

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: P1210873

Luminaire Tested: **ARCH4-100-727-U-T2RE**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1210873
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: ARCH4-100-727-U-T2RE
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 845mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE II
ROADWAY ILLUMINANCE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16428 lumens
Efficiency: N/A
Efficacy: 159.3 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



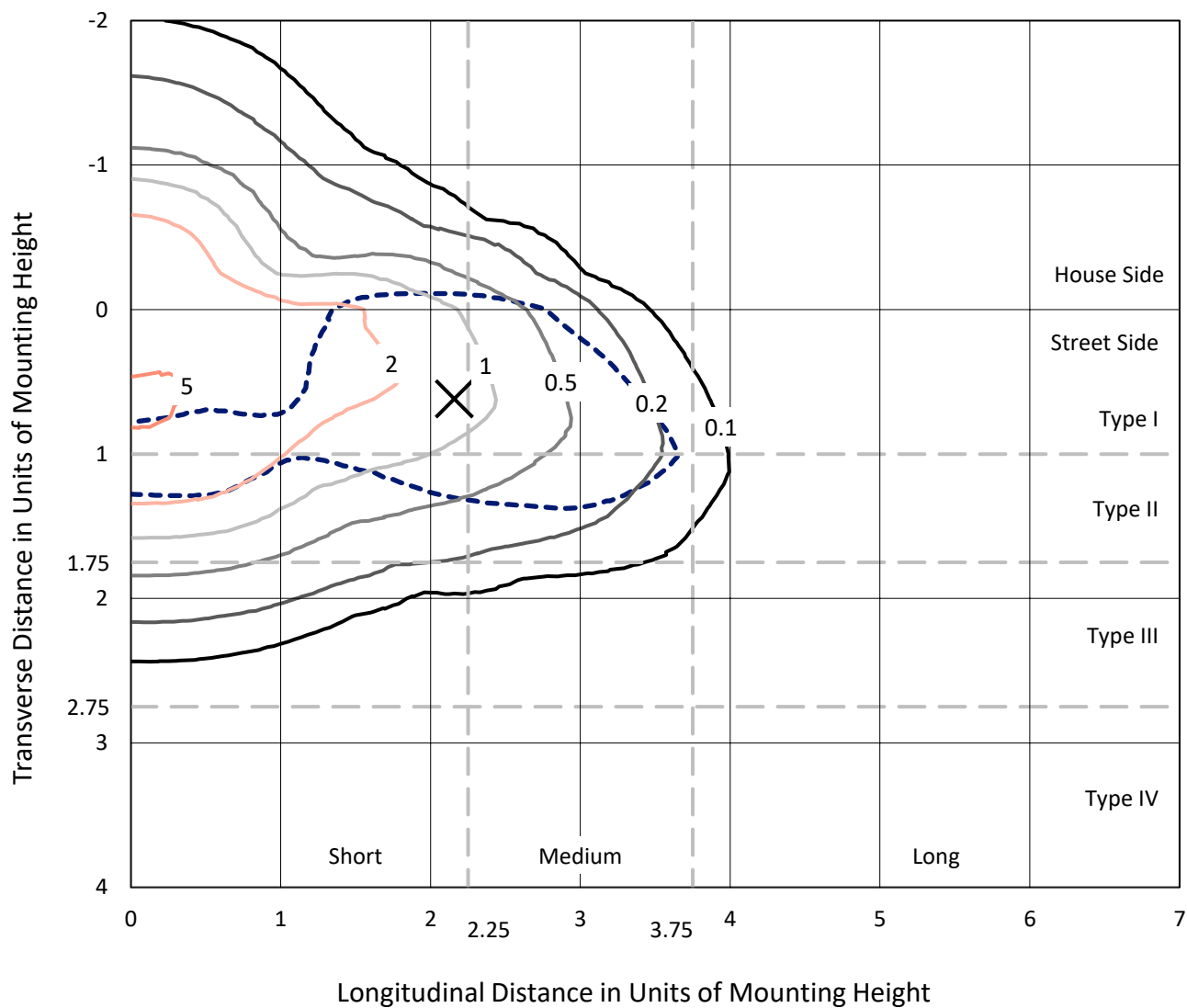
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Iso-Footcandle Lines of Horizontal Illumination

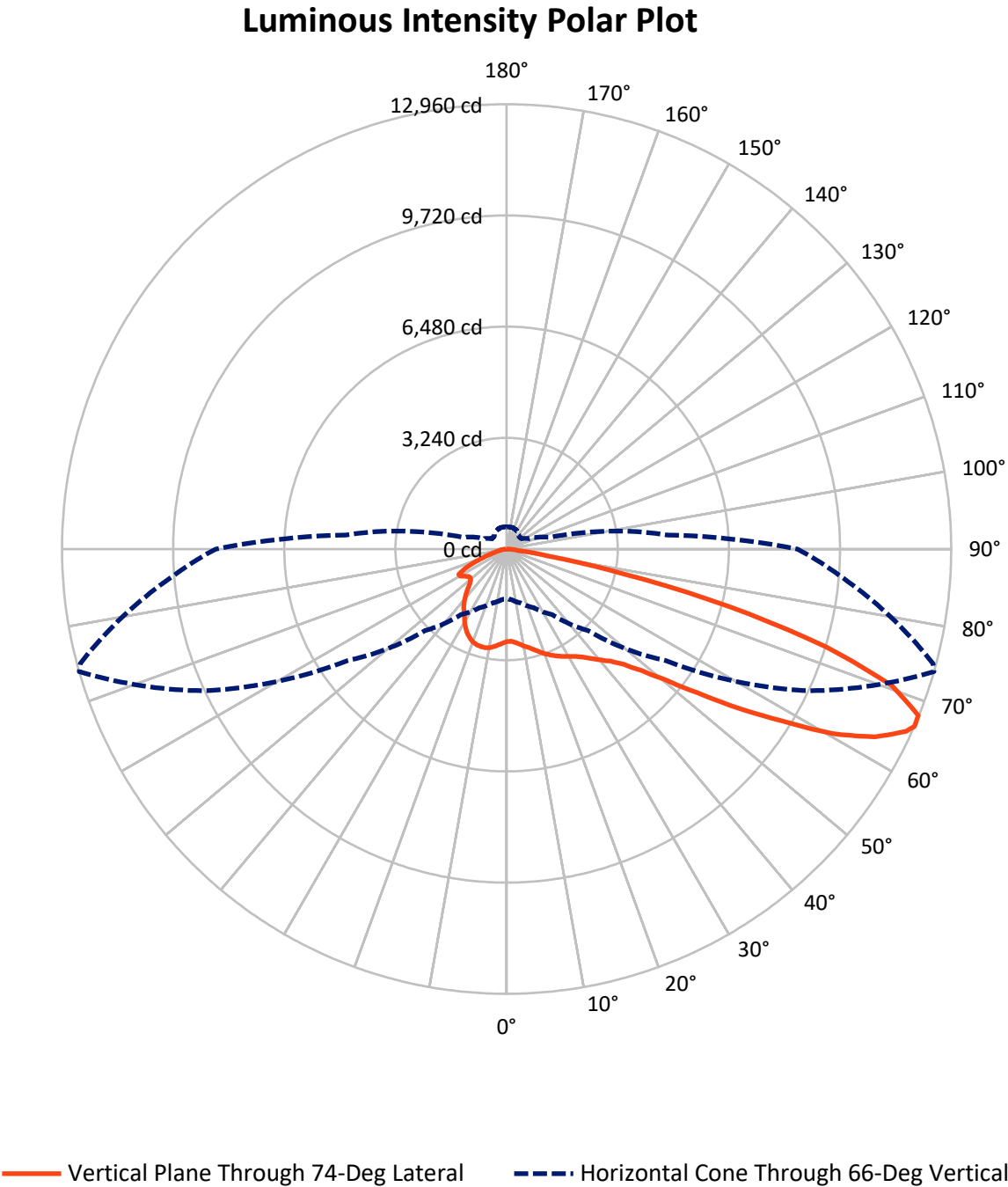
✕ Max cd

--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.2 fc
Type II - Short - N/A

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4000.7	0.0	4000.7
	% Fixture	24.4	0.0	24.4
Street Side	Lumens	12427.3	0.0	12427.3
	% Fixture	75.6	0.0	75.6
Total	Lumens	16428.0	0.0	16428.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	256.9	1.6
10°-20°	790.0	4.8
20°-30°	1482.5	9.0
30°-40°	2280.4	13.9
40°-50°	3067.3	18.7
50°-60°	3627.5	22.1
60°-70°	3355.6	20.4
70°-80°	1411.7	8.6
80°-90°	156.2	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°	16428.0	100.0
0°-180°	16428.0	100.0

Coefficient of Utilization



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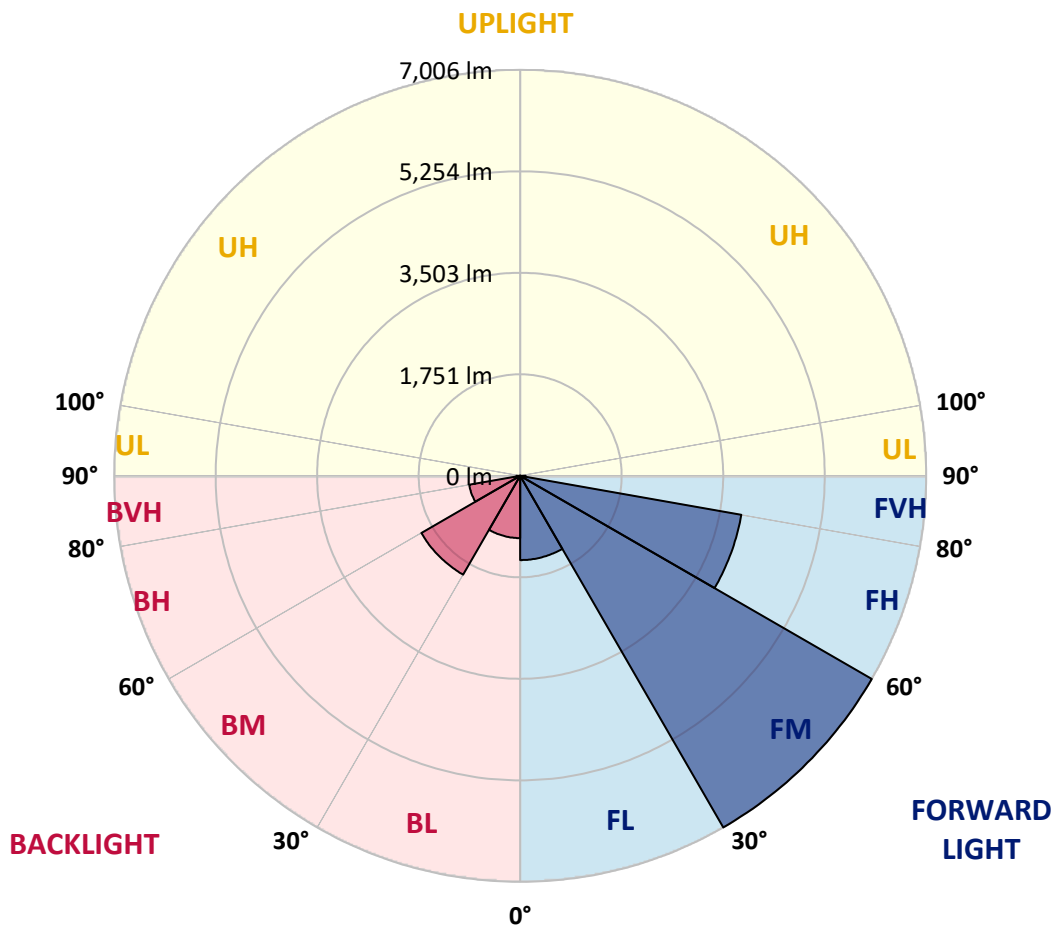
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1454.1	8.9			
FM	(30°-60°)	7005.6	42.6			
FH	(60°-80°)	3874.2	23.6			G2/5000
FVH	(80°-90°)	93.5	0.6			G1/100
BL	(0°-30°)	1075.3	6.5	B3/2500		
BM	(30°-60°)	1969.5	12.0	B2/2500		
BH	(60°-80°)	893.1	5.4	B2/1000		G2/1000
BVH	(80°-90°)	62.7	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°	2693.1	2693.1	2693.1	2693.1	2693.1	2693.1	2693.1	2693.1	2693.1	2693.1	2693.1
2.5°	2684.6	2680.4	2688.9	2701.6	2707.9	2697.3	2693.1	2691.0	2691.0	2684.6	2695.2
5°	2557.8	2555.7	2574.7	2598.0	2642.4	2674.1	2716.3	2741.7	2733.3	2720.6	2729.0
7.5°	2392.9	2388.7	2411.9	2456.3	2517.6	2587.4	2691.0	2771.3	2803.0	2798.8	2796.7
10°	2456.3	2452.1	2450.0	2437.3	2458.5	2526.1	2633.9	2775.5	2883.3	2885.5	2887.6
12.5°	2676.2	2686.8	2676.2	2636.0	2589.5	2564.1	2627.6	2786.1	2951.0	2963.7	3016.5
15°	2976.4	2965.8	2944.6	2898.1	2826.3	2750.2	2703.7	2834.7	3048.2	3058.8	3175.1
17.5°	3240.6	3249.0	3236.4	3192.0	3107.4	3008.1	2866.4	2919.3	3151.8	3181.4	3344.2
20°	3528.1	3561.9	3545.0	3490.0	3420.3	3272.3	3094.7	3041.9	3266.0	3287.1	3519.6
22.5°	3860.0	3895.9	3864.2	3811.3	3754.3	3572.5	3344.2	3192.0	3361.1	3405.5	3688.7
25°	4257.4	4291.2	4261.6	4179.2	4107.3	3885.3	3612.6	3361.1	3454.1	3502.7	3826.1
27.5°	4572.3	4597.7	4625.2	4576.6	4466.6	4236.2	3891.7	3536.5	3547.1	3597.8	3953.0
30°	4853.5	4916.9	4940.2	4946.5	4853.5	4595.6	4177.0	3718.3	3627.4	3680.3	4079.8
32.5°	5238.2	5333.3	5295.3	5333.3	5278.4	4933.8	4473.0	3906.5	3731.0	3779.6	4200.3
35°	5800.5	5876.6	5777.3	5747.7	5658.9	5276.3	4758.4	4100.9	3868.4	3921.3	4314.4
37.5°	6405.1	6491.8	6348.0	6229.6	6060.5	5614.5	5003.6	4356.7	4058.7	4100.9	4420.1
40°	6933.6	7005.4	6880.7	6724.3	6441.0	5912.5	5215.0	4536.4	4248.9	4301.8	4542.7
42.5°	7421.9	7468.4	7328.9	7178.8	6800.4	6181.0	5443.3	4726.7	4470.9	4521.6	4642.1
45°	7916.5	7952.5	7758.0	7544.5	7100.6	6426.2	5694.8	4993.0	4796.4	4864.1	4802.8
47.5°	8005.3	8015.9	7982.0	7838.3	7337.3	6660.9	6005.6	5350.3	5293.2	5367.2	5079.7
50°	7390.2	7485.3	7694.6	7836.2	7432.4	6857.5	6316.3	5861.8	5978.1	6073.2	5654.7
52.5°	6195.8	6286.7	6770.8	7307.7	7204.1	6901.8	6650.3	6510.8	6944.1	7058.3	6436.8
55°	4935.9	5016.3	5527.8	6301.5	6466.4	6698.9	7007.5	7339.4	8176.5	8252.6	7295.0
57.5°	4065.0	4109.4	4475.1	5219.2	5483.4	6050.0	7199.9	8324.5	9430.1	9546.3	8041.2
60°	3333.6	3382.2	3654.9	4267.9	4618.8	5122.0	7047.7	9296.9	10926.7	10926.7	8998.8
62.5°	2509.2	2551.5	2805.1	3285.0	3874.8	4335.6	6561.5	9941.6	12055.5	12004.8	9692.2
65°	1722.8	1756.6	1940.6	2259.7	2790.3	3695.1	5897.8	9950.1	12803.8	12736.2	9988.1
66°	1445.9	1475.5	1631.9	1889.8	2335.8	3352.6	5663.1	9770.4	12960.3	12865.1	9863.4
67.5°	1141.5	1162.6	1266.2	1418.4	1712.3	2714.2	5293.2	9261.0	12945.5	12888.4	9546.3
70°	816.0	830.8	906.9	938.6	1012.6	1570.6	4204.5	8111.0	11907.5	11924.5	8299.1
72.5°	632.1	655.3	701.8	708.2	691.2	835.0	2551.5	6766.6	9740.8	9734.5	6159.9
75°	509.4	522.1	545.4	558.1	553.8	539.0	1080.2	5048.0	6705.3	6783.5	3449.9
77.5°	401.6	399.5	420.7	437.6	450.3	422.8	494.7	2959.4	3515.4	3416.0	1295.8
80°	295.9	295.9	325.5	331.9	350.9	355.1	329.8	1141.5	1207.0	1097.1	336.1
82.5°	194.5	194.5	226.2	230.4	249.4	276.9	238.9	342.5	334.0	317.1	152.2
85°	105.7	101.5	112.0	126.8	137.4	162.8	143.7	171.2	175.5	173.3	101.5
87.5°	21.1	19.0	29.6	33.8	38.1	50.7	46.5	69.8	97.2	95.1	44.4
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°	2693.1	2693.1	2693.1	2693.1	2693.1	2693.1	2693.1	2693.1	2693.1	2693.1	2693.1
2.5°	2710.0	2707.9	2731.1	2758.6	2790.3	2809.4	2817.8	2832.6	2822.0	2826.3	2839.0
5°	2750.2	2756.5	2790.3	2826.3	2841.1	2830.5	2807.2	2798.8	2779.8	2775.5	2771.3
7.5°	2809.4	2819.9	2853.8	2862.2	2817.8	2743.8	2691.0	2661.4	2629.7	2621.2	2617.0
10°	2906.6	2912.9	2921.4	2834.7	2724.8	2625.5	2559.9	2532.4	2511.3	2494.4	2498.6
12.5°	3029.2	3025.0	2959.4	2779.8	2623.3	2521.9	2477.5	2460.6	2445.8	2435.2	2433.1
15°	3183.5	3153.9	2965.8	2703.7	2528.2	2443.7	2411.9	2405.6	2388.7	2388.7	2386.6
17.5°	3339.9	3263.8	2961.6	2623.3	2437.3	2390.8	2371.8	2367.6	2363.3	2361.2	2367.6
20°	3496.4	3361.1	2927.7	2524.0	2373.9	2346.4	2342.2	2344.3	2340.1	2346.4	2342.2
22.5°	3633.8	3424.5	2864.3	2418.3	2329.5	2327.4	2316.8	2321.1	2335.8	2338.0	2344.3
25°	3739.5	3447.8	2771.3	2321.1	2297.8	2293.6	2306.3	2323.2	2335.8	2338.0	2348.5
27.5°	3826.1	3435.1	2655.0	2245.0	2242.8	2266.1	2304.1	2310.5	2312.6	2312.6	2304.1
30°	3891.7	3407.6	2507.1	2160.4	2171.0	2228.0	2264.0	2264.0	2247.1	2242.8	2255.5
32.5°	3906.5	3371.7	2346.4	2073.7	2090.6	2158.3	2202.7	2187.9	2168.9	2168.9	2177.3
35°	3919.2	3323.0	2217.5	1955.3	1980.7	2061.0	2103.3	2073.7	2052.6	2046.2	2044.1
37.5°	3914.9	3304.0	2101.2	1805.3	1839.1	1917.3	1944.8	1917.3	1885.6	1870.8	1889.8
40°	3919.2	3291.3	1955.3	1640.4	1674.2	1720.7	1756.6	1735.5	1705.9	1667.9	1686.9
42.5°	3944.5	3308.2	1794.7	1479.7	1479.7	1505.1	1566.4	1551.6	1479.7	1464.9	1481.8
45°	4079.8	3399.1	1634.0	1319.1	1295.8	1312.7	1376.1	1312.7	1268.3	1268.3	1283.1
47.5°	4407.5	3568.2	1492.4	1177.4	1122.5	1156.3	1173.2	1114.0	1080.2	1071.7	1086.5
50°	5075.4	3906.5	1407.9	1061.2	993.5	1018.9	1008.3	1006.2	972.4	976.6	985.1
52.5°	6090.1	4566.0	1382.5	1004.1	919.5	925.9	915.3	919.5	913.2	934.3	940.7
55°	7195.7	5261.5	1414.2	1012.6	868.8	824.4	828.6	849.8	875.2	909.0	915.3
57.5°	8022.2	5610.3	1496.6	1069.6	805.4	737.7	748.3	788.5	837.1	864.6	879.4
60°	8637.4	5568.0	1617.1	1084.4	729.3	659.5	678.6	737.7	780.0	803.3	818.1
62.5°	8838.2	5303.7	1646.7	976.6	629.9	585.5	632.1	693.4	712.4	737.7	748.3
65°	8673.3	4929.6	1431.1	792.7	553.8	530.6	598.2	644.7	670.1	682.8	684.9
66°	8478.8	4705.5	1314.8	720.8	526.4	513.7	585.5	623.6	649.0	646.9	649.0
67.5°	8051.8	4236.2	1126.7	619.4	486.2	488.3	564.4	589.8	598.2	591.9	591.9
70°	6599.6	2982.7	807.5	469.3	427.0	456.6	507.3	513.7	532.7	524.2	524.2
72.5°	4069.2	1464.9	541.2	359.4	380.5	427.0	424.9	446.0	490.4	503.1	511.6
75°	1999.7	594.0	357.2	304.4	340.3	357.2	353.0	405.9	469.3	524.2	543.3
77.5°	758.9	295.9	249.4	266.4	274.8	268.5	281.1	367.8	469.3	568.6	587.7
80°	234.6	205.0	196.6	219.8	207.2	196.6	211.4	304.4	397.4	431.2	431.2
82.5°	141.6	160.7	152.2	150.1	139.5	141.6	152.2	217.7	306.5	321.3	321.3
85°	99.4	105.7	86.7	82.4	80.3	78.2	78.2	126.8	181.8	179.7	186.0
87.5°	38.1	42.3	31.7	31.7	29.6	21.1	16.9	21.1	21.1	14.8	10.6
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)