

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: P1210909

Luminaire Tested: **ARCH4-110-730-U-T2RE**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1210909
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: ARCH4-110-730-U-T2RE
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 920mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE II
ROADWAY ILLUMINANCE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18495 lumens
Efficiency: N/A
Efficacy: 164.3 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

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

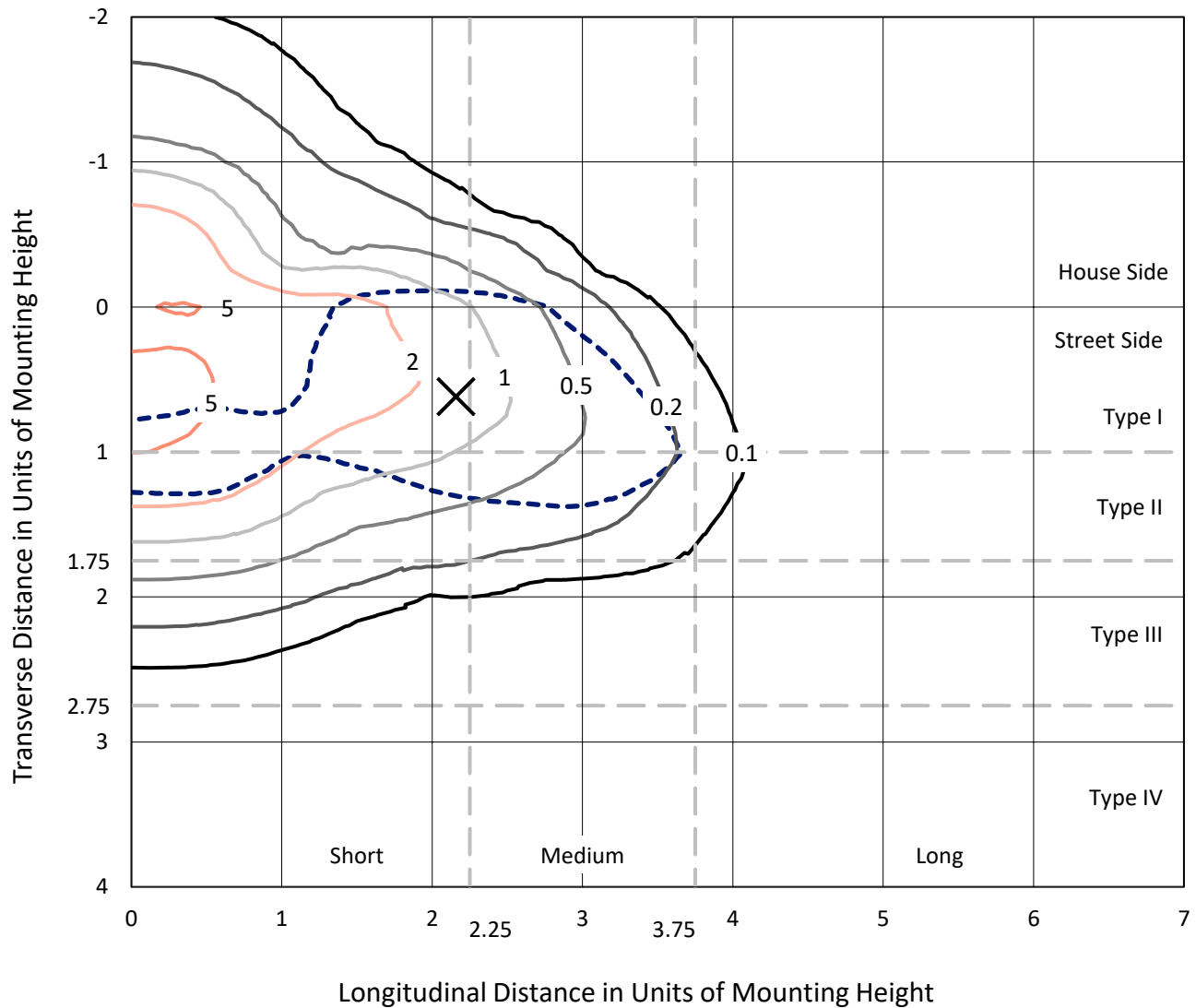


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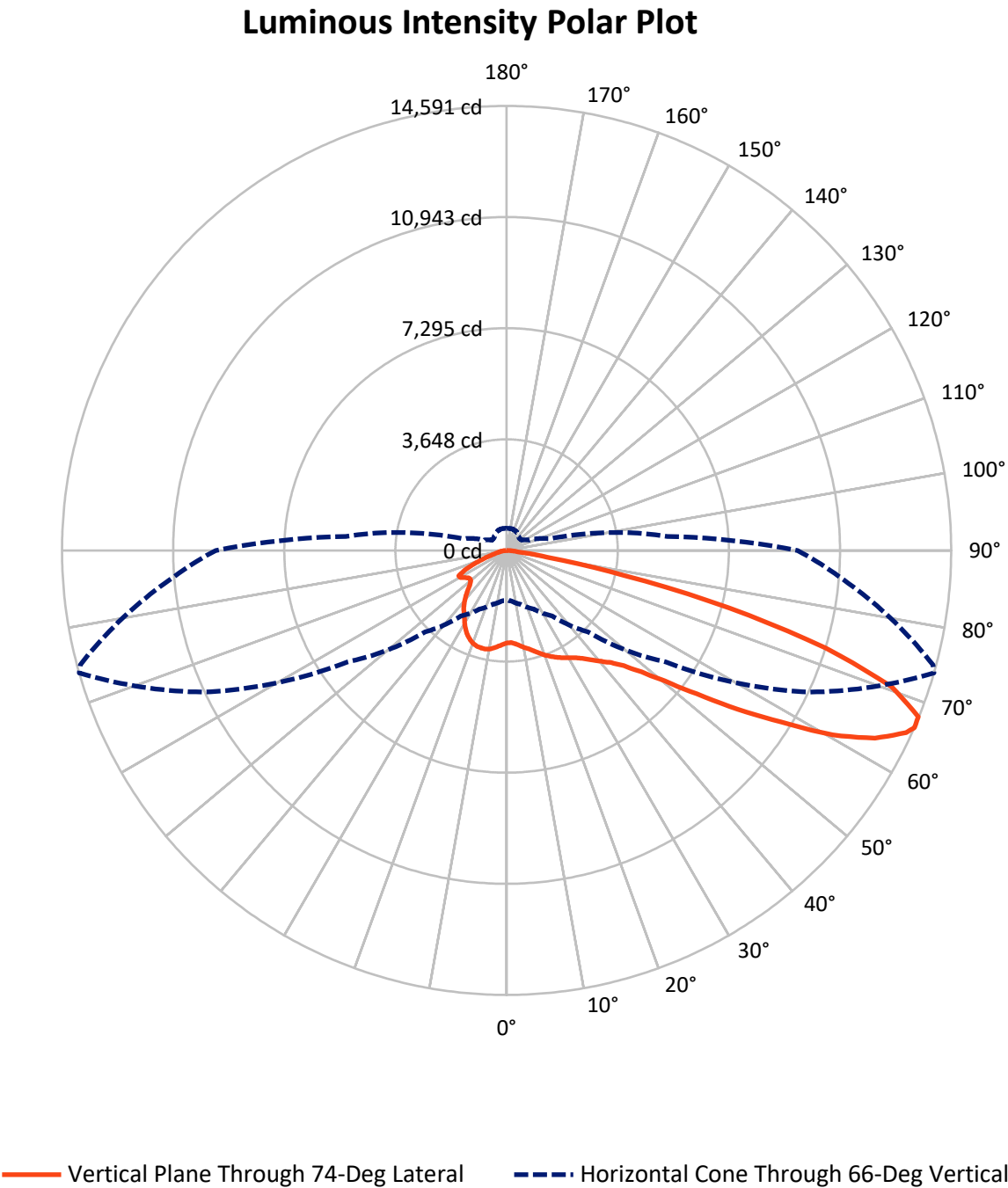
Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.8 fc
Type II - Short - N/A

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4504.0	0.0	4504.0
	% Fixture	24.4	0.0	24.4
Street Side	Lumens	13991.0	0.0	13991.0
	% Fixture	75.6	0.0	75.6
Total	Lumens	18495.0	0.0	18495.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	289.2	1.6
10°-20°	889.4	4.8
20°-30°	1669.0	9.0
30°-40°	2567.3	13.9
40°-50°	3453.2	18.7
50°-60°	4083.9	22.1
60°-70°	3777.8	20.4
70°-80°	1589.3	8.6
80°-90°	175.9	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°	18495.0	100.0
0°-180°	18495.0	100.0

Coefficient of Utilization



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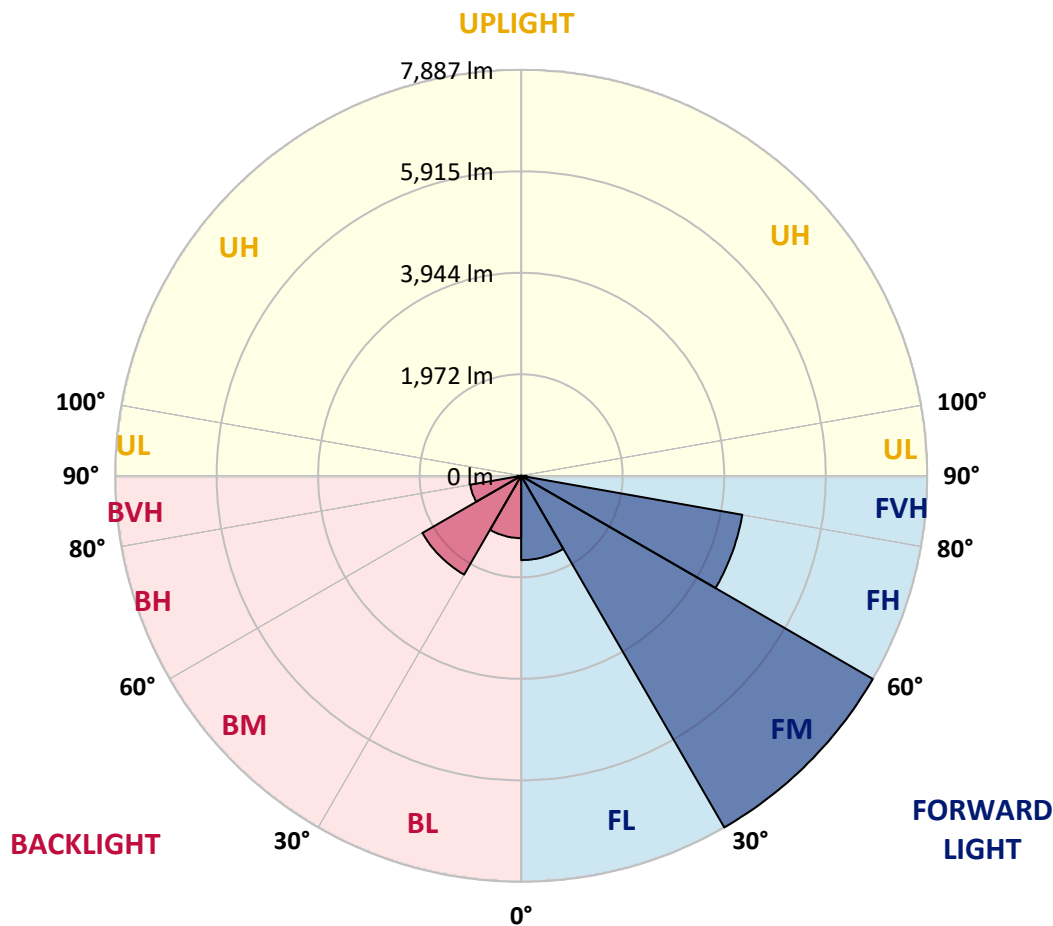
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1637.0	8.9			
FM	(30°-60°)	7887.1	42.6			
FH	(60°-80°)	4361.6	23.6			G2/5000
FVH	(80°-90°)	105.2	0.6			G2/225
BL	(0°-30°)	1210.6	6.5	B3/2500		
BM	(30°-60°)	2217.3	12.0	B2/2500		
BH	(60°-80°)	1005.5	5.4	B3/2500		G3/2500
BVH	(80°-90°)	70.7	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 II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	3031.9	3031.9	3031.9	3031.9	3031.9	3031.9	3031.9	3031.9	3031.9	3031.9	3031.9
2.5°	3022.4	3017.7	3027.2	3041.5	3048.6	3036.7	3031.9	3029.6	3029.6	3022.4	3034.3
5°	2879.6	2877.3	2898.7	2924.9	2974.8	3010.5	3058.1	3086.7	3077.2	3062.9	3072.4
7.5°	2694.0	2689.2	2715.4	2765.4	2834.4	2913.0	3029.6	3120.0	3155.7	3150.9	3148.6
10°	2765.4	2760.6	2758.3	2744.0	2767.8	2843.9	2965.3	3124.8	3246.1	3248.5	3250.9
12.5°	3012.9	3024.8	3012.9	2967.7	2915.3	2886.8	2958.2	3136.7	3322.3	3336.6	3396.1
15°	3350.8	3338.9	3315.1	3262.8	3181.9	3096.2	3043.8	3191.4	3431.8	3443.7	3574.6
17.5°	3648.3	3657.8	3643.6	3593.6	3498.4	3386.5	3227.1	3286.6	3548.4	3581.7	3764.9
20°	3972.0	4010.1	3991.0	3929.2	3850.6	3684.0	3484.1	3424.6	3676.9	3700.7	3962.5
22.5°	4345.6	4386.1	4350.4	4290.9	4226.6	4022.0	3764.9	3593.6	3784.0	3834.0	4152.9
25°	4793.0	4831.1	4797.8	4705.0	4624.1	4374.2	4067.2	3784.0	3888.7	3943.4	4307.6
27.5°	5147.6	5176.2	5207.1	5152.4	5028.7	4769.2	4381.3	3981.5	3993.4	4050.5	4450.3
30°	5464.2	5535.6	5561.7	5568.9	5464.2	5173.8	4702.6	4186.2	4083.8	4143.3	4593.1
32.5°	5897.3	6004.4	5961.6	6004.4	5942.5	5554.6	5035.8	4398.0	4200.5	4255.2	4728.8
35°	6530.3	6616.0	6504.2	6470.8	6370.9	5940.1	5357.1	4616.9	4355.1	4414.6	4857.3
37.5°	7211.0	7308.6	7146.7	7013.5	6823.1	6320.9	5633.1	4904.9	4569.3	4616.9	4976.3
40°	7806.0	7886.9	7746.5	7570.3	7251.4	6656.5	5871.1	5107.2	4783.5	4843.0	5114.3
42.5°	8355.7	8408.1	8251.0	8082.0	7656.0	6958.7	6128.1	5321.4	5033.4	5090.5	5226.2
45°	8912.6	8953.0	8734.1	8493.7	7994.0	7234.8	6411.4	5621.2	5399.9	5476.1	5407.0
47.5°	9012.5	9024.4	8986.4	8824.5	8260.5	7498.9	6761.2	6023.4	5959.2	6042.5	5718.8
50°	8320.0	8427.1	8662.7	8822.2	8367.6	7720.3	7111.0	6599.4	6730.3	6837.3	6366.1
52.5°	6975.4	7077.7	7622.7	8227.2	8110.6	7770.3	7487.0	7330.0	7817.8	7946.4	7246.7
55°	5557.0	5647.4	6223.3	7094.4	7280.0	7541.8	7889.2	8262.9	9205.3	9291.0	8212.9
57.5°	4576.5	4626.5	5038.2	5875.9	6173.4	6811.2	8105.8	9371.9	10616.6	10747.5	9053.0
60°	3753.0	3807.8	4114.8	4804.9	5200.0	5766.4	7934.5	10466.6	12301.5	12301.5	10131.1
62.5°	2824.9	2872.5	3158.1	3698.3	4362.3	4881.1	7387.1	11192.5	13572.4	13515.2	10911.7
65°	1939.6	1977.7	2184.7	2544.1	3141.4	4160.0	6639.8	11202.0	14414.8	14338.7	11244.9
66°	1627.8	1661.1	1837.3	2127.6	2629.7	3774.5	6375.7	10999.7	14590.9	14483.8	11104.4
67.5°	1285.1	1308.9	1425.5	1596.9	1927.7	3055.7	5959.2	10426.2	14574.3	14510.0	10747.5
70°	918.6	935.3	1021.0	1056.7	1140.0	1768.2	4733.5	9131.5	13405.8	13424.8	9343.3
72.5°	711.6	737.8	790.1	797.3	778.2	940.0	2872.5	7617.9	10966.4	10959.3	6934.9
75°	573.5	587.8	614.0	628.3	623.5	606.9	1216.1	5683.1	7548.9	7637.0	3883.9
77.5°	452.2	449.8	473.6	492.6	506.9	476.0	556.9	3331.8	3957.7	3845.9	1458.9
80°	333.2	333.2	366.5	373.6	395.1	399.8	371.3	1285.1	1358.9	1235.1	378.4
82.5°	218.9	218.9	254.6	259.4	280.8	311.8	268.9	385.5	376.0	357.0	171.4
85°	119.0	114.2	126.1	142.8	154.7	183.2	161.8	192.8	197.5	195.1	114.2
87.5°	23.8	21.4	33.3	38.1	42.8	57.1	52.4	78.5	109.5	107.1	50.0
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°	3031.9	3031.9	3031.9	3031.9	3031.9	3031.9	3031.9	3031.9	3031.9	3031.9	3031.9
2.5°	3051.0	3048.6	3074.8	3105.7	3141.4	3162.8	3172.4	3189.0	3177.1	3181.9	3196.2
5°	3096.2	3103.3	3141.4	3181.9	3198.5	3186.6	3160.5	3150.9	3129.5	3124.8	3120.0
7.5°	3162.8	3174.7	3212.8	3222.3	3172.4	3089.1	3029.6	2996.2	2960.5	2951.0	2946.3
10°	3272.3	3279.5	3289.0	3191.4	3067.6	2955.8	2882.0	2851.1	2827.3	2808.2	2813.0
12.5°	3410.3	3405.6	3331.8	3129.5	2953.4	2839.2	2789.2	2770.2	2753.5	2741.6	2739.2
15°	3584.1	3550.8	3338.9	3043.8	2846.3	2751.1	2715.4	2708.3	2689.2	2689.2	2686.9
17.5°	3760.2	3674.5	3334.2	2953.4	2744.0	2691.6	2670.2	2665.4	2660.7	2658.3	2665.4
20°	3936.3	3784.0	3296.1	2841.6	2672.6	2641.6	2636.9	2639.3	2634.5	2641.6	2636.9
22.5°	4091.0	3855.4	3224.7	2722.6	2622.6	2620.2	2608.3	2613.1	2629.7	2632.1	2639.3
25°	4210.0	3881.6	3120.0	2613.1	2586.9	2582.2	2596.4	2615.5	2629.7	2632.1	2644.0
27.5°	4307.6	3867.3	2989.1	2527.4	2525.0	2551.2	2594.1	2601.2	2603.6	2603.6	2594.1
30°	4381.3	3836.3	2822.5	2432.2	2444.1	2508.4	2548.8	2548.8	2529.8	2525.0	2539.3
32.5°	4398.0	3795.9	2641.6	2334.6	2353.7	2429.8	2479.8	2463.2	2441.7	2441.7	2451.3
35°	4412.3	3741.1	2496.5	2201.4	2229.9	2320.4	2368.0	2334.6	2310.8	2303.7	2301.3
37.5°	4407.5	3719.7	2365.6	2032.4	2070.5	2158.5	2189.5	2158.5	2122.8	2106.2	2127.6
40°	4412.3	3705.4	2201.4	1846.8	1884.9	1937.2	1977.7	1953.9	1920.5	1877.7	1899.1
42.5°	4440.8	3724.5	2020.5	1665.9	1665.9	1694.5	1763.5	1746.8	1665.9	1649.2	1668.3
45°	4593.1	3826.8	1839.6	1485.0	1458.9	1477.9	1549.3	1477.9	1427.9	1427.9	1444.6
47.5°	4962.0	4017.2	1680.2	1325.6	1263.7	1301.8	1320.8	1254.2	1216.1	1206.6	1223.2
50°	5714.1	4398.0	1585.0	1194.7	1118.5	1147.1	1135.2	1132.8	1094.7	1099.5	1109.0
52.5°	6856.4	5140.5	1556.4	1130.4	1035.2	1042.4	1030.5	1035.2	1028.1	1051.9	1059.0
55°	8101.1	5923.5	1592.1	1140.0	978.1	928.1	932.9	956.7	985.3	1023.3	1030.5
57.5°	9031.6	6316.2	1684.9	1204.2	906.7	830.6	842.5	887.7	942.4	973.4	990.0
60°	9724.1	6268.6	1820.6	1220.9	821.1	742.5	763.9	830.6	878.2	904.3	921.0
62.5°	9950.2	5971.1	1853.9	1099.5	709.2	659.2	711.6	780.6	802.0	830.6	842.5
65°	9764.6	5549.8	1611.2	892.4	623.5	597.3	673.5	725.9	754.4	768.7	771.1
66°	9545.6	5297.6	1480.3	811.5	592.6	578.3	659.2	702.1	730.6	728.2	730.6
67.5°	9064.9	4769.2	1268.5	697.3	547.4	549.7	635.4	664.0	673.5	666.4	666.4
70°	7429.9	3358.0	909.1	528.3	480.7	514.1	571.2	578.3	599.7	590.2	590.2
72.5°	4581.2	1649.2	609.2	404.6	428.4	480.7	478.4	502.2	552.1	566.4	575.9
75°	2251.4	668.7	402.2	342.7	383.2	402.2	397.4	456.9	528.3	590.2	611.6
77.5°	854.4	333.2	280.8	299.9	309.4	302.2	316.5	414.1	528.3	640.2	661.6
80°	264.2	230.8	221.3	247.5	233.2	221.3	238.0	342.7	447.4	485.5	485.5
82.5°	159.5	180.9	171.4	169.0	157.1	159.5	171.4	245.1	345.1	361.7	361.7
85°	111.9	119.0	97.6	92.8	90.4	88.1	88.1	142.8	204.7	202.3	209.4
87.5°	42.8	47.6	35.7	35.7	33.3	23.8	19.0	23.8	23.8	16.7	11.9
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)