

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: P1210905

Luminaire Tested: **ARCH4-110-727-U-T2RE**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1210905
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2510-578-1)
Test Lab: INNOVATION CENTER
Issue Date: 11/5/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-110-727-U-T2RE
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 920mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE II
ROADWAY ILLUMINANCE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17848 lumens
Efficiency: N/A
Efficacy: 158.5 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

Input Watts (W): 112.6
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

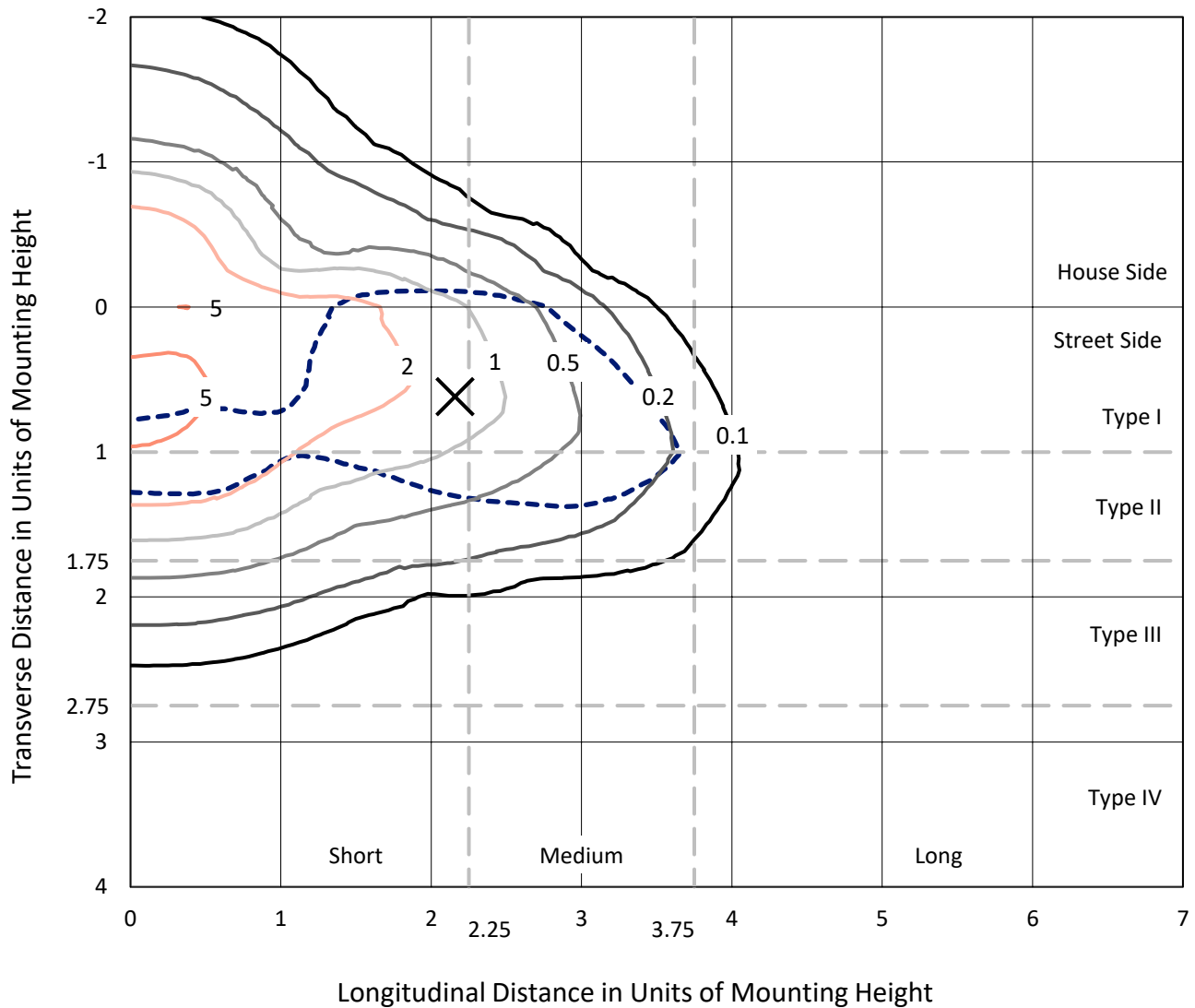


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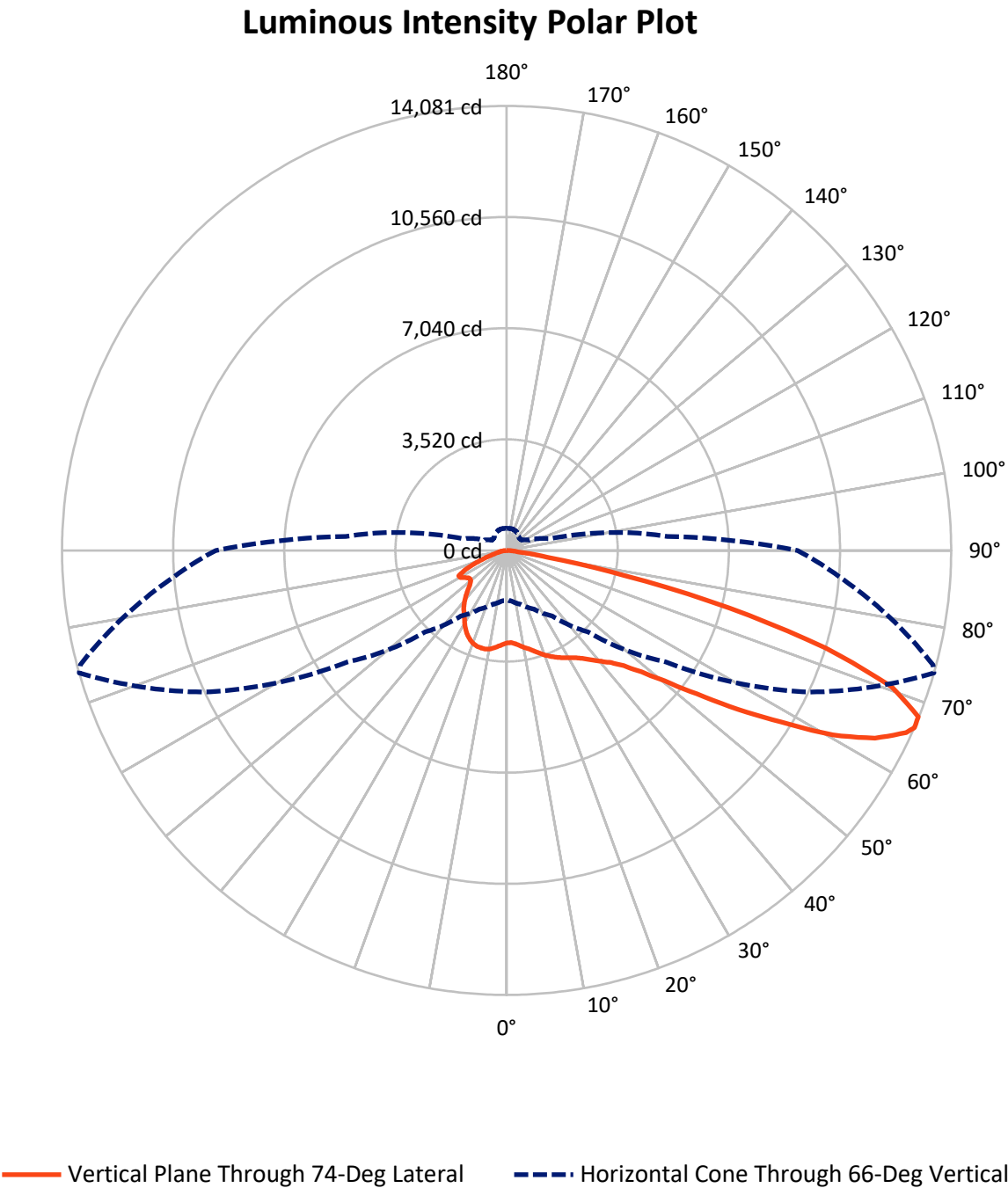
Iso-Footcandle Lines of Horizontal Illumination

× Max cd
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.6 fc
Type II - Short - N/A

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4346.5	0.0	4346.5
	% Fixture	24.4	0.0	24.4
Street Side	Lumens	13501.5	0.0	13501.5
	% Fixture	75.6	0.0	75.6
Total	Lumens	17848.0	0.0	17848.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	279.1	1.6
10°-20°	858.3	4.8
20°-30°	1610.6	9.0
30°-40°	2477.5	13.9
40°-50°	3332.4	18.7
50°-60°	3941.0	22.1
60°-70°	3645.6	20.4
70°-80°	1533.7	8.6
80°-90°	169.7	1.0
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°	17848.0	100.0
0°-180°	17848.0	100.0

Coefficient of Utilization



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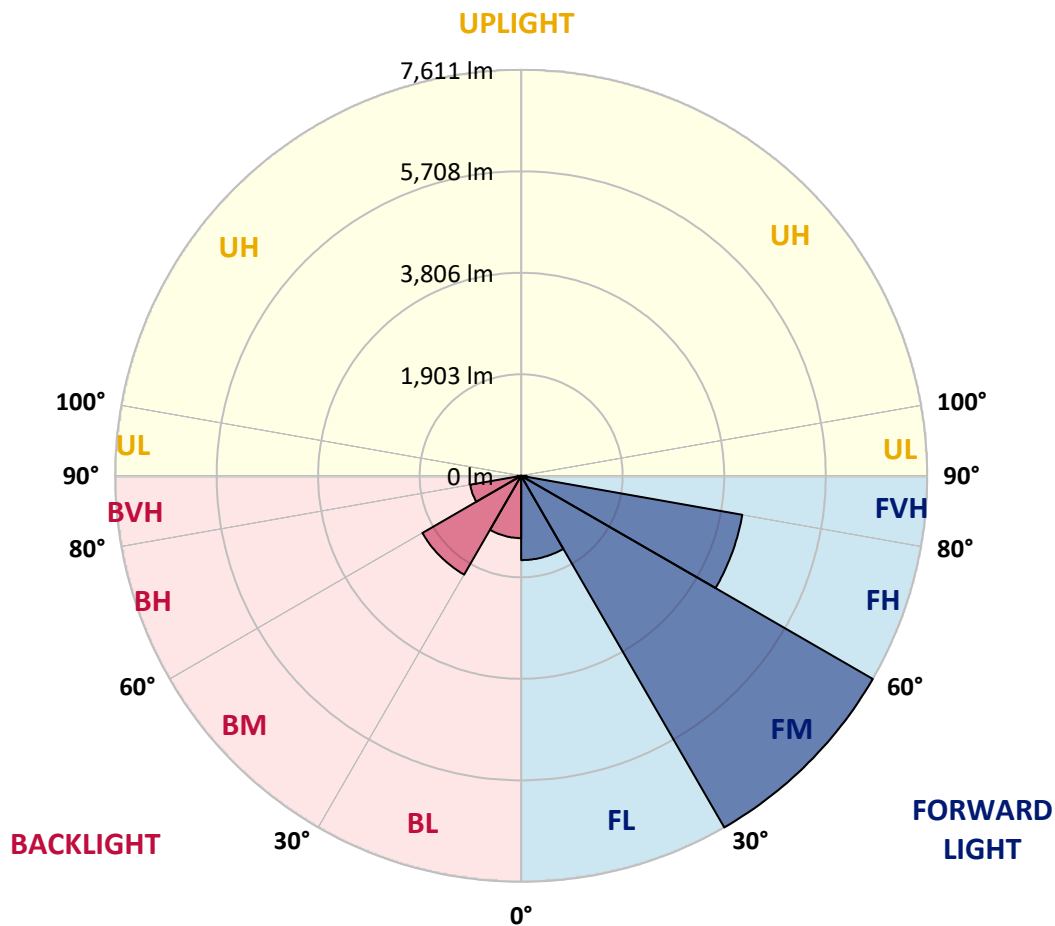
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1579.8	8.9			
FM	(30°-60°)	7611.2	42.6			
FH	(60°-80°)	4209.1	23.6			G2/5000
FVH	(80°-90°)	101.5	0.6			G2/225
BL	(0°-30°)	1168.2	6.5	B3/2500		
BM	(30°-60°)	2139.8	12.0	B2/2500		
BH	(60°-80°)	970.3	5.4	B2/1000		G2/1000
BVH	(80°-90°)	68.2	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-G2

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	2925.9	2925.9	2925.9	2925.9	2925.9	2925.9	2925.9	2925.9	2925.9	2925.9	2925.9
2.5°	2916.7	2912.1	2921.3	2935.1	2942.0	2930.5	2925.9	2923.6	2923.6	2916.7	2928.2
5°	2778.9	2776.6	2797.3	2822.5	2870.8	2905.2	2951.1	2978.7	2969.5	2955.7	2964.9
7.5°	2599.8	2595.2	2620.4	2668.7	2735.3	2811.1	2923.6	3010.9	3045.3	3040.7	3038.4
10°	2668.7	2664.1	2661.8	2648.0	2671.0	2744.4	2861.6	3015.4	3132.6	3134.9	3137.2
12.5°	2907.5	2919.0	2907.5	2863.9	2813.3	2785.8	2854.7	3026.9	3206.1	3219.8	3277.3
15°	3233.6	3222.1	3199.2	3148.7	3070.6	2987.9	2937.4	3079.8	3311.7	3323.2	3449.5
17.5°	3520.7	3529.9	3516.1	3467.9	3376.0	3268.1	3114.2	3171.6	3424.2	3456.4	3633.2
20°	3833.0	3869.8	3851.4	3791.7	3715.9	3555.2	3362.2	3304.8	3548.3	3571.2	3823.9
22.5°	4193.6	4232.7	4198.2	4140.8	4078.8	3881.3	3633.2	3467.9	3651.6	3699.8	4007.6
25°	4625.4	4662.1	4630.0	4540.4	4462.3	4221.2	3924.9	3651.6	3752.7	3805.5	4156.9
27.5°	4967.6	4995.1	5025.0	4972.2	4852.7	4602.4	4228.1	3842.2	3853.7	3908.8	4294.7
30°	5273.0	5341.9	5367.2	5374.1	5273.0	4992.8	4538.1	4039.7	3941.0	3998.4	4432.5
32.5°	5691.0	5794.3	5753.0	5794.3	5734.6	5360.3	4859.6	4244.1	4053.5	4106.3	4563.4
35°	6301.9	6384.6	6276.6	6244.5	6148.0	5732.3	5169.7	4455.4	4202.8	4260.2	4687.4
37.5°	6958.7	7052.9	6896.7	6768.1	6584.4	6099.8	5436.1	4733.3	4409.5	4455.4	4802.2
40°	7532.9	7611.0	7475.5	7305.5	6997.8	6423.6	5665.7	4928.5	4616.2	4673.6	4935.4
42.5°	8063.4	8113.9	7962.3	7799.3	7388.2	6715.3	5913.8	5135.2	4857.3	4912.4	5043.4
45°	8600.8	8639.8	8428.6	8196.6	7714.3	6981.7	6187.1	5424.6	5211.0	5284.5	5217.9
47.5°	8697.3	8708.7	8672.0	8515.8	7971.5	7236.6	6524.7	5812.7	5750.7	5831.1	5518.8
50°	8028.9	8132.3	8359.7	8513.5	8074.9	7450.2	6862.3	6368.5	6494.8	6598.2	6143.4
52.5°	6731.4	6830.1	7356.0	7939.4	7826.8	7498.4	7225.1	7073.6	7544.4	7668.4	6993.2
55°	5362.6	5449.9	6005.6	6846.2	7025.3	7278.0	7613.3	7973.8	8883.3	8966.0	7925.6
57.5°	4416.4	4464.6	4861.9	5670.3	5957.4	6572.9	7822.3	9044.0	10245.2	10371.5	8736.3
60°	3621.8	3674.6	3970.8	4636.9	5018.1	5564.7	7656.9	10100.5	11871.2	11871.2	9776.7
62.5°	2726.1	2772.0	3047.6	3568.9	4209.7	4710.3	7128.7	10801.0	13097.6	13042.4	10530.0
65°	1871.7	1908.5	2108.3	2455.1	3031.5	4014.5	6407.5	10810.1	13910.6	13837.1	10851.5
66°	1570.9	1603.0	1773.0	2053.2	2537.8	3642.4	6152.6	10614.9	14080.5	13977.2	10716.0
67.5°	1240.2	1263.1	1375.7	1541.0	1860.3	2948.8	5750.7	10061.4	14064.4	14002.4	10371.5
70°	886.5	902.6	985.2	1019.7	1100.1	1706.4	4568.0	8812.1	12936.8	12955.2	9016.5
72.5°	686.7	711.9	762.5	769.4	751.0	907.2	2772.0	7351.4	10582.8	10575.9	6692.3
75°	553.5	567.3	592.5	606.3	601.7	585.6	1173.6	5484.3	7284.8	7369.8	3748.1
77.5°	436.4	434.1	457.0	475.4	489.2	459.3	537.4	3215.3	3819.3	3711.3	1407.8
80°	321.5	321.5	353.7	360.6	381.2	385.8	358.3	1240.2	1311.4	1191.9	365.2
82.5°	211.3	211.3	245.7	250.3	271.0	300.9	259.5	372.1	362.9	344.5	165.4
85°	114.8	110.2	121.7	137.8	149.3	176.8	156.2	186.0	190.6	188.3	110.2
87.5°	23.0	20.7	32.2	36.7	41.3	55.1	50.5	75.8	105.6	103.3	48.2
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°	2925.9	2925.9	2925.9	2925.9	2925.9	2925.9	2925.9	2925.9	2925.9	2925.9	2925.9
2.5°	2944.3	2942.0	2967.2	2997.1	3031.5	3052.2	3061.4	3077.5	3066.0	3070.6	3084.3
5°	2987.9	2994.8	3031.5	3070.6	3086.6	3075.2	3049.9	3040.7	3020.0	3015.4	3010.9
7.5°	3052.2	3063.7	3100.4	3109.6	3061.4	2981.0	2923.6	2891.4	2857.0	2847.8	2843.2
10°	3157.8	3164.7	3173.9	3079.8	2960.3	2852.4	2781.2	2751.3	2728.4	2710.0	2714.6
12.5°	3291.0	3286.4	3215.3	3020.0	2850.1	2739.9	2691.6	2673.3	2657.2	2645.7	2643.4
15°	3458.7	3426.5	3222.1	2937.4	2746.7	2654.9	2620.4	2613.5	2595.2	2595.2	2592.9
17.5°	3628.6	3546.0	3217.6	2850.1	2648.0	2597.5	2576.8	2572.2	2567.6	2565.3	2572.2
20°	3798.6	3651.6	3180.8	2742.2	2579.1	2549.2	2544.6	2546.9	2542.3	2549.2	2544.6
22.5°	3947.9	3720.5	3111.9	2627.3	2530.9	2528.6	2517.1	2521.7	2537.8	2540.1	2546.9
25°	4062.7	3745.8	3010.9	2521.7	2496.4	2491.8	2505.6	2524.0	2537.8	2540.1	2551.5
27.5°	4156.9	3732.0	2884.5	2439.0	2436.7	2462.0	2503.3	2510.2	2512.5	2512.5	2503.3
30°	4228.1	3702.1	2723.8	2347.1	2358.6	2420.6	2459.7	2459.7	2441.3	2436.7	2450.5
32.5°	4244.1	3663.1	2549.2	2253.0	2271.3	2344.8	2393.1	2377.0	2356.3	2356.3	2365.5
35°	4257.9	3610.3	2409.1	2124.4	2151.9	2239.2	2285.1	2253.0	2230.0	2223.1	2220.8
37.5°	4253.3	3589.6	2282.8	1961.3	1998.1	2083.0	2112.9	2083.0	2048.6	2032.5	2053.2
40°	4257.9	3575.8	2124.4	1782.2	1818.9	1869.4	1908.5	1885.5	1853.4	1812.0	1832.7
42.5°	4285.5	3594.2	1949.8	1607.6	1607.6	1635.2	1701.8	1685.7	1607.6	1591.6	1609.9
45°	4432.5	3692.9	1775.3	1433.1	1407.8	1426.2	1495.1	1426.2	1378.0	1378.0	1394.0
47.5°	4788.4	3876.7	1621.4	1279.2	1219.5	1256.2	1274.6	1210.3	1173.6	1164.4	1180.5
50°	5514.2	4244.1	1529.5	1152.9	1079.4	1107.0	1095.5	1093.2	1056.4	1061.0	1070.2
52.5°	6616.5	4960.7	1502.0	1090.9	999.0	1005.9	994.4	999.0	992.1	1015.1	1022.0
55°	7817.7	5716.3	1536.4	1100.1	943.9	895.7	900.3	923.2	950.8	987.5	994.4
57.5°	8715.6	6095.2	1626.0	1162.1	875.0	801.5	813.0	856.6	909.5	939.3	955.4
60°	9383.9	6049.3	1756.9	1178.2	792.3	716.5	737.2	801.5	847.4	872.7	888.8
62.5°	9602.1	5762.2	1789.1	1061.0	684.4	636.2	686.7	753.3	774.0	801.5	813.0
65°	9423.0	5355.7	1554.8	861.2	601.7	576.4	649.9	700.5	728.0	741.8	744.1
66°	9211.7	5112.3	1428.5	783.1	571.9	558.1	636.2	677.5	705.1	702.8	705.1
67.5°	8747.8	4602.4	1224.1	672.9	528.2	530.5	613.2	640.8	649.9	643.1	643.1
70°	7170.0	3240.5	877.3	509.8	463.9	496.1	551.2	558.1	578.7	569.6	569.6
72.5°	4421.0	1591.6	587.9	390.4	413.4	463.9	461.6	484.6	532.8	546.6	555.8
75°	2172.6	645.3	388.1	330.7	369.8	388.1	383.5	440.9	509.8	569.6	590.2
77.5°	824.5	321.5	271.0	289.4	298.6	291.7	305.4	399.6	509.8	617.8	638.5
80°	254.9	222.8	213.6	238.8	225.1	213.6	229.7	330.7	431.8	468.5	468.5
82.5°	153.9	174.5	165.4	163.1	151.6	153.9	165.4	236.6	333.0	349.1	349.1
85°	107.9	114.8	94.2	89.6	87.3	85.0	85.0	137.8	197.5	195.2	202.1
87.5°	41.3	45.9	34.4	34.4	32.2	23.0	18.4	23.0	23.0	16.1	11.5
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)