

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: P1210373

Luminaire Tested: **ARCH3-100-740-U-T2RE**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1210373
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: ARCH3-100-740-U-T2RE
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 4000K, 805mA LIGHTSQUARE WITH 40 LEDS AND TYPE II ROADWAY
ILLUMINANCE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16123 lumens
Efficiency: N/A
Efficacy: 157.1 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): 102.6
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



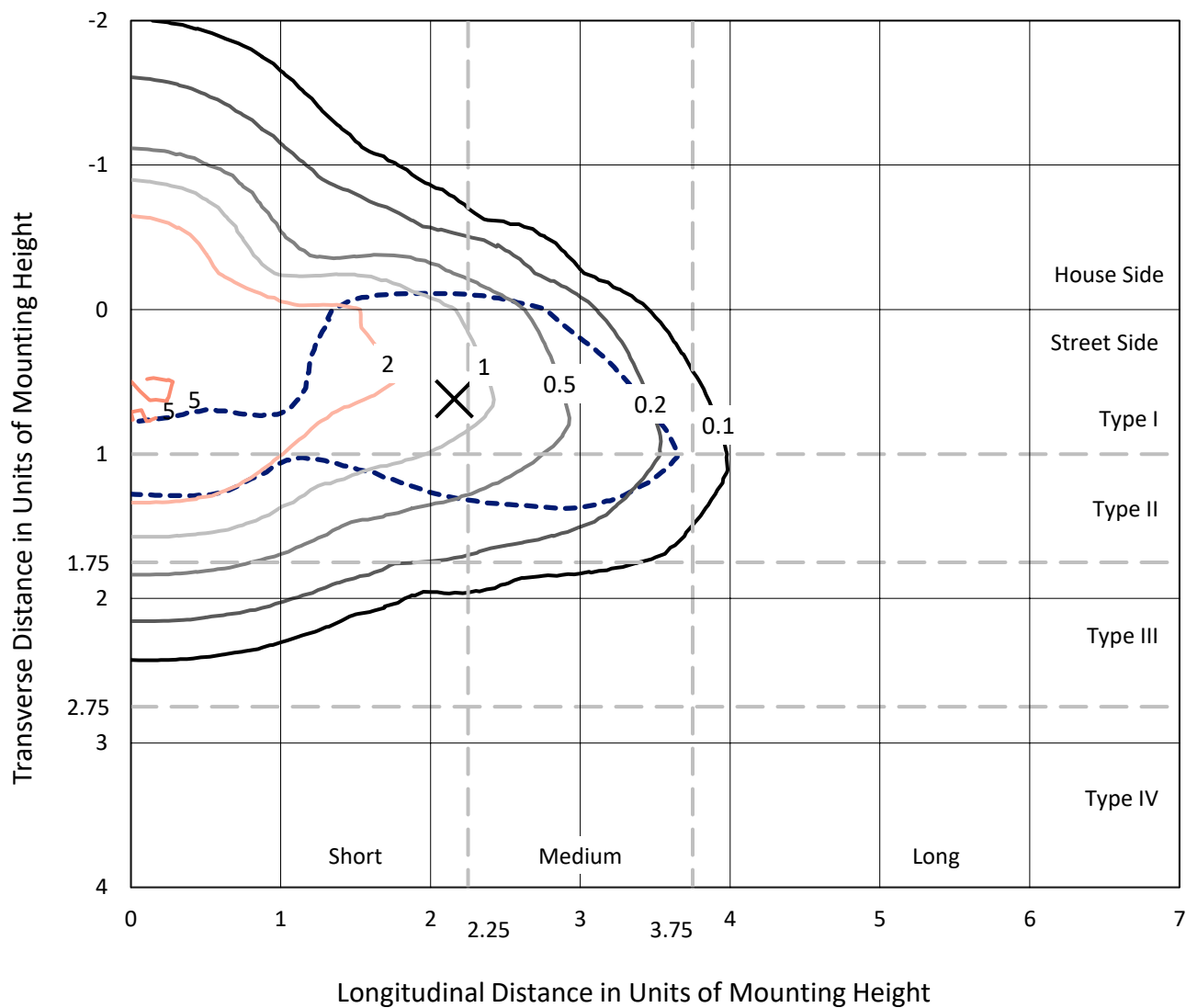
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

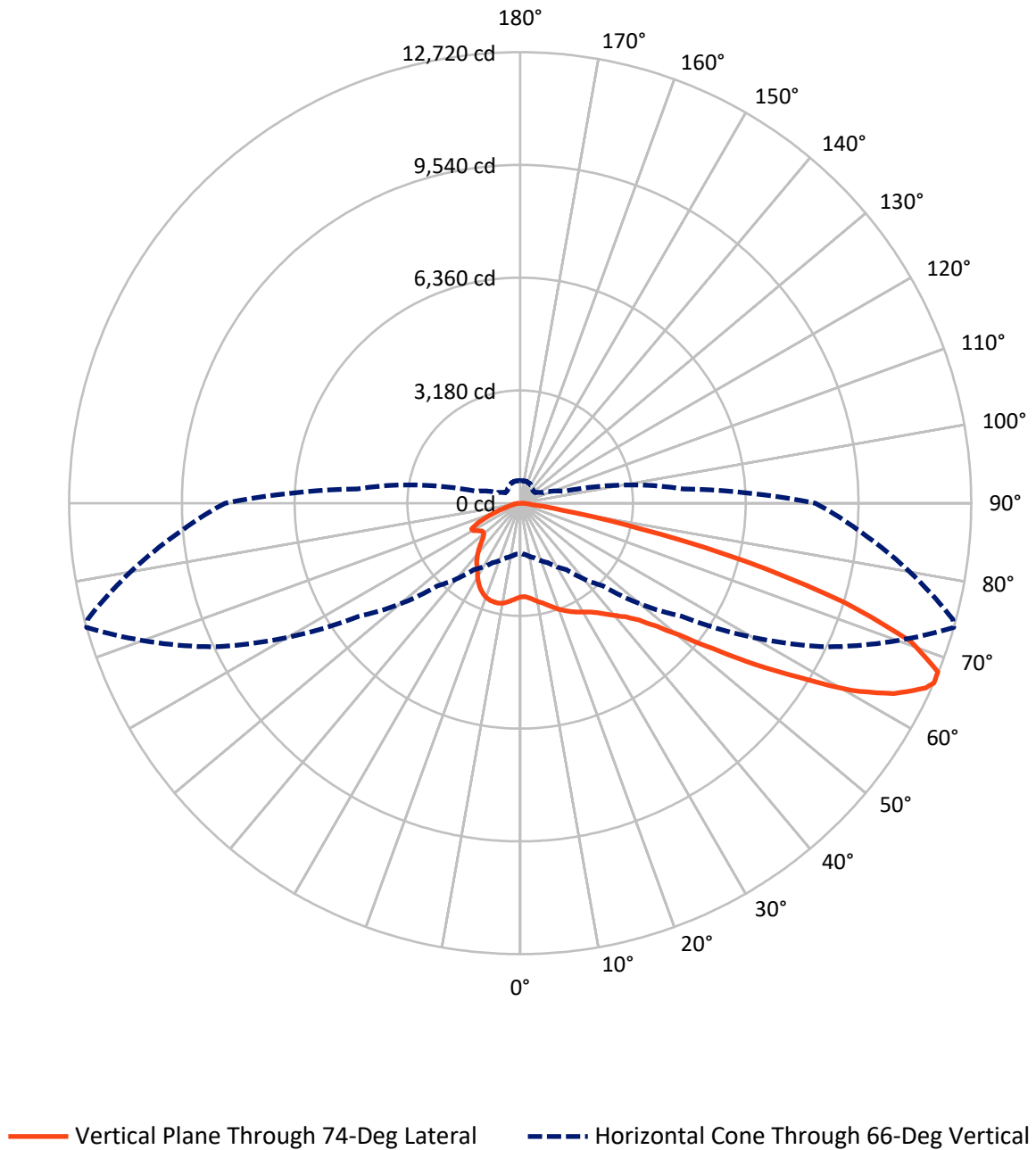
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.1 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	3926.4	0.0	3926.4
	% Fixture	24.4	0.0	24.4
Street Side	Lumens	12196.6	0.0	12196.6
	% Fixture	75.6	0.0	75.6
Total	Lumens	16123.0	0.0	16123.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	252.1	1.6
10°-20°	775.3	4.8
20°-30°	1454.9	9.0
30°-40°	2238.0	13.9
40°-50°	3010.4	18.7
50°-60°	3560.1	22.1
60°-70°	3293.3	20.4
70°-80°	1385.5	8.6
80°-90°	153.3	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°	16123.0	100.0
0°-180°	16123.0	100.0

Coefficient of Utilization



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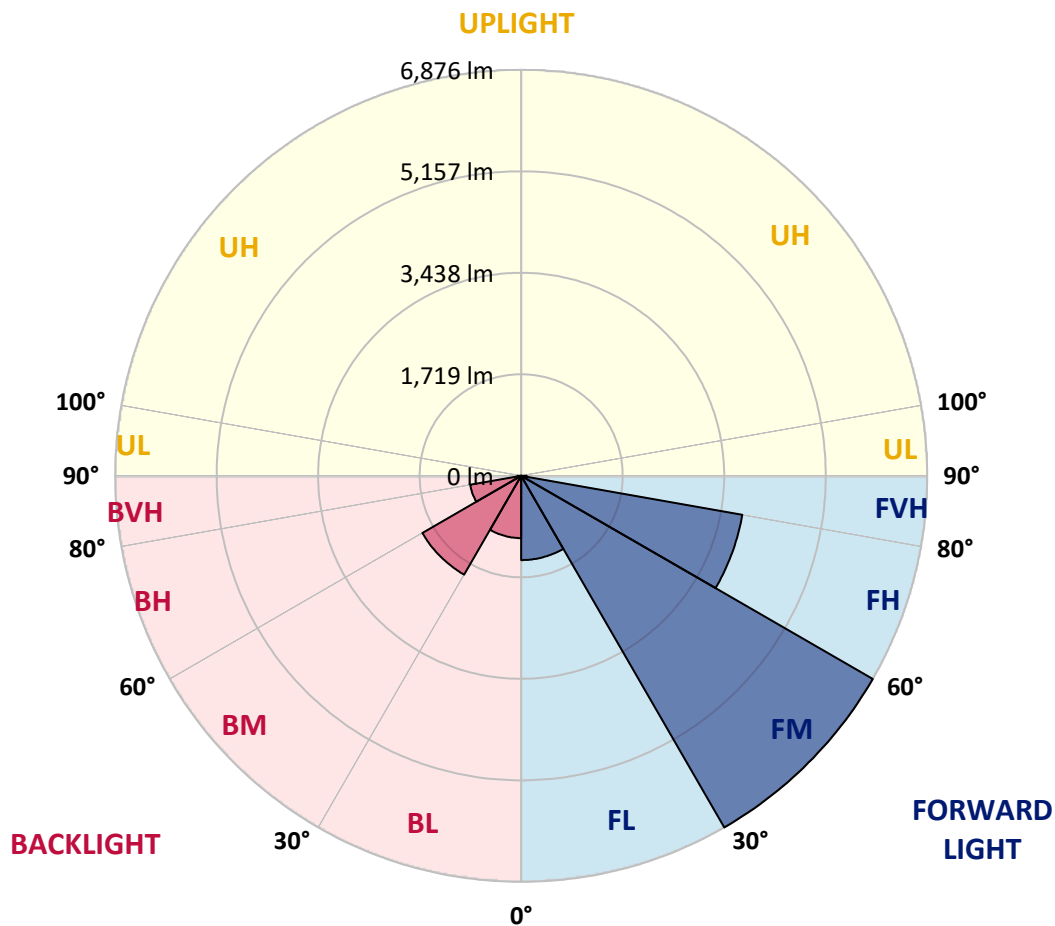
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1427.1	8.9			
FM	(30°-60°)	6875.5	42.6			
FH	(60°-80°)	3802.3	23.6			G2/5000
FVH	(80°-90°)	91.7	0.6			G1/100
BL	(0°-30°)	1055.3	6.5	B3/2500		
BM	(30°-60°)	1933.0	12.0	B2/2500		
BH	(60°-80°)	876.5	5.4	B2/1000		G2/1000
BVH	(80°-90°)	61.6	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°	2643.1	2643.1	2643.1	2643.1	2643.1	2643.1	2643.1	2643.1	2643.1	2643.1	2643.1
2.5°	2634.8	2630.6	2638.9	2651.4	2657.6	2647.2	2643.1	2641.0	2641.0	2634.8	2645.2
5°	2510.3	2508.2	2526.9	2549.7	2593.3	2624.4	2665.9	2690.8	2682.5	2670.1	2678.4
7.5°	2348.5	2344.3	2367.2	2410.7	2470.9	2539.4	2641.0	2719.9	2751.0	2746.8	2744.8
10°	2410.7	2406.6	2404.5	2392.1	2412.8	2479.2	2585.0	2724.0	2829.8	2831.9	2834.0
12.5°	2626.5	2636.9	2626.5	2587.1	2541.4	2516.5	2578.8	2734.4	2896.2	2908.7	2960.5
15°	2921.1	2910.7	2890.0	2844.3	2773.8	2699.1	2653.5	2782.1	2991.6	3002.0	3116.1
17.5°	3180.4	3188.7	3176.3	3132.7	3049.7	2952.2	2813.2	2865.1	3093.3	3122.3	3282.1
20°	3462.6	3495.8	3479.2	3425.2	3356.8	3211.5	3037.3	2985.4	3205.3	3226.1	3454.3
22.5°	3788.3	3823.6	3792.4	3740.6	3684.6	3506.1	3282.1	3132.7	3298.7	3342.3	3620.3
25°	4178.3	4211.5	4182.5	4101.6	4031.0	3813.2	3545.6	3298.7	3390.0	3437.7	3755.1
27.5°	4487.5	4512.3	4539.3	4491.6	4383.7	4157.6	3819.4	3470.9	3481.3	3531.0	3879.6
30°	4763.4	4825.6	4848.4	4854.7	4763.4	4510.3	4099.5	3649.3	3560.1	3612.0	4004.1
32.5°	5141.0	5234.3	5197.0	5234.3	5180.4	4842.2	4389.9	3833.9	3661.7	3709.5	4122.3
35°	5692.8	5767.5	5670.0	5641.0	5553.8	5178.3	4670.0	4024.8	3796.6	3848.5	4234.3
37.5°	6286.2	6371.2	6230.2	6114.0	5948.0	5510.3	4910.7	4275.8	3983.3	4024.8	4338.1
40°	6804.8	6875.4	6753.0	6599.4	6321.4	5802.8	5118.1	4452.2	4170.0	4221.9	4458.4
42.5°	7284.1	7329.7	7192.8	7045.5	6674.1	6066.3	5342.2	4638.9	4387.9	4437.7	4555.9
45°	7769.5	7804.8	7613.9	7404.4	6968.7	6306.9	5589.1	4900.3	4707.4	4773.8	4713.6
47.5°	7856.7	7867.0	7833.9	7692.8	7201.1	6537.2	5894.1	5250.9	5194.9	5267.5	4985.4
50°	7253.0	7346.3	7551.7	7690.7	7294.4	6730.1	6199.0	5753.0	5867.1	5960.5	5549.7
52.5°	6080.8	6170.0	6645.1	7172.0	7070.4	6773.7	6526.8	6389.9	6815.2	6927.2	6317.3
55°	4844.3	4923.1	5425.2	6184.5	6346.3	6574.5	6877.4	7203.2	8024.7	8099.4	7159.6
57.5°	3989.5	4033.1	4392.0	5122.3	5381.6	5937.6	7066.2	8169.9	9255.0	9369.1	7891.9
60°	3271.7	3319.4	3587.1	4188.7	4533.1	5026.9	6916.9	9124.3	10723.8	10723.8	8831.8
62.5°	2462.6	2504.1	2753.1	3224.0	3802.8	4255.1	6439.7	9757.0	11831.7	11781.9	9512.2
65°	1690.8	1724.0	1904.5	2217.8	2738.5	3626.5	5788.3	9765.3	12566.1	12499.7	9802.7
66°	1419.1	1448.1	1601.6	1854.7	2292.5	3290.4	5558.0	9589.0	12719.6	12626.3	9680.3
67.5°	1120.3	1141.1	1242.7	1392.1	1680.5	2663.8	5194.9	9089.0	12705.1	12649.1	9369.1
70°	800.8	815.3	890.0	921.1	993.8	1541.5	4126.5	7960.4	11686.5	11703.1	8145.1
72.5°	620.3	643.1	688.8	695.0	678.4	819.5	2504.1	6640.9	9560.0	9553.7	6045.5
75°	500.0	512.4	535.3	547.7	543.6	529.0	1060.1	4954.2	6580.8	6657.5	3385.8
77.5°	394.2	392.1	412.9	429.5	441.9	414.9	485.5	2904.5	3450.1	3352.6	1271.8
80°	290.5	290.5	319.5	325.7	344.4	348.5	323.6	1120.3	1184.6	1076.7	329.9
82.5°	190.9	190.9	222.0	226.1	244.8	271.8	234.4	336.1	327.8	311.2	149.4
85°	103.7	99.6	110.0	124.5	134.9	159.7	141.1	168.0	172.2	170.1	99.6
87.5°	20.7	18.7	29.0	33.2	37.3	49.8	45.6	68.5	95.4	93.4	43.6
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°	2643.1	2643.1	2643.1	2643.1	2643.1	2643.1	2643.1	2643.1	2643.1	2643.1	2643.1
2.5°	2659.7	2657.6	2680.4	2707.4	2738.5	2757.2	2765.5	2780.0	2769.6	2773.8	2786.2
5°	2699.1	2705.3	2738.5	2773.8	2788.3	2777.9	2755.1	2746.8	2728.2	2724.0	2719.9
7.5°	2757.2	2767.6	2800.8	2809.1	2765.5	2692.9	2641.0	2612.0	2580.9	2572.6	2568.4
10°	2852.6	2858.9	2867.2	2782.1	2674.2	2576.7	2512.4	2485.4	2464.7	2448.1	2452.2
12.5°	2973.0	2968.8	2904.5	2728.2	2574.6	2475.0	2431.5	2414.9	2400.4	2390.0	2387.9
15°	3124.4	3095.4	2910.7	2653.5	2481.3	2398.3	2367.2	2360.9	2344.3	2344.3	2342.3
17.5°	3277.9	3203.2	2906.6	2574.6	2392.1	2346.4	2327.7	2323.6	2319.5	2317.4	2323.6
20°	3431.5	3298.7	2873.4	2477.1	2329.8	2302.9	2298.7	2300.8	2296.6	2302.9	2298.7
22.5°	3566.3	3360.9	2811.1	2373.4	2286.3	2284.2	2273.8	2278.0	2292.5	2294.6	2300.8
25°	3670.0	3383.7	2719.9	2278.0	2255.1	2251.0	2263.4	2280.0	2292.5	2294.6	2304.9
27.5°	3755.1	3371.3	2605.8	2203.3	2201.2	2224.0	2261.4	2267.6	2269.7	2269.7	2261.4
30°	3819.4	3344.3	2460.5	2120.3	2130.7	2186.7	2221.9	2221.9	2205.3	2201.2	2213.6
32.5°	3833.9	3309.1	2302.9	2035.2	2051.8	2118.2	2161.8	2147.3	2128.6	2128.6	2136.9
35°	3846.4	3261.3	2176.3	1919.0	1943.9	2022.8	2064.3	2035.2	2014.5	2008.3	2006.2
37.5°	3842.2	3242.7	2062.2	1771.7	1804.9	1881.7	1908.7	1881.7	1850.6	1836.1	1854.7
40°	3846.4	3230.2	1919.0	1609.9	1643.1	1688.8	1724.0	1703.3	1674.2	1636.9	1655.6
42.5°	3871.3	3246.8	1761.4	1452.3	1452.3	1477.1	1537.3	1522.8	1452.3	1437.7	1454.3
45°	4004.1	3336.0	1603.7	1294.6	1271.8	1288.4	1350.6	1288.4	1244.8	1244.8	1259.3
47.5°	4325.6	3502.0	1464.7	1155.6	1101.6	1134.8	1151.4	1093.3	1060.1	1051.8	1066.4
50°	4981.2	3833.9	1381.7	1041.5	975.1	1000.0	989.6	987.5	954.3	958.5	966.8
52.5°	5977.0	4481.2	1356.8	985.5	902.5	908.7	898.3	902.5	896.2	917.0	923.2
55°	7062.1	5163.8	1387.9	993.8	852.7	809.1	813.3	834.0	858.9	892.1	898.3
57.5°	7873.3	5506.1	1468.8	1049.8	790.4	724.1	734.4	773.8	821.6	848.5	863.1
60°	8477.0	5464.6	1587.1	1064.3	715.8	647.3	666.0	724.1	765.5	788.4	802.9
62.5°	8674.1	5205.3	1616.1	958.5	618.2	574.7	620.3	680.5	699.2	724.1	734.4
65°	8512.3	4838.1	1404.5	778.0	543.6	520.7	587.1	632.8	657.7	670.1	672.2
66°	8321.4	4618.2	1290.4	707.5	516.6	504.1	574.7	612.0	636.9	634.8	636.9
67.5°	7902.3	4157.6	1105.8	607.9	477.2	479.2	553.9	578.8	587.1	580.9	580.9
70°	6477.0	2927.3	792.5	460.6	419.1	448.1	497.9	504.1	522.8	514.5	514.5
72.5°	3993.7	1437.7	531.1	352.7	373.4	419.1	417.0	437.7	481.3	493.8	502.1
75°	1962.6	583.0	350.6	298.7	334.0	350.6	346.5	398.3	460.6	514.5	533.2
77.5°	744.8	290.5	244.8	261.4	269.7	263.5	275.9	361.0	460.6	558.1	576.8
80°	230.3	201.2	192.9	215.8	203.3	192.9	207.5	298.7	390.0	423.2	423.2
82.5°	139.0	157.7	149.4	147.3	136.9	139.0	149.4	213.7	300.8	315.3	315.3
85°	97.5	103.7	85.1	80.9	78.8	76.8	76.8	124.5	178.4	176.3	182.6
87.5°	37.3	41.5	31.1	31.1	29.0	20.7	16.6	20.7	20.7	14.5	10.4
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)