

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: P553546

Luminaire Tested: **VERD-G-CA2-150-722-U-T3-HSS**

Issue Date: 7/12/2021

Test Information

Test Method: LM-79-08
Report Number: P553546
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2102-155-5)
Test Lab: INNOVATION CENTER
Issue Date: 7/12/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VERD-G-CA2-150-722-U-T3-HSS
Description: VERDEON-G ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2200K, 1380mA LEDS AND TYPE III OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16306 lumens
Efficiency: N/A
Efficacy: 107.1 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

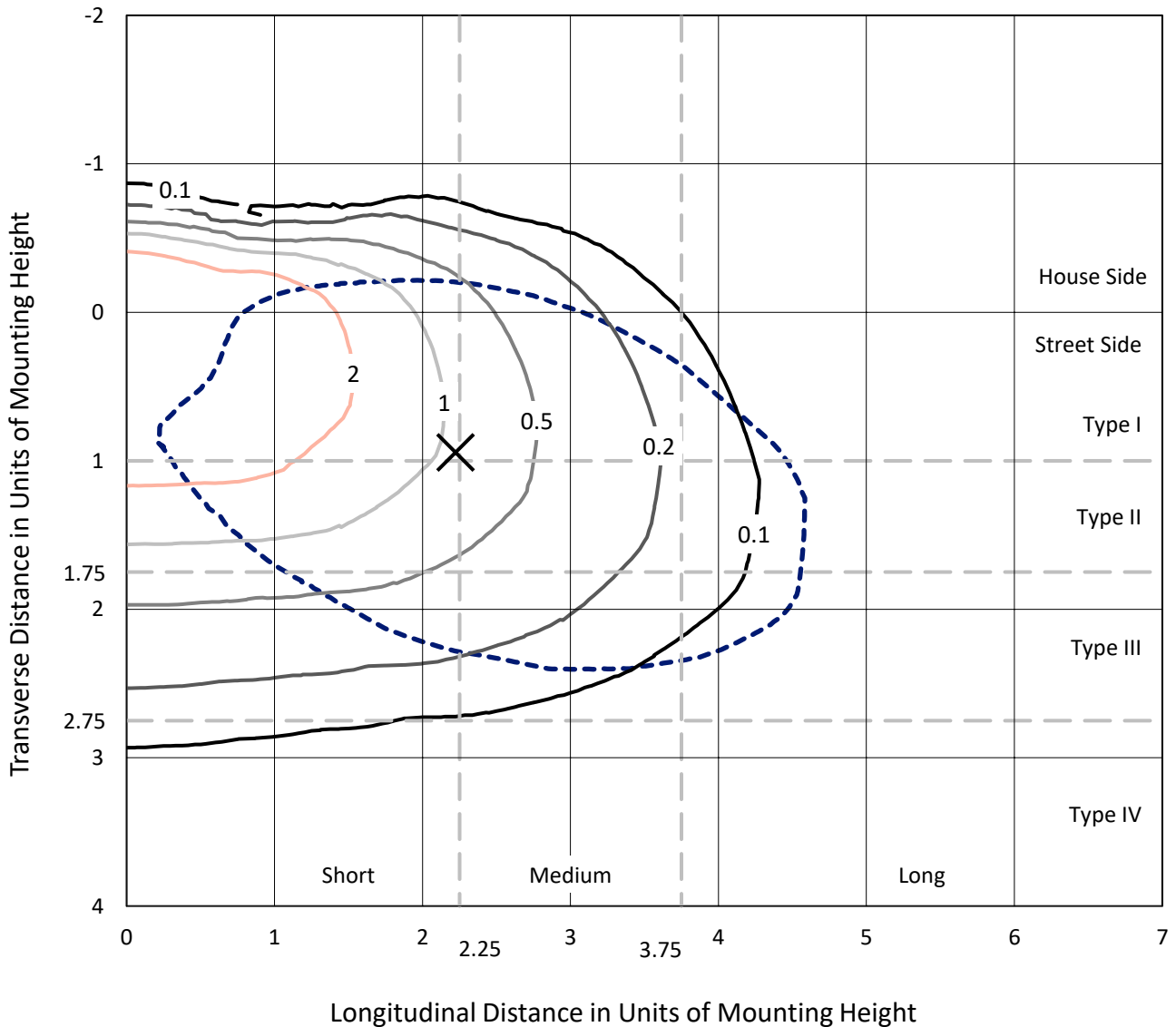
Input Watts (W): 152.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

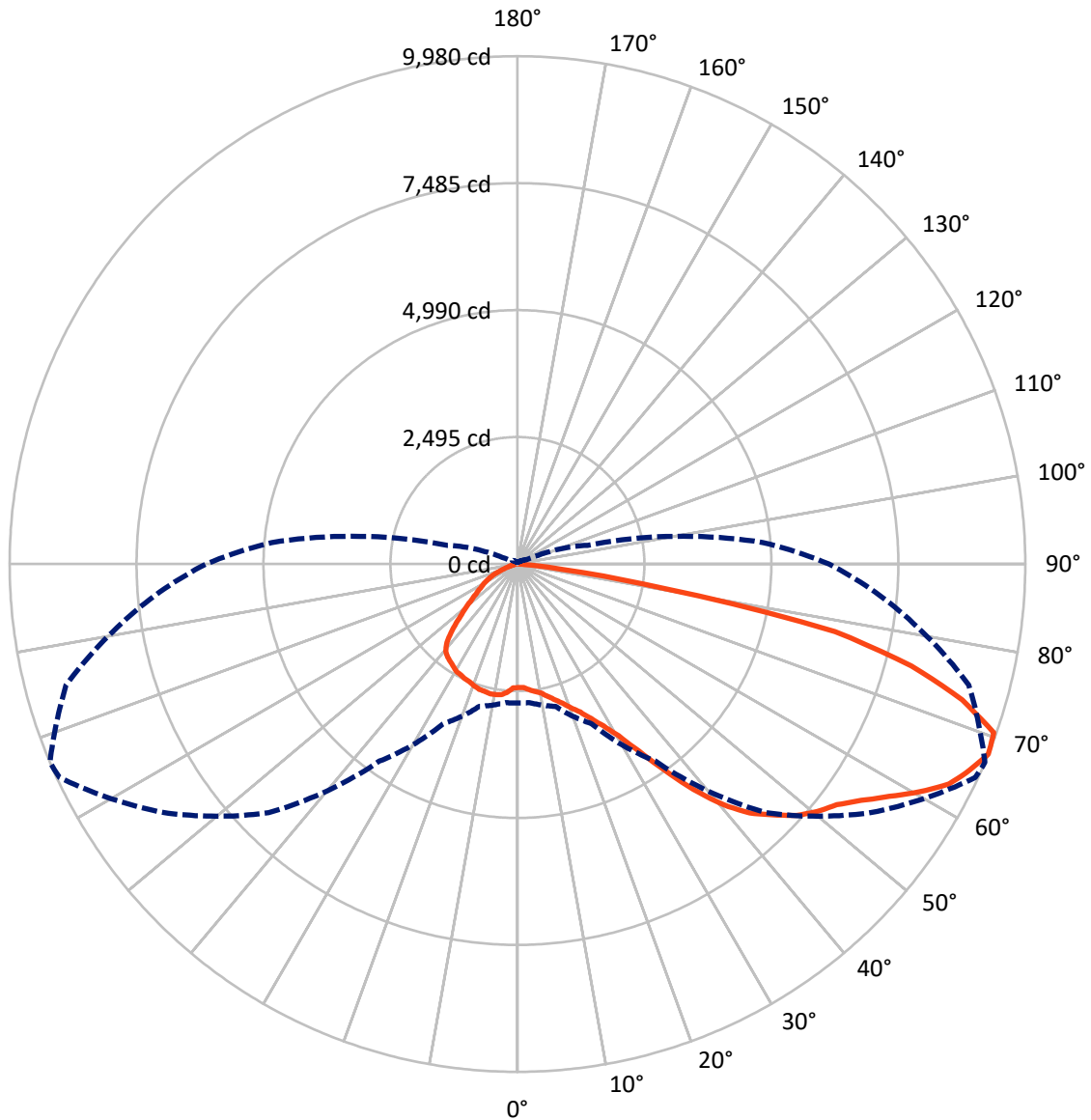
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.7 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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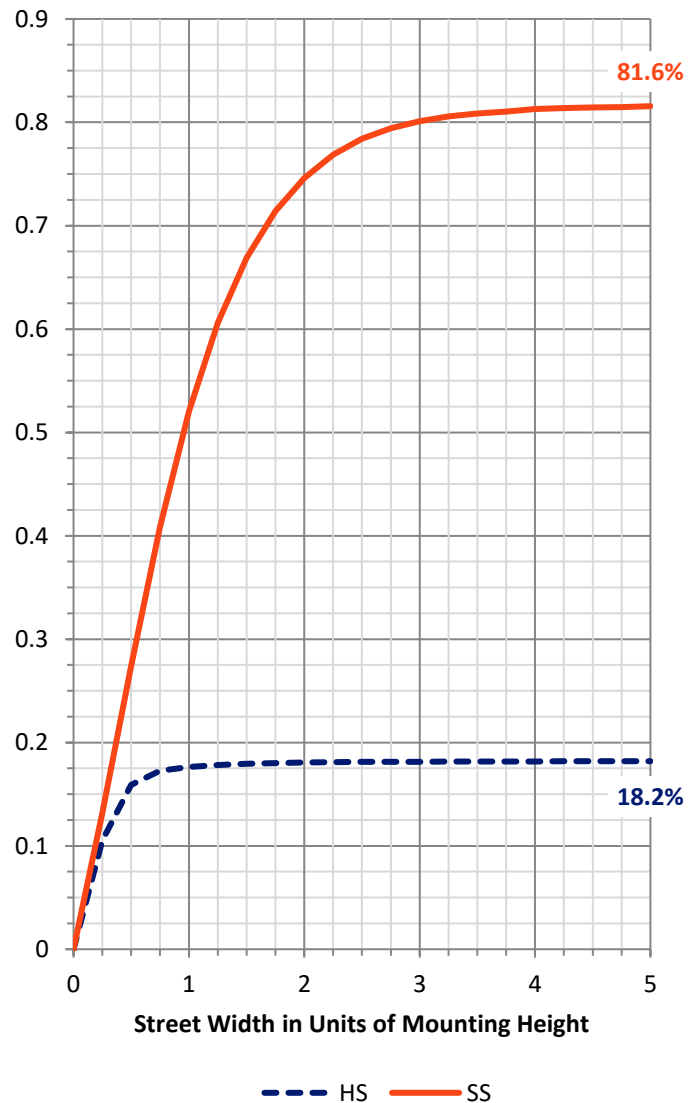
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3001.3	0.0	3001.3
	% Fixture	18.4	0.0	18.4
Street Side	Lumens	13304.7	0.0	13304.7
	% Fixture	81.6	0.0	81.6
Total	Lumens	16306.0	0.0	16306.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	244.1	1.5
10°-20°	763.3	4.7
20°-30°	1301.3	8.0
30°-40°	1984.7	12.2
40°-50°	2797.9	17.2
50°-60°	3381.9	20.7
60°-70°	3561.7	21.8
70°-80°	2118.8	13.0
80°-90°	152.3	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°	16306.0	100.0
0°-180°	16306.0	100.0



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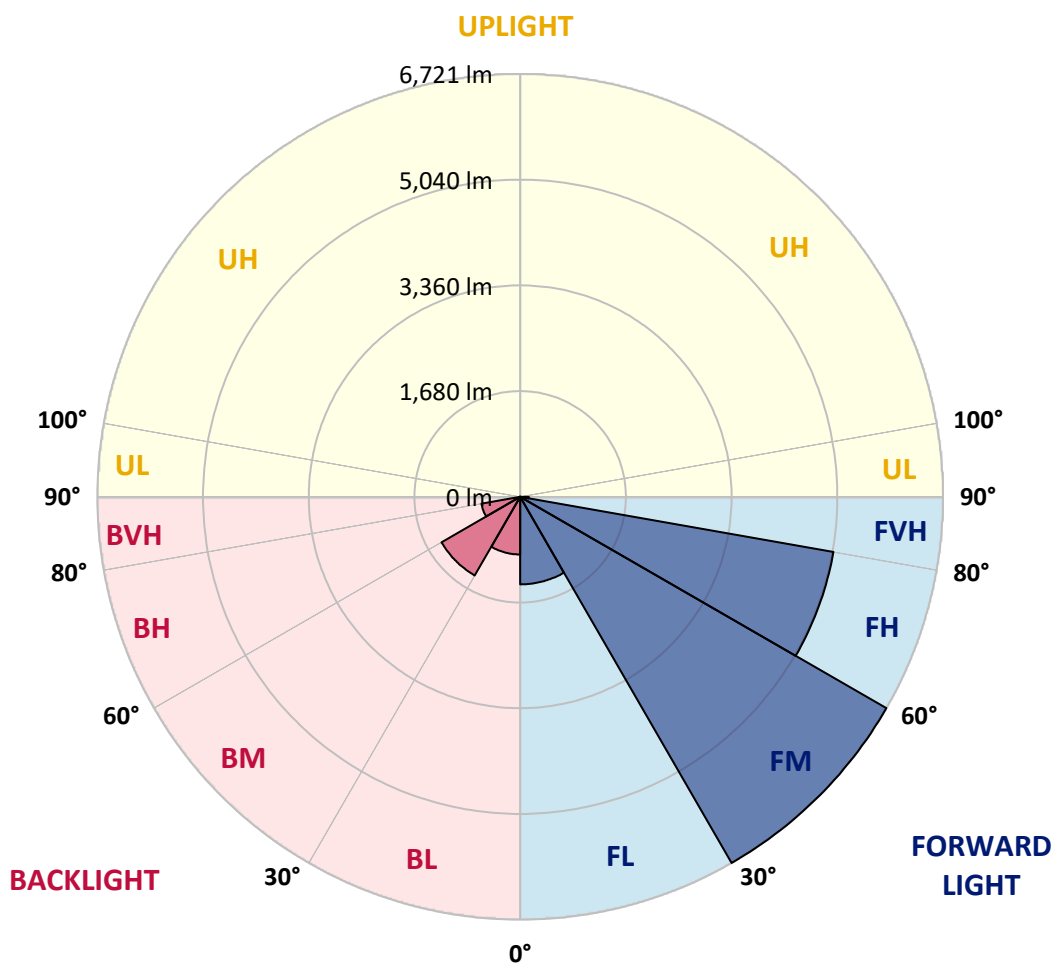
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1392.1	8.5			
FM (30°-60°)	6720.6	41.2			
FH (60°-80°)	5055.7	31.0			G3/7500
FVH (80°-90°)	136.3	0.8			G2/225
BL (0°-30°)	916.6	5.6	B2/1000		
BM (30°-60°)	1443.9	8.9	B2/2500		
BH (60°-80°)	624.8	3.8	B2/1000		G2/1000
BVH (80°-90°)	16.0	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°	2427.4	2427.4	2427.4	2427.4	2427.4	2427.4	2427.4	2427.4	2427.4	2427.4	2427.4
2.5°	2478.8	2488.1	2469.4	2464.8	2440.3	2443.8	2439.1	2427.4	2432.1	2422.8	2428.6
5°	2574.4	2549.9	2542.9	2528.9	2506.8	2493.9	2475.3	2469.4	2482.3	2471.8	2474.1
7.5°	2675.9	2680.6	2649.1	2622.3	2582.6	2573.3	2540.6	2520.8	2533.6	2519.6	2527.8
10°	2803.1	2810.1	2776.2	2740.1	2706.2	2657.2	2616.4	2584.9	2581.4	2574.4	2586.1
12.5°	2969.9	2968.7	2931.4	2887.0	2820.6	2786.7	2708.6	2664.2	2670.1	2644.4	2642.1
15°	3163.5	3147.2	3104.0	3058.5	2975.7	2909.2	2814.7	2759.9	2769.2	2740.1	2733.1
17.5°	3352.5	3336.1	3302.3	3252.2	3176.3	3073.7	2958.2	2878.9	2876.5	2862.5	2820.6
20°	3546.1	3553.1	3507.6	3462.1	3386.3	3248.7	3118.0	3015.4	3017.7	2993.2	2911.5
22.5°	3772.4	3759.6	3704.7	3683.7	3597.4	3447.0	3301.1	3183.3	3160.0	3155.3	3014.2
25°	3988.2	3980.0	3929.9	3905.4	3833.1	3695.4	3506.4	3365.3	3361.8	3346.6	3147.2
27.5°	4159.7	4169.0	4164.3	4146.8	4067.5	3932.2	3766.6	3597.4	3599.8	3577.6	3319.8
30°	4403.5	4375.5	4365.0	4379.0	4372.0	4226.2	4050.0	3927.5	3919.4	3862.2	3537.9
32.5°	4545.8	4559.8	4573.8	4622.8	4623.9	4515.5	4401.1	4342.8	4375.5	4384.8	4080.4
35°	4676.4	4676.4	4756.9	4880.6	4923.7	4886.4	4837.4	4910.9	4975.0	5104.5	4747.6
37.5°	4793.1	4826.9	4902.7	5057.9	5199.0	5235.2	5342.5	5544.3	5622.4	5740.3	5309.8
40°	4891.1	4915.6	5012.4	5202.5	5445.1	5610.8	5811.4	6132.2	6213.8	6191.7	5622.4
42.5°	4782.6	4822.2	4977.4	5368.1	5673.8	5985.2	6247.7	6594.1	6693.3	6488.0	5951.4
45°	4724.3	4739.4	4901.6	5344.8	5841.7	6364.3	6661.8	7032.7	7032.7	6802.9	6183.5
47.5°	4607.6	4634.4	4826.9	5314.5	6020.2	6680.4	6981.4	7359.3	7383.8	7100.4	6414.5
50°	4489.8	4523.6	4741.7	5260.8	6120.5	6997.7	7253.2	7632.3	7641.6	7304.5	6618.6
52.5°	4373.1	4390.6	4634.4	5225.8	6231.3	7161.0	7487.6	7853.9	7858.6	7610.1	6843.7
55°	4164.3	4207.5	4459.5	5097.5	6225.5	7235.7	7610.1	8150.2	8195.7	7942.6	7065.4
57.5°	3968.4	3981.2	4256.5	4912.1	6131.0	7322.0	7873.8	8574.8	8619.1	8244.7	7229.9
60°	3707.1	3721.1	4017.4	4691.6	5991.0	7408.3	8208.5	9070.6	9090.4	8562.0	7353.5
62.5°	3434.1	3481.9	3725.7	4353.3	5700.6	7423.5	8492.0	9527.8	9519.7	8837.3	7435.2
65°	3113.3	3130.8	3365.3	3957.9	5256.2	7308.0	8608.6	9749.5	9769.3	9030.9	7381.5
67.5°	2728.4	2735.4	2896.4	3465.6	4730.1	6910.2	8511.8	9930.3	9980.4	9182.5	7157.5
70°	2155.7	2166.2	2314.3	2855.5	3983.5	6301.3	8348.5	9951.3	9930.3	9046.1	6816.9
72.5°	1502.4	1487.3	1631.9	2002.8	3016.5	5182.7	7560.0	9104.4	9141.7	8369.5	6104.2
75°	719.7	724.4	1011.3	1231.8	1693.7	3702.4	6292.0	7839.9	7996.2	7294.0	4972.7
77.5°	122.5	124.8	267.1	485.3	682.4	1553.8	4172.5	6244.2	6377.2	5725.1	3366.5
80°	98.0	98.0	130.6	261.3	361.6	643.9	1580.6	2768.1	2912.7	2593.1	1241.1
82.5°	66.5	70.0	93.3	152.8	128.3	252.0	573.9	876.0	899.4	815.4	509.8
85°	37.3	38.5	47.8	61.8	53.7	93.3	117.8	120.1	127.1	99.2	75.8
87.5°	4.7	10.5	10.5	10.5	4.7	4.7	3.5	3.5	4.7	3.5	3.5
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°	2427.4	2427.4	2427.4	2427.4	2427.4	2427.4	2427.4	2427.4	2427.4	2427.4	2427.4
2.5°	2425.1	2411.1	2441.4	2435.6	2456.6	2453.1	2470.6	2479.9	2499.8	2525.4	2523.1
5°	2476.4	2475.3	2511.4	2528.9	2547.6	2565.1	2566.3	2583.8	2601.3	2639.7	2638.6
7.5°	2525.4	2535.9	2587.3	2588.4	2595.4	2608.3	2590.8	2596.6	2601.3	2615.3	2619.9
10°	2582.6	2602.4	2603.6	2598.9	2576.8	2575.6	2535.9	2540.6	2519.6	2535.9	2527.8
12.5°	2656.1	2639.7	2630.4	2598.9	2565.1	2519.6	2482.3	2430.9	2419.3	2419.3	2422.8
15°	2728.4	2703.9	2623.4	2573.3	2511.4	2439.1	2378.5	2320.1	2291.0	2278.1	2275.8
17.5°	2791.4	2740.1	2625.8	2560.4	2443.8	2337.6	2246.6	2153.3	2107.8	2078.7	2074.0
20°	2842.7	2787.9	2632.7	2518.4	2370.3	2214.0	2076.3	1958.5	1868.7	1802.2	1809.2
22.5°	2929.0	2841.5	2628.1	2468.3	2285.1	2082.2	1874.5	1712.4	1561.9	1524.6	1535.1
25°	3032.9	2918.5	2654.9	2437.9	2186.0	1916.5	1643.6	1455.8	1294.8	1243.5	1247.0
27.5°	3153.0	3011.9	2685.2	2387.8	2083.3	1712.4	1383.4	1151.3	1023.0	921.5	913.4
30°	3344.3	3139.0	2717.9	2355.1	1939.9	1484.9	1100.0	858.5	697.6	642.7	642.7
32.5°	3793.4	3396.8	2770.4	2277.0	1750.9	1230.6	802.5	562.2	419.9	370.9	372.1
35°	4363.8	3917.0	2889.4	2181.3	1528.1	933.2	495.8	312.6	246.1	221.6	219.3
37.5°	4908.6	4395.3	3143.7	2069.3	1247.0	591.4	278.8	192.5	168.0	166.8	168.0
40°	5244.5	4773.2	3399.1	1920.0	911.0	325.4	180.8	157.5	154.0	150.5	150.5
42.5°	5554.8	5033.4	3592.8	1691.4	543.6	197.1	158.6	143.5	141.1	135.3	135.3
45°	5806.7	5220.0	3607.9	1386.9	288.1	175.0	145.8	130.6	126.0	122.5	121.3
47.5°	6045.9	5402.0	3553.1	1062.7	205.3	162.1	136.5	120.1	114.3	116.6	115.5
50°	6206.8	5583.9	3403.8	835.2	196.0	150.5	126.0	109.6	107.3	112.0	110.8
52.5°	6380.7	5733.3	3113.3	649.7	182.0	138.8	115.5	102.7	98.0	101.5	102.7
55°	6518.3	5730.9	2899.9	507.4	172.6	129.5	108.5	96.8	88.7	88.7	87.5
57.5°	6586.0	5676.1	2728.4	398.9	162.1	120.1	101.5	85.2	75.8	73.5	72.3
60°	6582.5	5622.4	2528.9	327.8	151.6	109.6	91.0	72.3	63.0	58.3	58.3
62.5°	6545.1	5496.5	2212.8	282.3	141.1	101.5	75.8	59.5	52.5	47.8	49.0
65°	6449.5	5253.8	1824.4	240.3	130.6	98.0	64.2	52.5	45.5	40.8	40.8
67.5°	6118.2	4846.7	1423.1	201.8	120.1	81.7	56.0	44.3	38.5	33.8	33.8
70°	5649.3	4226.2	936.7	170.3	107.3	71.2	50.2	38.5	32.7	28.0	26.8
72.5°	4815.2	3377.0	475.9	145.8	92.2	63.0	44.3	33.8	28.0	23.3	22.2
75°	3693.1	2274.6	296.3	116.6	72.3	56.0	39.7	30.3	23.3	17.5	16.3
77.5°	2202.3	915.7	210.0	81.7	49.0	44.3	32.7	24.5	18.7	12.8	12.8
80°	695.2	404.8	142.3	56.0	31.5	30.3	24.5	17.5	12.8	9.3	9.3
82.5°	393.1	256.6	95.7	37.3	22.2	19.8	14.0	10.5	8.2	7.0	7.0
85°	65.3	51.3	29.2	14.0	10.5	9.3	5.8	3.5	2.3	1.2	2.3
87.5°	3.5	3.5	4.7	4.7	4.7	3.5	2.3	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)