

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: P553629

Luminaire Tested: **VERD-G-CA2-160-750-U-T4**

Issue Date: 7/12/2021

Test Information

Test Method: LM-79-08
Report Number: P553629
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2102-155-6)
Test Lab: INNOVATION CENTER
Issue Date: 7/12/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VERD-G-CA2-160-750-U-T4
Description: VERDEON-G ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 5000K, 1460mA LEDS AND TYPE IV OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23061 lumens
Efficiency: N/A
Efficacy: 141.8 lumens/watt
Luminous Opening: Rectangular (W 0.9' x L: 1.25' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

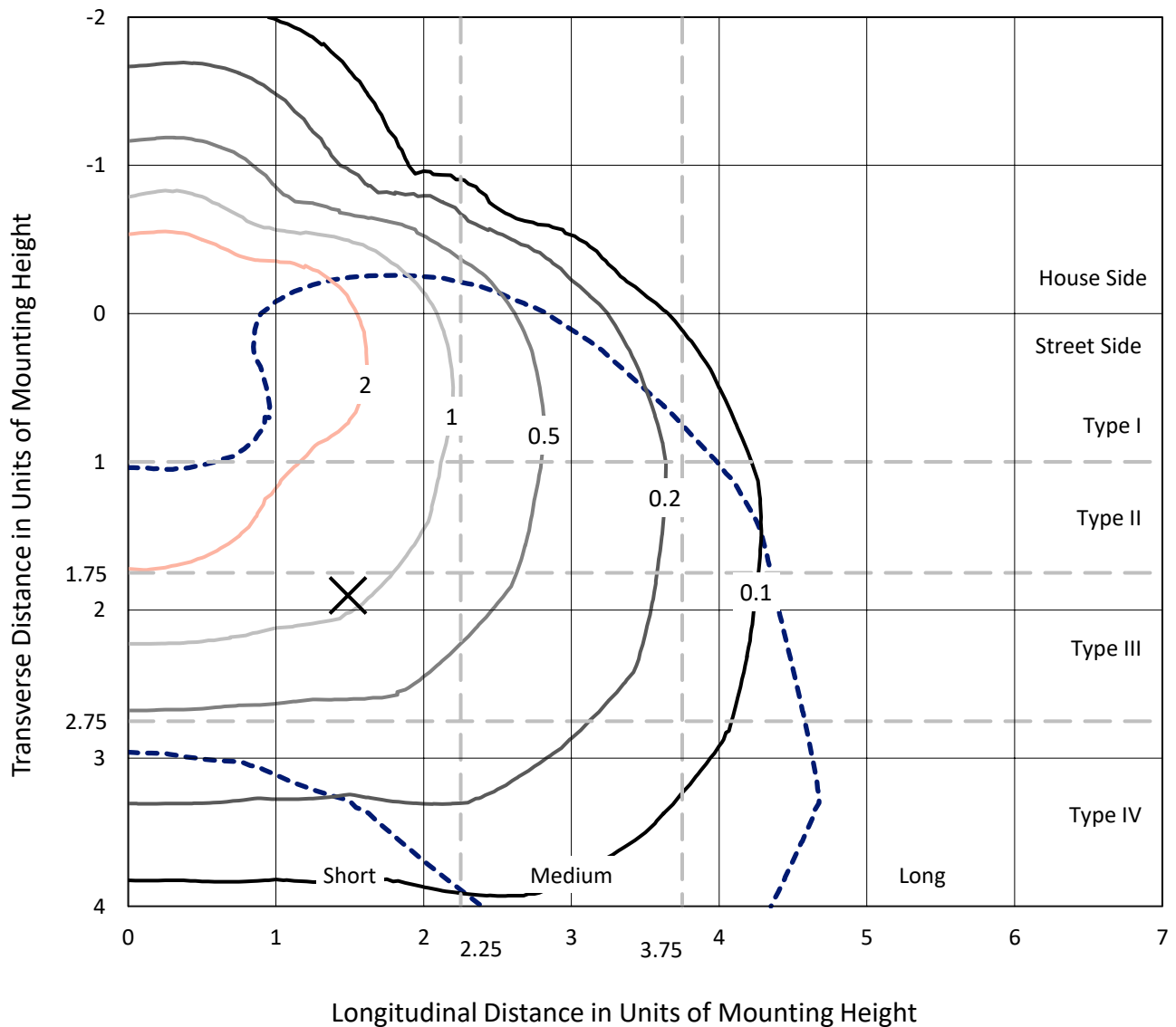
Input Watts (W): 162.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

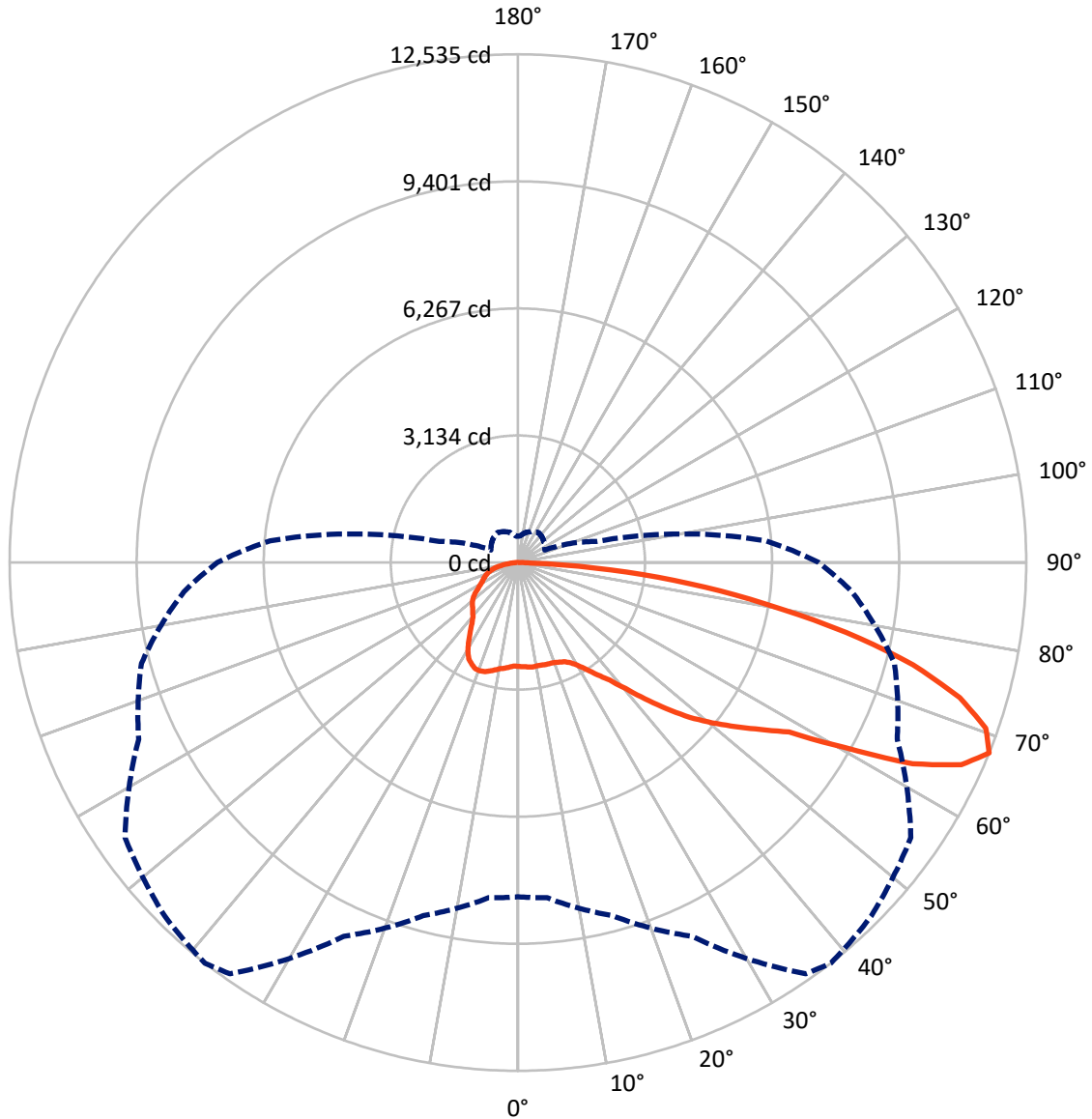
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.3 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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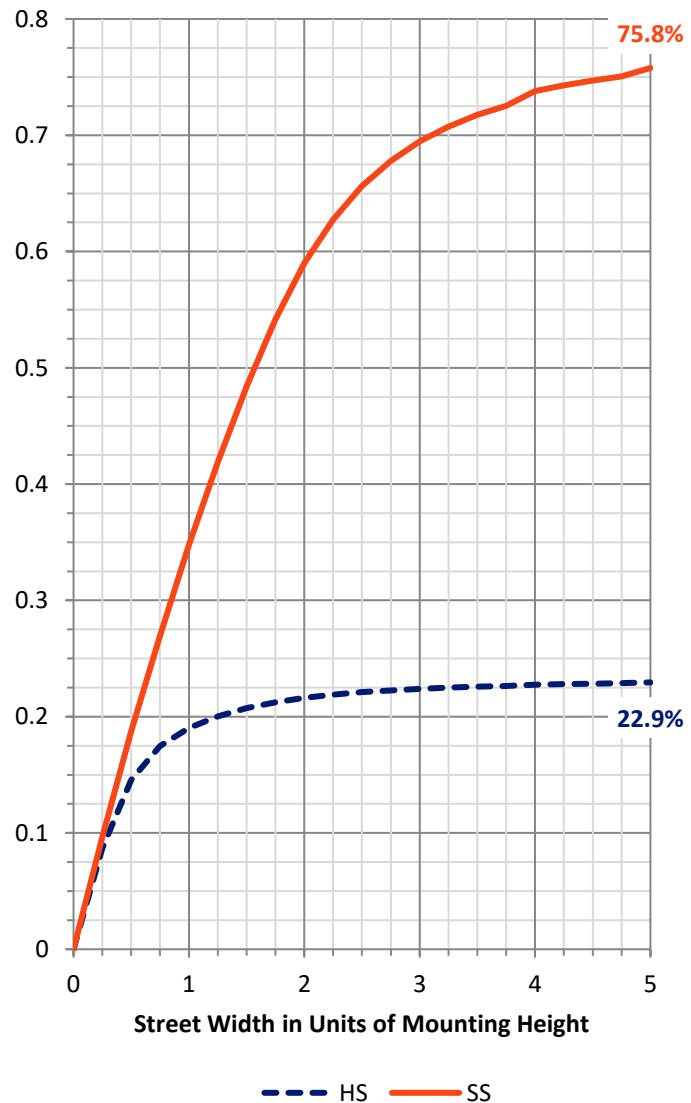
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5350.8	0.0	5350.8
	% Fixture	23.2	0.0	23.2
Street Side	Lumens	17710.2	0.0	17710.2
	% Fixture	76.8	0.0	76.8
Total	Lumens	23061.0	0.0	23061.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	248.6	1.1
10°-20°	766.6	3.3
20°-30°	1299.4	5.6
30°-40°	1991.2	8.6
40°-50°	3281.0	14.2
50°-60°	4689.5	20.3
60°-70°	5841.9	25.3
70°-80°	4163.0	18.1
80°-90°	779.8	3.4
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°	23061.0	100.0
0°-180°	23061.0	100.0



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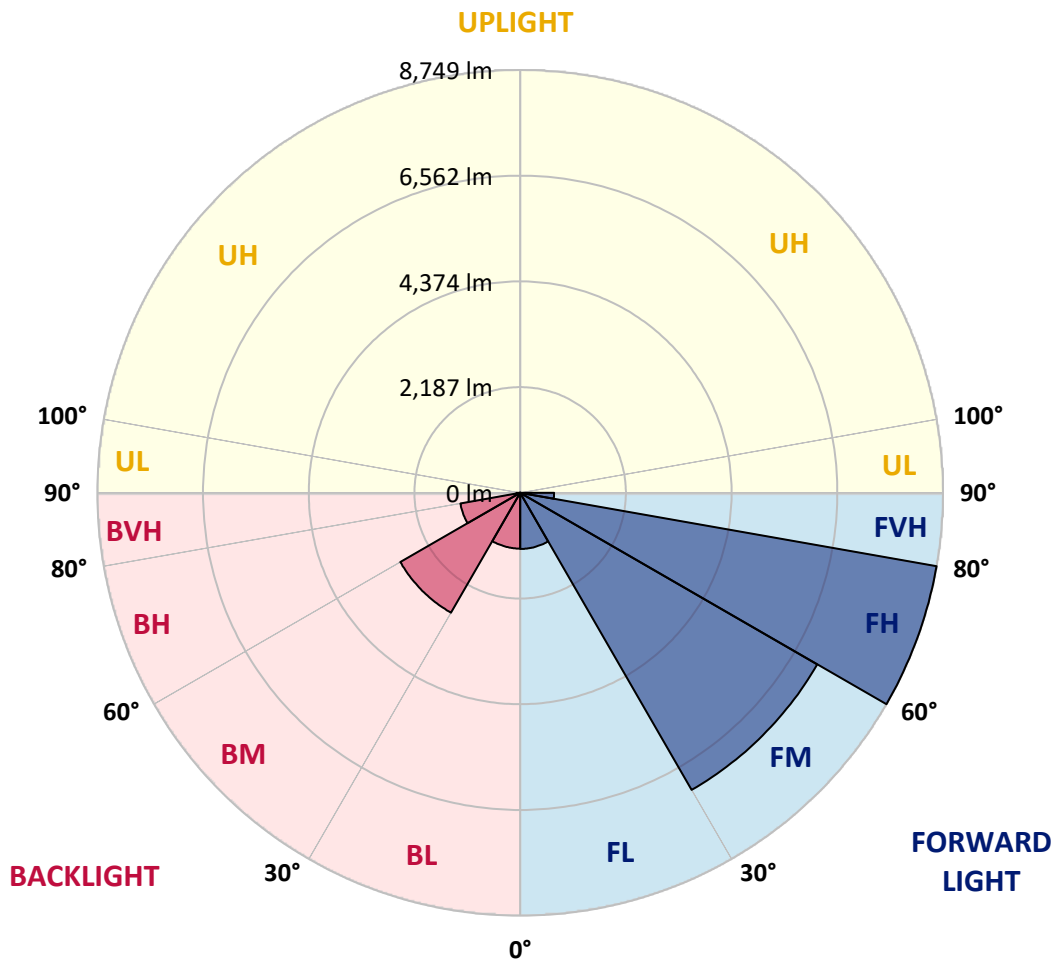
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1160.8	5.0			
FM	(30°-60°)	7097.6	30.8			
FH	(60°-80°)	8748.8	37.9			G4/12000
FVH	(80°-90°)	703.0	3.0			G4/750
BL	(0°-30°)	1153.8	5.0	B3/2500		
BM	(30°-60°)	2864.1	12.4	B3/5000		
BH	(60°-80°)	1256.1	5.4	B3/2500		G3/2500
BVH	(80°-90°)	76.8	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	2562.1	2562.1	2562.1	2562.1	2562.1	2562.1	2562.1	2562.1	2562.1	2562.1	2562.1
2.5°	2609.6	2620.4	2600.4	2597.4	2585.1	2569.8	2572.9	2560.6	2545.3	2551.4	2554.5
5°	2625.0	2625.0	2609.6	2594.3	2588.2	2585.1	2588.2	2574.4	2571.3	2582.0	2572.9
7.5°	2611.2	2620.4	2594.3	2594.3	2583.6	2602.0	2603.5	2586.6	2598.9	2598.9	2597.4
10°	2608.1	2611.2	2600.4	2579.0	2577.4	2588.2	2609.6	2615.8	2621.9	2620.4	2626.5
12.5°	2572.9	2569.8	2548.3	2554.5	2583.6	2594.3	2631.1	2647.9	2670.9	2677.1	2680.1
15°	2528.4	2540.7	2542.2	2560.6	2591.2	2608.1	2644.9	2678.6	2729.2	2741.4	2739.9
17.5°	2533.0	2537.6	2545.3	2556.0	2603.5	2611.2	2670.9	2707.7	2770.5	2813.4	2834.9
20°	2562.1	2552.9	2568.3	2595.8	2621.9	2628.0	2690.8	2747.5	2833.4	2890.1	2914.6
22.5°	2611.2	2612.7	2620.4	2620.4	2638.7	2666.3	2724.6	2769.0	2874.7	2954.4	2997.3
25°	2657.1	2660.2	2669.4	2666.3	2697.0	2709.2	2764.4	2831.8	2952.9	3046.4	3129.1
27.5°	2726.1	2735.3	2729.2	2730.7	2790.4	2802.7	2827.2	2917.6	3041.8	3167.4	3314.5
30°	2854.8	2854.8	2848.7	2854.8	2919.2	2949.8	2957.5	3046.4	3147.5	3299.2	3521.4
32.5°	3040.2	3041.8	3003.4	3034.1	3106.1	3159.7	3182.7	3323.7	3437.1	3510.7	3797.2
35°	3437.1	3420.3	3380.4	3291.5	3337.5	3403.4	3476.9	3656.2	3906.0	4180.3	4468.4
37.5°	4045.5	4043.9	3902.9	3725.2	3645.5	3679.2	3781.9	4050.1	4440.8	5125.8	5380.2
40°	4721.2	4738.1	4534.3	4312.1	4077.6	4080.7	4106.8	4442.3	5007.8	5997.7	6131.0
42.5°	5395.5	5367.9	5142.6	4929.6	4610.9	4591.0	4522.0	4839.2	5600.8	6694.9	6713.3
45°	5996.2	5982.4	5732.6	5516.5	5216.2	5139.6	5061.4	5263.7	6166.3	7258.8	7137.8
47.5°	6560.1	6578.5	6233.7	6039.1	5741.8	5703.5	5613.1	5741.8	6725.6	7701.7	7482.6
50°	7202.1	7209.8	6797.6	6557.0	6262.8	6213.8	6178.5	6342.5	7303.3	8124.6	7833.5
52.5°	7920.8	7770.7	7369.2	7038.2	6756.2	6719.4	6699.5	6871.2	7936.1	8495.5	8064.9
55°	8824.9	8624.2	8213.5	7664.9	7254.2	7260.4	7191.4	7392.2	8469.4	8751.4	8290.1
57.5°	9220.3	9266.2	9189.6	8690.1	7969.9	7881.0	7710.9	7865.7	8976.6	9051.7	8467.9
60°	9965.0	10142.8	9977.3	9698.4	9485.4	9252.5	8421.9	8480.1	9439.4	9384.2	8487.8
62.5°	10015.6	10076.9	10599.4	10643.8	10850.7	10928.9	10240.8	9177.4	9859.3	9551.3	8555.2
65°	9519.1	9588.0	10217.8	10771.0	11909.6	12016.9	11799.3	10453.8	10199.5	9641.7	8501.6
67.5°	8242.6	8299.3	9014.9	10170.3	12380.0	12534.8	12323.3	11826.8	10319.0	9611.0	8265.6
70°	7050.4	7082.6	7677.2	9293.8	12056.7	12239.0	12154.8	11878.9	10314.4	9430.2	7744.6
72.5°	5538.0	5631.5	6111.1	7707.8	11239.9	11393.2	11417.7	11558.7	10052.4	8835.6	6580.0
75°	4016.3	4066.9	4610.9	5988.5	9701.4	10067.7	10498.3	11030.0	9067.0	7501.0	4865.3
77.5°	2830.3	2879.3	3391.1	4540.4	7851.9	8268.7	9047.1	9359.7	7356.9	5622.3	2560.6
80°	1863.4	1857.2	2344.5	3360.5	5892.0	6184.6	6762.4	6344.0	4269.2	2444.1	278.9
82.5°	1094.1	1155.4	1501.7	2309.3	4117.5	4279.9	4264.6	3340.6	1694.8	252.8	142.5
85°	631.3	654.3	885.7	1368.4	2269.4	2292.4	2053.4	1296.4	419.9	113.4	84.3
87.5°	282.0	271.2	352.4	452.0	413.7	308.0	191.5	53.6	32.2	21.5	13.8
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°	2562.1	2562.1	2562.1	2562.1	2562.1	2562.1	2562.1	2562.1	2562.1	2562.1	2562.1
2.5°	2542.2	2534.5	2572.9	2551.4	2569.8	2559.1	2549.9	2562.1	2585.1	2605.0	2592.8
5°	2562.1	2566.7	2597.4	2571.3	2595.8	2591.2	2579.0	2592.8	2629.5	2647.9	2646.4
7.5°	2585.1	2588.2	2620.4	2609.6	2620.4	2611.2	2631.1	2621.9	2654.1	2666.3	2658.7
10°	2612.7	2617.3	2646.4	2647.9	2652.5	2646.4	2655.6	2660.2	2678.6	2703.1	2687.8
12.5°	2672.5	2683.2	2704.6	2727.6	2724.6	2700.0	2707.7	2683.2	2700.0	2707.7	2720.0
15°	2755.2	2781.3	2793.5	2825.7	2796.6	2782.8	2753.7	2704.6	2689.3	2681.6	2669.4
17.5°	2844.1	2868.6	2891.6	2933.0	2885.5	2848.7	2798.1	2706.2	2637.2	2612.7	2602.0
20°	2943.7	2966.7	3008.0	3035.6	2965.1	2885.5	2804.2	2669.4	2533.0	2439.5	2450.3
22.5°	3055.5	3106.1	3133.7	3126.0	3026.4	2917.6	2778.2	2572.9	2398.2	2258.7	2249.5
25°	3210.3	3239.4	3250.2	3179.7	3060.1	2894.6	2690.8	2457.9	2214.3	2058.0	2035.0
27.5°	3372.7	3403.4	3346.7	3214.9	3049.4	2841.0	2592.8	2261.8	2001.3	1851.1	1834.2
30°	3581.2	3573.5	3412.6	3204.2	2988.1	2712.3	2413.5	2061.0	1820.5	1681.0	1673.3
32.5°	3807.9	3751.2	3466.2	3152.1	2871.7	2543.7	2185.2	1871.0	1685.6	1546.2	1540.0
35°	4344.3	4083.8	3544.4	3086.2	2700.0	2310.8	1973.7	1728.5	1578.3	1420.5	1389.9
37.5°	5131.9	4712.0	3705.3	3018.8	2503.9	2081.0	1797.5	1622.8	1480.3	1311.7	1282.6
40°	5865.9	5351.0	3987.2	2968.2	2327.7	1895.5	1676.4	1549.2	1411.3	1242.8	1206.0
42.5°	6386.9	5847.5	4325.9	2885.5	2151.4	1748.4	1625.8	1521.6	1392.9	1236.6	1207.5
45°	6806.8	6276.6	4661.5	2792.0	1944.6	1622.8	1573.7	1498.7	1369.9	1218.2	1184.5
47.5°	7102.5	6546.3	4894.4	2686.2	1746.9	1546.2	1529.3	1461.9	1334.7	1192.2	1170.7
50°	7407.5	6848.2	5053.8	2577.4	1569.1	1487.9	1468.0	1379.1	1262.7	1135.5	1112.5
52.5°	7606.7	6995.3	5145.7	2556.0	1417.4	1408.2	1383.7	1299.5	1189.1	1051.2	1023.6
55°	7758.4	7125.5	5131.9	2430.3	1281.1	1304.0	1288.7	1225.9	1129.4	994.5	976.1
57.5°	7795.2	7145.4	5006.3	2041.1	1152.3	1164.6	1172.3	1184.5	1091.0	979.2	948.5
60°	7900.9	7052.0	4784.1	1468.0	1000.6	1031.3	1092.6	1103.3	1038.9	911.8	893.4
62.5°	7833.5	6989.1	4301.4	1034.4	893.4	956.2	1014.4	1014.4	925.6	807.6	795.3
65°	7715.5	6740.9	3365.1	815.2	836.7	901.0	954.7	917.9	841.3	730.9	723.3
67.5°	7415.1	6135.6	2008.9	734.0	796.8	858.1	896.4	841.3	769.3	660.5	648.2
70°	6552.4	4889.8	764.7	695.7	757.0	799.9	824.4	767.7	697.2	588.4	577.7
72.5°	5202.4	3058.6	485.8	648.2	706.4	744.7	760.1	694.2	582.3	458.2	445.9
75°	3130.6	873.5	421.4	560.8	622.1	688.0	662.0	576.2	491.9	384.6	377.0
77.5°	792.2	265.1	375.4	452.0	505.7	583.8	582.3	519.5	429.1	314.1	301.9
80°	190.0	185.4	304.9	334.1	381.6	447.5	441.3	432.1	340.2	217.6	179.3
82.5°	121.1	128.7	206.9	186.9	217.6	260.5	295.7	278.9	254.4	133.3	119.5
85°	81.2	102.7	101.1	70.5	98.1	147.1	191.5	174.7	144.0	82.7	73.6
87.5°	12.3	13.8	18.4	27.6	42.9	72.0	95.0	93.5	70.5	52.1	49.0
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)