2529.7	2532.1
7.5°	2738.6	2743.4	2711.1	2683.7	2643.1	2633.5	2600.1	2579.8	2593.0	2578.6	2587.0
10°	2868.7	2875.9	2841.3	2804.3	2769.6	2719.5	2677.7	2645.5	2641.9	2634.7	2646.7
12.5°	3039.4	3038.2	3000.0	2954.7	2886.6	2852.0	2772.0	2726.7	2732.6	2706.4	2704.0
15°	3237.6	3220.9	3176.7	3130.2	3045.4	2977.4	2880.7	2824.6	2834.1	2804.3	2797.1
17.5°	3431.0	3414.3	3379.7	3328.3	3250.7	3145.7	3027.5	2946.3	2943.9	2929.6	2886.6
20°	3629.2	3636.3	3589.8	3543.2	3465.6	3324.8	3191.1	3086.0	3088.4	3063.3	2979.7
22.5°	3860.8	3847.6	3791.5	3770.0	3681.7	3527.7	3378.5	3257.9	3234.0	3229.3	3084.8
25°	4081.6	4073.3	4021.9	3996.9	3922.9	3782.0	3588.6	3444.1	3440.6	3425.0	3220.9
27.5°	4257.1	4266.7	4261.9	4244.0	4162.8	4024.3	3854.8	3681.7	3684.1	3661.4	3397.6
30°	4506.6	4478.0	4467.2	4481.6	4474.4	4325.2	4144.9	4019.6	4011.2	3952.7	3620.8
32.5°	4652.3	4666.6	4680.9	4731.1	4732.3	4621.2	4504.2	4444.6	4478.0	4487.5	4175.9
35°	4786.0	4786.0	4868.4	4994.9	5039.1	5000.9	4950.7	5025.9	5091.6	5224.1	4858.8
37.5°	4905.4	4940.0	5017.6	5176.4	5320.8	5357.8	5467.6	5674.2	5754.2	5874.7	5434.2
40°	5005.6	5030.7	5129.8	5324.4	5572.7	5742.2	5947.6	6275.9	6359.4	6336.7	5754.2
42.5°	4894.6	4935.2	5094.0	5493.9	5806.7	6125.4	6394.0	6748.6	6850.1	6640.0	6090.8
45°	4834.9	4850.4	5016.4	5470.0	5978.6	6513.4	6817.8	7197.5	7197.5	6962.3	6328.4
47.5°	4715.5	4743.0	4940.0	5439.0	6161.2	6836.9	7144.9	7531.7	7556.8	7266.7	6564.8
50°	4595.0	4629.6	4852.8	5384.1	6263.9	7161.7	7423.1	7811.1	7820.6	7475.6	6773.7
52.5°	4475.6	4493.5	4743.0	5348.3	6377.3	7328.8	7663.1	8037.9	8042.7	7788.4	7004.1
55°	4261.9	4306.1	4563.9	5216.9	6371.4	7405.2	7788.4	8341.1	8387.7	8128.6	7230.9
57.5°	4061.3	4074.5	4356.2	5027.1	6274.7	7493.5	8058.2	8775.7	8821.1	8437.8	7399.2
60°	3793.9	3808.3	4111.5	4801.5	6131.4	7581.9	8400.8	9283.1	9303.4	8762.6	7525.8
62.5°	3514.6	3563.5	3813.0	4455.3	5834.1	7597.4	8690.9	9751.0	9742.7	9044.3	7609.3
65°	3186.3	3204.2	3444.1	4050.6	5379.3	7479.2	8810.3	9977.9	9998.1	9242.5	7554.4
67.5°	2792.3	2799.5	2964.2	3546.8	4840.9	7072.1	8711.2	10162.9	10214.2	9397.7	7325.2
70°	2206.2	2216.9	2368.5	2922.4	4076.9	6449.0	8544.1	10184.4	10162.9	9258.0	6976.6
72.5°	1537.6	1522.1	1670.1	2049.8	3087.2	5304.1	7737.1	9317.7	9355.9	8565.6	6247.2
75°	736.6	741.4	1035.0	1260.7	1733.4	3789.1	6439.4	8023.6	8183.6	7464.9	5089.2
77.5°	125.3	127.7	273.4	496.6	698.4	1590.2	4270.3	6390.5	6526.6	5859.2	3445.3
80°	100.3	100.3	133.7	267.4	370.1	659.0	1617.6	2832.9	2980.9	2653.8	1270.2
82.5°	68.0	71.6	95.5	156.4	131.3	257.9	587.4	896.6	920.4	834.5	521.7
85°	38.2	39.4	48.9	63.3	54.9	95.5	120.6	123.0	130.1	101.5	77.6
87.5°	4.8	10.7	10.7	10.7	4.8	4.8	3.6	3.6	4.8	3.6	3.6
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°	2484.3	2484.3	2484.3	2484.3	2484.3	2484.3	2484.3	2484.3	2484.3	2484.3	2484.3
2.5°	2481.9	2467.6	2498.6	2492.7	2514.2	2510.6	2528.5	2538.0	2558.3	2584.6	2582.2
5°	2534.5	2533.3	2570.3	2588.2	2607.3	2625.2	2626.4	2644.3	2662.2	2701.6	2700.4
7.5°	2584.6	2595.3	2647.9	2649.1	2656.2	2669.4	2651.4	2657.4	2662.2	2676.5	2681.3
10°	2643.1	2663.4	2664.6	2659.8	2637.1	2635.9	2595.3	2600.1	2578.6	2595.3	2587.0
12.5°	2718.3	2701.6	2692.0	2659.8	2625.2	2578.6	2540.4	2487.9	2476.0	2476.0	2479.5
15°	2792.3	2767.2	2684.9	2633.5	2570.3	2496.3	2434.2	2374.5	2344.6	2331.5	2329.1
17.5°	2856.8	2804.3	2687.3	2620.4	2501.0	2392.4	2299.3	2203.8	2157.2	2127.4	2122.6
20°	2909.3	2853.2	2694.4	2577.4	2425.8	2265.8	2125.0	2004.4	1912.5	1844.4	1851.6
22.5°	2997.7	2908.1	2689.7	2526.1	2338.7	2130.9	1918.5	1752.5	1598.5	1560.3	1571.1
25°	3103.9	2986.9	2717.1	2495.1	2237.2	1961.4	1682.1	1489.9	1325.1	1272.6	1276.2
27.5°	3226.9	3082.4	2748.1	2443.7	2132.1	1752.5	1415.9	1178.3	1047.0	943.1	934.8
30°	3422.6	3212.5	2781.6	2410.3	1985.3	1519.7	1125.8	878.6	713.9	657.8	657.8
32.5°	3882.3	3476.4	2835.3	2330.3	1791.9	1259.5	821.3	575.4	429.8	379.6	380.8
35°	4466.0	4008.8	2957.1	2232.4	1563.9	955.0	507.4	319.9	251.9	226.8	224.4
37.5°	5023.5	4498.3	3217.3	2117.8	1276.2	605.3	285.3	197.0	171.9	170.7	171.9
40°	5367.4	4885.1	3478.8	1965.0	932.4	333.1	185.0	161.2	157.6	154.0	154.0
42.5°	5684.9	5151.3	3676.9	1731.0	556.3	201.8	162.4	146.8	144.5	138.5	138.5
45°	5942.8	5342.3	3692.5	1419.4	294.9	179.1	149.2	133.7	128.9	125.3	124.2
47.5°	6187.5	5528.5	3636.3	1087.6	210.1	165.9	139.7	123.0	117.0	119.4	118.2
50°	6352.3	5714.8	3483.5	854.8	200.6	154.0	128.9	112.2	109.8	114.6	113.4
52.5°	6530.1	5867.6	3186.3	665.0	186.2	142.1	118.2	105.1	100.3	103.9	105.1
55°	6671.0	5865.2	2967.8	519.3	176.7	132.5	111.0	99.1	90.7	90.7	89.5
57.5°	6740.2	5809.1	2792.3	408.3	165.9	123.0	103.9	87.1	77.6	75.2	74.0
60°	6736.7	5754.2	2588.2	335.5	155.2	112.2	93.1	74.0	64.5	59.7	59.7
62.5°	6698.5	5625.2	2264.7	288.9	144.5	103.9	77.6	60.9	53.7	48.9	50.1
65°	6600.6	5376.9	1867.1	245.9	133.7	100.3	65.7	53.7	46.6	41.8	41.8
67.5°	6261.5	4960.3	1456.4	206.5	123.0	83.6	57.3	45.4	39.4	34.6	34.6
70°	5781.6	4325.2	958.6	174.3	109.8	72.8	51.3	39.4	33.4	28.7	27.5
72.5°	4928.0	3456.1	487.1	149.2	94.3	64.5	45.4	34.6	28.7	23.9	22.7
75°	3779.6	2327.9	303.2	119.4	74.0	57.3	40.6	31.0	23.9	17.9	16.7
77.5°	2253.9	937.1	214.9	83.6	50.1	45.4	33.4	25.1	19.1	13.1	13.1
80°	711.5	414.3	145.6	57.3	32.2	31.0	25.1	17.9	13.1	9.6	9.6
82.5°	402.3	262.6	97.9	38.2	22.7	20.3	14.3	10.7	8.4	7.2	7.2
85°	66.9	52.5	29.8	14.3	10.7	9.6	6.0	3.6	2.4	1.2	2.4
87.5°	3.6	3.6	4.8	4.8	4.8	3.6	2.4	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)