

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: P1210429

Luminaire Tested: **ARCH3-120-730-U-T2RE**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1210429
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: ARCH3-120-730-U-T2RE
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 3000K, 965mA LIGHTSQUARE WITH 40 LEDS AND TYPE II ROADWAY
ILLUMINANCE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17804 lumens
Efficiency: N/A
Efficacy: 145.1 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): 122.7
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

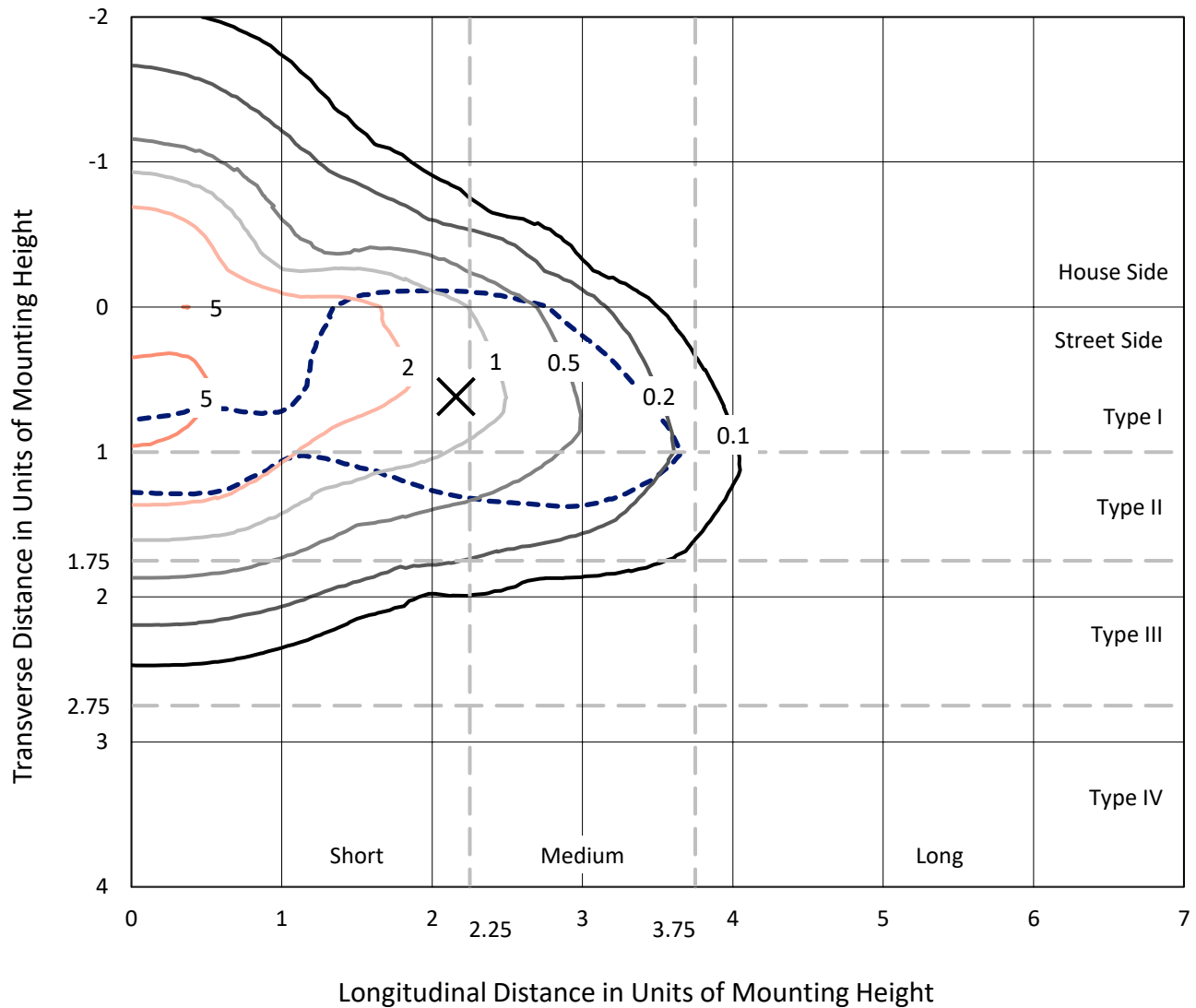


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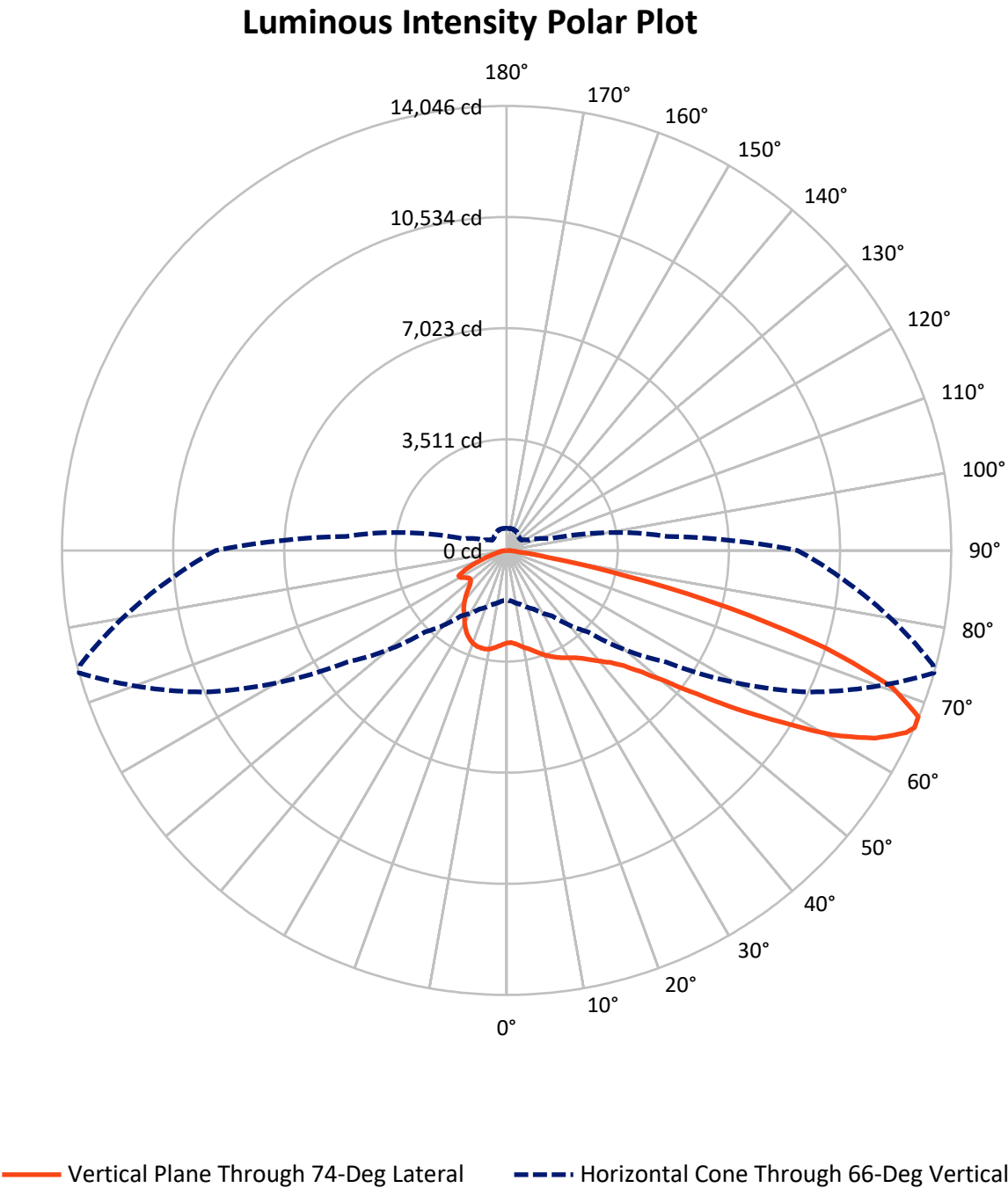
Iso-Footcandle Lines of Horizontal Illumination

✕ 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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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4335.8	0.0	4335.8
	% Fixture	24.4	0.0	24.4
Street Side	Lumens	13468.2	0.0	13468.2
	% Fixture	75.6	0.0	75.6
Total	Lumens	17804.0	0.0	17804.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	278.4	1.6
10°-20°	856.2	4.8
20°-30°	1606.6	9.0
30°-40°	2471.4	13.9
40°-50°	3324.2	18.7
50°-60°	3931.3	22.1
60°-70°	3636.7	20.4
70°-80°	1529.9	8.6
80°-90°	169.3	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°	17804.0	100.0
0°-180°	17804.0	100.0

Coefficient of Utilization



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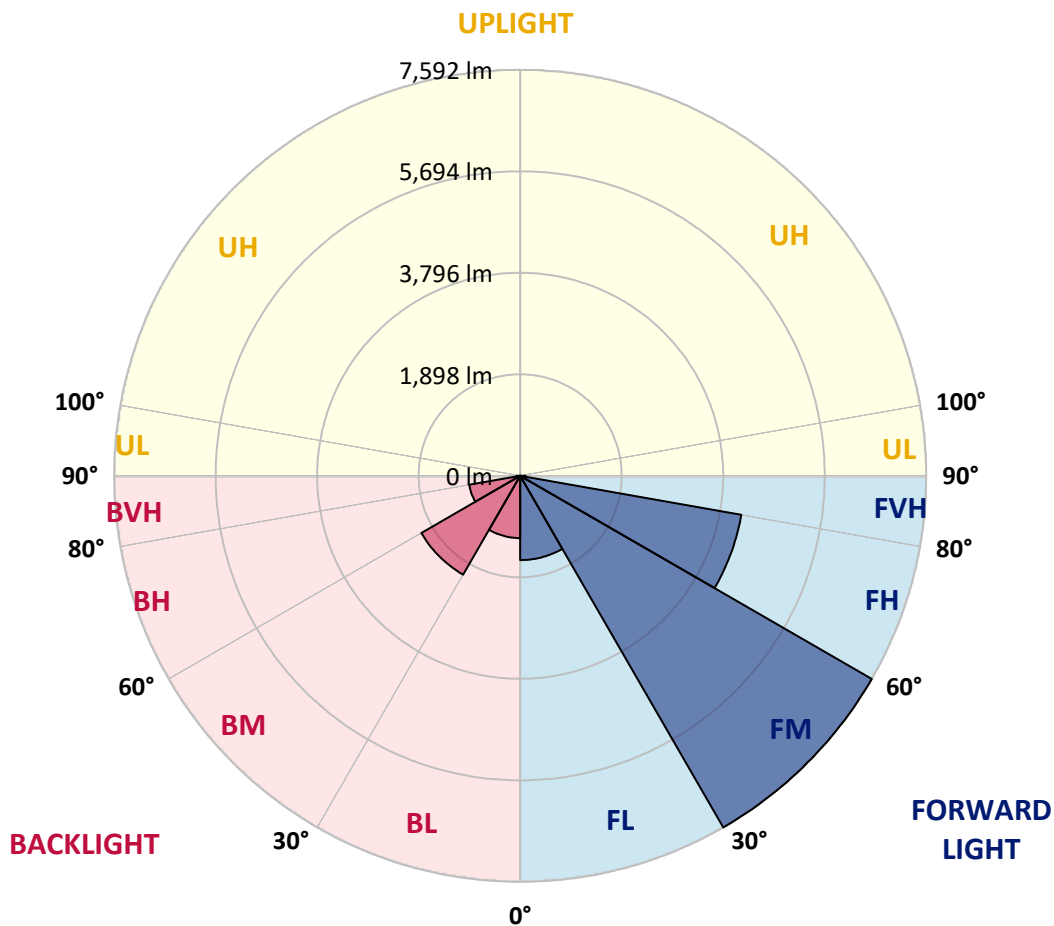
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1575.9	8.9			
FM	(30°-60°)	7592.4	42.6			
FH	(60°-80°)	4198.7	23.6			G2/5000
FVH	(80°-90°)	101.3	0.6			G2/225
BL	(0°-30°)	1165.4	6.5	B3/2500		
BM	(30°-60°)	2134.5	12.0	B2/2500		
BH	(60°-80°)	967.9	5.4	B2/1000		G2/1000
BVH	(80°-90°)	68.0	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°	2918.7	2918.7	2918.7	2918.7	2918.7	2918.7	2918.7	2918.7	2918.7	2918.7	2918.7
2.5°	2909.5	2904.9	2914.1	2927.8	2934.7	2923.2	2918.7	2916.4	2916.4	2909.5	2921.0
5°	2772.0	2769.8	2790.4	2815.6	2863.7	2898.0	2943.9	2971.4	2962.2	2948.4	2957.6
7.5°	2593.4	2588.8	2614.0	2662.1	2728.5	2804.1	2916.4	3003.4	3037.8	3033.2	3030.9
10°	2662.1	2657.5	2655.2	2641.5	2664.4	2737.7	2854.5	3008.0	3124.9	3127.1	3129.4
12.5°	2900.3	2911.8	2900.3	2856.8	2806.4	2778.9	2847.6	3019.5	3198.2	3211.9	3269.2
15°	3225.7	3214.2	3191.3	3140.9	3063.0	2980.5	2930.1	3072.2	3303.5	3315.0	3441.0
17.5°	3512.0	3521.2	3507.4	3459.3	3367.7	3260.0	3106.5	3163.8	3415.8	3447.9	3624.3
20°	3823.6	3860.2	3841.9	3782.4	3706.8	3546.4	3353.9	3296.7	3539.5	3562.4	3814.4
22.5°	4183.3	4222.2	4187.9	4130.6	4068.7	3871.7	3624.3	3459.3	3642.6	3690.7	3997.7
25°	4614.0	4650.6	4618.6	4529.2	4451.3	4210.8	3915.2	3642.6	3743.4	3796.1	4146.6
27.5°	4955.3	4982.8	5012.6	4959.9	4840.8	4591.1	4217.6	3832.8	3844.2	3899.2	4284.1
30°	5260.0	5328.7	5353.9	5360.8	5260.0	4980.5	4526.9	4029.8	3931.3	3988.5	4421.5
32.5°	5677.0	5780.1	5738.8	5780.1	5720.5	5347.1	4847.6	4233.7	4043.5	4096.2	4552.1
35°	6286.4	6368.8	6261.2	6229.1	6132.9	5718.2	5156.9	4444.4	4192.4	4249.7	4675.8
37.5°	6941.6	7035.5	6879.7	6751.4	6568.1	6084.8	5422.7	4721.6	4398.6	4444.4	4790.4
40°	7514.3	7592.2	7457.0	7287.5	6980.5	6407.8	5651.8	4916.4	4604.8	4662.1	4923.2
42.5°	8043.5	8093.9	7942.7	7780.1	7370.0	6698.7	5899.2	5122.6	4845.4	4900.3	5030.9
45°	8579.6	8618.5	8407.8	8176.4	7695.3	6964.5	6171.8	5411.2	5198.2	5271.5	5205.0
47.5°	8675.8	8687.3	8650.6	8494.8	7951.9	7218.8	6508.6	5798.4	5736.5	5816.7	5505.1
50°	8009.2	8112.2	8339.1	8492.5	8055.0	7431.8	6845.4	6352.8	6478.8	6581.9	6128.3
52.5°	6714.8	6813.3	7337.9	7919.8	7807.6	7479.9	7207.3	7056.1	7525.8	7649.5	6975.9
55°	5349.4	5436.4	5990.8	6829.3	7008.0	7260.0	7594.5	7954.2	8861.4	8943.9	7906.1
57.5°	4405.5	4453.6	4849.9	5656.4	5942.7	6556.7	7803.0	9021.8	10219.9	10345.9	8714.8
60°	3612.8	3665.5	3961.0	4625.4	5005.7	5551.0	7638.0	10075.6	11841.9	11841.9	9752.6
62.5°	2719.4	2765.2	3040.1	3560.1	4199.3	4698.7	7111.1	10774.3	13065.3	13010.3	10504.0
65°	1867.1	1903.8	2103.1	2449.0	3024.1	4004.6	6391.7	10783.5	13876.3	13803.0	10824.7
66°	1567.0	1599.1	1768.6	2048.1	2531.5	3633.4	6137.4	10588.8	14045.8	13942.7	10689.6
67.5°	1237.1	1260.0	1372.3	1537.2	1855.7	2941.6	5736.5	10036.6	14029.8	13967.9	10345.9
70°	884.3	900.3	982.8	1017.2	1097.4	1702.2	4556.7	8790.4	12904.9	12923.2	8994.3
72.5°	685.0	710.2	760.6	767.5	749.1	904.9	2765.2	7333.3	10556.7	10549.8	6675.8
75°	552.1	565.9	591.1	604.8	600.2	584.2	1170.7	5470.8	7266.9	7351.7	3738.8
77.5°	435.3	433.0	455.9	474.2	488.0	458.2	536.1	3207.3	3809.8	3702.2	1404.4
80°	320.7	320.7	352.8	359.7	380.3	384.9	357.4	1237.1	1308.1	1189.0	364.3
82.5°	210.8	210.8	245.1	249.7	270.3	300.1	258.9	371.1	362.0	343.6	164.9
85°	114.5	110.0	121.4	137.5	148.9	176.4	155.8	185.6	190.1	187.9	110.0
87.5°	22.9	20.6	32.1	36.7	41.2	55.0	50.4	75.6	105.4	103.1	48.1
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°	2918.7	2918.7	2918.7	2918.7	2918.7	2918.7	2918.7	2918.7	2918.7	2918.7	2918.7
2.5°	2937.0	2934.7	2959.9	2989.7	3024.1	3044.7	3053.8	3069.9	3058.4	3063.0	3076.7
5°	2980.5	2987.4	3024.1	3063.0	3079.0	3067.6	3042.4	3033.2	3012.6	3008.0	3003.4
7.5°	3044.7	3056.1	3092.8	3101.9	3053.8	2973.7	2916.4	2884.3	2849.9	2840.8	2836.2
10°	3150.1	3156.9	3166.1	3072.2	2953.0	2845.4	2774.3	2744.6	2721.6	2703.3	2707.9
12.5°	3282.9	3278.3	3207.3	3012.6	2843.1	2733.1	2685.0	2666.7	2650.6	2639.2	2636.9
15°	3450.2	3418.1	3214.2	2930.1	2740.0	2648.3	2614.0	2607.1	2588.8	2588.8	2586.5
17.5°	3619.7	3537.2	3209.6	2843.1	2641.5	2591.1	2570.4	2565.9	2561.3	2559.0	2565.9
20°	3789.2	3642.6	3173.0	2735.4	2572.7	2543.0	2538.4	2540.7	2536.1	2543.0	2538.4
22.5°	3938.1	3711.3	3104.2	2620.8	2524.6	2522.3	2510.9	2515.5	2531.5	2533.8	2540.7
25°	4052.7	3736.5	3003.4	2515.5	2490.3	2485.7	2499.4	2517.8	2531.5	2533.8	2545.2
27.5°	4146.6	3722.8	2877.4	2433.0	2430.7	2455.9	2497.1	2504.0	2506.3	2506.3	2497.1
30°	4217.6	3693.0	2717.1	2341.3	2352.8	2414.7	2453.6	2453.6	2435.3	2430.7	2444.4
32.5°	4233.7	3654.1	2543.0	2247.4	2265.7	2339.1	2387.2	2371.1	2350.5	2350.5	2359.7
35°	4247.4	3601.4	2403.2	2119.1	2146.6	2233.7	2279.5	2247.4	2224.5	2217.6	2215.3
37.5°	4242.8	3580.8	2277.2	1956.5	1993.1	2077.9	2107.7	2077.9	2043.5	2027.5	2048.1
40°	4247.4	3567.0	2119.1	1777.8	1814.4	1864.8	1903.8	1880.9	1848.8	1807.6	1828.2
42.5°	4274.9	3585.3	1945.0	1603.7	1603.7	1631.2	1697.6	1681.6	1603.7	1587.6	1606.0
45°	4421.5	3683.8	1770.9	1429.6	1404.4	1422.7	1491.4	1422.7	1374.6	1374.6	1390.6
47.5°	4776.6	3867.1	1617.4	1276.1	1216.5	1253.1	1271.5	1207.3	1170.7	1161.5	1177.5
50°	5500.6	4233.7	1525.8	1150.1	1076.7	1104.2	1092.8	1090.5	1053.8	1058.4	1067.6
52.5°	6600.2	4948.4	1498.3	1088.2	996.6	1003.4	992.0	996.6	989.7	1012.6	1019.5
55°	7798.4	5702.2	1532.6	1097.4	941.6	893.5	898.1	921.0	948.5	985.1	992.0
57.5°	8694.1	6080.2	1622.0	1159.2	872.9	799.5	811.0	854.5	907.2	937.0	953.0
60°	9360.8	6034.4	1752.6	1175.3	790.4	714.8	735.4	799.5	845.4	870.6	886.6
62.5°	9578.5	5748.0	1784.6	1058.4	682.7	634.6	685.0	751.4	772.0	799.5	811.0
65°	9399.8	5342.5	1551.0	859.1	600.2	575.0	648.3	698.7	726.2	740.0	742.3
66°	9189.0	5099.6	1425.0	781.2	570.4	556.7	634.6	675.8	703.3	701.0	703.3
67.5°	8726.2	4591.1	1221.1	671.2	526.9	529.2	611.7	639.2	648.3	641.5	641.5
70°	7152.3	3232.5	875.1	508.6	462.8	494.8	549.8	556.7	577.3	568.2	568.2
72.5°	4410.1	1587.6	586.5	389.5	412.4	462.8	460.5	483.4	531.5	545.2	554.4
75°	2167.2	643.8	387.2	329.9	368.8	387.2	382.6	439.9	508.6	568.2	588.8
77.5°	822.5	320.7	270.3	288.7	297.8	291.0	304.7	398.6	508.6	616.3	636.9
80°	254.3	222.2	213.1	238.3	224.5	213.1	229.1	329.9	430.7	467.4	467.4
82.5°	153.5	174.1	164.9	162.7	151.2	153.5	164.9	236.0	332.2	348.2	348.2
85°	107.7	114.5	93.9	89.3	87.1	84.8	84.8	137.5	197.0	194.7	201.6
87.5°	41.2	45.8	34.4	34.4	32.1	22.9	18.3	22.9	22.9	16.0	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)