

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: P1211685

Luminaire Tested: **ARCH4-80-740-U-T2RE**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1211685
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: ARCH4-80-740-U-T2RE
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 4000K, 685mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE II
ROADWAY ILLUMINANCE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14690 lumens
Efficiency: N/A
Efficacy: 176.1 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

Input Watts (W): 83.4
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

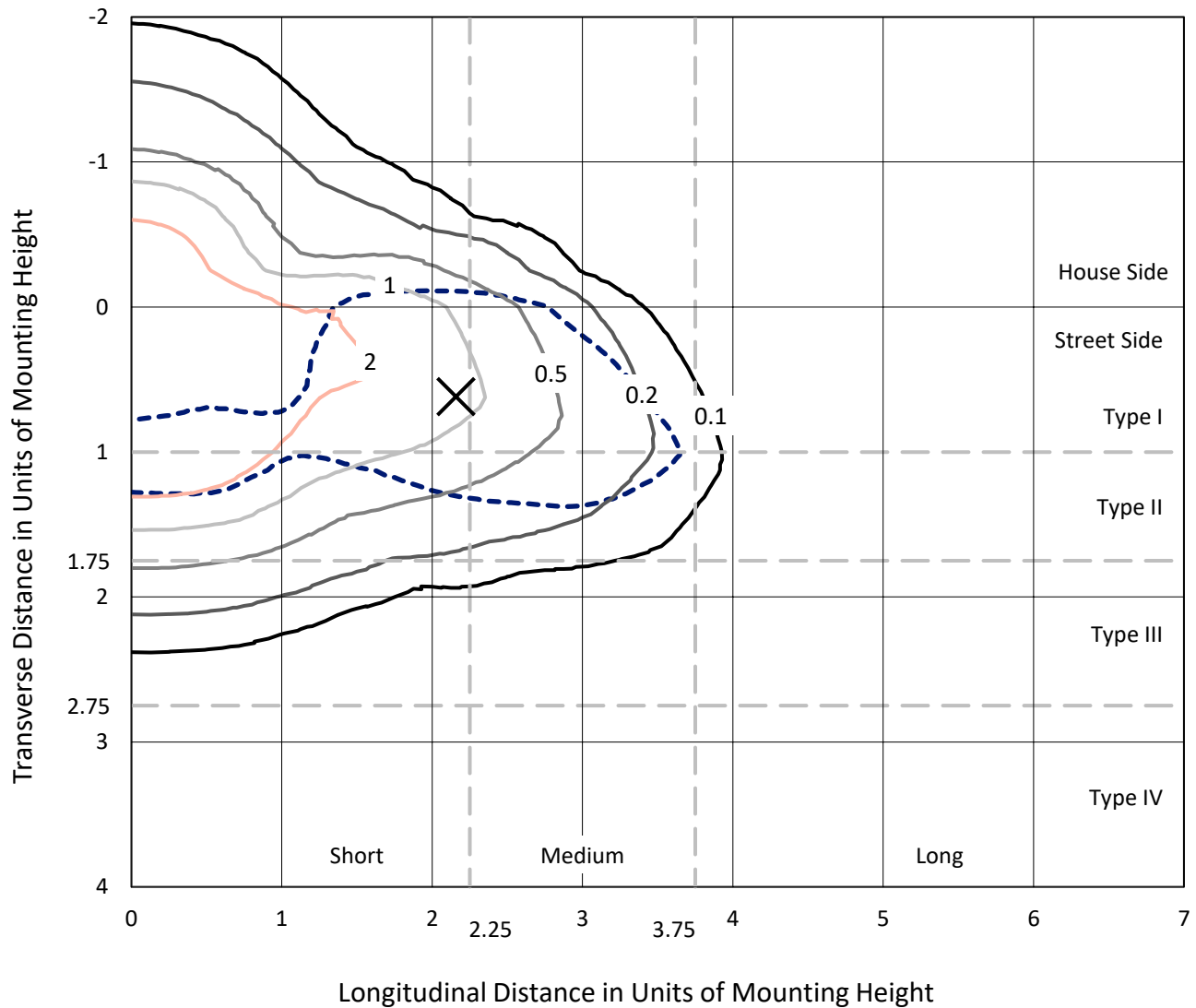


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Iso-Footcandle Lines of Horizontal Illumination

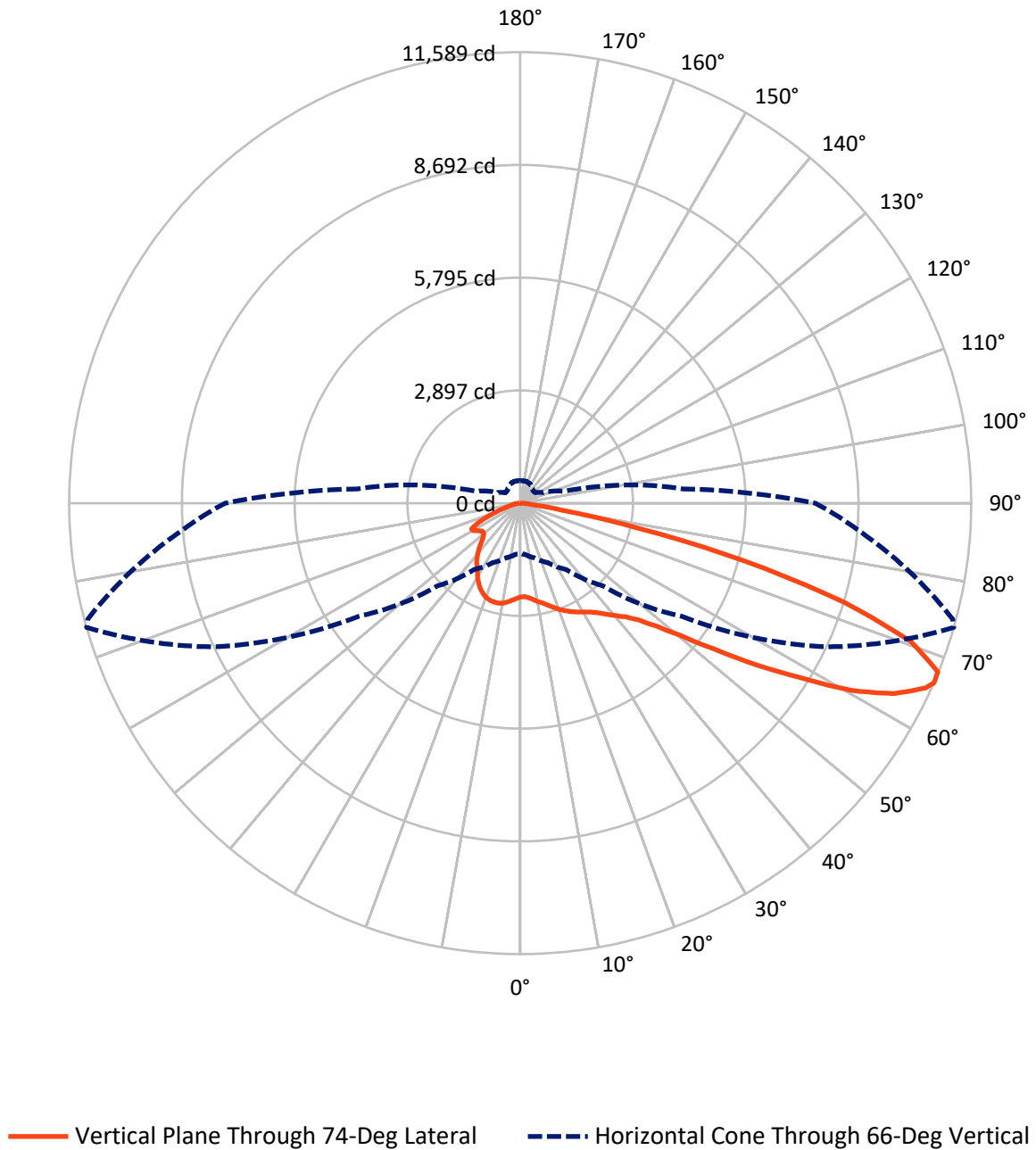
✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.6 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	3577.4	0.0	3577.4
	% Fixture	24.4	0.0	24.4
Street Side	Lumens	11112.6	0.0	11112.6
	% Fixture	75.6	0.0	75.6
Total	Lumens	14690.0	0.0	14690.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	229.7	1.6
10°-20°	706.4	4.8
20°-30°	1325.6	9.0
30°-40°	2039.1	13.9
40°-50°	2742.8	18.7
50°-60°	3243.7	22.1
60°-70°	3000.6	20.4
70°-80°	1262.3	8.6
80°-90°	139.7	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°	14690.0	100.0
0°-180°	14690.0	100.0

Coefficient of Utilization



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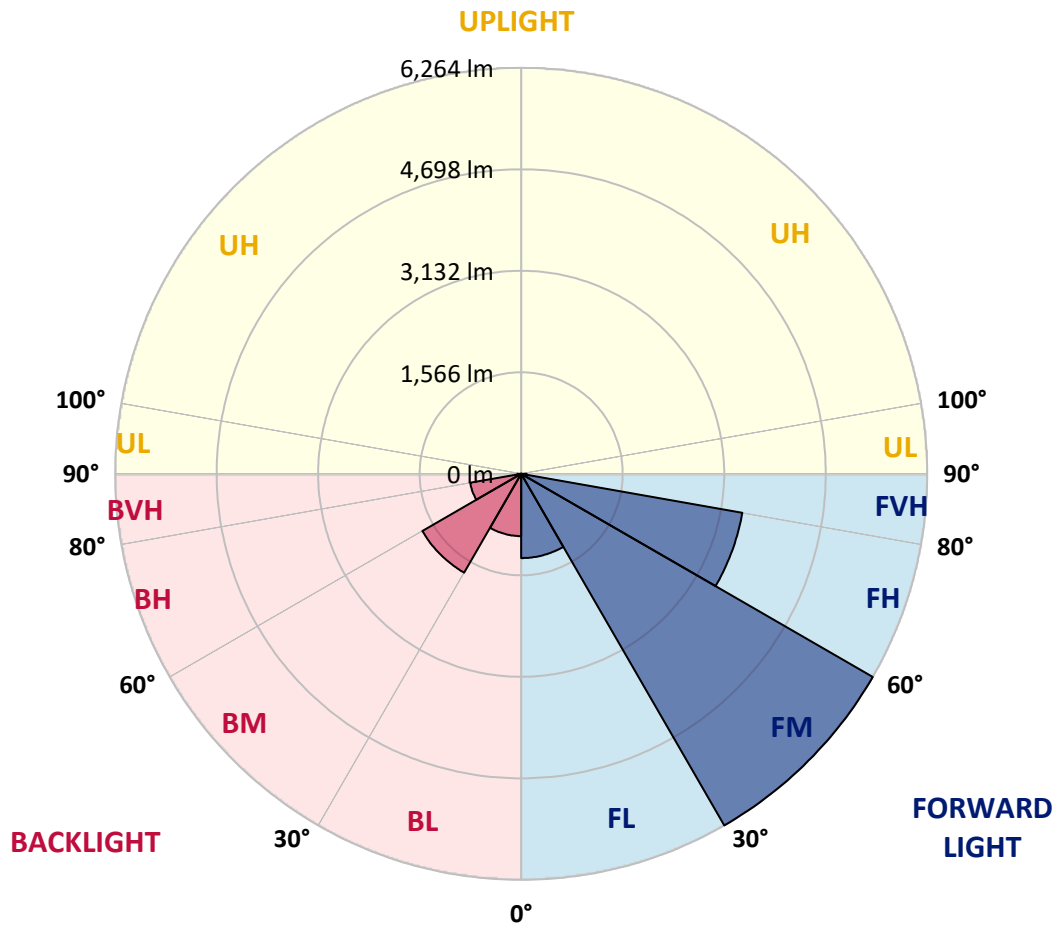
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1300.2	8.9			
FM	(30°-60°)	6264.5	42.6			
FH	(60°-80°)	3464.3	23.6			G2/5000
FVH	(80°-90°)	83.6	0.6			G1/100
BL	(0°-30°)	961.5	6.5	B2/1000		
BM	(30°-60°)	1761.2	12.0	B2/2500		
BH	(60°-80°)	798.6	5.4	B2/1000		G2/1000
BVH	(80°-90°)	56.1	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	2408.2	2408.2	2408.2	2408.2	2408.2	2408.2	2408.2	2408.2	2408.2	2408.2	2408.2
2.5°	2400.6	2396.8	2404.4	2415.7	2421.4	2412.0	2408.2	2406.3	2406.3	2400.6	2410.1
5°	2287.2	2285.3	2302.3	2323.1	2362.8	2391.2	2429.0	2451.7	2444.1	2432.8	2440.3
7.5°	2139.8	2136.0	2156.8	2196.5	2251.3	2313.7	2406.3	2478.1	2506.5	2502.7	2500.8
10°	2196.5	2192.7	2190.8	2179.5	2198.4	2258.8	2355.3	2481.9	2578.3	2580.2	2582.1
12.5°	2393.1	2402.5	2393.1	2357.1	2315.6	2292.9	2349.6	2491.4	2638.8	2650.1	2697.4
15°	2661.5	2652.0	2633.1	2591.5	2527.3	2459.2	2417.6	2534.8	2725.7	2735.2	2839.2
17.5°	2897.8	2905.3	2894.0	2854.3	2778.7	2689.8	2563.2	2610.4	2818.4	2844.8	2990.4
20°	3154.8	3185.1	3170.0	3120.8	3058.4	2926.1	2767.3	2720.1	2920.4	2939.3	3147.3
22.5°	3451.6	3483.7	3455.4	3408.1	3357.1	3194.5	2990.4	2854.3	3005.5	3045.2	3298.5
25°	3807.0	3837.2	3810.7	3737.0	3672.8	3474.3	3230.4	3005.5	3088.7	3132.1	3421.4
27.5°	4088.6	4111.3	4135.9	4092.4	3994.1	3788.1	3480.0	3162.4	3171.8	3217.2	3534.8
30°	4340.0	4396.7	4417.5	4423.2	4340.0	4109.4	3735.1	3325.0	3243.7	3290.9	3648.2
32.5°	4684.0	4769.1	4735.1	4769.1	4720.0	4411.8	3999.8	3493.2	3336.3	3379.8	3755.9
35°	5186.8	5254.9	5166.1	5139.6	5060.2	4718.1	4255.0	3667.1	3459.2	3506.4	3858.0
37.5°	5727.5	5805.0	5676.4	5570.6	5419.3	5020.5	4474.2	3895.8	3629.3	3667.1	3952.5
40°	6200.0	6264.3	6152.8	6012.9	5759.6	5287.0	4663.2	4056.5	3799.4	3846.7	4062.1
42.5°	6636.7	6678.3	6553.5	6419.3	6080.9	5527.1	4867.4	4226.6	3997.9	4043.2	4151.0
45°	7079.0	7111.1	6937.2	6746.3	6349.4	5746.4	5092.3	4464.8	4289.0	4349.5	4294.6
47.5°	7158.4	7167.8	7137.6	7009.0	6561.1	5956.2	5370.2	4784.2	4733.2	4799.3	4542.3
50°	6608.3	6693.4	6880.5	7007.2	6646.1	6132.0	5648.1	5241.7	5345.6	5430.7	5056.4
52.5°	5540.3	5621.6	6054.5	6534.6	6442.0	6171.7	5946.7	5822.0	6209.5	6311.5	5755.8
55°	4413.7	4485.6	4943.0	5634.8	5782.3	5990.2	6266.2	6563.0	7311.5	7379.5	6523.3
57.5°	3635.0	3674.6	4001.7	4667.0	4903.3	5409.9	6438.2	7443.8	8432.4	8536.4	7190.5
60°	2980.9	3024.4	3268.2	3816.4	4130.2	4580.1	6302.1	8313.3	9770.7	9770.7	8046.8
62.5°	2243.7	2281.5	2508.4	2937.4	3464.8	3876.9	5867.3	8889.8	10780.1	10734.7	8666.8
65°	1540.6	1570.8	1735.3	2020.7	2495.1	3304.2	5273.8	8897.4	11449.2	11388.8	8931.4
66°	1292.9	1319.4	1459.3	1689.9	2088.7	2997.9	5064.0	8736.7	11589.1	11504.1	8819.9
67.5°	1020.7	1039.6	1132.3	1268.4	1531.1	2427.1	4733.2	8281.2	11575.9	11524.9	8536.4
70°	729.6	742.9	810.9	839.3	905.4	1404.5	3759.7	7252.9	10647.8	10662.9	7421.1
72.5°	565.2	586.0	627.6	633.2	618.1	746.6	2281.5	6050.7	8710.3	8704.6	5508.2
75°	455.6	466.9	487.7	499.0	495.2	482.0	965.9	4513.9	5995.9	6065.8	3084.9
77.5°	359.1	357.3	376.2	391.3	402.6	378.1	442.3	2646.4	3143.5	3054.6	1158.7
80°	264.6	264.6	291.1	296.8	313.8	317.6	294.9	1020.7	1079.3	981.0	300.5
82.5°	173.9	173.9	202.3	206.0	223.0	247.6	213.6	306.2	298.7	283.5	136.1
85°	94.5	90.7	100.2	113.4	122.9	145.5	128.5	153.1	156.9	155.0	90.7
87.5°	18.9	17.0	26.5	30.2	34.0	45.4	41.6	62.4	87.0	85.1	39.7
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°	2408.2	2408.2	2408.2	2408.2	2408.2	2408.2	2408.2	2408.2	2408.2	2408.2	2408.2
2.5°	2423.3	2421.4	2442.2	2466.8	2495.1	2512.1	2519.7	2532.9	2523.5	2527.3	2538.6
5°	2459.2	2464.9	2495.1	2527.3	2540.5	2531.0	2510.3	2502.7	2485.7	2481.9	2478.1
7.5°	2512.1	2521.6	2551.8	2559.4	2519.7	2453.5	2406.3	2379.8	2351.5	2343.9	2340.1
10°	2599.1	2604.8	2612.3	2534.8	2436.5	2347.7	2289.1	2264.5	2245.6	2230.5	2234.3
12.5°	2708.7	2704.9	2646.4	2485.7	2345.8	2255.1	2215.4	2200.3	2187.0	2177.6	2175.7
15°	2846.7	2820.3	2652.0	2417.6	2260.7	2185.1	2156.8	2151.1	2136.0	2136.0	2134.1
17.5°	2986.6	2918.5	2648.2	2345.8	2179.5	2137.9	2120.9	2117.1	2113.3	2111.4	2117.1
20°	3126.5	3005.5	2618.0	2257.0	2122.8	2098.2	2094.4	2096.3	2092.5	2098.2	2094.4
22.5°	3249.3	3062.2	2561.3	2162.4	2083.1	2081.2	2071.7	2075.5	2088.7	2090.6	2096.3
25°	3343.9	3083.0	2478.1	2075.5	2054.7	2050.9	2062.3	2077.4	2088.7	2090.6	2100.1
27.5°	3421.4	3071.7	2374.2	2007.4	2005.6	2026.3	2060.4	2066.0	2067.9	2067.9	2060.4
30°	3480.0	3047.1	2241.8	1931.8	1941.3	1992.3	2024.5	2024.5	2009.3	2005.6	2016.9
32.5°	3493.2	3014.9	2098.2	1854.3	1869.5	1929.9	1969.6	1956.4	1939.4	1939.4	1947.0
35°	3504.5	2971.5	1982.9	1748.5	1771.2	1843.0	1880.8	1854.3	1835.4	1829.8	1827.9
37.5°	3500.7	2954.5	1878.9	1614.3	1644.5	1714.5	1739.0	1714.5	1686.1	1672.9	1689.9
40°	3504.5	2943.1	1748.5	1466.8	1497.1	1538.7	1570.8	1551.9	1525.4	1491.4	1508.4
42.5°	3527.2	2958.2	1604.8	1323.2	1323.2	1345.9	1400.7	1387.4	1323.2	1309.9	1325.1
45°	3648.2	3039.5	1461.2	1179.5	1158.7	1173.8	1230.6	1173.8	1134.2	1134.2	1147.4
47.5°	3941.2	3190.7	1334.5	1052.9	1003.7	1034.0	1049.1	996.2	965.9	958.4	971.6
50°	4538.5	3493.2	1258.9	948.9	888.4	911.1	901.6	899.8	869.5	873.3	880.9
52.5°	5445.8	4082.9	1236.2	897.9	822.3	827.9	818.5	822.3	816.6	835.5	841.2
55°	6434.4	4704.8	1264.6	905.4	776.9	737.2	741.0	759.9	782.6	812.8	818.5
57.5°	7173.5	5016.7	1338.3	956.5	720.2	659.7	669.1	705.1	748.5	773.1	786.3
60°	7723.6	4978.9	1446.0	969.7	652.1	589.8	606.8	659.7	697.5	718.3	731.5
62.5°	7903.1	4742.6	1472.5	873.3	563.3	523.6	565.2	620.0	637.0	659.7	669.1
65°	7755.7	4408.1	1279.7	708.8	495.2	474.5	534.9	576.5	599.2	610.6	612.4
66°	7581.8	4207.7	1175.7	644.6	470.7	459.3	523.6	557.6	580.3	578.4	580.3
67.5°	7200.0	3788.1	1007.5	553.8	434.8	436.6	504.7	527.4	534.9	529.3	529.3
70°	5901.4	2667.1	722.1	419.6	381.8	408.3	453.7	459.3	476.3	468.8	468.8
72.5°	3638.7	1309.9	483.9	321.3	340.2	381.8	379.9	398.8	438.5	449.9	457.4
75°	1788.2	531.2	319.5	272.2	304.3	319.5	315.7	362.9	419.6	468.8	485.8
77.5°	678.6	264.6	223.0	238.2	245.7	240.1	251.4	328.9	419.6	508.5	525.5
80°	209.8	183.4	175.8	196.6	185.2	175.8	189.0	272.2	355.4	385.6	385.6
82.5°	126.6	143.7	136.1	134.2	124.8	126.6	136.1	194.7	274.1	287.3	287.3
85°	88.8	94.5	77.5	73.7	71.8	69.9	69.9	113.4	162.6	160.7	166.3
87.5°	34.0	37.8	28.4	28.4	26.5	18.9	15.1	18.9	18.9	13.2	9.5
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)