

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: P1210885

Luminaire Tested: **ARCH4-100-740-U-T2RE**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1210885
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: ARCH4-100-740-U-T2RE
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 4000K, 845mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE II
ROADWAY ILLUMINANCE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17875 lumens
Efficiency: N/A
Efficacy: 173.4 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): 103.1
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

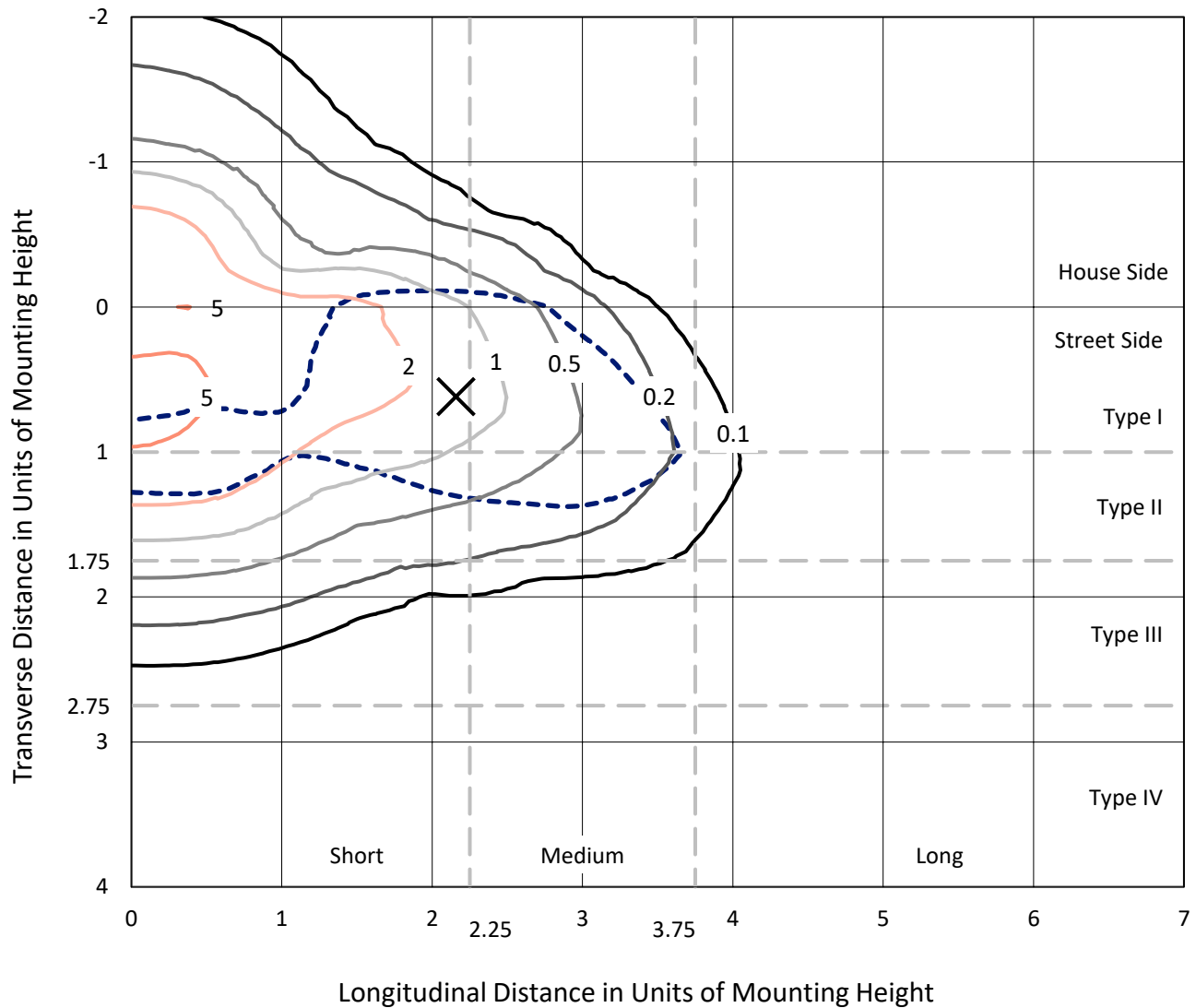


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Iso-Footcandle Lines of Horizontal Illumination

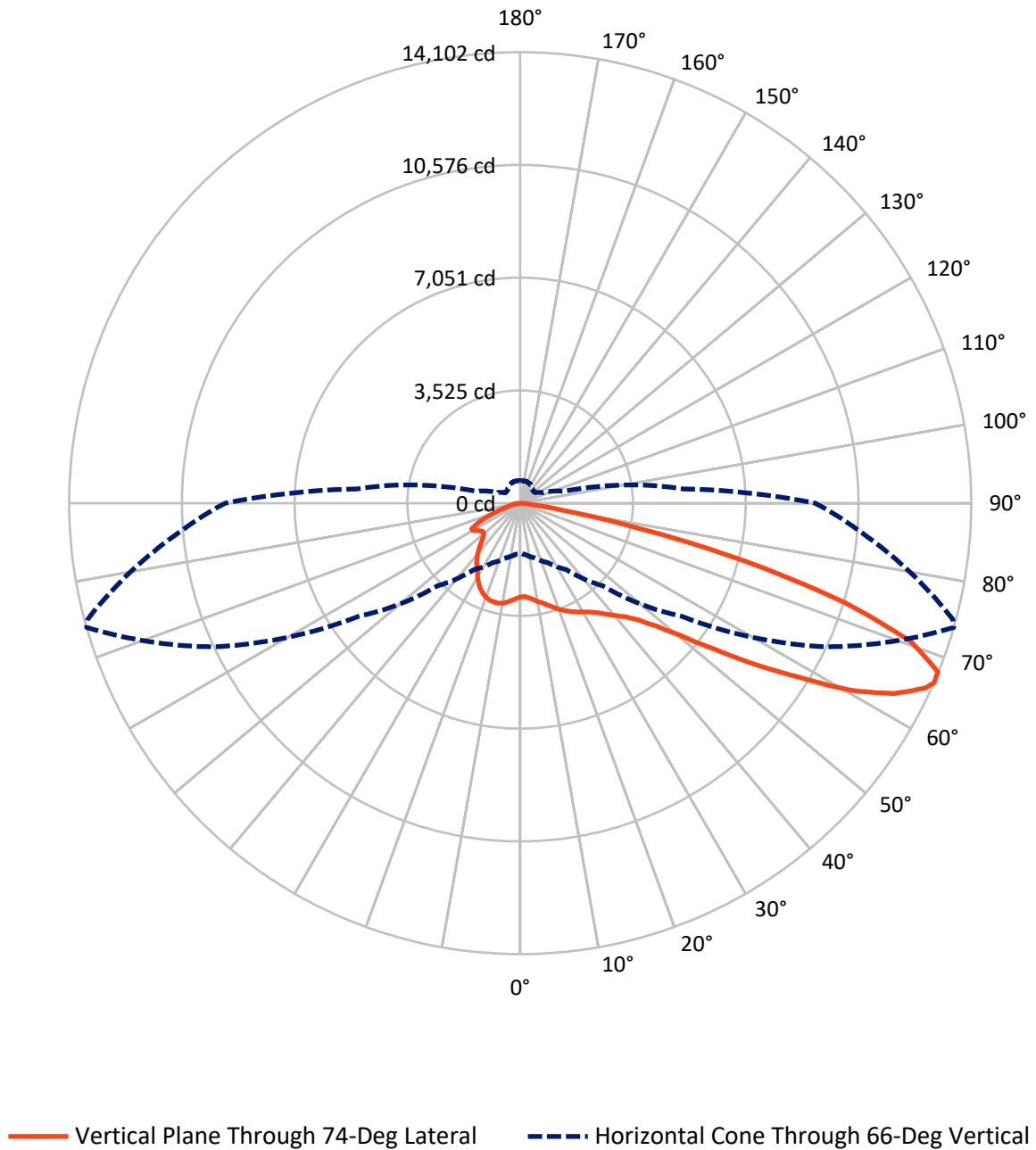
× Max cd
--- 1/2 Max cd



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

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4353.0	0.0	4353.0
	% Fixture	24.4	0.0	24.4
Street Side	Lumens	13521.9	0.0	13521.9
	% Fixture	75.6	0.0	75.6
Total	Lumens	17875.0	0.0	17875.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	279.5	1.6
10°-20°	859.6	4.8
20°-30°	1613.0	9.0
30°-40°	2481.3	13.9
40°-50°	3337.5	18.7
50°-60°	3947.0	22.1
60°-70°	3651.2	20.4
70°-80°	1536.0	8.6
80°-90°	170.0	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°	17875.0	100.0
0°-180°	17875.0	100.0

Coefficient of Utilization



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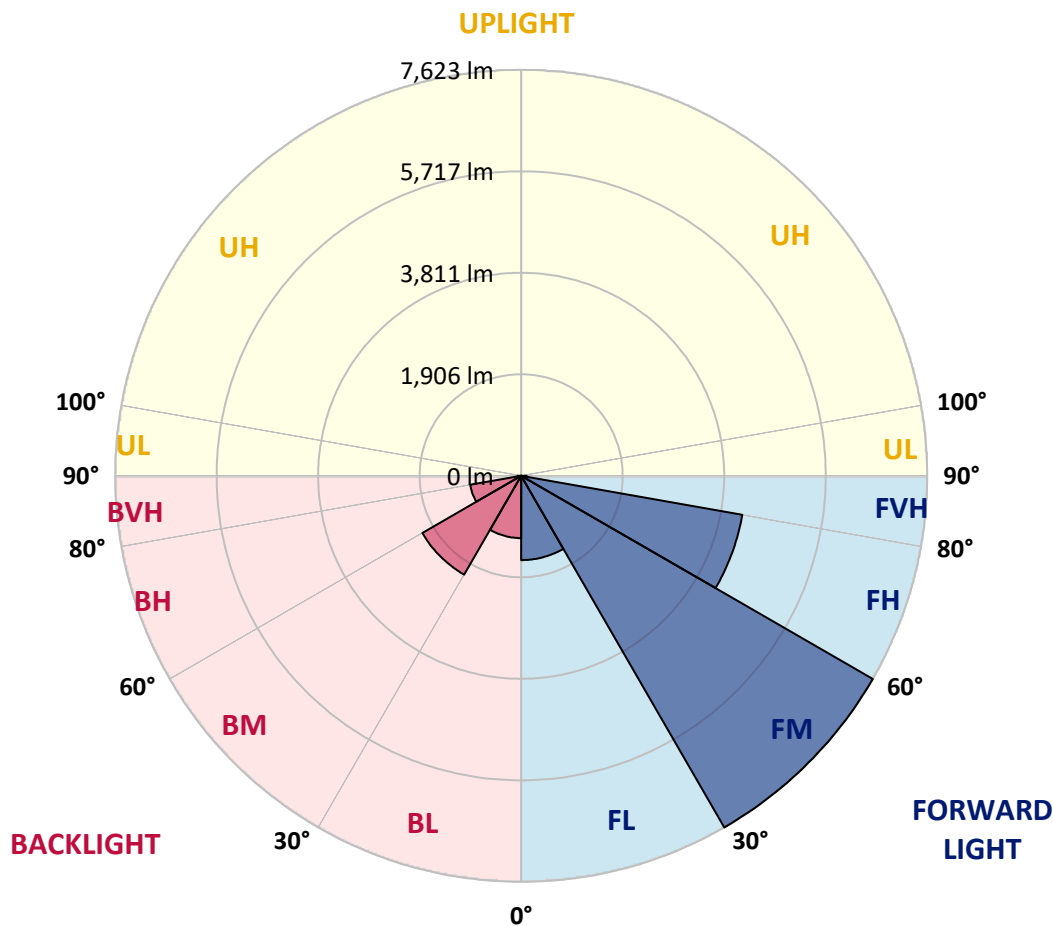
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1582.1	8.9			
FM	(30°-60°)	7622.7	42.6			
FH	(60°-80°)	4215.4	23.6			G2/5000
FVH	(80°-90°)	101.7	0.6			G2/225
BL	(0°-30°)	1170.0	6.5	B3/2500		
BM	(30°-60°)	2143.0	12.0	B2/2500		
BH	(60°-80°)	971.7	5.4	B2/1000		G2/1000
BVH	(80°-90°)	68.3	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°	2930.3	2930.3	2930.3	2930.3	2930.3	2930.3	2930.3	2930.3	2930.3	2930.3	2930.3
2.5°	2921.1	2916.5	2925.7	2939.5	2946.4	2934.9	2930.3	2928.0	2928.0	2921.1	2932.6
5°	2783.1	2780.8	2801.5	2826.8	2875.1	2909.6	2955.6	2983.2	2974.0	2960.2	2969.4
7.5°	2603.7	2599.1	2624.4	2672.7	2739.4	2815.3	2928.0	3015.4	3049.9	3045.3	3043.0
10°	2672.7	2668.1	2665.8	2652.0	2675.0	2748.6	2865.9	3020.0	3137.3	3139.6	3141.9
12.5°	2911.9	2923.4	2911.9	2868.2	2817.6	2790.0	2859.0	3031.5	3210.9	3224.7	3282.2
15°	3238.5	3227.0	3204.0	3153.4	3075.2	2992.4	2941.8	3084.4	3316.7	3328.2	3454.7
17.5°	3526.0	3535.2	3521.4	3473.1	3381.1	3273.0	3118.9	3176.4	3429.4	3461.6	3638.7
20°	3838.8	3875.6	3857.2	3797.4	3721.5	3560.5	3367.3	3309.8	3553.6	3576.6	3829.6
22.5°	4200.0	4239.1	4204.6	4147.1	4084.9	3887.1	3638.7	3473.1	3657.1	3705.4	4013.6
25°	4632.4	4669.2	4637.0	4547.3	4469.1	4227.6	3930.8	3657.1	3758.3	3811.2	4163.2
27.5°	4975.1	5002.7	5032.6	4979.7	4860.1	4609.4	4234.5	3848.0	3859.5	3914.7	4301.2
30°	5281.0	5350.0	5375.3	5382.2	5281.0	5000.4	4545.0	4045.8	3946.9	4004.4	4439.2
32.5°	5699.6	5803.1	5761.7	5803.1	5743.3	5368.4	4867.0	4250.6	4059.6	4112.5	4570.3
35°	6311.4	6394.2	6286.1	6253.9	6157.3	5741.0	5177.5	4462.2	4209.2	4266.7	4694.5
37.5°	6969.3	7063.6	6907.2	6778.3	6594.3	6109.0	5444.3	4740.5	4416.2	4462.2	4809.5
40°	7544.3	7622.5	7486.8	7316.6	7008.4	6433.3	5674.3	4936.0	4623.2	4680.7	4942.9
42.5°	8075.6	8126.2	7974.4	7811.1	7399.4	6725.4	5922.7	5143.0	4864.7	4919.9	5051.0
45°	8613.8	8652.9	8441.3	8209.0	7726.0	6992.3	6196.4	5432.8	5218.9	5292.5	5225.8
47.5°	8710.4	8721.9	8685.1	8528.7	7983.6	7247.6	6534.5	5821.5	5759.4	5839.9	5527.1
50°	8041.1	8144.6	8372.3	8526.4	8087.1	7461.5	6872.7	6378.1	6504.6	6608.1	6152.7
52.5°	6741.5	6840.4	7367.2	7951.4	7838.7	7509.8	7236.1	7084.3	7555.8	7680.0	7003.8
55°	5370.7	5458.1	6014.7	6856.5	7036.0	7289.0	7624.8	7985.9	8896.7	8979.5	7937.6
57.5°	4423.1	4471.4	4869.3	5678.9	5966.4	6582.8	7834.1	9057.7	10260.7	10387.2	8749.5
60°	3627.2	3680.1	3976.8	4643.9	5025.7	5573.1	7668.5	10115.8	11889.1	11889.1	9791.5
62.5°	2730.2	2776.2	3052.2	3574.3	4216.1	4717.5	7139.5	10817.3	13117.4	13062.2	10545.9
65°	1874.6	1911.4	2111.5	2458.8	3036.1	4020.5	6417.2	10826.5	13931.6	13858.0	10867.9
66°	1573.3	1605.5	1775.7	2056.3	2541.6	3647.9	6161.9	10631.0	14101.8	13998.3	10732.2
67.5°	1242.0	1265.0	1377.8	1543.4	1863.1	2953.3	5759.4	10076.7	14085.7	14023.6	10387.2
70°	887.8	903.9	986.7	1021.2	1101.7	1709.0	4574.9	8825.4	12956.4	12974.8	9030.1
72.5°	687.7	713.0	763.6	770.5	752.1	908.5	2776.2	7362.6	10598.8	10591.9	6702.4
75°	554.3	568.1	593.4	607.2	602.6	586.5	1175.3	5492.6	7295.9	7381.0	3753.7
77.5°	437.0	434.7	457.7	476.1	489.9	460.0	538.2	3220.1	3825.0	3716.9	1410.0
80°	322.0	322.0	354.2	361.1	381.8	386.4	358.8	1242.0	1313.3	1193.7	365.7
82.5°	211.6	211.6	246.1	250.7	271.4	301.3	259.9	372.6	363.4	345.0	165.6
85°	115.0	110.4	121.9	138.0	149.5	177.1	156.4	186.3	190.9	188.6	110.4
87.5°	23.0	20.7	32.2	36.8	41.4	55.2	50.6	75.9	105.8	103.5	48.3
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°	2930.3	2930.3	2930.3	2930.3	2930.3	2930.3	2930.3	2930.3	2930.3	2930.3	2930.3
2.5°	2948.7	2946.4	2971.7	3001.6	3036.1	3056.8	3066.0	3082.1	3070.6	3075.2	3089.0
5°	2992.4	2999.3	3036.1	3075.2	3091.3	3079.8	3054.5	3045.3	3024.6	3020.0	3015.4
7.5°	3056.8	3068.3	3105.1	3114.3	3066.0	2985.5	2928.0	2895.8	2861.3	2852.1	2847.5
10°	3162.6	3169.5	3178.7	3084.4	2964.8	2856.7	2785.4	2755.5	2732.5	2714.1	2718.7
12.5°	3296.0	3291.4	3220.1	3024.6	2854.4	2744.0	2695.7	2677.3	2661.2	2649.7	2647.4
15°	3463.9	3431.7	3227.0	2941.8	2750.9	2658.9	2624.4	2617.5	2599.1	2599.1	2596.8
17.5°	3634.1	3551.3	3222.4	2854.4	2652.0	2601.4	2580.7	2576.1	2571.5	2569.2	2576.1
20°	3804.3	3657.1	3185.6	2746.3	2583.0	2553.1	2548.5	2550.8	2546.2	2553.1	2548.5
22.5°	3953.8	3726.1	3116.6	2631.3	2534.7	2532.4	2520.9	2525.5	2541.6	2543.9	2550.8
25°	4068.8	3751.4	3015.4	2525.5	2500.2	2495.6	2509.4	2527.8	2541.6	2543.9	2555.4
27.5°	4163.2	3737.6	2888.9	2442.7	2440.4	2465.7	2507.1	2514.0	2516.3	2516.3	2507.1
30°	4234.5	3707.7	2727.9	2350.7	2362.2	2424.3	2463.4	2463.4	2445.0	2440.4	2454.2
32.5°	4250.6	3668.6	2553.1	2256.4	2274.8	2348.4	2396.7	2380.6	2359.9	2359.9	2369.1
35°	4264.4	3615.7	2412.8	2127.6	2155.2	2242.6	2288.6	2256.4	2233.4	2226.5	2224.2
37.5°	4259.8	3595.0	2286.3	1964.3	2001.1	2086.2	2116.1	2086.2	2051.7	2035.6	2056.3
40°	4264.4	3581.2	2127.6	1784.9	1821.7	1872.3	1911.4	1888.4	1856.2	1814.8	1835.5
42.5°	4292.0	3599.6	1952.8	1610.1	1610.1	1637.7	1704.4	1688.3	1610.1	1594.0	1612.4
45°	4439.2	3698.5	1778.0	1435.3	1410.0	1428.4	1497.4	1428.4	1380.1	1380.1	1396.2
47.5°	4795.7	3882.5	1623.9	1281.1	1221.3	1258.1	1276.5	1212.1	1175.3	1166.1	1182.2
50°	5522.5	4250.6	1531.9	1154.6	1081.0	1108.6	1097.1	1094.8	1058.0	1062.6	1071.8
52.5°	6626.5	4968.2	1504.3	1092.5	1000.5	1007.4	995.9	1000.5	993.6	1016.6	1023.5
55°	7829.5	5724.9	1538.8	1101.7	945.3	897.0	901.6	924.6	952.2	989.0	995.9
57.5°	8728.8	6104.4	1628.5	1163.8	876.3	802.7	814.2	857.9	910.8	940.7	956.8
60°	9398.1	6058.4	1759.6	1179.9	793.5	717.6	738.3	802.7	848.7	874.0	890.1
62.5°	9616.7	5770.9	1791.8	1062.6	685.4	637.1	687.7	754.4	775.1	802.7	814.2
65°	9437.2	5363.8	1557.2	862.5	602.6	577.3	650.9	701.5	729.1	742.9	745.2
66°	9225.6	5120.0	1430.7	784.3	572.7	558.9	637.1	678.5	706.1	703.8	706.1
67.5°	8761.0	4609.4	1225.9	673.9	529.0	531.3	614.1	641.7	650.9	644.0	644.0
70°	7180.9	3245.4	878.6	510.6	464.6	496.8	552.0	558.9	579.6	570.4	570.4
72.5°	4427.7	1594.0	588.8	391.0	414.0	464.6	462.3	485.3	533.6	547.4	556.6
75°	2175.9	646.3	388.7	331.2	370.3	388.7	384.1	441.6	510.6	570.4	591.1
77.5°	825.7	322.0	271.4	289.8	299.0	292.1	305.9	400.2	510.6	618.7	639.4
80°	255.3	223.1	213.9	239.2	225.4	213.9	230.0	331.2	432.4	469.2	469.2
82.5°	154.1	174.8	165.6	163.3	151.8	154.1	165.6	236.9	333.5	349.6	349.6
85°	108.1	115.0	94.3	89.7	87.4	85.1	85.1	138.0	197.8	195.5	202.4
87.5°	41.4	46.0	34.5	34.5	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)