

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: P1210549

Luminaire Tested: **ARCH3-160-722-U-T2RE**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1210549
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: ARCH3-160-722-U-T2RE
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2200K, 1245mA LIGHTSQUARE WITH 40 LEDS AND TYPE II ROADWAY
ILLUMINANCE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18929 lumens
Efficiency: N/A
Efficacy: 117.6 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): 161
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

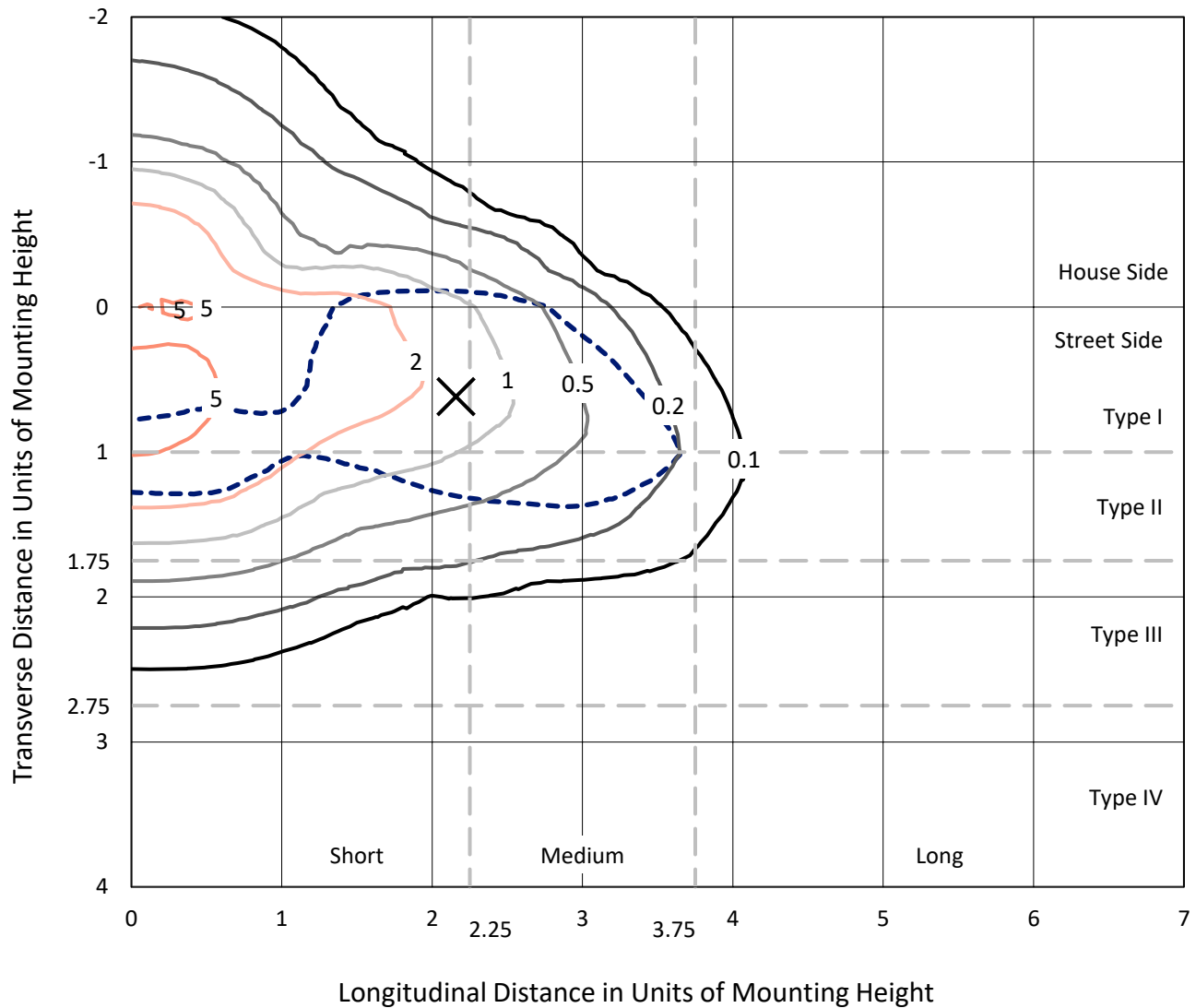


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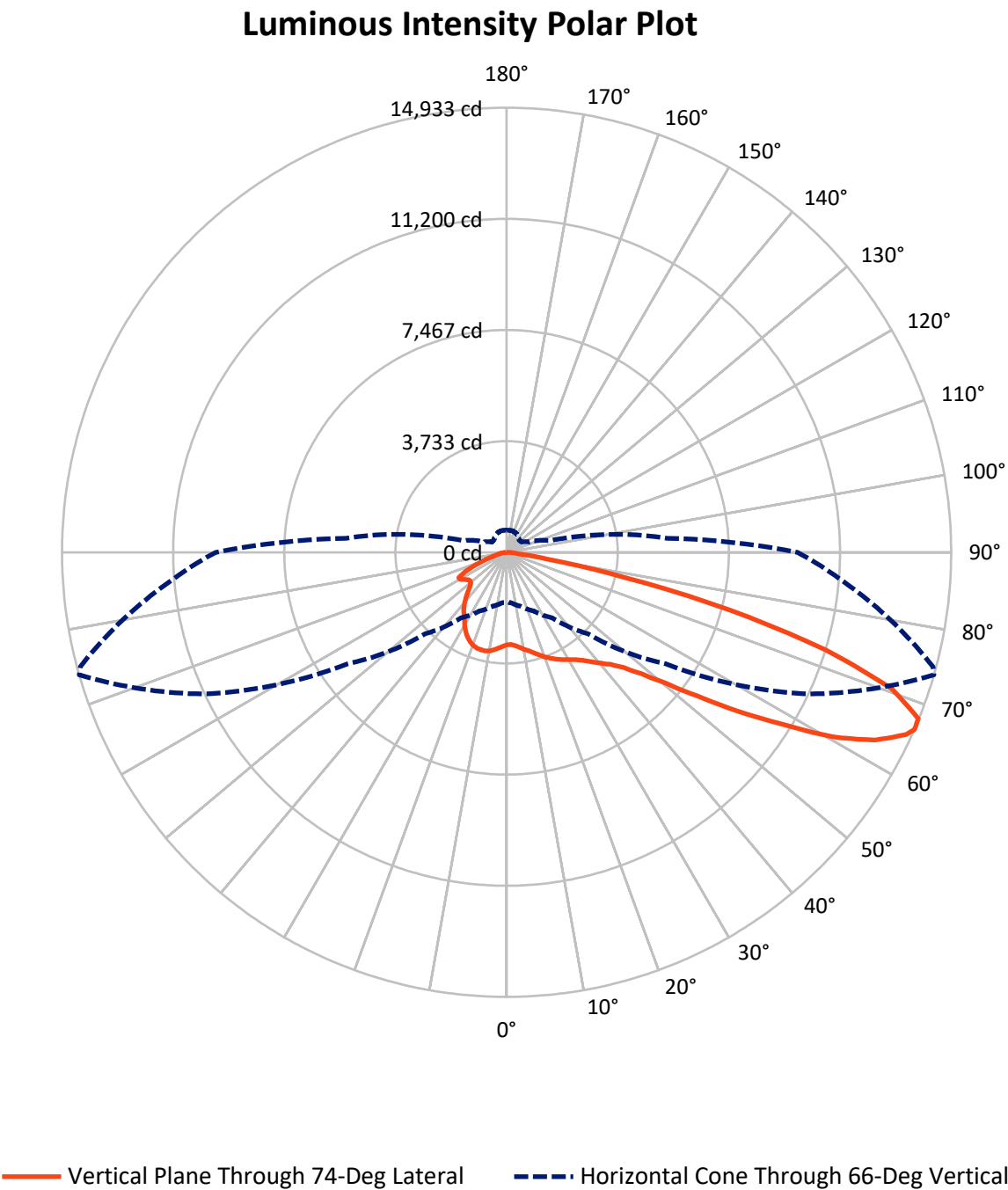
Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.9 fc
Type II - Short - N/A

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4609.7	0.0	4609.7
	% Fixture	24.4	0.0	24.4
Street Side	Lumens	14319.3	0.0	14319.3
	% Fixture	75.6	0.0	75.6
Total	Lumens	18929.0	0.0	18929.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	296.0	1.6
10°-20°	910.3	4.8
20°-30°	1708.2	9.0
30°-40°	2627.6	13.9
40°-50°	3534.3	18.7
50°-60°	4179.7	22.1
60°-70°	3866.4	20.4
70°-80°	1626.6	8.6
80°-90°	180.0	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°	18929.0	100.0
0°-180°	18929.0	100.0

Coefficient of Utilization



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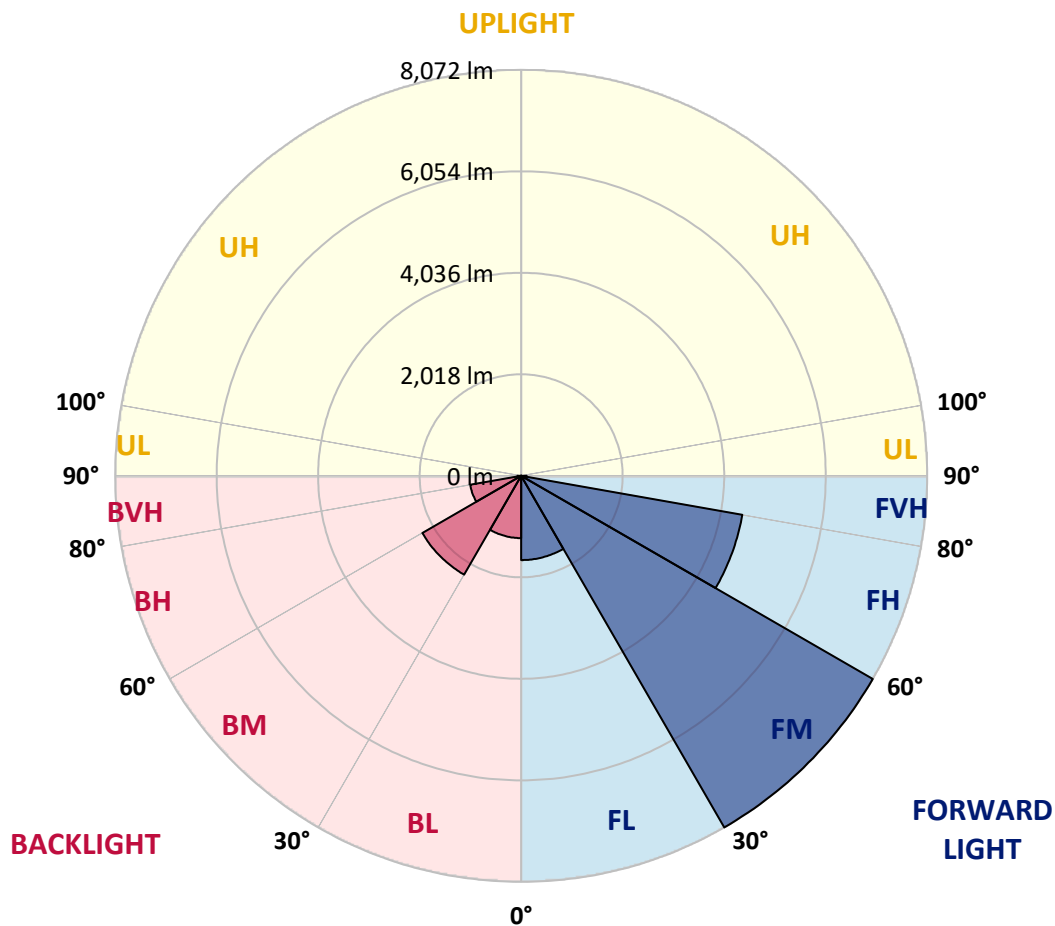
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1675.4	8.9			
FM	(30°-60°)	8072.1	42.6			
FH	(60°-80°)	4464.0	23.6			G2/5000
FVH	(80°-90°)	107.7	0.6			G2/225
BL	(0°-30°)	1239.0	6.5	B3/2500		
BM	(30°-60°)	2269.4	12.0	B2/2500		
BH	(60°-80°)	1029.0	5.4	B3/2500		G3/2500
BVH	(80°-90°)	72.3	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-G3

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	3103.1	3103.1	3103.1	3103.1	3103.1	3103.1	3103.1	3103.1	3103.1	3103.1	3103.1
2.5°	3093.3	3088.5	3098.2	3112.8	3120.1	3108.0	3103.1	3100.7	3100.7	3093.3	3105.5
5°	2947.2	2944.8	2966.7	2993.5	3044.6	3081.2	3129.9	3159.1	3149.4	3134.8	3144.5
7.5°	2757.2	2752.4	2779.1	2830.3	2900.9	2981.3	3100.7	3193.2	3229.7	3224.9	3222.4
10°	2830.3	2825.4	2823.0	2808.4	2832.7	2910.7	3034.9	3198.1	3322.3	3324.7	3327.2
12.5°	3083.6	3095.8	3083.6	3037.3	2983.7	2954.5	3027.6	3210.3	3400.2	3414.9	3475.8
15°	3429.5	3417.3	3392.9	3339.4	3256.5	3168.9	3115.3	3266.3	3512.3	3524.5	3658.4
17.5°	3733.9	3743.7	3729.1	3677.9	3580.5	3466.0	3302.8	3363.7	3631.6	3665.7	3853.3
20°	4065.2	4104.2	4084.7	4021.4	3941.0	3770.5	3565.9	3505.0	3763.2	3787.5	4055.5
22.5°	4447.6	4489.0	4452.5	4391.6	4325.8	4116.3	3853.3	3677.9	3872.8	3923.9	4250.3
25°	4905.5	4944.5	4910.4	4815.4	4732.6	4476.8	4162.6	3872.8	3979.9	4036.0	4408.6
27.5°	5268.4	5297.7	5329.3	5273.3	5146.7	4881.2	4484.1	4074.9	4087.1	4145.6	4554.8
30°	5592.4	5665.5	5692.3	5699.6	5592.4	5295.2	4813.0	4284.4	4179.7	4240.6	4700.9
32.5°	6035.7	6145.3	6101.4	6145.3	6082.0	5684.9	5154.0	4501.2	4299.0	4355.0	4839.8
35°	6683.6	6771.3	6656.8	6622.7	6520.4	6079.5	5482.8	4725.3	4457.3	4518.2	4971.3
37.5°	7380.2	7480.1	7314.4	7178.0	6983.2	6469.2	5765.3	5020.0	4676.6	4725.3	5093.1
40°	7989.1	8071.9	7928.2	7748.0	7421.6	6812.7	6008.9	5227.0	4895.8	4956.7	5234.3
42.5°	8551.8	8605.4	8444.6	8271.7	7835.7	7122.0	6271.9	5446.2	5151.5	5210.0	5348.8
45°	9121.7	9163.1	8939.0	8693.0	8181.5	7404.6	6561.8	5753.1	5526.6	5604.6	5533.9
47.5°	9224.0	9236.2	9197.2	9031.6	8454.3	7674.9	6919.8	6164.8	6099.0	6184.3	5853.0
50°	8515.2	8624.8	8866.0	9029.2	8564.0	7901.4	7277.9	6754.2	6888.2	6997.8	6515.5
52.5°	7139.1	7243.8	7801.6	8420.2	8300.9	7952.6	7662.7	7502.0	8001.3	8132.8	7416.7
55°	5687.4	5779.9	6369.4	7260.8	7450.8	7718.8	8074.4	8456.8	9421.3	9509.0	8405.6
57.5°	4683.9	4735.0	5156.4	6013.8	6318.2	6971.0	8296.0	9591.8	10865.7	10999.7	9265.4
60°	3841.1	3897.1	4211.3	4917.7	5322.0	5901.7	8120.7	10712.2	12590.2	12590.2	10368.8
62.5°	2891.2	2939.9	3232.2	3785.1	4464.7	4995.6	7560.4	11455.1	13890.8	13832.4	11167.7
65°	1985.1	2024.1	2236.0	2603.8	3215.1	4257.6	6795.6	11464.9	14753.1	14675.1	11508.7
66°	1666.0	1700.1	1880.4	2177.5	2691.5	3863.0	6525.3	11257.8	14933.3	14823.7	11365.0
67.5°	1315.3	1339.6	1459.0	1634.4	1972.9	3127.4	6099.0	10670.8	14916.3	14850.5	10999.7
70°	940.2	957.2	1044.9	1081.5	1166.7	1809.7	4844.6	9345.8	13720.3	13739.8	9562.6
72.5°	728.3	755.1	808.7	816.0	796.5	962.1	2939.9	7796.7	11223.7	11216.4	7097.7
75°	587.0	601.6	628.4	643.0	638.2	621.1	1244.6	5816.5	7726.1	7816.2	3975.1
77.5°	462.8	460.3	484.7	504.2	518.8	487.1	570.0	3410.0	4050.6	3936.1	1493.1
80°	341.0	341.0	375.1	382.4	404.3	409.2	380.0	1315.3	1390.8	1264.1	387.3
82.5°	224.1	224.1	260.6	265.5	287.4	319.1	275.2	394.6	384.8	365.4	175.4
85°	121.8	116.9	129.1	146.1	158.3	187.5	165.6	197.3	202.2	199.7	116.9
87.5°	24.4	21.9	34.1	39.0	43.8	58.5	53.6	80.4	112.0	109.6	51.1
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°	3103.1	3103.1	3103.1	3103.1	3103.1	3103.1	3103.1	3103.1	3103.1	3103.1	3103.1
2.5°	3122.6	3120.1	3146.9	3178.6	3215.1	3237.1	3246.8	3263.8	3251.7	3256.5	3271.2
5°	3168.9	3176.2	3215.1	3256.5	3273.6	3261.4	3234.6	3224.9	3203.0	3198.1	3193.2
7.5°	3237.1	3249.2	3288.2	3297.9	3246.8	3161.5	3100.7	3066.6	3030.0	3020.3	3015.4
10°	3349.1	3356.4	3366.1	3266.3	3139.6	3025.1	2949.6	2918.0	2893.6	2874.1	2879.0
12.5°	3490.4	3485.5	3410.0	3203.0	3022.7	2905.8	2854.7	2835.2	2818.1	2805.9	2803.5
15°	3668.2	3634.1	3417.3	3115.3	2913.1	2815.7	2779.1	2771.8	2752.4	2752.4	2749.9
17.5°	3848.4	3760.7	3412.4	3022.7	2808.4	2754.8	2732.9	2728.0	2723.1	2720.7	2728.0
20°	4028.7	3872.8	3373.5	2908.2	2735.3	2703.6	2698.8	2701.2	2696.3	2703.6	2698.8
22.5°	4187.0	3945.8	3300.4	2786.5	2684.2	2681.7	2669.5	2674.4	2691.5	2693.9	2701.2
25°	4308.8	3972.6	3193.2	2674.4	2647.6	2642.7	2657.4	2676.8	2691.5	2693.9	2706.1
27.5°	4408.6	3958.0	3059.2	2586.7	2584.3	2611.1	2654.9	2662.2	2664.7	2664.7	2654.9
30°	4484.1	3926.4	2888.8	2489.3	2501.5	2567.2	2608.6	2608.6	2589.2	2584.3	2598.9
32.5°	4501.2	3885.0	2703.6	2389.4	2408.9	2486.9	2538.0	2521.0	2499.0	2499.0	2508.8
35°	4515.8	3828.9	2555.1	2253.0	2282.3	2374.8	2423.5	2389.4	2365.1	2357.8	2355.3
37.5°	4510.9	3807.0	2421.1	2080.1	2119.1	2209.2	2240.9	2209.2	2172.7	2155.6	2177.5
40°	4515.8	3792.4	2253.0	1890.1	1929.1	1982.7	2024.1	1999.7	1965.6	1921.8	1943.7
42.5°	4545.0	3811.9	2067.9	1705.0	1705.0	1734.2	1804.9	1787.8	1705.0	1687.9	1707.4
45°	4700.9	3916.6	1882.8	1519.9	1493.1	1512.6	1585.6	1512.6	1461.4	1461.4	1478.5
47.5°	5078.5	4111.5	1719.6	1356.7	1293.4	1332.3	1351.8	1283.6	1244.6	1234.9	1252.0
50°	5848.1	4501.2	1622.2	1222.7	1144.8	1174.0	1161.8	1159.4	1120.4	1125.3	1135.0
52.5°	7017.3	5261.1	1593.0	1157.0	1059.5	1066.8	1054.7	1059.5	1052.2	1076.6	1083.9
55°	8291.2	6062.5	1629.5	1166.7	1001.1	949.9	954.8	979.2	1008.4	1047.4	1054.7
57.5°	9243.5	6464.4	1724.5	1232.5	928.0	850.1	862.2	908.5	964.5	996.2	1013.3
60°	9952.3	6415.7	1863.3	1249.5	840.3	759.9	781.9	850.1	898.8	925.6	942.6
62.5°	10183.7	6111.2	1897.4	1125.3	725.8	674.7	728.3	798.9	820.8	850.1	862.2
65°	9993.7	5680.1	1649.0	913.4	638.2	611.4	689.3	742.9	772.1	786.7	789.2
66°	9769.6	5421.9	1515.0	830.6	606.5	591.9	674.7	718.5	747.8	745.3	747.8
67.5°	9277.6	4881.2	1298.2	713.7	560.2	562.6	650.3	679.6	689.3	682.0	682.0
70°	7604.3	3436.8	930.4	540.7	492.0	526.1	584.6	591.9	613.8	604.1	604.1
72.5°	4688.7	1687.9	623.5	414.1	438.4	492.0	489.6	513.9	565.1	579.7	589.4
75°	2304.2	684.4	411.6	350.7	392.1	411.6	406.8	467.7	540.7	604.1	626.0
77.5°	874.4	341.0	287.4	306.9	316.6	309.3	323.9	423.8	540.7	655.2	677.1
80°	270.4	236.3	226.5	253.3	238.7	226.5	243.6	350.7	457.9	496.9	496.9
82.5°	163.2	185.1	175.4	172.9	160.8	163.2	175.4	250.9	353.2	370.2	370.2
85°	114.5	121.8	99.9	95.0	92.6	90.1	90.1	146.1	209.5	207.0	214.3
87.5°	43.8	48.7	36.5	36.5	34.1	24.4	19.5	24.4	24.4	17.0	12.2
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)