

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: P553595

Luminaire Tested: **VERD-G-CA2-160-722-U-T3**

Issue Date: 7/12/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P553595  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2102-155-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 7/12/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: VERD-G-CA2-160-722-U-T3  
Description: VERDEON-G ROADWAY AND AREA LUMINAIRE  
(2) 70 CRI, 2200K, 1460mA LEDS AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 18514 lumens  
Efficiency: N/A  
Efficacy: 113.9 lumens/watt  
Luminous Opening: Rectangular (W 0.9' x L: 1.25' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G3

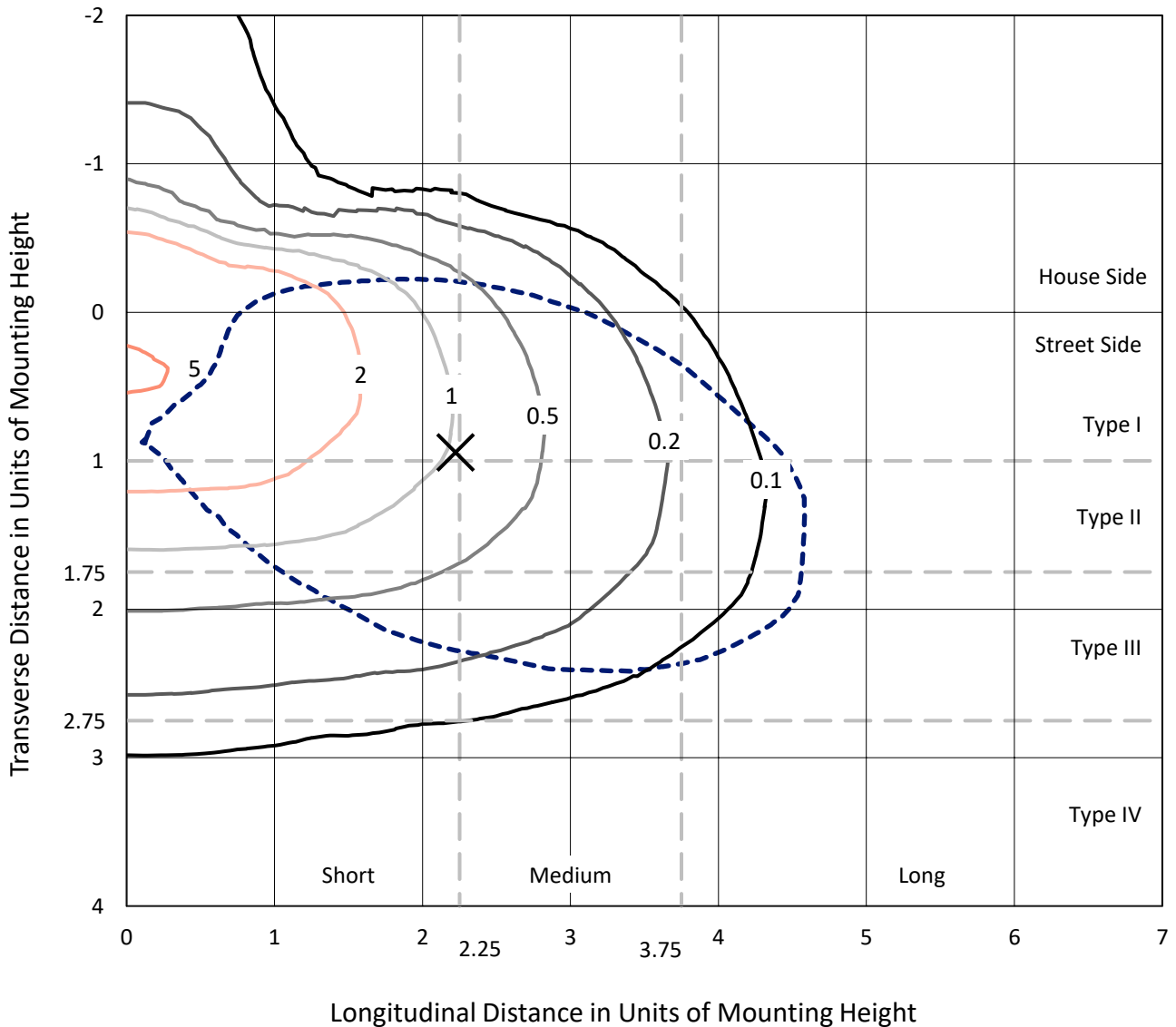
Input Watts (W): 162.6  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

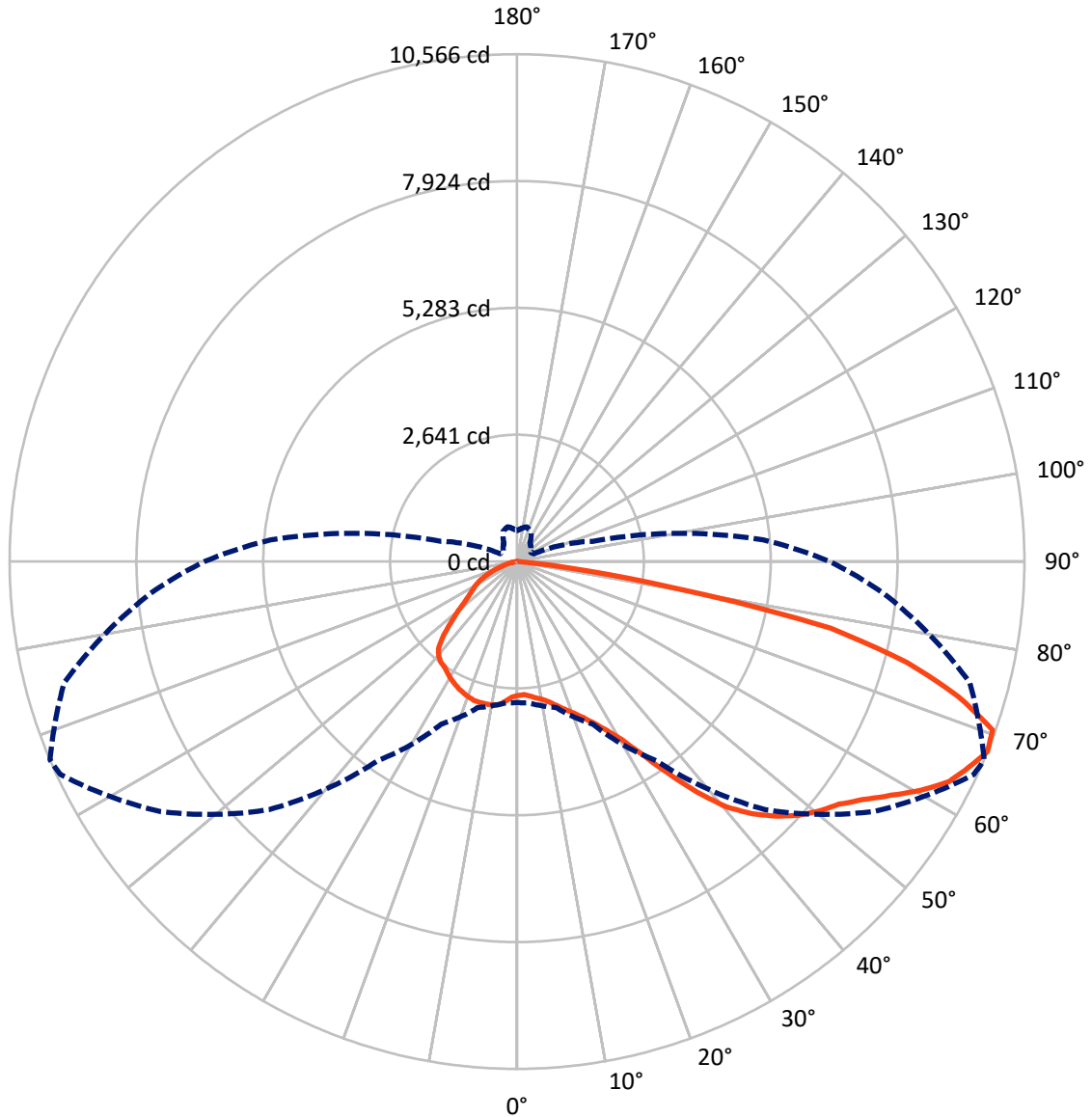
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.2 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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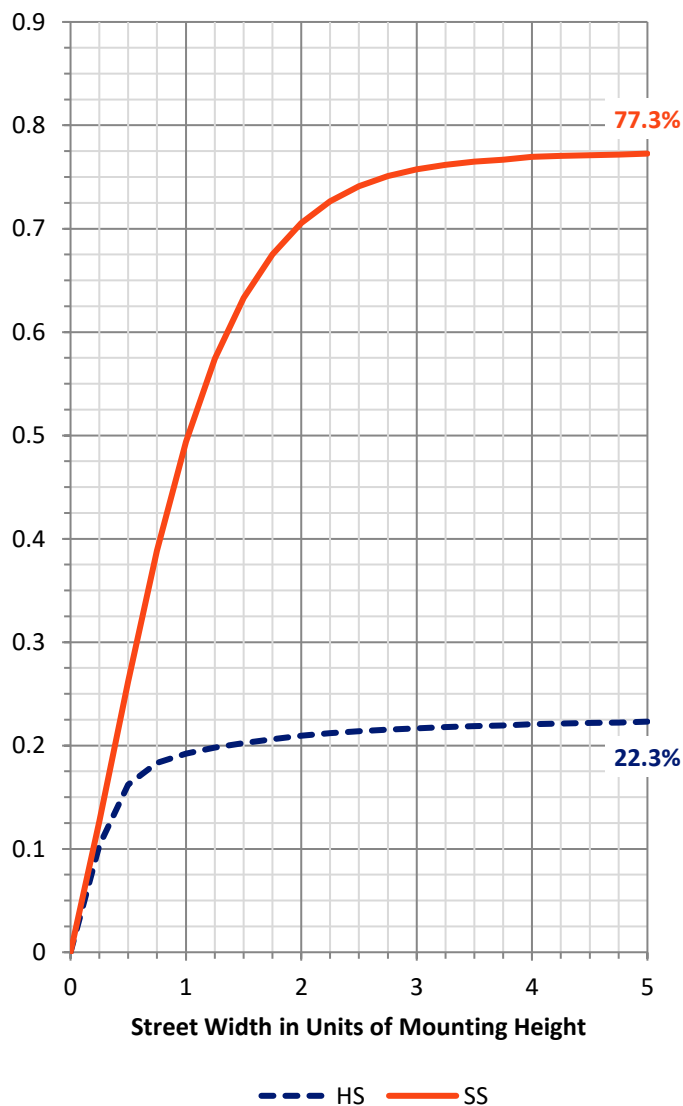
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4200.9	0.0	4200.9
	% Fixture	22.7	0.0	22.7
<b>Street Side</b>	Lumens	14313.1	0.0	14313.1
	% Fixture	77.3	0.0	77.3
<b>Total</b>	Lumens	18514.0	0.0	18514.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	282.7	1.5
10°-20°	894.9	4.8
20°-30°	1534.8	8.3
30°-40°	2284.1	12.3
40°-50°	3122.9	16.9
50°-60°	3751.2	20.3
60°-70°	3979.5	21.5
70°-80°	2431.0	13.1
80°-90°	232.8	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°	18514.0	100.0
0°-180°	18514.0	100.0

**Coefficient of Utilization**



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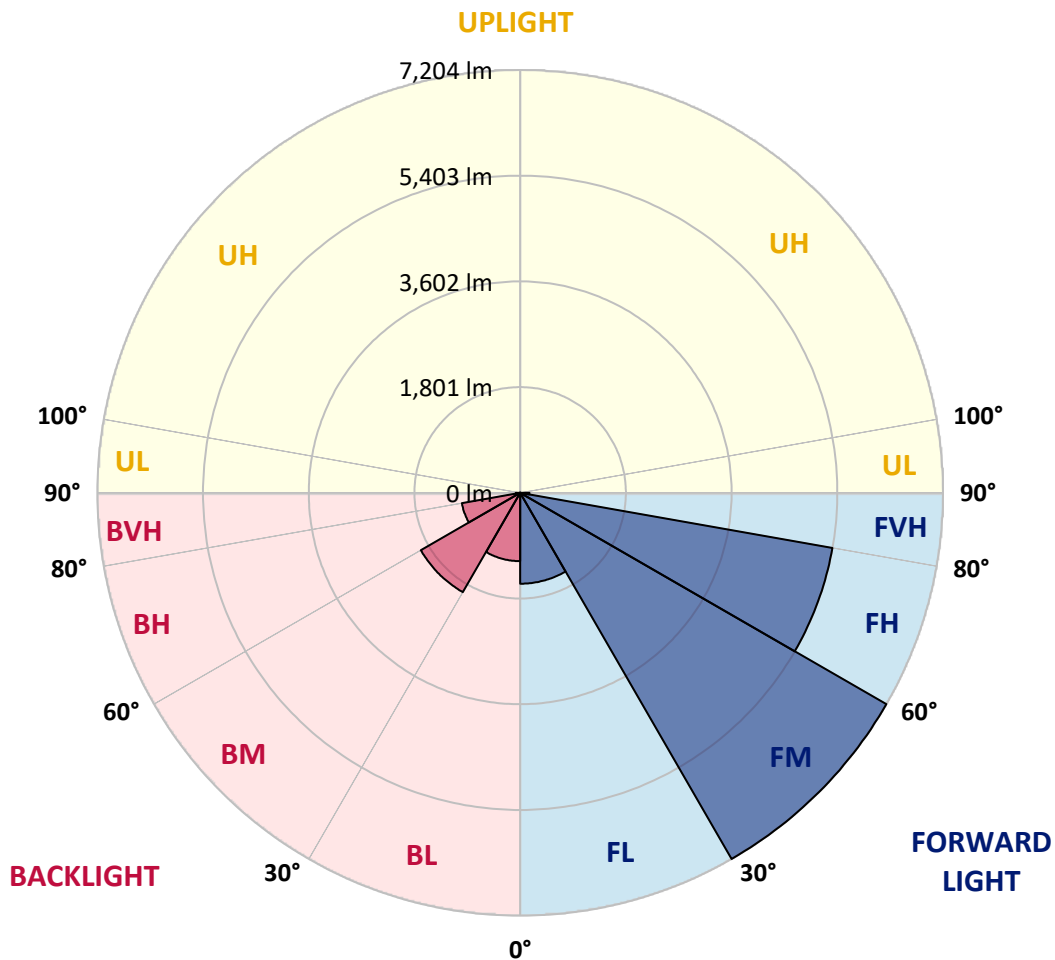
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1548.5	8.4			
FM (30°-60°)	7204.2	38.9			
FH (60°-80°)	5401.9	29.2			G3/7500
FVH (80°-90°)	158.5	0.9			G2/225
BL (0°-30°)	1163.9	6.3	B3/2500		
BM (30°-60°)	1954.1	10.6	B2/2500		
BH (60°-80°)	1008.6	5.4	B3/2500		G3/2500
BVH (80°-90°)	74.3	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-G3**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	2791.4	2791.4	2791.4	2791.4	2791.4	2791.4	2791.4	2791.4	2791.4	2791.4	2791.4
2.5°	2835.6	2849.0	2827.0	2812.3	2796.3	2804.9	2784.0	2784.0	2774.2	2790.2	2780.4
5°	2927.5	2939.8	2901.8	2871.1	2868.7	2842.9	2840.5	2828.2	2813.5	2827.0	2840.5
7.5°	3050.2	3045.3	3018.3	2982.7	2947.2	2932.4	2907.9	2889.5	2867.4	2879.7	2883.4
10°	3199.8	3191.2	3155.7	3099.2	3071.0	3030.6	2969.2	2934.9	2919.0	2931.2	2934.9
12.5°	3359.3	3348.2	3313.9	3251.3	3202.3	3138.5	3068.6	3013.4	3002.4	2990.1	3010.9
15°	3538.3	3518.7	3489.3	3439.0	3362.9	3279.5	3183.9	3131.1	3115.2	3094.3	3084.5
17.5°	3732.1	3729.6	3691.6	3636.4	3559.2	3443.9	3321.2	3239.1	3239.1	3230.5	3177.7
20°	3940.6	3930.8	3892.8	3862.1	3752.9	3631.5	3481.9	3377.7	3366.6	3349.4	3262.4
22.5°	4150.3	4151.5	4102.5	4079.2	3998.2	3842.5	3653.6	3549.4	3527.3	3504.0	3353.1
25°	4340.4	4342.9	4328.2	4285.2	4219.0	4075.5	3878.0	3739.5	3727.2	3695.3	3512.6
27.5°	4533.0	4563.6	4520.7	4525.6	4496.2	4331.8	4134.4	3966.3	3978.6	3908.7	3658.5
30°	4761.1	4772.1	4751.3	4757.4	4739.0	4631.1	4439.8	4303.6	4303.6	4223.9	3906.3
32.5°	4943.8	4934.0	4935.2	4999.0	5007.6	4948.7	4791.8	4747.6	4785.6	4775.8	4490.0
35°	5034.6	5051.8	5099.6	5245.5	5316.7	5281.1	5262.7	5321.6	5417.2	5478.6	5127.8
37.5°	5151.1	5203.8	5263.9	5427.1	5558.3	5656.4	5757.0	5950.7	6088.1	6167.8	5733.7
40°	5271.3	5276.2	5396.4	5598.8	5855.1	6010.8	6250.0	6583.6	6718.5	6658.4	6069.7
42.5°	5178.1	5190.3	5357.1	5717.7	6039.1	6437.7	6696.4	7081.5	7174.7	6992.0	6416.8
45°	5057.9	5081.2	5292.1	5717.7	6241.4	6828.9	7124.5	7553.7	7564.8	7318.2	6626.5
47.5°	4951.2	4970.8	5192.8	5673.6	6431.5	7172.3	7469.1	7818.6	7893.5	7584.4	6904.9
50°	4808.9	4858.0	5076.3	5634.3	6519.8	7411.5	7774.5	8137.5	8163.3	7835.8	7113.4
52.5°	4654.4	4697.3	4965.9	5560.7	6632.7	7608.9	7976.8	8444.1	8396.3	8171.9	7347.7
55°	4445.9	4483.9	4794.2	5443.0	6646.1	7715.6	8122.8	8728.7	8747.1	8451.5	7574.6
57.5°	4206.7	4270.5	4552.6	5224.7	6522.3	7747.5	8374.2	9113.8	9184.9	8797.3	7756.1
60°	3948.0	3998.2	4318.3	4992.9	6357.9	7867.7	8718.9	9612.9	9669.4	9099.1	7829.7
62.5°	3683.0	3724.7	3989.7	4644.6	6056.2	7891.0	9019.3	10114.6	10096.2	9367.6	7931.5
65°	3353.1	3356.8	3607.0	4223.9	5636.8	7724.2	9173.9	10318.1	10336.5	9611.7	7815.0
67.5°	2933.7	2957.0	3147.1	3733.3	5065.3	7304.8	9075.8	10493.5	10565.9	9762.6	7666.6
70°	2336.4	2349.9	2548.6	3094.3	4306.1	6656.0	8889.3	10520.5	10504.6	9567.6	7258.1
72.5°	1661.8	1713.4	1847.0	2175.7	3304.1	5447.9	8046.8	9687.8	9614.2	8814.5	6474.4
75°	1068.2	1073.1	1206.8	1421.5	1934.1	3862.1	6707.5	8350.9	8381.6	7645.7	5271.3
77.5°	353.2	398.6	442.7	599.7	802.1	1607.9	4528.1	6582.4	6675.6	6023.1	3597.2
80°	155.8	155.8	263.7	339.7	432.9	689.3	1806.6	2979.1	3264.8	2808.6	1385.9
82.5°	114.1	116.5	176.6	202.4	170.5	287.0	648.8	954.2	1011.8	908.8	550.7
85°	65.0	67.5	76.0	87.1	72.4	116.5	143.5	147.2	148.4	128.8	100.6
87.5°	29.4	29.4	27.0	23.3	13.5	8.6	8.6	6.1	7.4	6.1	4.9
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°	2791.4	2791.4	2791.4	2791.4	2791.4	2791.4	2791.4	2791.4	2791.4	2791.4	2791.4
2.5°	2776.7	2789.0	2815.9	2820.8	2833.1	2851.5	2874.8	2885.8	2922.6	2939.8	2944.7
5°	2842.9	2849.0	2895.7	2911.6	2966.8	2995.0	3019.5	3036.7	3082.1	3093.1	3112.7
7.5°	2893.2	2914.1	2970.5	3006.0	3040.4	3069.8	3067.4	3107.8	3131.1	3149.5	3156.9
10°	2944.7	2955.8	3013.4	3029.3	3055.1	3077.2	3083.3	3094.3	3100.5	3126.2	3134.8
12.5°	3024.4	3017.1	3024.4	3037.9	3058.8	3053.9	3067.4	3051.4	3060.0	3093.1	3080.8
15°	3083.3	3066.1	3034.2	3035.5	3022.0	3015.8	2996.2	2982.7	2981.5	2988.9	3001.1
17.5°	3149.5	3099.2	3040.4	3024.4	2974.1	2925.1	2890.7	2854.0	2847.8	2855.2	2846.6
20°	3207.2	3139.7	3037.9	2987.6	2889.5	2801.2	2750.9	2695.7	2693.3	2688.4	2678.6
22.5°	3277.1	3192.5	3036.7	2934.9	2818.4	2676.1	2571.9	2530.2	2479.9	2499.5	2497.1
25°	3381.3	3275.9	3047.7	2878.5	2689.6	2520.4	2386.7	2294.7	2244.4	2233.4	2238.3
27.5°	3510.1	3370.3	3053.9	2807.4	2571.9	2330.3	2118.1	1979.5	1948.8	1908.4	1912.0
30°	3697.8	3499.1	3083.3	2728.9	2398.9	2087.4	1834.8	1654.5	1603.0	1611.6	1614.0
32.5°	4140.5	3764.0	3104.2	2638.1	2208.8	1818.8	1488.9	1308.6	1268.2	1282.9	1291.5
35°	4721.8	4271.7	3218.2	2521.6	1993.0	1504.9	1141.8	1040.0	1048.6	1076.8	1084.2
37.5°	5298.3	4810.1	3469.6	2419.8	1717.0	1151.6	911.3	851.2	901.4	928.4	937.0
40°	5652.7	5168.3	3746.8	2262.8	1366.3	846.3	694.2	659.8	717.5	780.0	810.7
42.5°	6010.8	5461.4	3927.1	2071.5	977.5	615.7	516.3	544.5	639.0	701.5	716.2
45°	6239.0	5612.2	3944.3	1767.3	651.2	477.1	471.0	531.1	627.9	678.2	686.8
47.5°	6461.0	5814.6	3871.9	1415.3	490.6	453.8	467.3	537.2	632.8	689.3	688.0
50°	6681.7	6013.3	3714.9	1123.4	463.6	439.1	474.6	549.5	641.4	684.4	684.4
52.5°	6816.6	6111.4	3399.7	894.1	446.4	430.5	478.3	554.4	632.8	657.4	653.7
55°	6978.5	6134.7	3187.6	744.5	428.0	424.4	485.7	567.8	631.6	634.1	625.5
57.5°	7063.1	6077.1	3014.6	632.8	412.1	426.8	494.3	571.5	667.2	696.6	701.5
60°	7026.3	6007.2	2818.4	562.9	397.4	423.1	491.8	599.7	777.6	838.9	827.9
62.5°	6990.8	5875.9	2488.5	505.3	381.4	425.6	489.4	664.7	913.7	849.9	815.6
65°	6862.0	5603.7	2059.2	450.1	361.8	426.8	484.4	734.6	935.8	858.5	799.6
67.5°	6508.8	5149.9	1628.7	391.2	338.5	409.6	473.4	690.5	749.4	674.5	642.7
70°	5982.6	4492.5	1117.3	338.5	310.3	388.8	466.1	653.7	704.0	651.2	610.8
72.5°	5133.9	3529.7	619.4	283.3	272.3	363.0	464.8	645.1	708.9	558.0	513.9
75°	3903.8	2341.3	402.3	222.0	223.2	323.8	442.7	615.7	686.8	524.9	464.8
77.5°	2299.6	986.1	280.9	158.2	174.2	251.4	393.7	589.9	650.0	513.9	464.8
80°	781.3	434.2	182.7	106.7	106.7	160.7	280.9	482.0	578.9	500.4	495.5
82.5°	406.0	276.0	116.5	66.2	61.3	77.3	172.9	331.1	464.8	424.4	483.2
85°	80.9	57.6	36.8	27.0	29.4	39.2	61.3	168.0	294.3	327.5	392.5
87.5°	6.1	4.9	7.4	7.4	7.4	7.4	8.6	41.7	117.7	144.7	179.1
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)