

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: P1210397

Luminaire Tested: **ARCH3-110-730-U-T2RE**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1210397
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: ARCH3-110-730-U-T2RE
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 3000K, 880mA LIGHTSQUARE WITH 40 LEDS AND TYPE II ROADWAY
ILLUMINANCE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16514 lumens
Efficiency: N/A
Efficacy: 147.6 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

Input Watts (W): 111.9
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

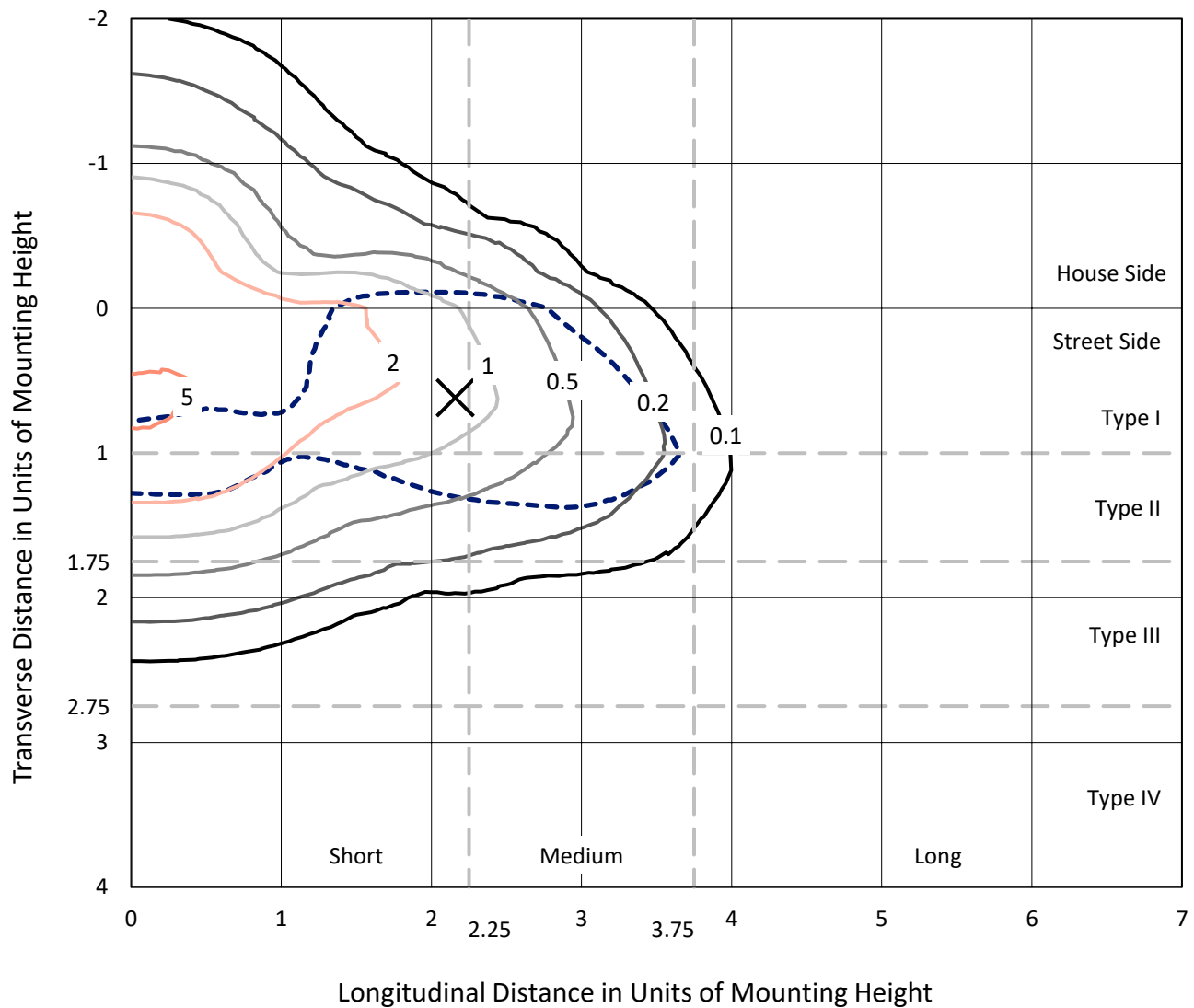


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Iso-Footcandle Lines of Horizontal Illumination

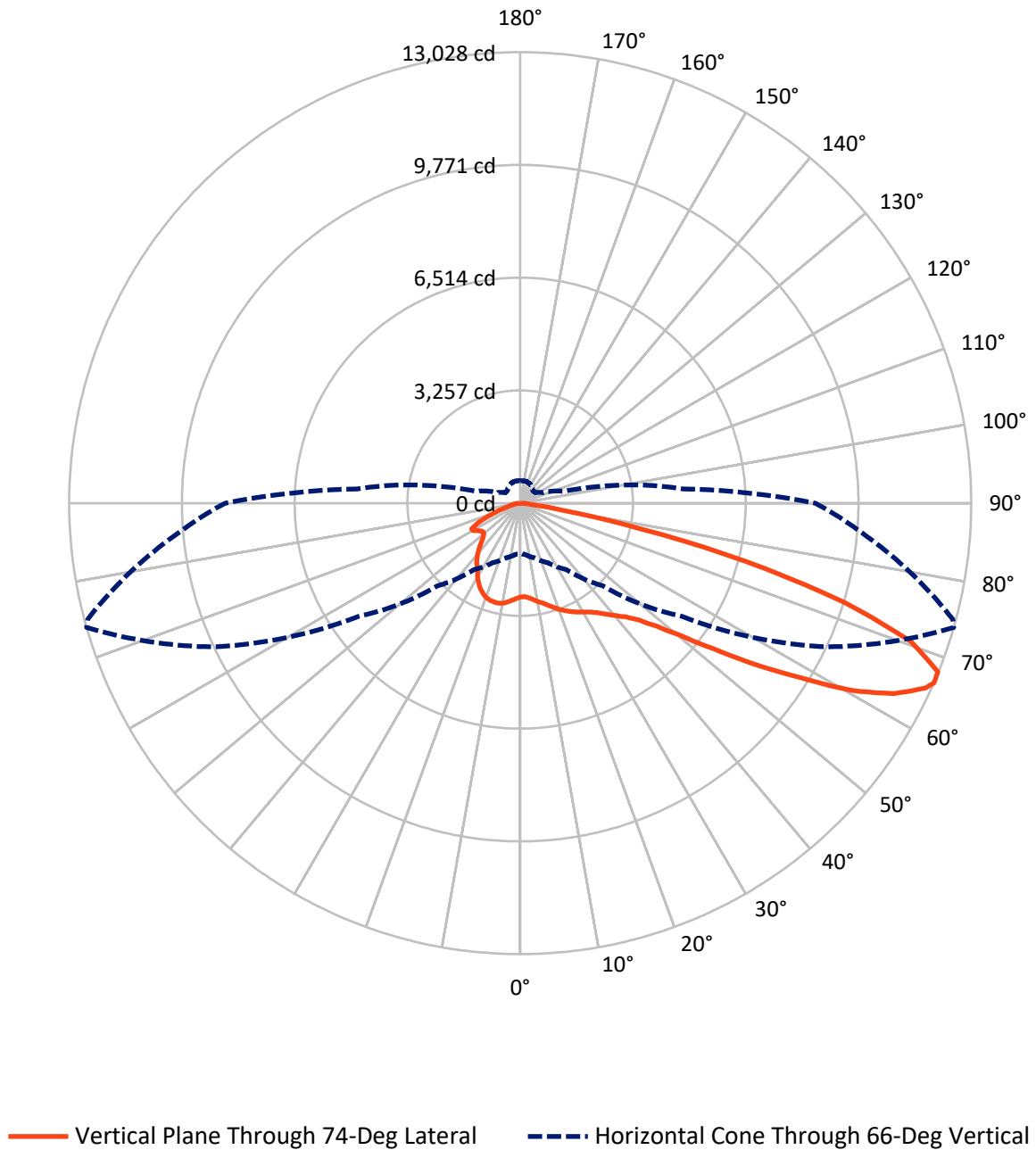
✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.2 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4021.6	0.0	4021.6
	% Fixture	24.4	0.0	24.4
Street Side	Lumens	12492.4	0.0	12492.4
	% Fixture	75.6	0.0	75.6
Total	Lumens	16514.0	0.0	16514.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	258.2	1.6
10°-20°	794.1	4.8
20°-30°	1490.2	9.0
30°-40°	2292.3	13.9
40°-50°	3083.4	18.7
50°-60°	3646.4	22.1
60°-70°	3373.2	20.4
70°-80°	1419.1	8.6
80°-90°	157.0	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°	16514.0	100.0
0°-180°	16514.0	100.0

Coefficient of Utilization



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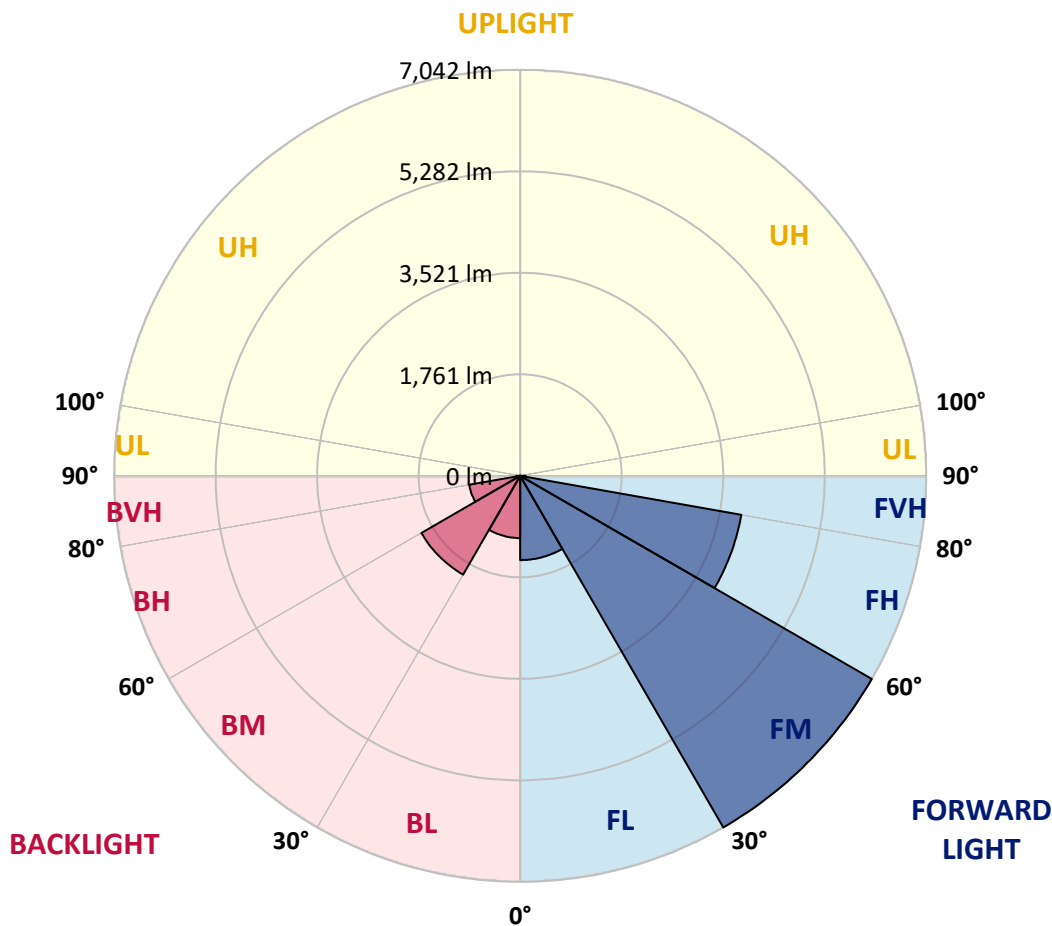
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1461.7	8.9			
FM	(30°-60°)	7042.3	42.6			
FH	(60°-80°)	3894.5	23.6			G2/5000
FVH	(80°-90°)	93.9	0.6			G1/100
BL	(0°-30°)	1080.9	6.5	B3/2500		
BM	(30°-60°)	1979.8	12.0	B2/2500		
BH	(60°-80°)	897.8	5.4	B2/1000		G2/1000
BVH	(80°-90°)	63.1	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°	2707.2	2707.2	2707.2	2707.2	2707.2	2707.2	2707.2	2707.2	2707.2	2707.2	2707.2
2.5°	2698.7	2694.4	2702.9	2715.7	2722.1	2711.4	2707.2	2705.1	2705.1	2698.7	2709.3
5°	2571.2	2569.1	2588.2	2611.6	2656.2	2688.1	2730.6	2756.1	2747.6	2734.8	2743.3
7.5°	2405.4	2401.2	2424.6	2469.2	2530.8	2600.9	2705.1	2785.8	2817.7	2813.4	2811.3
10°	2469.2	2464.9	2462.8	2450.1	2471.3	2539.3	2647.7	2790.1	2898.4	2900.6	2902.7
12.5°	2690.2	2700.8	2690.2	2649.8	2603.1	2577.6	2641.3	2800.7	2966.4	2979.2	3032.3
15°	2991.9	2981.3	2960.1	2913.3	2841.1	2764.6	2717.8	2849.6	3064.2	3074.8	3191.7
17.5°	3257.6	3266.1	3253.3	3208.7	3123.7	3023.8	2881.4	2934.6	3168.3	3198.1	3361.7
20°	3546.6	3580.6	3563.6	3508.3	3438.2	3289.4	3110.9	3057.8	3283.1	3304.3	3538.1
22.5°	3880.2	3916.3	3884.4	3831.3	3773.9	3591.2	3361.7	3208.7	3378.7	3423.3	3708.0
25°	4279.7	4313.7	4283.9	4201.0	4128.8	3905.7	3631.5	3378.7	3472.2	3521.1	3846.2
27.5°	4596.3	4621.8	4649.4	4600.5	4490.0	4258.4	3912.0	3555.1	3565.7	3616.7	3973.7
30°	4878.9	4942.6	4966.0	4972.4	4878.9	4619.7	4198.9	3737.8	3646.4	3699.5	4101.2
32.5°	5265.6	5361.3	5323.0	5361.3	5306.0	4959.6	4496.4	3926.9	3750.5	3799.4	4222.3
35°	5830.9	5907.4	5807.5	5777.8	5688.5	5303.9	4783.3	4122.4	3888.7	3941.8	4337.0
37.5°	6438.6	6525.7	6381.2	6262.2	6092.2	5643.9	5029.8	4379.5	4079.9	4122.4	4443.3
40°	6969.9	7042.1	6916.7	6759.5	6474.7	5943.5	5242.3	4560.2	4271.2	4324.3	4566.5
42.5°	7460.7	7507.5	7367.2	7216.3	6836.0	6213.4	5471.8	4751.4	4494.3	4545.3	4666.4
45°	7958.0	7994.1	7798.6	7584.0	7137.7	6459.9	5724.6	5019.1	4821.5	4889.5	4827.9
47.5°	8047.2	8057.8	8023.8	7879.3	7375.7	6695.7	6037.0	5378.3	5320.9	5395.3	5106.3
50°	7428.8	7524.5	7734.8	7877.2	7471.3	6893.4	6349.4	5892.5	6009.4	6105.0	5684.3
52.5°	6228.2	6319.6	6806.2	7346.0	7241.8	6938.0	6685.1	6544.9	6980.5	7095.2	6470.5
55°	4961.8	5042.5	5556.8	6334.5	6500.2	6734.0	7044.2	7377.8	8219.3	8295.8	7333.2
57.5°	4086.3	4130.9	4498.5	5246.5	5512.1	6081.6	7237.6	8368.1	9479.4	9596.3	8083.3
60°	3351.1	3399.9	3674.0	4290.3	4643.0	5148.8	7084.6	9345.6	10983.9	10983.9	9045.9
62.5°	2522.3	2564.8	2819.8	3302.2	3895.0	4358.3	6595.9	9993.7	12118.6	12067.6	9742.9
65°	1731.8	1765.8	1950.7	2271.6	2804.9	3714.4	5928.6	10002.2	12870.9	12802.9	10040.4
66°	1453.5	1483.2	1640.5	1899.7	2348.1	3370.2	5692.8	9821.5	13028.1	12932.5	9915.0
67.5°	1147.5	1168.7	1272.8	1425.8	1721.2	2728.4	5320.9	9309.4	13013.2	12955.9	9596.3
70°	820.2	835.1	911.6	943.5	1017.9	1578.8	4226.5	8153.5	11969.9	11986.9	8342.6
72.5°	635.4	658.7	705.5	711.9	694.9	839.4	2564.8	6802.0	9791.8	9785.4	6192.1
75°	512.1	524.9	548.2	561.0	556.7	541.9	1085.9	5074.4	6740.4	6819.0	3467.9
77.5°	403.7	401.6	422.9	439.9	452.6	425.0	497.2	2974.9	3533.8	3433.9	1302.6
80°	297.5	297.5	327.2	333.6	352.7	357.0	331.5	1147.5	1213.3	1102.9	337.9
82.5°	195.5	195.5	227.4	231.6	250.7	278.4	240.1	344.2	335.7	318.7	153.0
85°	106.2	102.0	112.6	127.5	138.1	163.6	144.5	172.1	176.4	174.2	102.0
87.5°	21.2	19.1	29.7	34.0	38.2	51.0	46.7	70.1	97.7	95.6	44.6
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°	2707.2	2707.2	2707.2	2707.2	2707.2	2707.2	2707.2	2707.2	2707.2	2707.2	2707.2
2.5°	2724.2	2722.1	2745.4	2773.1	2804.9	2824.1	2832.6	2847.4	2836.8	2841.1	2853.8
5°	2764.6	2770.9	2804.9	2841.1	2855.9	2845.3	2821.9	2813.4	2794.3	2790.1	2785.8
7.5°	2824.1	2834.7	2868.7	2877.2	2832.6	2758.2	2705.1	2675.3	2643.4	2634.9	2630.7
10°	2921.8	2928.2	2936.7	2849.6	2739.1	2639.2	2573.3	2545.7	2524.4	2507.4	2511.7
12.5°	3045.1	3040.8	2974.9	2794.3	2637.1	2535.1	2490.4	2473.4	2458.6	2447.9	2445.8
15°	3200.2	3170.4	2981.3	2717.8	2541.4	2456.4	2424.6	2418.2	2401.2	2401.2	2399.1
17.5°	3357.4	3280.9	2977.1	2637.1	2450.1	2403.3	2384.2	2380.0	2375.7	2373.6	2380.0
20°	3514.7	3378.7	2943.1	2537.2	2386.3	2358.7	2354.5	2356.6	2352.3	2358.7	2354.5
22.5°	3652.8	3442.4	2879.3	2430.9	2341.7	2339.6	2329.0	2333.2	2348.1	2350.2	2356.6
25°	3759.0	3465.8	2785.8	2333.2	2309.8	2305.6	2318.3	2335.3	2348.1	2350.2	2360.8
27.5°	3846.2	3453.1	2668.9	2256.7	2254.6	2278.0	2316.2	2322.6	2324.7	2324.7	2316.2
30°	3912.0	3425.4	2520.2	2171.7	2182.3	2239.7	2275.8	2275.8	2258.8	2254.6	2267.3
32.5°	3926.9	3389.3	2358.7	2084.6	2101.6	2169.6	2214.2	2199.3	2180.2	2180.2	2188.7
35°	3939.7	3340.4	2229.1	1965.6	1991.1	2071.8	2114.3	2084.6	2063.3	2057.0	2054.8
37.5°	3935.4	3321.3	2112.2	1814.7	1848.7	1927.3	1955.0	1927.3	1895.5	1880.6	1899.7
40°	3939.7	3308.6	1965.6	1649.0	1683.0	1729.7	1765.8	1744.6	1714.8	1676.6	1695.7
42.5°	3965.2	3325.6	1804.1	1487.5	1487.5	1513.0	1574.6	1559.7	1487.5	1472.6	1489.6
45°	4101.2	3416.9	1642.6	1326.0	1302.6	1319.6	1383.3	1319.6	1275.0	1275.0	1289.8
47.5°	4430.5	3586.9	1500.2	1183.6	1128.4	1162.4	1179.4	1119.9	1085.9	1077.4	1092.2
50°	5102.0	3926.9	1415.2	1066.7	998.7	1024.2	1013.6	1011.5	977.5	981.7	990.2
52.5°	6122.0	4589.9	1389.7	1009.4	924.4	930.7	920.1	924.4	918.0	939.2	945.6
55°	7233.3	5289.0	1421.6	1017.9	873.4	828.7	833.0	854.2	879.7	913.7	920.1
57.5°	8064.2	5639.6	1504.5	1075.2	809.6	741.6	752.2	792.6	841.5	869.1	884.0
60°	8682.6	5597.1	1625.6	1090.1	733.1	663.0	682.1	741.6	784.1	807.5	822.4
62.5°	8884.4	5331.5	1655.3	981.7	633.2	588.6	635.4	697.0	716.1	741.6	752.2
65°	8718.7	4955.4	1438.6	796.9	556.7	533.4	601.4	648.1	673.6	686.4	688.5
66°	8523.2	4730.2	1321.7	724.6	529.1	516.4	588.6	626.9	652.4	650.2	652.4
67.5°	8094.0	4258.4	1132.6	622.6	488.7	490.9	567.4	592.9	601.4	595.0	595.0
70°	6634.1	2998.3	811.7	471.7	429.2	459.0	510.0	516.4	535.5	527.0	527.0
72.5°	4090.5	1472.6	544.0	361.2	382.5	429.2	427.1	448.4	493.0	505.7	514.2
75°	2010.2	597.1	359.1	306.0	342.1	359.1	354.9	408.0	471.7	527.0	546.1
77.5°	762.9	297.5	250.7	267.7	276.2	269.9	282.6	369.7	471.7	571.6	590.7
80°	235.9	206.1	197.6	221.0	208.2	197.6	212.5	306.0	399.5	433.5	433.5
82.5°	142.4	161.5	153.0	150.9	140.2	142.4	153.0	218.9	308.1	323.0	323.0
85°	99.9	106.2	87.1	82.9	80.7	78.6	78.6	127.5	182.7	180.6	187.0
87.5°	38.2	42.5	31.9	31.9	29.7	21.2	17.0	21.2	21.2	14.9	10.6
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)