

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: P1211125

Luminaire Tested: **ARCH4-180-722-U-T2RE**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1211125
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: ARCH4-180-722-U-T2RE
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2200K, 1455mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE II
ROADWAY ILLUMINANCE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24200 lumens
Efficiency: N/A
Efficacy: 134.4 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

Input Watts (W): 180
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

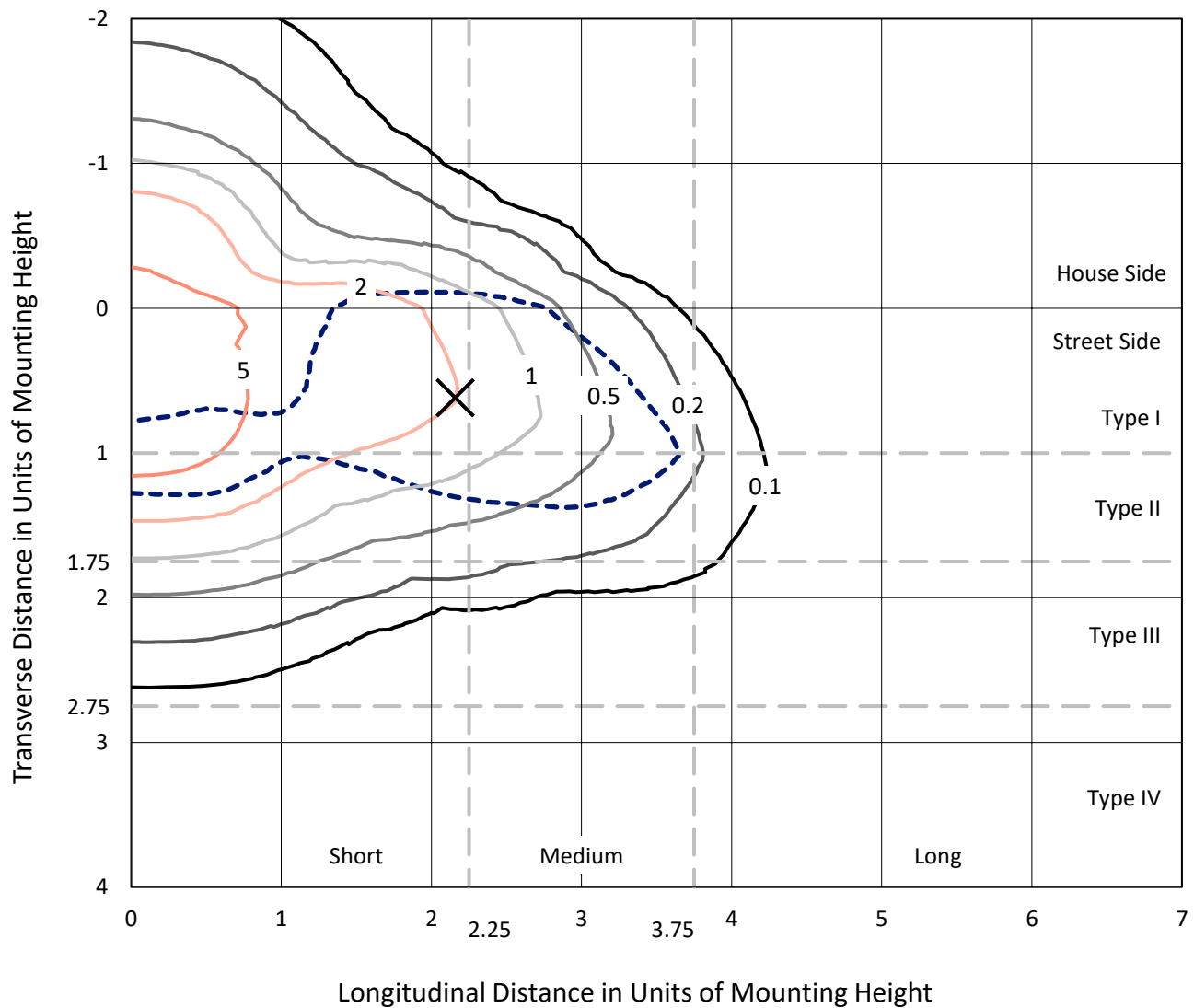


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Iso-Footcandle Lines of Horizontal Illumination

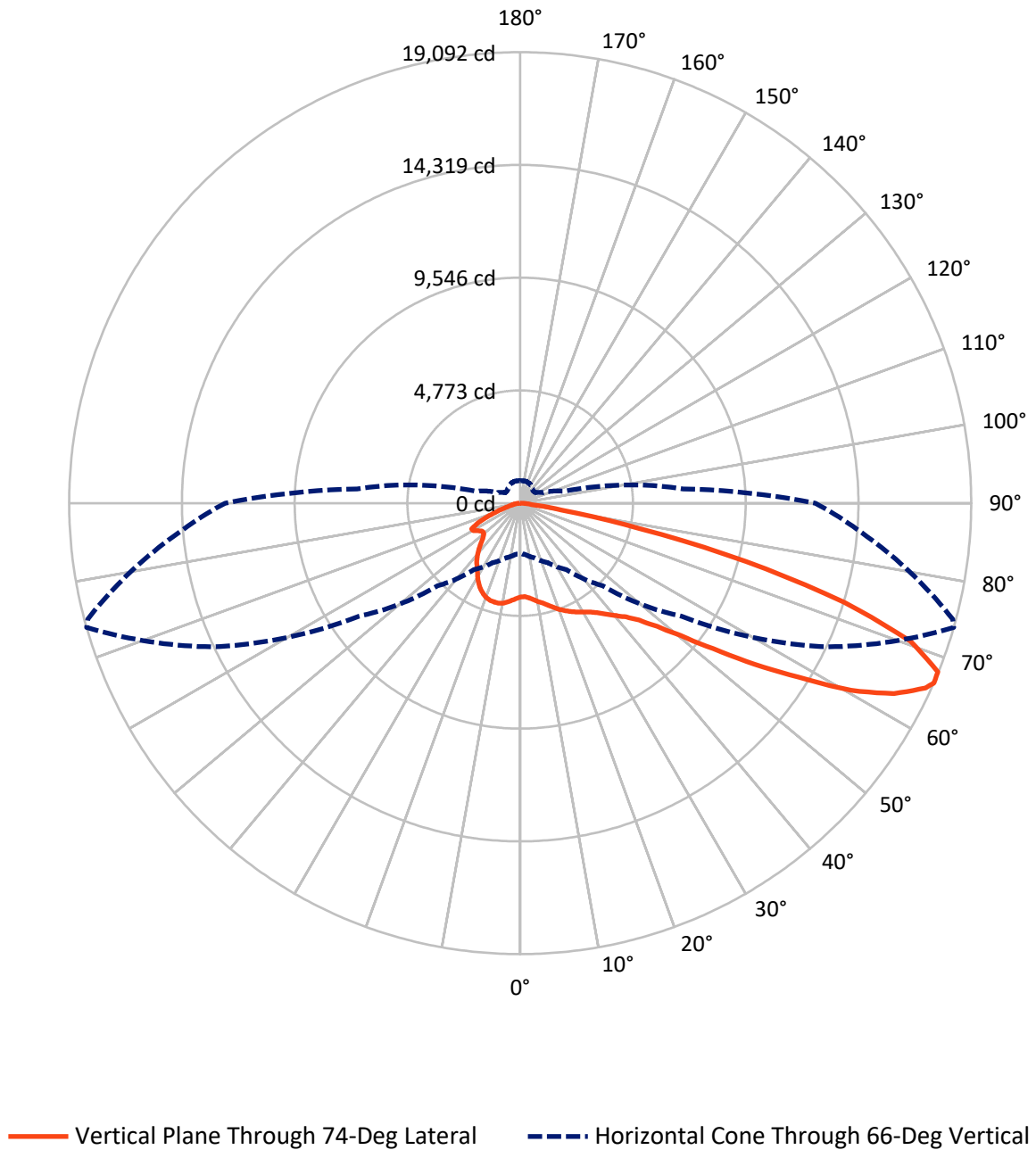
✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.6 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	5893.4	0.0	5893.4
	% Fixture	24.4	0.0	24.4
Street Side	Lumens	18306.6	0.0	18306.6
	% Fixture	75.6	0.0	75.6
Total	Lumens	24200.0	0.0	24200.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	378.4	1.6
10°-20°	1163.8	4.8
20°-30°	2183.8	9.0
30°-40°	3359.2	13.9
40°-50°	4518.4	18.7
50°-60°	5343.6	22.1
60°-70°	4943.1	20.4
70°-80°	2079.5	8.6
80°-90°	230.1	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°	24200.0	100.0
0°-180°	24200.0	100.0

Coefficient of Utilization



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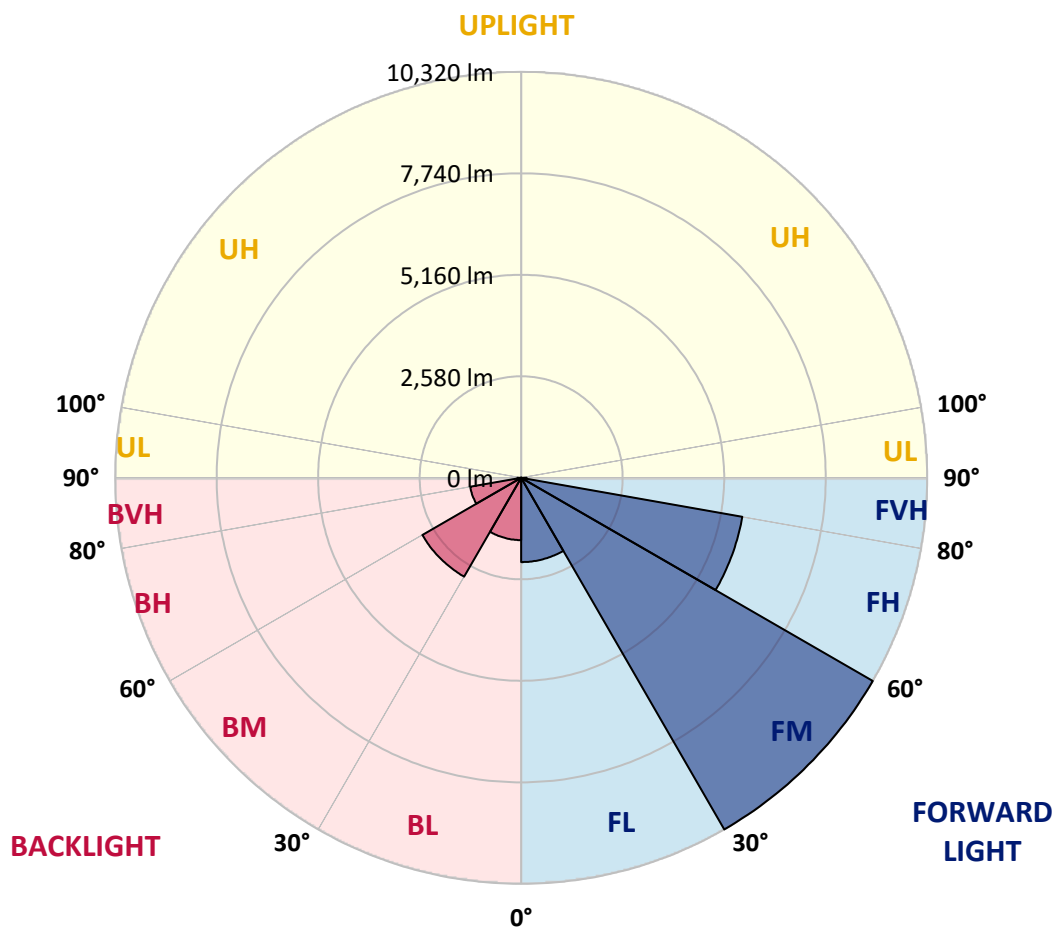
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2142.0	8.9			
FM	(30°-60°)	10319.9	42.6			
FH	(60°-80°)	5707.0	23.6			G3/7500
FVH	(80°-90°)	137.7	0.6			G2/225
BL	(0°-30°)	1584.0	6.5	B3/2500		
BM	(30°-60°)	2901.3	12.0	B3/5000		
BH	(60°-80°)	1315.6	5.4	B3/2500		G3/2500
BVH	(80°-90°)	92.4	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°	3967.2	3967.2	3967.2	3967.2	3967.2	3967.2	3967.2	3967.2	3967.2	3967.2	3967.2
2.5°	3954.7	3948.5	3961.0	3979.6	3989.0	3973.4	3967.2	3964.1	3964.1	3954.7	3970.3
5°	3767.9	3764.8	3792.8	3827.1	3892.4	3939.2	4001.4	4038.8	4026.3	4007.7	4020.1
7.5°	3525.0	3518.8	3553.0	3618.4	3708.7	3811.5	3964.1	4082.4	4129.1	4122.9	4119.8
10°	3618.4	3612.2	3609.1	3590.4	3621.5	3721.2	3880.0	4088.6	4247.4	4250.6	4253.7
12.5°	3942.3	3957.8	3942.3	3883.1	3814.6	3777.2	3870.7	4104.2	4347.1	4365.8	4443.6
15°	4384.5	4368.9	4337.7	4269.2	4163.4	4051.3	3982.8	4175.8	4490.3	4505.9	4677.2
17.5°	4773.7	4786.2	4767.5	4702.1	4577.5	4431.2	4222.5	4300.4	4642.9	4686.5	4926.3
20°	5197.2	5247.0	5222.1	5141.1	5038.4	4820.4	4558.8	4481.0	4811.1	4842.2	5184.7
22.5°	5686.1	5739.0	5692.3	5614.5	5530.4	5262.6	4926.3	4702.1	4951.2	5016.6	5433.9
25°	6271.5	6321.3	6277.7	6156.3	6050.4	5723.5	5321.8	4951.2	5088.2	5159.8	5636.3
27.5°	6735.5	6772.9	6813.3	6741.7	6579.8	6240.4	5732.8	5209.7	5225.2	5300.0	5823.1
30°	7149.7	7243.1	7277.3	7286.7	7149.7	6769.7	6153.2	5477.5	5343.6	5421.4	6009.9
32.5°	7716.4	7856.5	7800.5	7856.5	7775.6	7268.0	6589.1	5754.6	5496.1	5567.8	6187.4
35°	8544.7	8656.8	8510.5	8466.9	8336.1	7772.4	7009.5	6041.1	5698.5	5776.4	6355.6
37.5°	9435.3	9563.0	9351.2	9176.8	8927.7	8270.7	7370.7	6417.9	5978.8	6041.1	6511.3
40°	10213.8	10319.7	10135.9	9905.5	9488.2	8709.7	7682.1	6682.6	6259.1	6336.9	6691.9
42.5°	10933.1	11001.6	10796.1	10575.0	10017.6	9105.2	8018.4	6962.8	6586.0	6660.8	6838.3
45°	11661.8	11714.7	11428.2	11113.7	10459.8	9466.4	8389.0	7355.2	7065.6	7165.2	7074.9
47.5°	11792.6	11808.1	11758.3	11546.6	10808.6	9812.1	8846.8	7881.4	7797.4	7906.3	7482.8
50°	10886.4	11026.5	11334.8	11543.4	10948.7	10101.7	9304.5	8635.0	8806.3	8946.4	8329.8
52.5°	9127.0	9260.9	9974.0	10765.0	10612.4	10167.1	9796.5	9591.0	10229.4	10397.5	9482.0
55°	7271.1	7389.4	8143.0	9282.7	9525.6	9868.1	10322.8	10811.7	12044.8	12156.9	10746.3
57.5°	5988.1	6053.5	6592.3	7688.4	8077.6	8912.2	10606.1	12262.8	13891.4	14062.6	11845.5
60°	4910.7	4982.3	5384.0	6287.1	6804.0	7545.1	10381.9	13695.2	16096.1	16096.1	13256.1
62.5°	3696.3	3758.5	4132.2	4839.1	5707.9	6386.7	9665.7	14645.0	17758.9	17684.2	14277.5
65°	2537.9	2587.7	2858.6	3328.8	4110.4	5443.2	8687.9	14657.4	18861.3	18761.6	14713.5
66°	2129.9	2173.5	2404.0	2783.9	3440.9	4938.7	8342.3	14392.7	19091.7	18951.6	14529.7
67.5°	1681.5	1712.7	1865.3	2089.5	2522.3	3998.3	7797.4	13642.3	19069.9	18985.8	14062.6
70°	1202.0	1223.8	1335.9	1382.6	1491.6	2313.7	6193.7	11948.3	17540.9	17565.8	12225.4
72.5°	931.1	965.3	1033.8	1043.2	1018.3	1230.0	3758.5	9967.8	14349.1	14339.8	9074.1
75°	750.5	769.1	803.4	822.1	815.9	794.1	1591.2	7436.1	9877.5	9992.7	5082.0
77.5°	591.7	588.5	619.7	644.6	663.3	622.8	728.7	4359.5	5178.5	5032.2	1908.9
80°	436.0	436.0	479.5	488.9	516.9	523.1	485.8	1681.5	1778.1	1616.1	495.1
82.5°	286.5	286.5	333.2	339.4	367.4	407.9	351.9	504.5	492.0	467.1	224.2
85°	155.7	149.5	165.0	186.8	202.4	239.8	211.7	252.2	258.5	255.3	149.5
87.5°	31.1	28.0	43.6	49.8	56.1	74.7	68.5	102.8	143.2	140.1	65.4
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°	3967.2	3967.2	3967.2	3967.2	3967.2	3967.2	3967.2	3967.2	3967.2	3967.2	3967.2
2.5°	3992.1	3989.0	4023.2	4063.7	4110.4	4138.5	4150.9	4172.7	4157.1	4163.4	4182.0
5°	4051.3	4060.6	4110.4	4163.4	4185.2	4169.6	4135.3	4122.9	4094.9	4088.6	4082.4
7.5°	4138.5	4154.0	4203.8	4216.3	4150.9	4041.9	3964.1	3920.5	3873.8	3861.3	3855.1
10°	4281.7	4291.0	4303.5	4175.8	4013.9	3867.5	3771.0	3730.5	3699.4	3674.5	3680.7
12.5°	4462.3	4456.1	4359.5	4094.9	3864.4	3715.0	3649.6	3624.6	3602.9	3587.3	3584.2
15°	4689.6	4646.0	4368.9	3982.8	3724.3	3599.7	3553.0	3543.7	3518.8	3518.8	3515.7
17.5°	4920.1	4808.0	4362.7	3864.4	3590.4	3521.9	3493.9	3487.6	3481.4	3478.3	3487.6
20°	5150.5	4951.2	4312.8	3718.1	3497.0	3456.5	3450.3	3453.4	3447.2	3456.5	3450.3
22.5°	5352.9	5044.6	4219.4	3562.4	3431.6	3428.5	3412.9	3419.1	3440.9	3444.0	3453.4
25°	5508.6	5078.9	4082.4	3419.1	3384.9	3378.6	3397.3	3422.2	3440.9	3444.0	3459.6
27.5°	5636.3	5060.2	3911.1	3307.0	3303.9	3338.2	3394.2	3403.6	3406.7	3406.7	3394.2
30°	5732.8	5019.7	3693.2	3182.5	3198.0	3282.1	3335.1	3335.1	3310.1	3303.9	3322.6
32.5°	5754.6	4966.8	3456.5	3054.8	3079.7	3179.4	3244.7	3222.9	3194.9	3194.9	3207.4
35°	5773.3	4895.1	3266.5	2880.4	2917.8	3036.1	3098.4	3054.8	3023.7	3014.3	3011.2
37.5°	5767.1	4867.1	3095.3	2659.3	2709.1	2824.4	2864.8	2824.4	2777.7	2755.9	2783.9
40°	5773.3	4848.4	2880.4	2416.4	2466.3	2534.8	2587.7	2556.6	2513.0	2456.9	2484.9
42.5°	5810.6	4873.3	2643.8	2179.8	2179.8	2217.1	2307.4	2285.6	2179.8	2158.0	2182.9
45°	6009.9	5007.2	2407.1	1943.1	1908.9	1933.8	2027.2	1933.8	1868.4	1868.4	1890.2
47.5°	6492.6	5256.4	2198.5	1734.5	1653.5	1703.3	1728.2	1641.1	1591.2	1578.8	1600.6
50°	7476.6	5754.6	2073.9	1563.2	1463.6	1500.9	1485.4	1482.2	1432.4	1438.6	1451.1
52.5°	8971.3	6726.2	2036.5	1479.1	1354.6	1363.9	1348.3	1354.6	1345.2	1376.4	1385.7
55°	10599.9	7750.6	2083.2	1491.6	1279.8	1214.4	1220.7	1251.8	1289.2	1339.0	1348.3
57.5°	11817.5	8264.4	2204.7	1575.7	1186.4	1086.8	1102.3	1161.5	1233.1	1273.6	1295.4
60°	12723.6	8202.2	2382.2	1597.5	1074.3	971.6	999.6	1086.8	1149.1	1183.3	1205.1
62.5°	13019.5	7812.9	2425.8	1438.6	928.0	862.6	931.1	1021.4	1049.4	1086.8	1102.3
65°	12776.6	7261.8	2108.2	1167.7	815.9	781.6	881.3	949.8	987.1	1005.8	1008.9
66°	12490.1	6931.7	1936.9	1061.9	775.4	756.7	862.6	918.6	956.0	952.9	956.0
67.5°	11861.1	6240.4	1659.7	912.4	716.2	719.3	831.4	868.8	881.3	871.9	871.9
70°	9721.8	4393.8	1189.5	691.3	629.0	672.6	747.4	756.7	784.7	772.3	772.3
72.5°	5994.4	2158.0	797.2	529.4	560.5	629.0	625.9	657.0	722.4	741.1	753.6
75°	2945.8	875.0	526.3	448.4	501.3	526.3	520.0	597.9	691.3	772.3	800.3
77.5°	1117.9	436.0	367.4	392.4	404.8	395.5	414.2	541.8	691.3	837.7	865.7
80°	345.6	302.1	289.6	323.9	305.2	289.6	311.4	448.4	585.4	635.2	635.2
82.5°	208.6	236.7	224.2	221.1	205.5	208.6	224.2	320.7	451.5	473.3	473.3
85°	146.4	155.7	127.7	121.4	118.3	115.2	115.2	186.8	267.8	264.7	274.0
87.5°	56.1	62.3	46.7	46.7	43.6	31.1	24.9	31.1	31.1	21.8	15.6
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)