

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: P1210621

Luminaire Tested: **ARCH3-180-730-U-T2RE**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1210621
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: ARCH3-180-730-U-T2RE
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 3000K, 1375mA LIGHTSQUARE WITH 40 LEDS AND TYPE II ROADWAY
ILLUMINANCE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23256 lumens
Efficiency: N/A
Efficacy: 128.8 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

Input Watts (W): 180.5
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

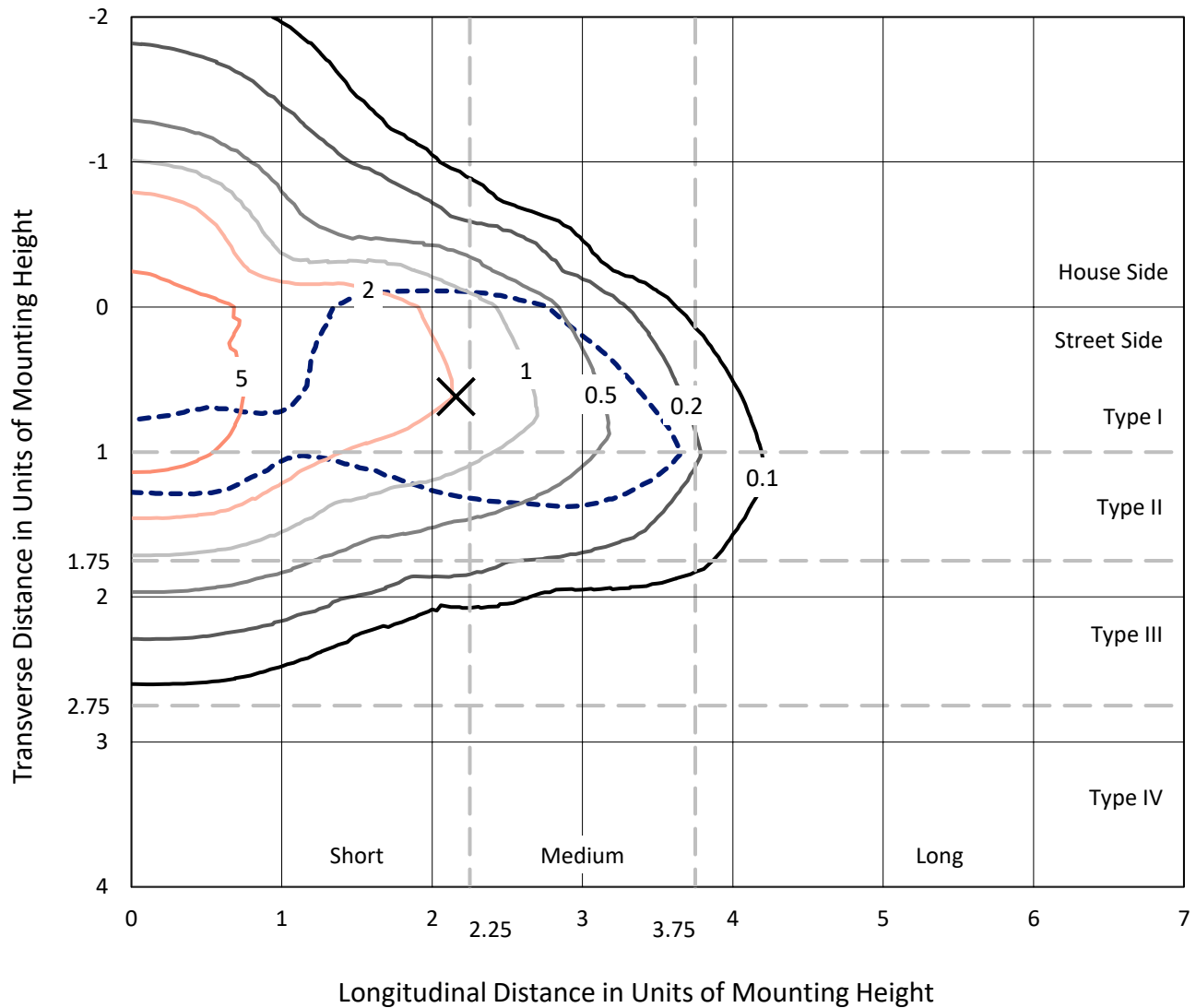


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Iso-Footcandle Lines of Horizontal Illumination

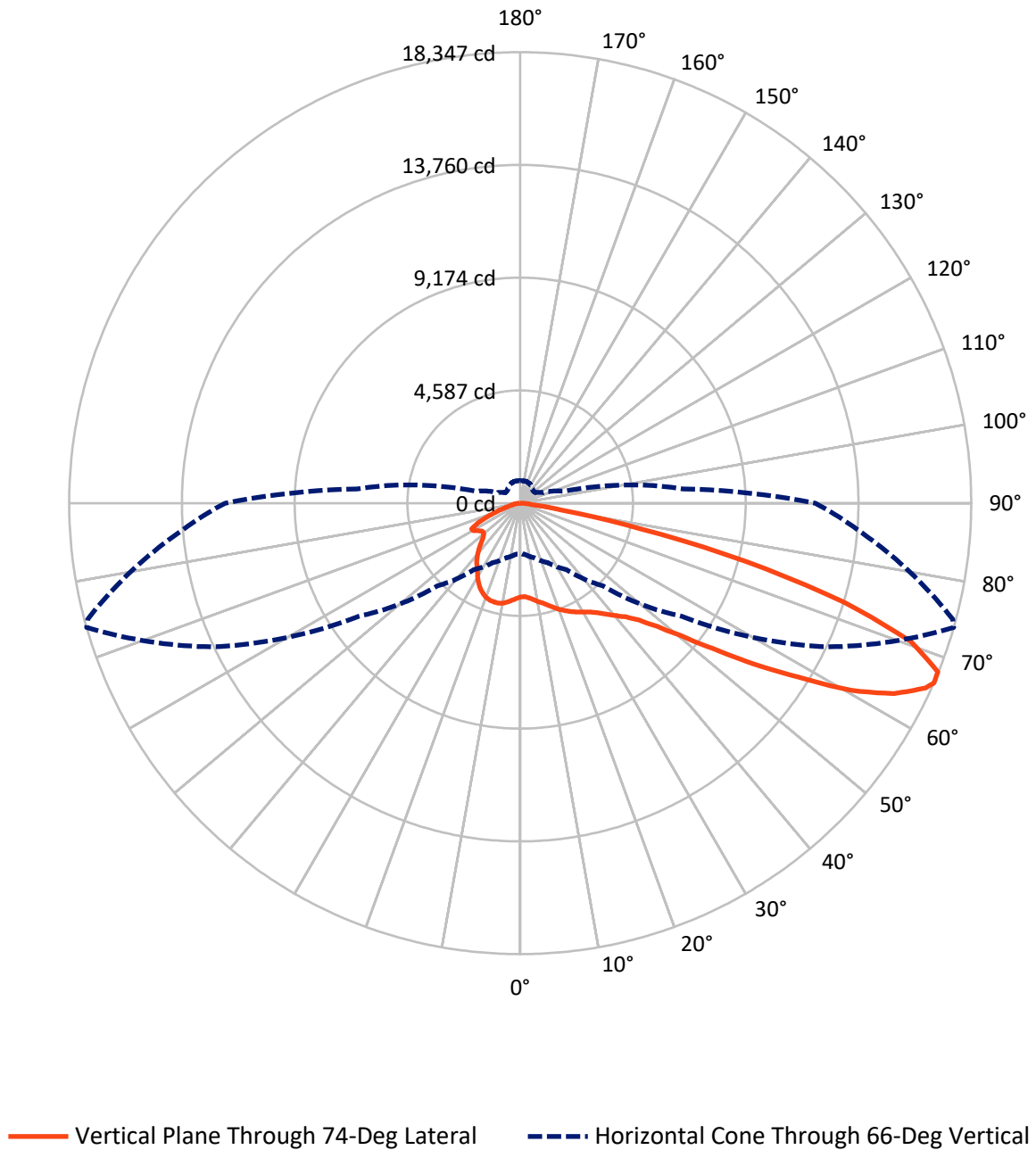
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.3 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	5663.5	0.0	5663.5
	% Fixture	24.4	0.0	24.4
Street Side	Lumens	17592.5	0.0	17592.5
	% Fixture	75.6	0.0	75.6
Total	Lumens	23256.0	0.0	23256.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	363.7	1.6
10°-20°	1118.4	4.8
20°-30°	2098.6	9.0
30°-40°	3228.2	13.9
40°-50°	4342.2	18.7
50°-60°	5135.1	22.1
60°-70°	4750.3	20.4
70°-80°	1998.4	8.6
80°-90°	221.1	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°	23256.0	100.0
0°-180°	23256.0	100.0

Coefficient of Utilization



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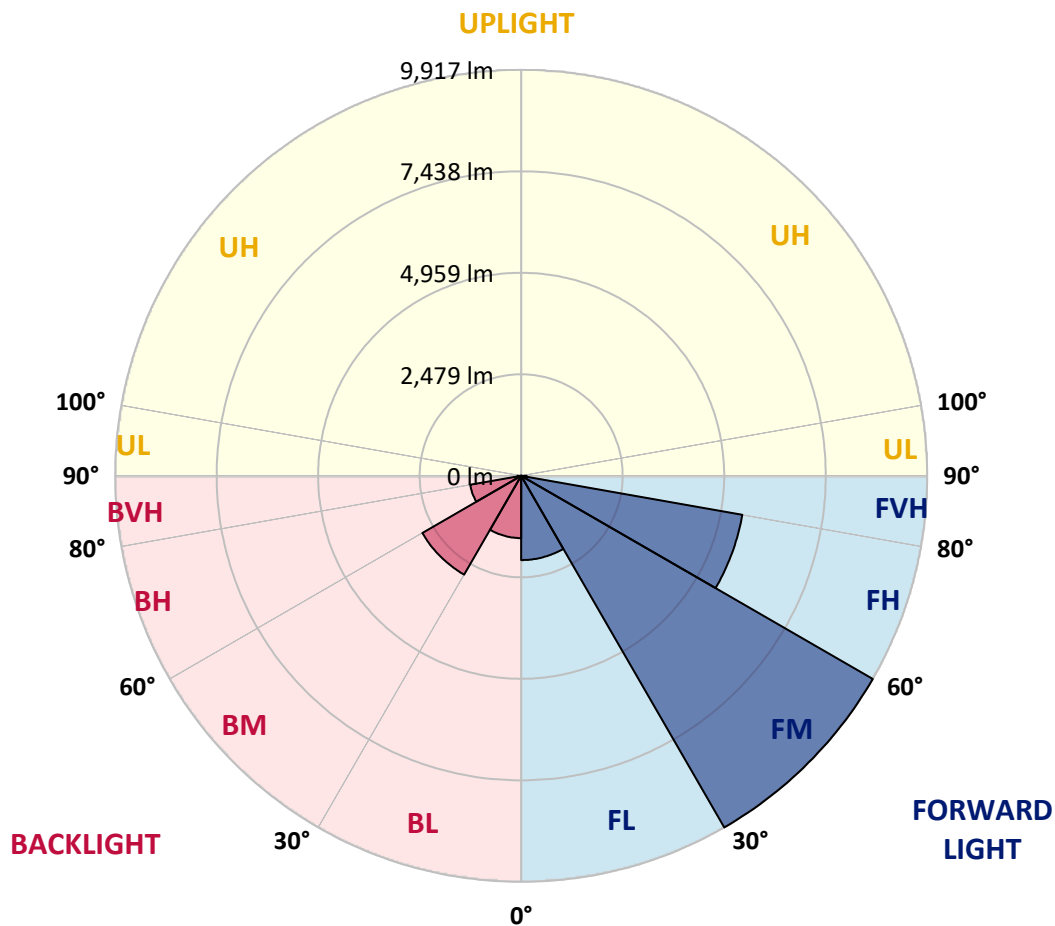
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2058.4	8.9			
FM	(30°-60°)	9917.4	42.6			
FH	(60°-80°)	5484.4	23.6			G3/7500
FVH	(80°-90°)	132.3	0.6			G2/225
BL	(0°-30°)	1522.2	6.5	B3/2500		
BM	(30°-60°)	2788.1	12.0	B3/5000		
BH	(60°-80°)	1264.3	5.4	B3/2500		G3/2500
BVH	(80°-90°)	88.8	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-G3

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	3812.4	3812.4	3812.4	3812.4	3812.4	3812.4	3812.4	3812.4	3812.4	3812.4	3812.4
2.5°	3800.5	3794.5	3806.4	3824.4	3833.4	3818.4	3812.4	3809.4	3809.4	3800.5	3815.4
5°	3620.9	3617.9	3644.9	3677.8	3740.6	3785.5	3845.3	3881.3	3869.3	3851.3	3863.3
7.5°	3387.5	3381.5	3414.4	3477.3	3564.1	3662.8	3809.4	3923.2	3968.0	3962.1	3959.1
10°	3477.3	3471.3	3468.3	3450.3	3480.3	3576.0	3728.6	3929.1	4081.8	4084.7	4087.7
12.5°	3788.5	3803.5	3788.5	3731.6	3665.8	3629.9	3719.7	3944.1	4177.5	4195.5	4270.3
15°	4213.4	4198.5	4168.5	4102.7	4001.0	3893.2	3827.4	4012.9	4315.2	4330.1	4494.7
17.5°	4587.5	4599.5	4581.5	4518.7	4399.0	4258.3	4057.8	4132.6	4461.8	4503.7	4734.1
20°	4994.5	5042.3	5018.4	4940.6	4841.8	4632.4	4381.0	4306.2	4623.4	4653.3	4982.5
22.5°	5464.3	5515.2	5470.3	5395.5	5314.7	5057.3	4734.1	4518.7	4758.1	4820.9	5221.9
25°	6026.9	6074.8	6032.9	5916.2	5814.4	5500.2	5114.2	4758.1	4889.7	4958.6	5416.4
27.5°	6472.8	6508.7	6547.6	6478.7	6323.1	5996.9	5509.2	5006.4	5021.4	5093.2	5596.0
30°	6870.8	6960.5	6993.4	7002.4	6870.8	6505.7	5913.2	5263.8	5135.1	5209.9	5775.5
32.5°	7415.4	7550.1	7496.2	7550.1	7472.2	6984.5	6332.1	5530.1	5281.7	5350.6	5946.1
35°	8211.4	8319.1	8178.5	8136.6	8010.9	7469.3	6736.1	5805.4	5476.3	5551.1	6107.7
37.5°	9067.2	9189.9	8986.4	8818.9	8579.5	7948.1	7083.2	6167.5	5745.6	5805.4	6257.3
40°	9815.4	9917.1	9740.6	9519.1	9118.1	8370.0	7382.5	6421.9	6014.9	6089.7	6430.9
42.5°	10506.6	10572.5	10375.0	10162.5	9626.8	8750.0	7705.7	6691.2	6329.1	6400.9	6571.5
45°	11206.9	11257.7	10982.4	10680.2	10051.8	9097.2	8061.8	7068.3	6790.0	6885.7	6798.9
47.5°	11332.6	11347.5	11299.6	11096.2	10386.9	9429.3	8501.7	7574.0	7493.2	7597.9	7191.0
50°	10461.7	10596.4	10892.7	11093.2	10521.6	9707.6	8941.6	8298.2	8462.8	8597.4	8004.9
52.5°	8771.0	8899.7	9584.9	10345.0	10198.4	9770.5	9414.4	9216.9	9830.3	9991.9	9112.1
55°	6987.5	7101.2	7825.4	8920.6	9154.0	9483.2	9920.1	10389.9	11574.9	11682.7	10327.1
57.5°	5754.6	5817.4	6335.1	7388.5	7762.5	8564.5	10192.4	11784.4	13349.5	13514.1	11383.4
60°	4719.2	4788.0	5174.0	6041.8	6538.6	7250.8	9977.0	13161.0	15468.2	15468.2	12739.0
62.5°	3552.1	3611.9	3971.0	4650.3	5485.2	6137.6	9288.7	14073.7	17066.2	16994.3	13720.6
65°	2438.9	2486.8	2747.1	3199.0	3950.1	5230.9	8349.0	14085.6	18125.5	18029.7	14139.5
66°	2046.9	2088.8	2310.2	2675.3	3306.7	4746.1	8016.9	13831.3	18347.0	18212.3	13963.0
67.5°	1615.9	1645.9	1792.5	2008.0	2423.9	3842.4	7493.2	13110.1	18326.0	18245.2	13514.1
70°	1155.1	1176.0	1283.8	1328.7	1433.4	2223.4	5952.1	11482.2	16856.7	16880.6	11748.5
72.5°	894.8	927.7	993.5	1002.5	978.5	1182.0	3611.9	9579.0	13789.4	13780.4	8720.1
75°	721.2	739.1	772.1	790.0	784.0	763.1	1529.2	7146.1	9492.2	9602.9	4883.7
77.5°	568.6	565.6	595.5	619.4	637.4	598.5	700.2	4189.5	4976.5	4835.9	1834.4
80°	418.9	418.9	460.8	469.8	496.8	502.7	466.8	1615.9	1708.7	1553.1	475.8
82.5°	275.3	275.3	320.2	326.2	353.1	392.0	338.2	484.8	472.8	448.9	215.5
85°	149.6	143.6	158.6	179.5	194.5	230.4	203.5	242.4	248.4	245.4	143.6
87.5°	29.9	26.9	41.9	47.9	53.9	71.8	65.8	98.8	137.7	134.7	62.8
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°	3812.4	3812.4	3812.4	3812.4	3812.4	3812.4	3812.4	3812.4	3812.4	3812.4	3812.4
2.5°	3836.4	3833.4	3866.3	3905.2	3950.1	3977.0	3989.0	4009.9	3995.0	4001.0	4018.9
5°	3893.2	3902.2	3950.1	4001.0	4021.9	4006.9	3974.0	3962.1	3935.1	3929.1	3923.2
7.5°	3977.0	3992.0	4039.9	4051.8	3989.0	3884.3	3809.4	3767.5	3722.7	3710.7	3704.7
10°	4114.7	4123.7	4135.6	4012.9	3857.3	3716.7	3623.9	3585.0	3555.1	3531.1	3537.1
12.5°	4288.2	4282.3	4189.5	3935.1	3713.7	3570.0	3507.2	3483.3	3462.3	3447.3	3444.4
15°	4506.7	4464.8	4198.5	3827.4	3579.0	3459.3	3414.4	3405.5	3381.5	3381.5	3378.5
17.5°	4728.1	4620.4	4192.5	3713.7	3450.3	3384.5	3357.6	3351.6	3345.6	3342.6	3351.6
20°	4949.6	4758.1	4144.6	3573.0	3360.6	3321.7	3315.7	3318.7	3312.7	3321.7	3315.7
22.5°	5144.1	4847.8	4054.8	3423.4	3297.7	3294.7	3279.8	3285.8	3306.7	3309.7	3318.7
25°	5293.7	4880.8	3923.2	3285.8	3252.8	3246.9	3264.8	3288.7	3306.7	3309.7	3324.7
27.5°	5416.4	4862.8	3758.6	3178.0	3175.0	3207.9	3261.8	3270.8	3273.8	3273.8	3261.8
30°	5509.2	4823.9	3549.1	3058.3	3073.3	3154.1	3205.0	3205.0	3181.0	3175.0	3193.0
32.5°	5530.1	4773.0	3321.7	2935.6	2959.6	3055.3	3118.2	3097.2	3070.3	3070.3	3082.3
35°	5548.1	4704.2	3139.1	2768.1	2804.0	2917.7	2977.5	2935.6	2905.7	2896.7	2893.7
37.5°	5542.1	4677.3	2974.5	2555.6	2603.5	2714.2	2753.1	2714.2	2669.3	2648.4	2675.3
40°	5548.1	4659.3	2768.1	2322.2	2370.1	2435.9	2486.8	2456.8	2414.9	2361.1	2388.0
42.5°	5584.0	4683.2	2540.6	2094.7	2094.7	2130.7	2217.4	2196.5	2094.7	2073.8	2097.7
45°	5775.5	4811.9	2313.2	1867.3	1834.4	1858.3	1948.1	1858.3	1795.5	1795.5	1816.4
47.5°	6239.3	5051.3	2112.7	1666.8	1589.0	1636.9	1660.8	1577.0	1529.2	1517.2	1538.1
50°	7185.0	5530.1	1993.0	1502.2	1406.5	1442.4	1427.4	1424.4	1376.5	1382.5	1394.5
52.5°	8621.4	6463.8	1957.1	1421.4	1301.7	1310.7	1295.7	1301.7	1292.8	1322.7	1331.7
55°	10186.4	7448.3	2002.0	1433.4	1229.9	1167.1	1173.1	1203.0	1238.9	1286.8	1295.7
57.5°	11356.5	7942.1	2118.7	1514.2	1140.1	1044.4	1059.3	1116.2	1185.0	1223.9	1244.9
60°	12227.3	7882.2	2289.3	1535.1	1032.4	933.7	960.6	1044.4	1104.2	1137.1	1158.1
62.5°	12511.6	7508.2	2331.1	1382.5	891.8	828.9	894.8	981.5	1008.5	1044.4	1059.3
65°	12278.2	6978.5	2025.9	1122.2	784.0	751.1	846.9	912.7	948.6	966.6	969.6
66°	12002.9	6661.3	1861.3	1020.4	745.1	727.2	828.9	882.8	918.7	915.7	918.7
67.5°	11398.4	5996.9	1595.0	876.8	688.3	691.3	799.0	834.9	846.9	837.9	837.9
70°	9342.6	4222.4	1143.1	664.3	604.5	646.4	718.2	727.2	754.1	742.1	742.1
72.5°	5760.5	2073.8	766.1	508.7	538.6	604.5	601.5	631.4	694.3	712.2	724.2
75°	2830.9	840.9	505.7	430.9	481.8	505.7	499.7	574.6	664.3	742.1	769.1
77.5°	1074.3	418.9	353.1	377.1	389.0	380.0	398.0	520.7	664.3	805.0	831.9
80°	332.2	290.3	278.3	311.2	293.3	278.3	299.2	430.9	562.6	610.5	610.5
82.5°	200.5	227.4	215.5	212.5	197.5	200.5	215.5	308.2	433.9	454.9	454.9
85°	140.6	149.6	122.7	116.7	113.7	110.7	110.7	179.5	257.4	254.4	263.3
87.5°	53.9	59.8	44.9	44.9	41.9	29.9	23.9	29.9	29.9	20.9	15.0
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)