

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: P509559

Luminaire Tested: **VERD-G-CA2-120-740-U-T3**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P509559
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2102-155-4)
Test Lab: INNOVATION CENTER
Issue Date: 4/6/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VERD-G-CA2-120-740-U-T3
Description: VERDEON-G ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 4000K, 1120mA LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17697 lumens
Efficiency: N/A
Efficacy: 141.9 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

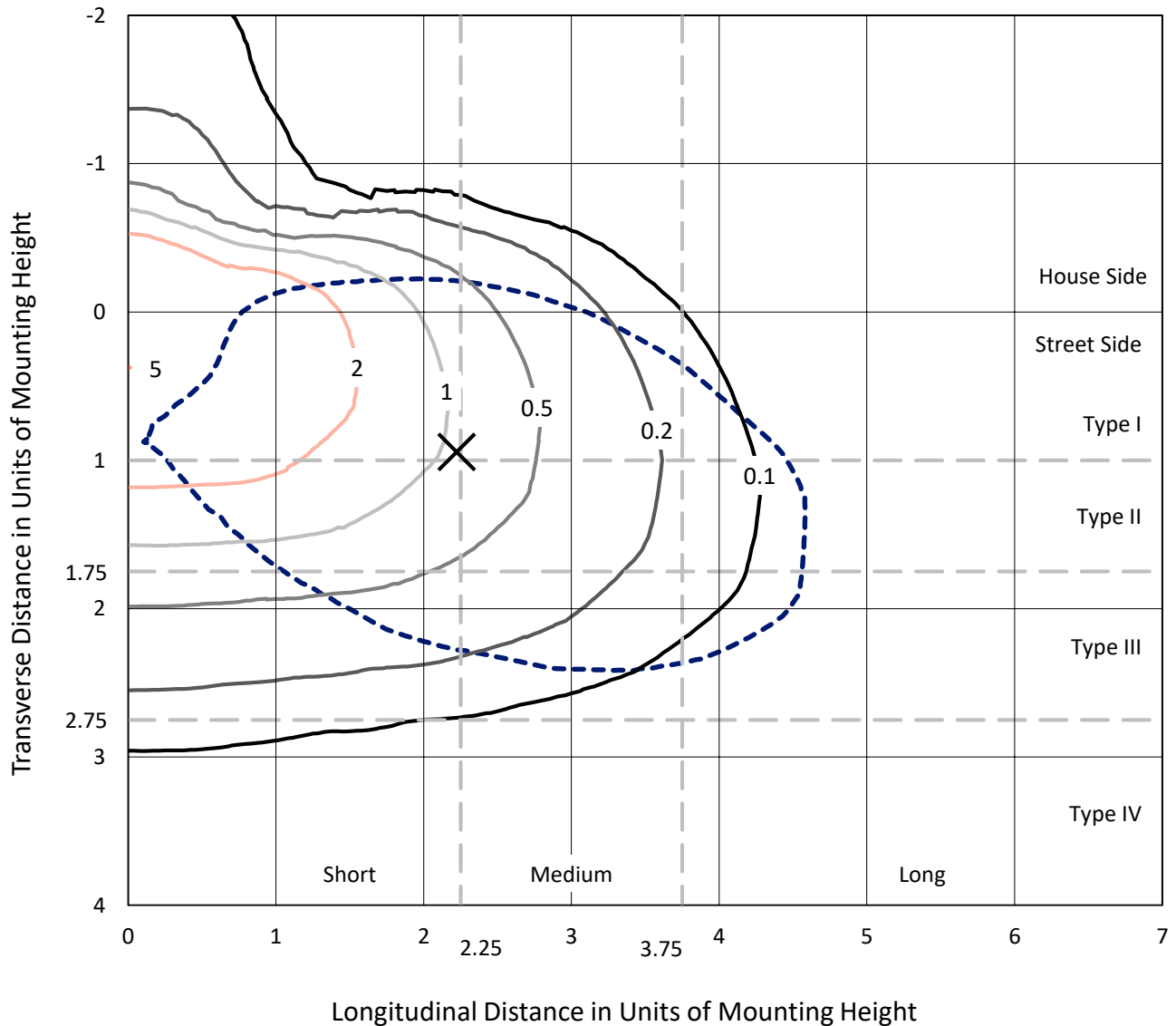
Input Watts (W): 124.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

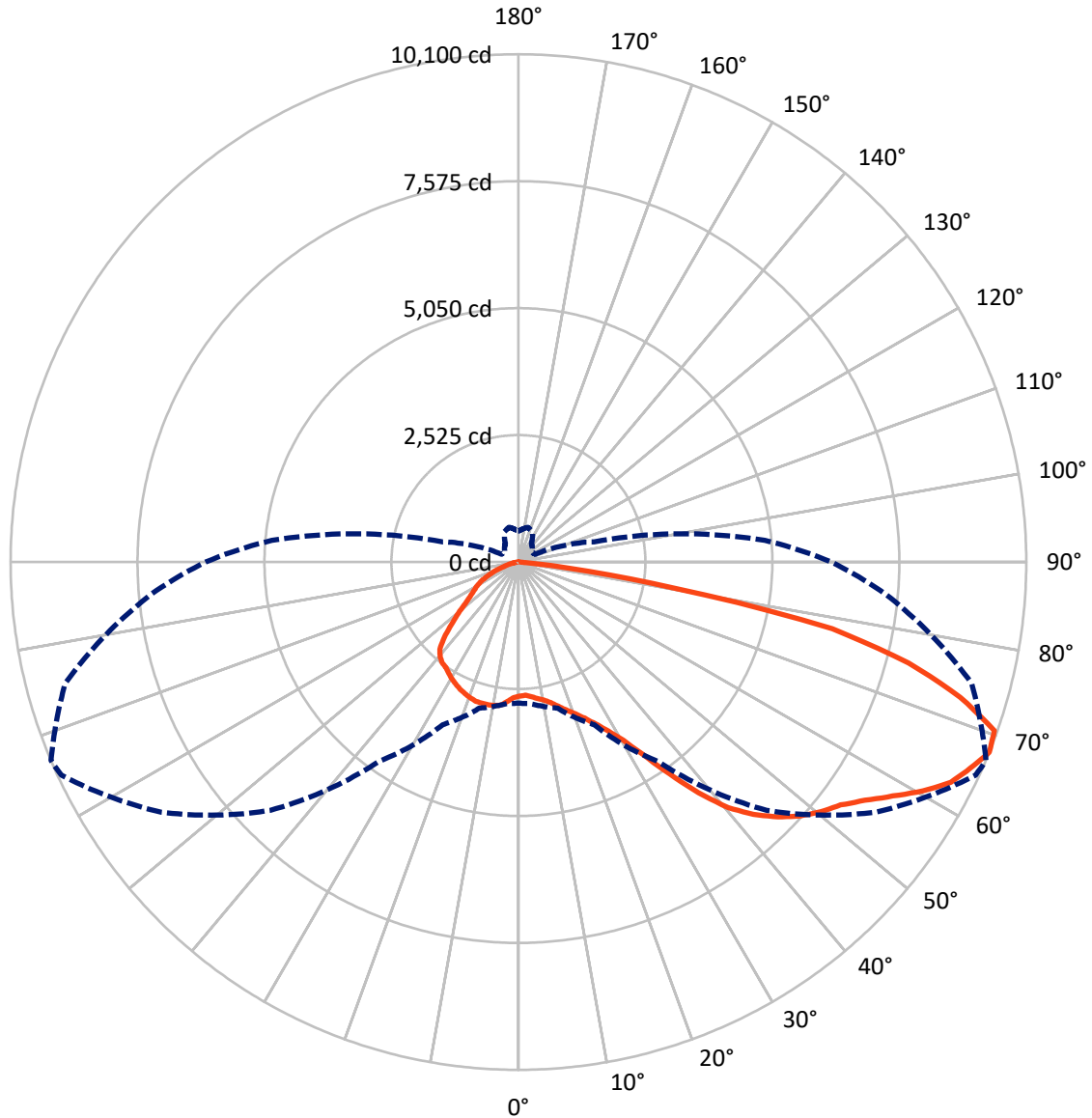
✕ Max cd
 - - - 1/2 Max cd



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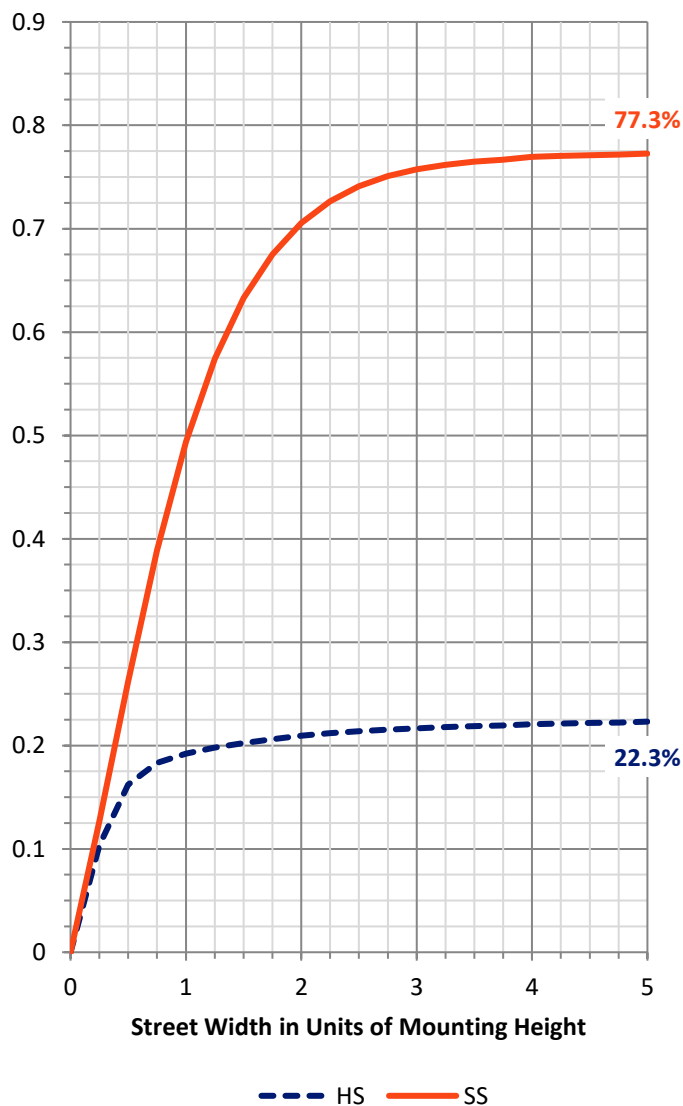
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4015.5	0.0	4015.5
	% Fixture	22.7	0.0	22.7
Street Side	Lumens	13681.5	0.0	13681.5
	% Fixture	77.3	0.0	77.3
Total	Lumens	17697.0	0.0	17697.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	270.2	1.5
10°-20°	855.4	4.8
20°-30°	1467.1	8.3
30°-40°	2183.4	12.3
40°-50°	2985.1	16.9
50°-60°	3585.7	20.3
60°-70°	3803.9	21.5
70°-80°	2323.7	13.1
80°-90°	222.5	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°	17697.0	100.0
0°-180°	17697.0	100.0

Coefficient of Utilization



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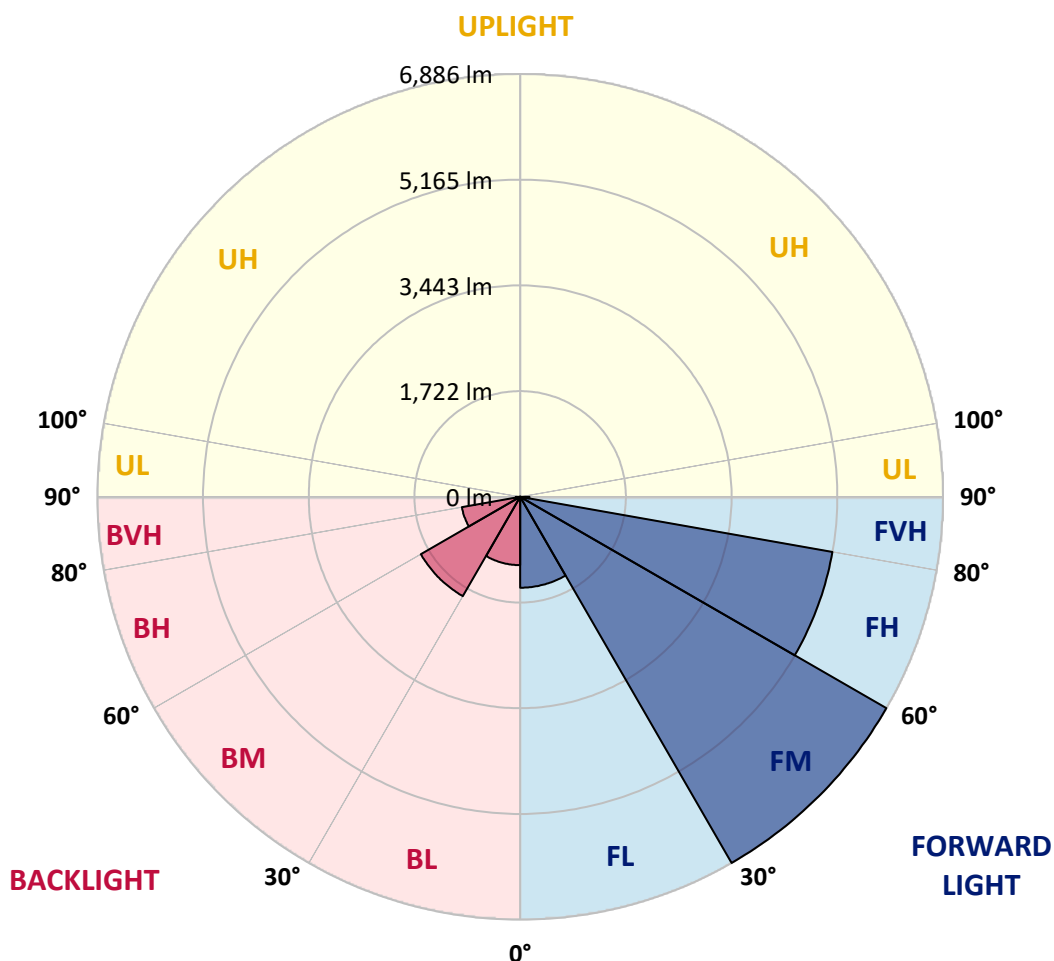
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1480.2	8.4			
FM (30°-60°)	6886.3	38.9			
FH (60°-80°)	5163.5	29.2			G3/7500
FVH (80°-90°)	151.5	0.9			G2/225
BL (0°-30°)	1112.5	6.3	B3/2500		
BM (30°-60°)	1867.9	10.6	B2/2500		
BH (60°-80°)	964.1	5.4	B2/1000		G2/1000
BVH (80°-90°)	71.0	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°	2668.2	2668.2	2668.2	2668.2	2668.2	2668.2	2668.2	2668.2	2668.2	2668.2	2668.2
2.5°	2710.4	2723.3	2702.2	2688.2	2672.9	2681.1	2661.2	2661.2	2651.8	2667.1	2657.7
5°	2798.4	2810.1	2773.7	2744.4	2742.1	2717.5	2715.1	2703.4	2689.3	2702.2	2715.1
7.5°	2915.6	2910.9	2885.1	2851.1	2817.1	2803.0	2779.6	2762.0	2740.9	2752.6	2756.2
10°	3058.6	3050.4	3016.4	2962.5	2935.5	2896.8	2838.2	2805.4	2790.1	2801.9	2805.4
12.5°	3211.0	3200.5	3167.6	3107.8	3061.0	3000.0	2933.2	2880.4	2869.9	2858.1	2878.1
15°	3382.2	3363.4	3335.3	3287.2	3214.5	3134.8	3043.4	2993.0	2977.7	2957.8	2948.4
17.5°	3567.4	3565.1	3528.7	3476.0	3402.1	3291.9	3174.7	3096.1	3096.1	3087.9	3037.5
20°	3766.7	3757.3	3721.0	3691.7	3587.3	3471.3	3328.2	3228.6	3218.0	3201.6	3118.4
22.5°	3967.2	3968.3	3921.4	3899.2	3821.8	3672.9	3492.4	3392.7	3371.6	3349.3	3205.2
25°	4148.9	4151.2	4137.2	4096.1	4032.8	3895.7	3706.9	3574.4	3562.7	3532.2	3357.6
27.5°	4332.9	4362.2	4321.2	4325.9	4297.8	4140.7	3951.9	3791.3	3803.0	3736.2	3497.1
30°	4551.0	4561.5	4541.6	4547.5	4529.9	4426.7	4243.8	4113.7	4113.7	4037.5	3733.9
32.5°	4725.7	4716.3	4717.5	4778.4	4786.6	4730.4	4580.3	4538.1	4574.4	4565.1	4291.9
35°	4812.4	4828.8	4874.6	5014.1	5082.1	5048.1	5030.5	5086.7	5178.2	5236.8	4901.5
37.5°	4923.8	4974.2	5031.6	5187.6	5313.0	5406.8	5502.9	5688.1	5819.5	5895.7	5480.6
40°	5038.7	5043.4	5158.3	5351.7	5596.7	5745.6	5974.2	6293.1	6422.0	6364.6	5801.9
42.5°	4949.6	4961.3	5120.7	5465.4	5772.6	6153.6	6400.9	6769.0	6858.1	6683.5	6133.6
45°	4834.7	4857.0	5058.6	5465.4	5966.0	6527.5	6810.1	7220.4	7230.9	6995.3	6334.1
47.5°	4732.7	4751.5	4963.6	5423.2	6147.7	6855.8	7139.5	7473.6	7545.1	7249.7	6600.2
50°	4596.7	4643.6	4852.3	5385.7	6232.1	7084.4	7431.4	7778.4	7803.0	7490.0	6799.5
52.5°	4449.0	4490.0	4746.8	5315.3	6340.0	7273.1	7624.8	8071.5	8025.8	7811.2	7023.4
55°	4249.7	4286.0	4582.6	5202.8	6352.9	7375.1	7764.3	8343.5	8361.1	8078.5	7240.3
57.5°	4021.1	4082.1	4351.7	4994.1	6234.5	7405.6	8004.7	8711.6	8779.6	8409.1	7413.8
60°	3773.7	3821.8	4127.8	4772.6	6077.4	7520.5	8334.1	9188.7	9242.7	8697.5	7484.2
62.5°	3520.5	3560.4	3813.6	4439.6	5789.0	7542.8	8621.3	9668.2	9650.6	8954.3	7581.5
65°	3205.2	3208.7	3447.8	4037.5	5388.0	7383.3	8769.0	9862.8	9880.4	9187.6	7470.1
67.5°	2804.2	2826.5	3008.2	3568.6	4841.7	6982.4	8675.2	10030.5	10099.6	9331.8	7328.2
70°	2233.3	2246.2	2436.1	2957.8	4116.1	6362.2	8497.1	10056.3	10041.0	9145.4	6937.9
72.5°	1588.5	1637.7	1765.5	2079.7	3158.3	5207.5	7691.7	9260.2	9189.9	8425.5	6188.7
75°	1021.1	1025.8	1153.6	1358.7	1848.8	3691.7	6411.5	7982.4	8011.7	7308.3	5038.7
77.5°	337.6	381.0	423.2	573.3	766.7	1536.9	4328.2	6291.9	6381.0	5757.3	3438.4
80°	148.9	148.9	252.1	324.7	413.8	658.8	1726.8	2847.6	3120.7	2684.6	1324.7
82.5°	109.0	111.4	168.8	193.4	163.0	274.3	620.2	912.1	967.2	868.7	526.4
85°	62.1	64.5	72.7	83.2	69.2	111.4	137.2	140.7	141.9	123.1	96.1
87.5°	28.1	28.1	25.8	22.3	12.9	8.2	8.2	5.9	7.0	5.9	4.7
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°	2668.2	2668.2	2668.2	2668.2	2668.2	2668.2	2668.2	2668.2	2668.2	2668.2	2668.2
2.5°	2654.2	2665.9	2691.7	2696.4	2708.1	2725.7	2747.9	2758.5	2793.7	2810.1	2814.8
5°	2717.5	2723.3	2767.9	2783.1	2835.9	2862.8	2886.3	2902.7	2946.1	2956.6	2975.4
7.5°	2765.5	2785.5	2839.4	2873.4	2906.2	2934.3	2932.0	2970.7	2993.0	3010.5	3017.6
10°	2814.8	2825.3	2880.4	2895.7	2920.3	2941.4	2947.2	2957.8	2963.7	2988.3	2996.5
12.5°	2891.0	2883.9	2891.0	2903.9	2923.8	2919.1	2932.0	2916.8	2925.0	2956.6	2944.9
15°	2947.2	2930.8	2900.3	2901.5	2888.6	2882.8	2864.0	2851.1	2849.9	2857.0	2868.7
17.5°	3010.5	2962.5	2906.2	2891.0	2842.9	2796.0	2763.2	2728.0	2722.2	2729.2	2721.0
20°	3065.6	3001.2	2903.9	2855.8	2762.0	2677.6	2629.5	2576.8	2574.4	2569.7	2560.4
22.5°	3132.5	3051.6	2902.7	2805.4	2694.0	2558.0	2458.4	2418.5	2370.5	2389.2	2386.9
25°	3232.1	3131.3	2913.2	2751.5	2570.9	2409.1	2281.4	2193.4	2145.4	2134.8	2139.5
27.5°	3355.2	3221.6	2919.1	2683.5	2458.4	2227.4	2024.6	1892.1	1862.8	1824.1	1827.7
30°	3534.6	3344.7	2947.2	2608.4	2293.1	1995.3	1753.8	1581.5	1532.2	1540.4	1542.8
32.5°	3957.8	3597.9	2967.2	2521.7	2111.4	1738.6	1423.2	1250.9	1212.2	1226.3	1234.5
35°	4513.5	4083.2	3076.2	2410.3	1905.0	1438.5	1091.4	994.1	1002.3	1029.3	1036.3
37.5°	5064.5	4597.9	3316.5	2313.0	1641.3	1100.8	871.0	813.6	861.7	887.5	895.7
40°	5403.3	4940.2	3581.5	2163.0	1306.0	808.9	663.5	630.7	685.8	745.6	774.9
42.5°	5745.6	5220.4	3753.8	1980.1	934.3	588.5	493.6	520.5	610.8	670.6	684.6
45°	5963.6	5364.6	3770.2	1689.3	622.5	456.0	450.2	507.6	600.2	648.3	656.5
47.5°	6175.8	5558.0	3701.0	1352.9	468.9	433.8	446.7	513.5	604.9	658.8	657.7
50°	6386.9	5747.9	3551.0	1073.9	443.1	419.7	453.7	525.2	613.1	654.2	654.2
52.5°	6515.8	5841.7	3249.7	854.6	426.7	411.5	457.2	529.9	604.9	628.4	624.9
55°	6670.6	5864.0	3046.9	711.6	409.1	405.6	464.2	542.8	603.8	606.1	597.9
57.5°	6751.5	5808.9	2881.6	604.9	393.9	408.0	472.4	546.3	637.7	665.9	670.6
60°	6716.3	5742.1	2694.0	538.1	379.8	404.5	470.1	573.3	743.3	801.9	791.3
62.5°	6682.3	5616.6	2378.7	483.0	364.6	406.8	467.8	635.4	873.4	812.4	779.6
65°	6559.2	5356.4	1968.3	430.2	345.8	408.0	463.1	702.2	894.5	820.6	764.4
67.5°	6221.6	4922.6	1556.9	374.0	323.6	391.6	452.5	660.0	716.3	644.8	614.3
70°	5718.6	4294.2	1068.0	323.6	296.6	371.6	445.5	624.9	672.9	622.5	583.8
72.5°	4907.4	3374.0	592.0	270.8	260.3	347.0	444.3	616.6	677.6	533.4	491.2
75°	3731.5	2238.0	384.5	212.2	213.4	309.5	423.2	588.5	656.5	501.8	444.3
77.5°	2198.1	942.6	268.5	151.2	166.5	240.3	376.3	563.9	621.3	491.2	444.3
80°	746.8	415.0	174.7	102.0	102.0	153.6	268.5	460.7	553.3	478.3	473.6
82.5°	388.0	263.8	111.4	63.3	58.6	73.9	165.3	316.5	444.3	405.6	461.9
85°	77.4	55.1	35.2	25.8	28.1	37.5	58.6	160.6	281.4	313.0	375.1
87.5°	5.9	4.7	7.0	7.0	7.0	7.0	8.2	39.9	112.5	138.3	171.2
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)