

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: P553613

Luminaire Tested: **VERD-G-CA2-160-730-U-T4**

Issue Date: 7/12/2021

Test Information

Test Method: LM-79-08
Report Number: P553613
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-CA2-160-730-U-T4
Description: VERDEON-G ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 1460mA LEDS AND TYPE IV OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22236 lumens
Efficiency: N/A
Efficacy: 136.8 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

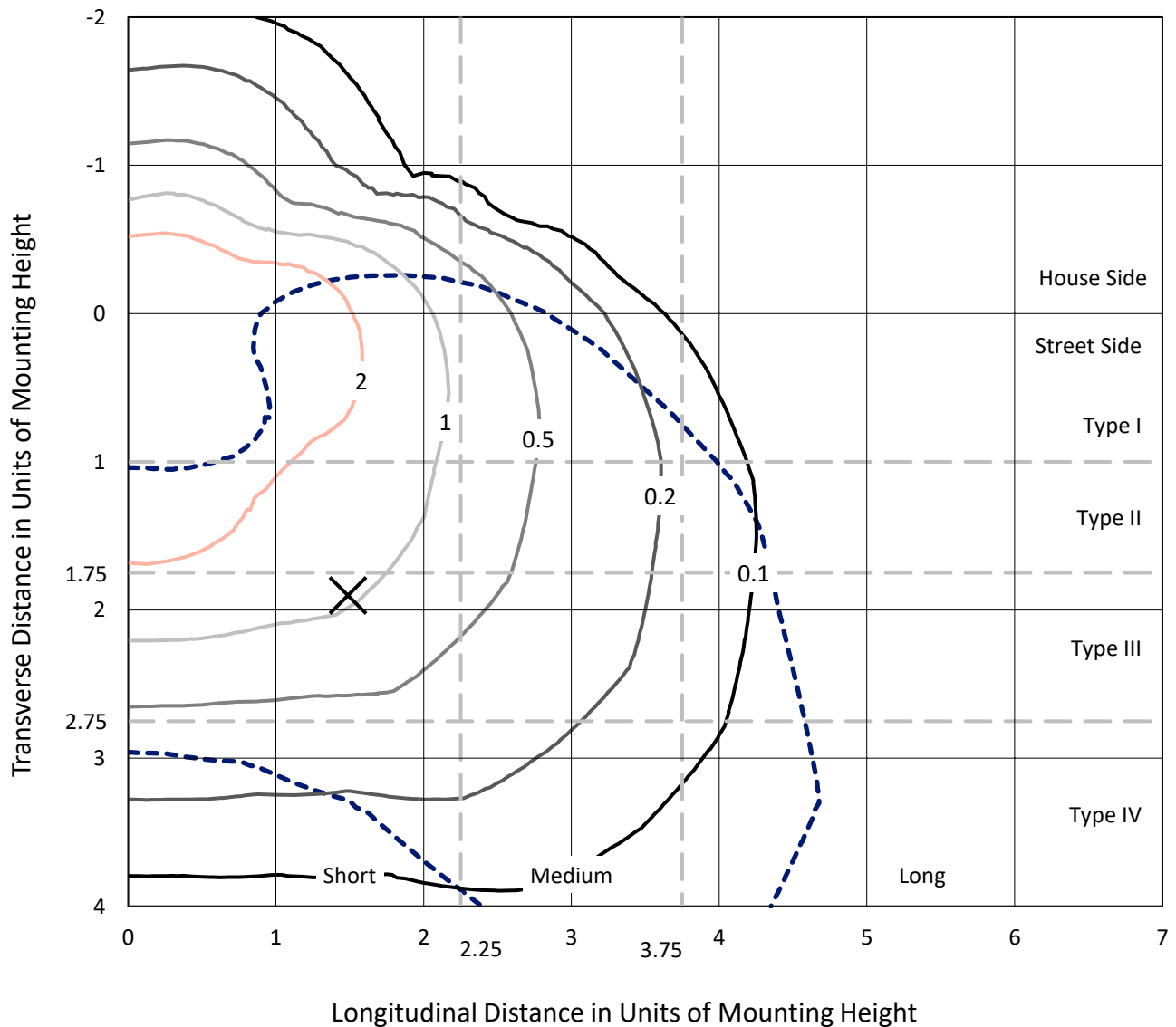
Input Watts (W): 162.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

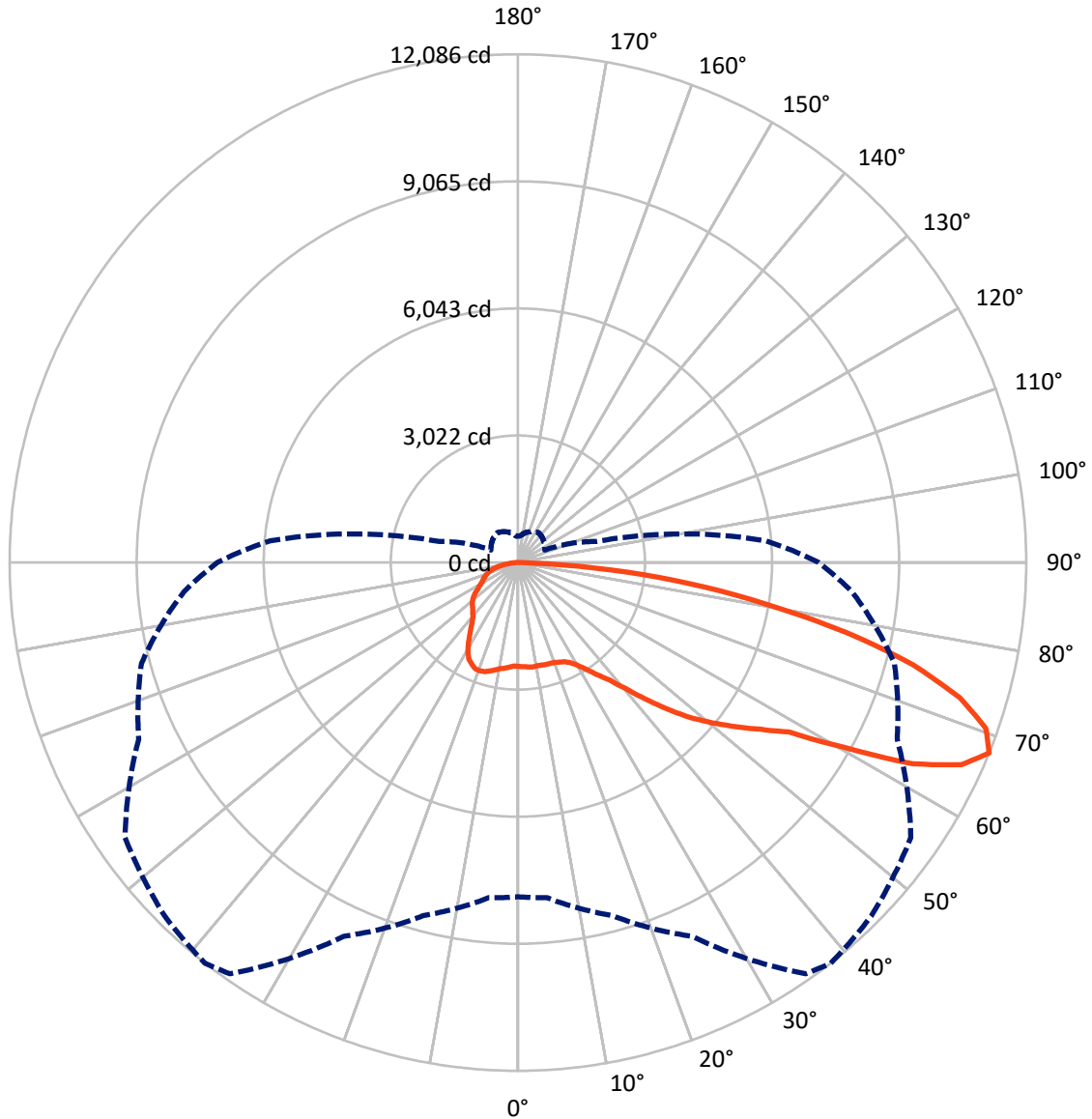
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.2 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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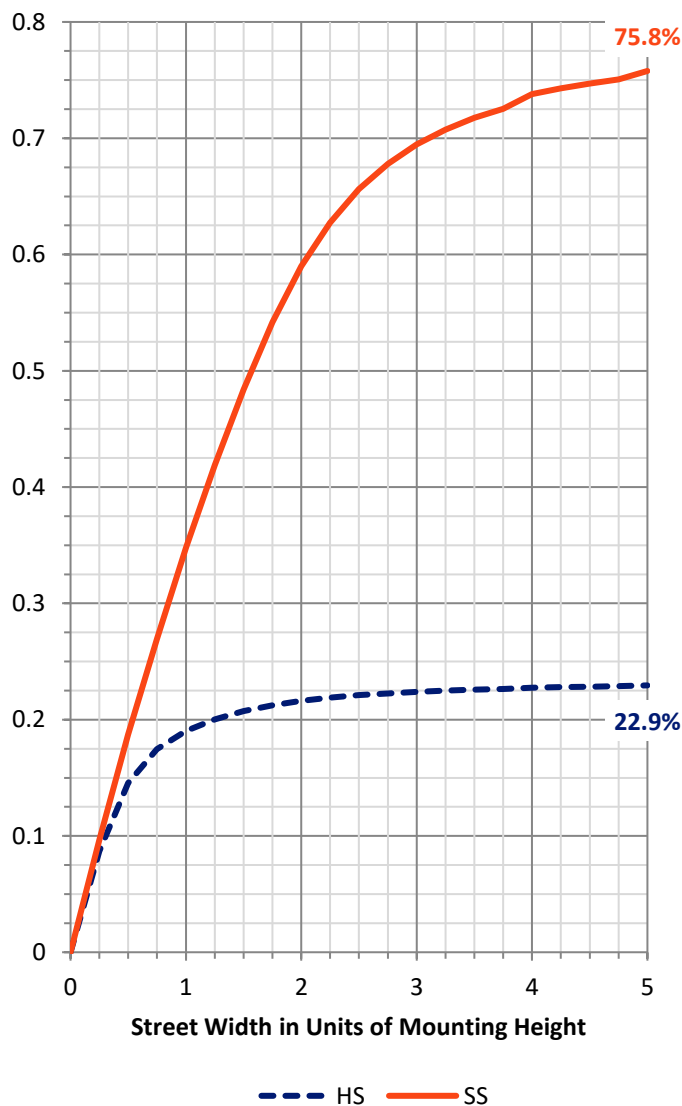
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5159.4	0.0	5159.4
	% Fixture	23.2	0.0	23.2
Street Side	Lumens	17076.6	0.0	17076.6
	% Fixture	76.8	0.0	76.8
Total	Lumens	22236.0	0.0	22236.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	239.7	1.1
10°-20°	739.2	3.3
20°-30°	1252.9	5.6
30°-40°	1920.0	8.6
40°-50°	3163.6	14.2
50°-60°	4521.7	20.3
60°-70°	5632.9	25.3
70°-80°	4014.1	18.1
80°-90°	751.9	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°	22236.0	100.0
0°-180°	22236.0	100.0



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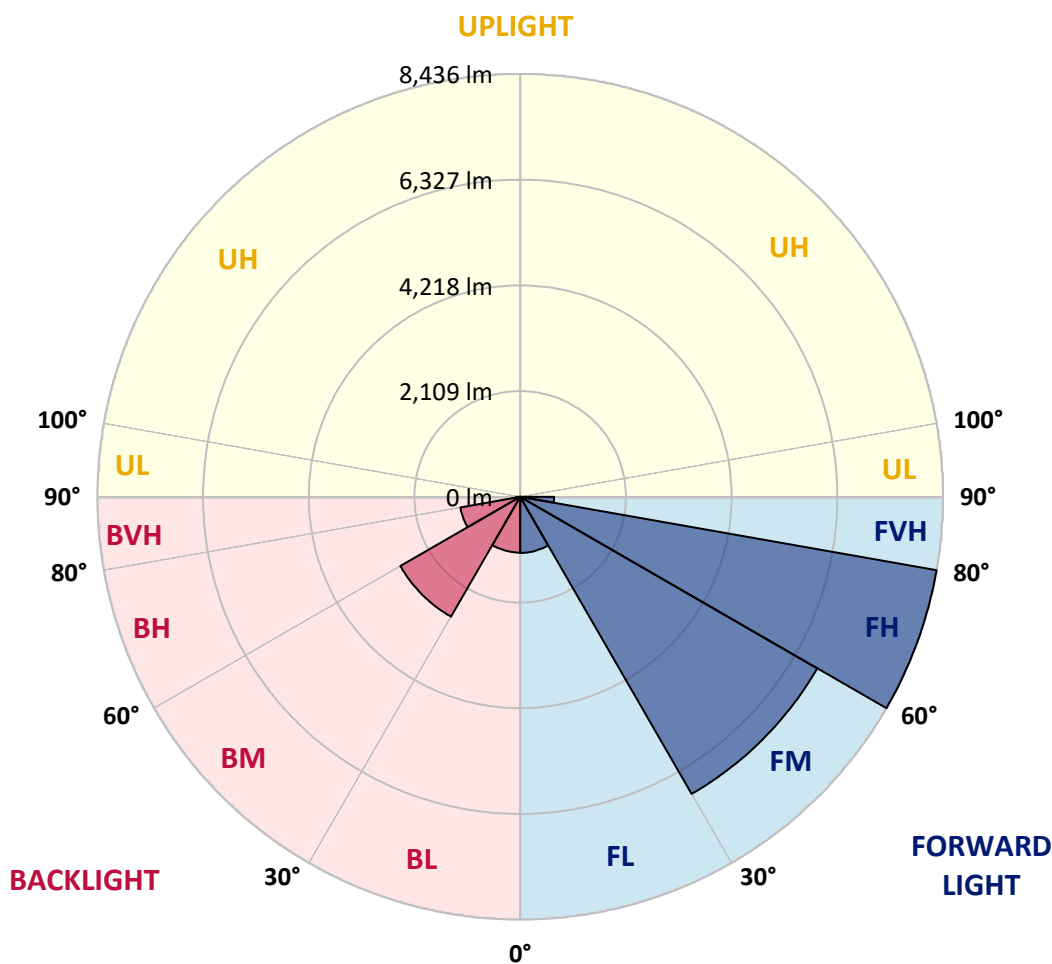
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1119.2	5.0			
FM (30°-60°)	6843.7	30.8			
FH (60°-80°)	8435.8	37.9			G4/12000
FVH (80°-90°)	677.8	3.0			G4/750
BL (0°-30°)	1112.5	5.0	B3/2500		
BM (30°-60°)	2761.6	12.4	B3/5000		
BH (60°-80°)	1211.1	5.4	B3/2500		G3/2500
BVH (80°-90°)	74.1	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°	2470.5	2470.5	2470.5	2470.5	2470.5	2470.5	2470.5	2470.5	2470.5	2470.5	2470.5
2.5°	2516.3	2526.6	2507.4	2504.4	2492.6	2477.9	2480.8	2469.0	2454.2	2460.1	2463.1
5°	2531.0	2531.0	2516.3	2501.5	2495.6	2492.6	2495.6	2482.3	2479.3	2489.7	2480.8
7.5°	2517.7	2526.6	2501.5	2501.5	2491.2	2508.9	2510.4	2494.1	2505.9	2505.9	2504.4
10°	2514.8	2517.7	2507.4	2486.7	2485.2	2495.6	2516.3	2522.2	2528.1	2526.6	2532.5
12.5°	2480.8	2477.9	2457.2	2463.1	2491.2	2501.5	2537.0	2553.2	2575.4	2581.3	2584.2
15°	2438.0	2449.8	2451.3	2469.0	2498.5	2514.8	2550.3	2582.8	2631.5	2643.3	2641.9
17.5°	2442.4	2446.8	2454.2	2464.6	2510.4	2517.7	2575.4	2610.8	2671.4	2712.8	2733.5
20°	2470.5	2461.6	2476.4	2503.0	2528.1	2534.0	2594.6	2649.2	2732.0	2786.7	2810.3
22.5°	2517.7	2519.2	2526.6	2526.6	2544.3	2570.9	2627.1	2669.9	2771.9	2848.7	2890.1
25°	2562.1	2565.0	2573.9	2570.9	2600.5	2612.3	2665.5	2730.5	2847.2	2937.4	3017.2
27.5°	2628.6	2637.4	2631.5	2633.0	2690.6	2702.4	2726.1	2813.3	2932.9	3054.1	3195.9
30°	2752.7	2752.7	2746.8	2752.7	2814.7	2844.3	2851.7	2937.4	3034.9	3181.2	3395.4
32.5°	2931.5	2932.9	2896.0	2925.6	2995.0	3046.7	3068.9	3204.8	3314.1	3385.1	3661.4
35°	3314.1	3297.9	3259.5	3173.8	3218.1	3281.6	3352.6	3525.4	3766.3	4030.8	4308.5
37.5°	3900.7	3899.3	3763.3	3591.9	3515.1	3547.6	3646.6	3905.2	4281.9	4942.4	5187.7
40°	4552.3	4568.6	4372.1	4157.8	3931.8	3934.7	3959.8	4283.4	4828.6	5783.1	5911.7
42.5°	5202.5	5175.9	4958.7	4753.3	4445.9	4426.7	4360.3	4666.1	5400.4	6455.4	6473.1
45°	5781.7	5768.4	5527.5	5319.2	5029.6	4955.7	4880.3	5075.4	5945.7	6999.2	6882.4
47.5°	6325.4	6343.1	6010.7	5823.0	5536.4	5499.4	5412.3	5536.4	6485.0	7426.2	7214.9
50°	6944.5	6951.9	6554.4	6322.4	6038.7	5991.5	5957.5	6115.6	7042.0	7834.0	7553.2
52.5°	7637.5	7492.7	7105.5	6786.4	6514.5	6479.1	6459.9	6625.3	7652.2	8191.5	7776.3
55°	8509.2	8315.7	7919.7	7390.7	6994.7	7000.6	6934.1	7127.7	8166.4	8438.3	7993.5
57.5°	8890.4	8934.7	8860.9	8379.2	7684.7	7599.0	7435.0	7584.3	8655.5	8727.9	8164.9
60°	9608.5	9779.9	9620.3	9351.4	9146.0	8921.5	8120.6	8176.8	9101.7	9048.5	8184.2
62.5°	9657.3	9716.4	10220.2	10263.1	10462.5	10537.9	9874.5	8849.1	9506.6	9209.6	8249.2
65°	9178.5	9245.0	9852.3	10385.7	11483.5	11587.0	11377.1	10079.9	9834.6	9296.7	8197.5
67.5°	7947.7	8002.4	8692.4	9806.5	11937.1	12086.4	11882.5	11403.7	9949.8	9267.2	7969.9
70°	6798.2	6829.2	7402.5	8961.3	11625.4	11801.2	11719.9	11454.0	9945.4	9092.8	7467.5
72.5°	5339.9	5430.0	5892.5	7432.1	10837.8	10985.6	11009.2	11145.2	9692.7	8519.6	6344.6
75°	3872.7	3921.4	4445.9	5774.3	9354.4	9707.5	10122.7	10635.4	8742.7	7232.6	4691.2
77.5°	2729.0	2776.3	3269.8	4378.0	7571.0	7972.9	8723.5	9024.9	7093.7	5421.1	2469.0
80°	1796.7	1790.8	2260.7	3240.3	5681.2	5963.4	6520.4	6117.1	4116.5	2356.7	268.9
82.5°	1055.0	1114.1	1448.0	2226.7	3970.2	4126.8	4112.0	3221.1	1634.2	243.8	137.4
85°	608.8	630.9	854.0	1319.5	2188.3	2210.4	1979.9	1250.0	404.8	109.3	81.3
87.5°	271.9	261.5	339.8	435.9	398.9	297.0	184.7	51.7	31.0	20.7	13.3
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°	2470.5	2470.5	2470.5	2470.5	2470.5	2470.5	2470.5	2470.5	2470.5	2470.5	2470.5
2.5°	2451.3	2443.9	2480.8	2460.1	2477.9	2467.5	2458.6	2470.5	2492.6	2511.8	2500.0
5°	2470.5	2474.9	2504.4	2479.3	2503.0	2498.5	2486.7	2500.0	2535.5	2553.2	2551.7
7.5°	2492.6	2495.6	2526.6	2516.3	2526.6	2517.7	2537.0	2528.1	2559.1	2570.9	2563.6
10°	2519.2	2523.7	2551.7	2553.2	2557.6	2551.7	2560.6	2565.0	2582.8	2606.4	2591.6
12.5°	2576.8	2587.2	2607.9	2630.0	2627.1	2603.4	2610.8	2587.2	2603.4	2610.8	2622.7
15°	2656.6	2681.8	2693.6	2724.6	2696.5	2683.2	2655.2	2607.9	2593.1	2585.7	2573.9
17.5°	2742.3	2766.0	2788.1	2828.0	2782.2	2746.8	2698.0	2609.4	2542.9	2519.2	2508.9
20°	2838.4	2860.5	2900.4	2927.0	2859.1	2782.2	2703.9	2573.9	2442.4	2352.3	2362.6
22.5°	2946.2	2995.0	3021.6	3014.2	2918.2	2813.3	2678.8	2480.8	2312.4	2177.9	2169.0
25°	3095.5	3123.5	3133.9	3065.9	2950.7	2791.1	2594.6	2370.0	2135.1	1984.4	1962.2
27.5°	3252.1	3281.6	3227.0	3099.9	2940.3	2739.4	2500.0	2180.9	1929.7	1784.9	1768.6
30°	3453.0	3445.6	3290.5	3089.6	2881.2	2615.3	2327.1	1987.3	1755.3	1620.9	1613.5
32.5°	3671.7	3617.0	3342.2	3039.3	2768.9	2452.7	2107.0	1804.1	1625.3	1490.8	1484.9
35°	4188.9	3937.7	3417.6	2975.8	2603.4	2228.1	1903.1	1666.7	1521.9	1369.7	1340.1
37.5°	4948.3	4543.5	3572.7	2910.8	2414.3	2006.5	1733.2	1564.7	1427.3	1264.8	1236.7
40°	5656.1	5159.6	3844.6	2862.0	2244.4	1827.7	1616.4	1493.8	1360.8	1198.3	1162.8
42.5°	6158.4	5638.3	4171.1	2782.2	2074.5	1685.9	1567.7	1467.2	1343.1	1192.4	1164.3
45°	6563.3	6052.0	4494.7	2692.1	1875.0	1564.7	1517.4	1445.0	1320.9	1174.7	1142.1
47.5°	6848.4	6312.1	4719.3	2590.1	1684.4	1490.8	1474.6	1409.6	1286.9	1149.5	1128.8
50°	7142.5	6603.2	4873.0	2485.2	1513.0	1434.7	1415.5	1329.8	1217.5	1094.9	1072.7
52.5°	7334.6	6745.0	4961.6	2464.6	1366.7	1357.9	1334.2	1253.0	1146.6	1013.6	987.0
55°	7480.8	6870.6	4948.3	2343.4	1235.2	1257.4	1242.6	1182.0	1089.0	958.9	941.2
57.5°	7516.3	6889.8	4827.2	1968.1	1111.1	1122.9	1130.3	1142.1	1052.0	944.2	914.6
60°	7618.3	6799.7	4612.9	1415.5	964.8	994.4	1053.5	1063.8	1001.8	879.1	861.4
62.5°	7553.2	6739.1	4147.5	997.3	861.4	922.0	978.1	978.1	892.4	778.7	766.8
65°	7439.5	6499.7	3244.7	786.1	806.7	868.8	920.5	885.1	811.2	704.8	697.4
67.5°	7149.9	5916.1	1937.1	707.7	768.3	827.4	864.4	811.2	741.7	636.8	625.0
70°	6318.0	4714.9	737.3	670.8	729.9	771.3	794.9	740.3	672.3	567.4	557.0
72.5°	5016.3	2949.2	468.4	625.0	681.2	718.1	732.9	669.3	561.5	441.8	430.0
75°	3018.6	842.2	406.3	540.8	599.9	663.4	638.3	555.6	474.3	370.9	363.5
77.5°	763.9	255.6	362.0	435.9	487.6	562.9	561.5	500.9	413.7	302.9	291.1
80°	183.2	178.8	294.0	322.1	367.9	431.4	425.5	416.7	328.0	209.8	172.9
82.5°	116.7	124.1	199.5	180.3	209.8	251.2	285.2	268.9	245.3	128.5	115.2
85°	78.3	99.0	97.5	68.0	94.6	141.8	184.7	168.4	138.9	79.8	70.9
87.5°	11.8	13.3	17.7	26.6	41.4	69.4	91.6	90.1	68.0	50.2	47.3
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)