

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: P1211063

Luminaire Tested: **ARCH4-160-722-U-T3RE**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1211063
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2510-578-2)
Test Lab: INNOVATION CENTER
Issue Date: 11/5/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-160-722-U-T3RE
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2200K, 1305mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE III
ROADWAY ILLUMINANCE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22016 lumens
Efficiency: N/A
Efficacy: 137.0 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G3

Input Watts (W): 160.7
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

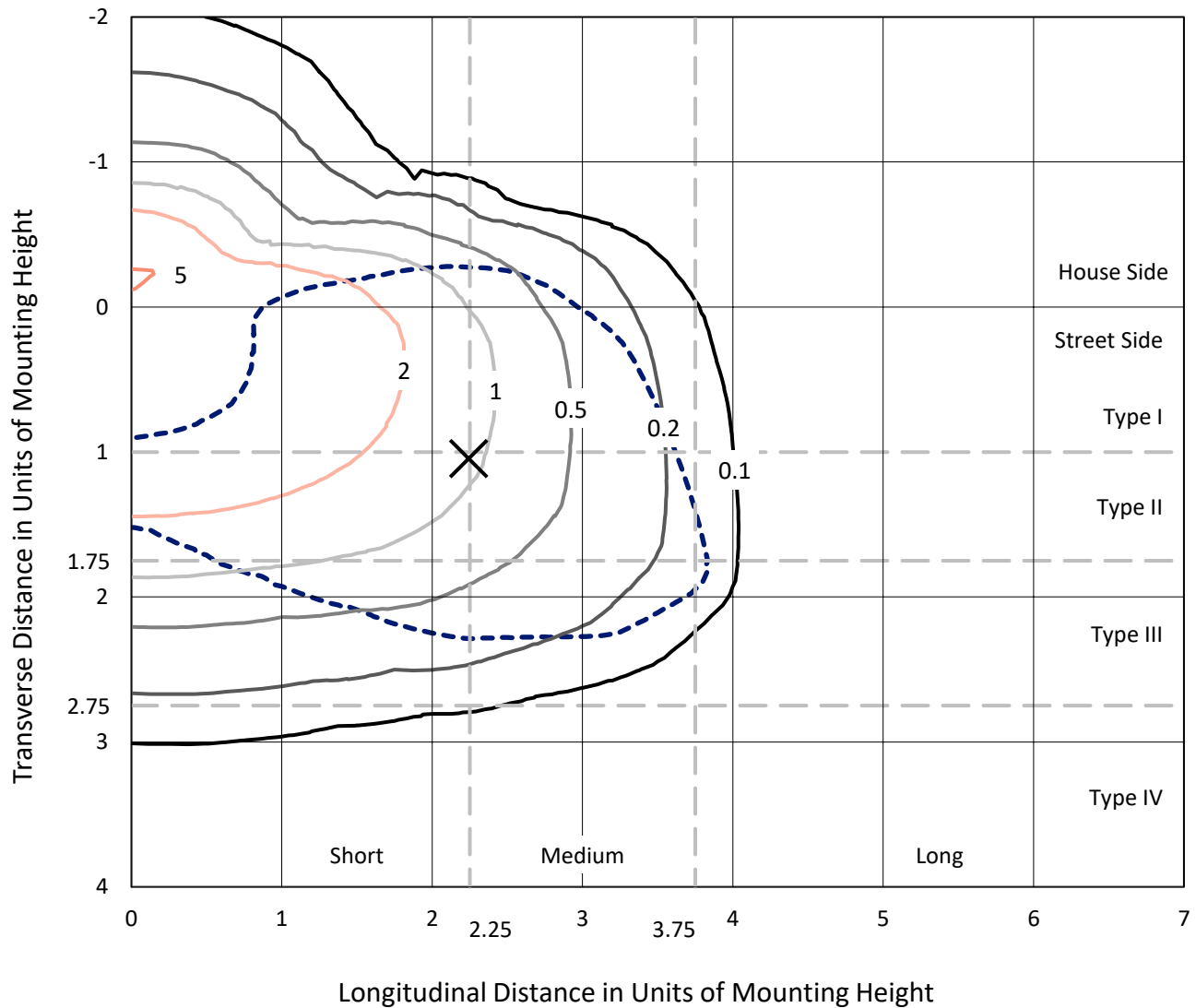


REPORT NUMBER: P1211063

CATALOG NUMBER: ARCH4-160-722-U-T3RE

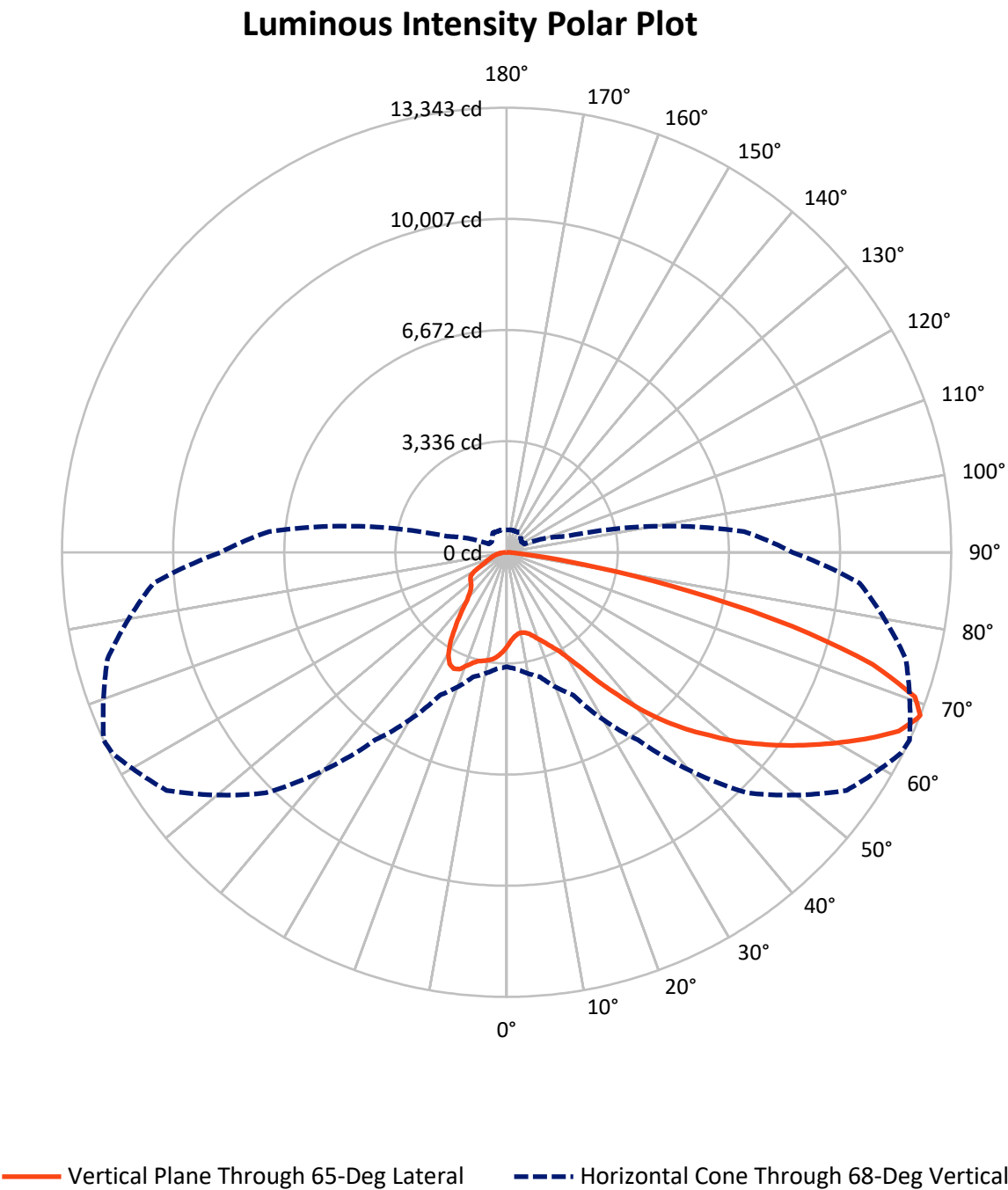
Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.1 fc
Type III - Short - N/A

REPORT NUMBER: P1211063
CATALOG NUMBER: ARCH4-160-722-U-T3RE



REPORT NUMBER: P1211063

CATALOG NUMBER: ARCH4-160-722-U-T3RE

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5397.7	0.0	5397.7
	% Fixture	24.5	0.0	24.5
Street Side	Lumens	16618.3	0.0	16618.3
	% Fixture	75.5	0.0	75.5
Total	Lumens	22016.0	0.0	22016.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	268.9	1.2
10°-20°	875.4	4.0
20°-30°	1584.5	7.2
30°-40°	2492.6	11.3
40°-50°	3712.4	16.9
50°-60°	4869.9	22.1
60°-70°	5325.6	24.2
70°-80°	2635.3	12.0
80°-90°	251.4	1.1
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°	22016.0	100.0
0°-180°	22016.0	100.0

Coefficient of Utilization



REPORT NUMBER: P1211063

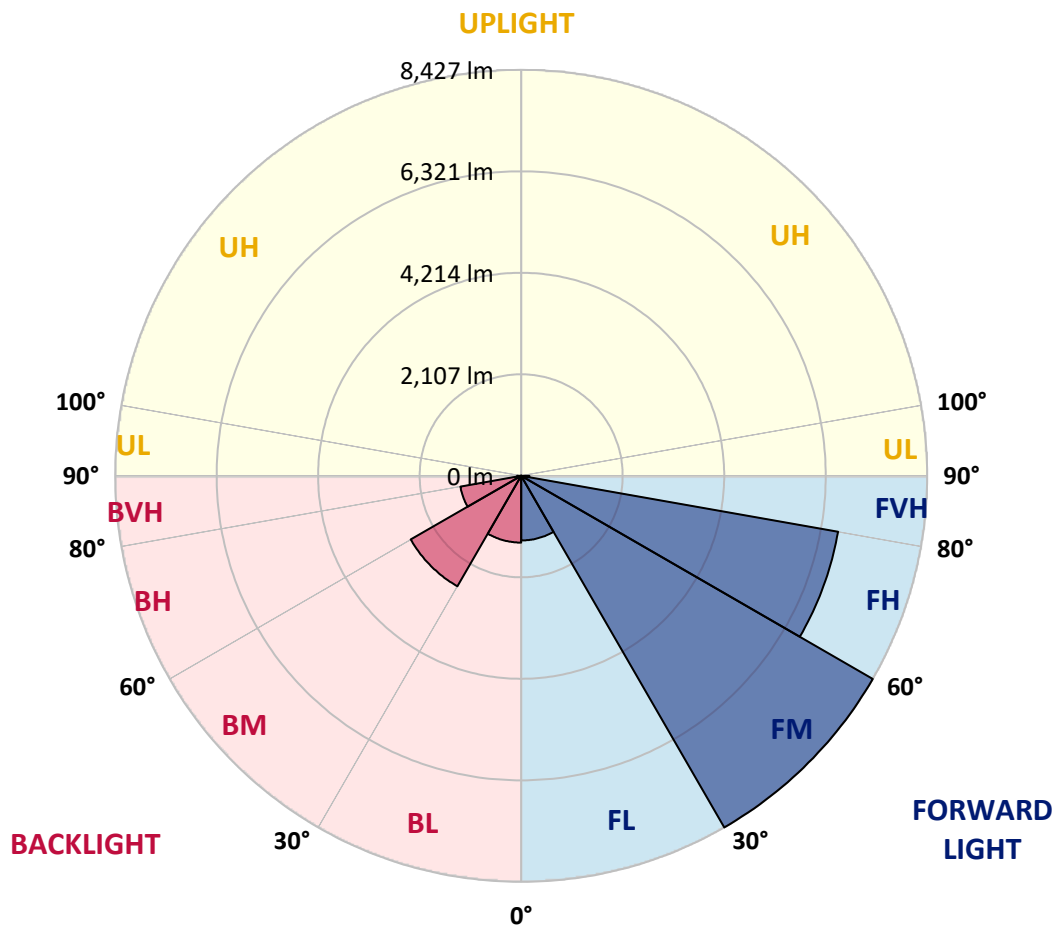
CATALOG NUMBER: ARCH4-160-722-U-T3RE

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1342.1	6.1			
FM	(30°-60°)	8427.4	38.3			
FH	(60°-80°)	6679.7	30.3			G3/7500
FVH	(80°-90°)	169.1	0.8			G2/225
BL	(0°-30°)	1386.7	6.3	B3/2500		
BM	(30°-60°)	2647.5	12.0	B3/5000		
BH	(60°-80°)	1281.1	5.8	B3/2500		G3/2500
BVH	(80°-90°)	82.3	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 III Short



REPORT NUMBER: P1211063

CATALOG NUMBER: ARCH4-160-722-U-T3RE

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°	85°
0°	2813.4	2813.4	2813.4	2813.4	2813.4	2813.4	2813.4	2813.4	2813.4	2813.4	2813.4
2.5°	2455.7	2450.0	2464.2	2478.4	2509.6	2546.5	2597.6	2640.2	2645.9	2725.4	2787.8
5°	2310.9	2302.4	2316.6	2333.6	2347.8	2393.2	2447.2	2509.6	2535.2	2651.6	2785.0
7.5°	2325.1	2322.2	2327.9	2322.2	2322.2	2342.1	2379.0	2441.5	2469.9	2609.0	2799.2
10°	2407.4	2413.1	2415.9	2398.9	2381.9	2373.3	2384.7	2427.3	2447.2	2611.8	2861.6
12.5°	2543.7	2552.2	2555.0	2523.8	2501.1	2464.2	2444.3	2461.4	2475.5	2640.2	2949.6
15°	2728.2	2733.9	2714.0	2694.1	2637.4	2591.9	2543.7	2529.5	2535.2	2699.8	3049.0
17.5°	2944.0	2935.5	2935.5	2887.2	2813.4	2742.4	2662.9	2651.6	2651.6	2796.3	3191.0
20°	3179.6	3188.1	3162.6	3097.3	3023.5	2912.7	2833.2	2782.1	2787.8	2907.1	3364.1
22.5°	3520.3	3534.5	3466.3	3372.6	3259.1	3131.3	3017.8	2935.5	2938.3	3051.8	3543.0
25°	3886.5	3892.2	3849.6	3724.7	3571.4	3389.7	3239.2	3134.2	3131.3	3213.7	3772.9
27.5°	4261.2	4286.8	4201.6	4082.4	3940.4	3713.3	3514.6	3372.6	3349.9	3460.7	4059.7
30°	4647.3	4678.6	4596.2	4479.8	4303.8	4110.8	3875.1	3710.5	3696.3	3843.9	4442.9
32.5°	5036.3	5044.8	4979.5	4883.0	4724.0	4542.3	4352.1	4170.4	4156.2	4397.5	4939.7
35°	5354.2	5379.8	5334.3	5311.6	5195.2	5027.7	4843.2	4738.2	4775.1	5084.5	5584.2
37.5°	5737.5	5763.0	5711.9	5706.2	5669.3	5524.6	5396.8	5405.3	5442.2	5862.4	6262.7
40°	6291.1	6319.5	6188.9	6132.1	6132.1	5990.1	5947.6	6149.1	6197.4	6628.9	6969.6
42.5°	6759.5	6804.9	6728.3	6691.4	6580.6	6481.3	6532.4	6816.3	6898.6	7361.3	7585.6
45°	6986.6	7020.7	7111.5	7219.4	7111.5	6938.3	7131.4	7452.2	7568.6	8037.0	8201.7
47.5°	7108.7	7139.9	7244.9	7534.5	7608.3	7463.5	7736.1	8136.4	8215.9	8707.0	8789.3
50°	7125.7	7225.1	7361.3	7650.9	7988.7	8008.6	8343.6	8831.9	8925.6	9365.6	9306.0
52.5°	6986.6	7026.3	7307.4	7795.7	8170.4	8511.1	9005.1	9499.1	9567.2	9984.5	9763.1
55°	6759.5	6816.3	7097.3	7761.6	8346.4	8988.0	9677.9	10154.8	10231.5	10586.4	10186.1
57.5°	6555.1	6583.5	6884.4	7662.3	8522.5	9465.0	10276.9	10839.0	10890.1	11114.4	10498.4
60°	6328.0	6359.2	6660.1	7449.3	8653.1	9825.5	10901.5	11528.9	11574.3	11670.8	10861.7
62.5°	5740.3	5822.6	6200.2	7097.3	8619.0	10237.2	11568.6	12210.2	12267.0	12162.0	11148.5
65°	4661.5	4777.9	5240.7	6299.6	8301.0	10504.0	12113.7	12837.6	12934.2	12531.0	11225.1
67.5°	3619.6	3702.0	4073.9	4999.4	7185.3	10370.6	12465.7	13269.1	13297.5	12471.4	10799.3
68°	3432.3	3514.6	3869.5	4726.8	6875.9	10211.6	12457.2	13280.5	13343.0	12406.1	10634.6
70°	2626.0	2719.7	3057.5	3744.5	5541.6	9201.0	11937.7	13008.0	12999.4	11616.9	9612.6
72.5°	1640.9	1694.8	1927.6	2362.0	3665.1	7000.8	10132.1	11472.1	11494.8	9470.7	7372.7
75°	1041.9	1041.9	1030.5	1144.1	1879.4	3988.7	7531.7	8831.9	8848.9	6631.7	4647.3
77.5°	905.6	880.1	758.0	641.6	749.5	1550.1	4457.1	5703.4	5609.7	3571.4	2205.8
80°	763.7	721.1	621.7	516.7	482.6	485.5	1711.9	2895.7	2770.8	1286.0	732.4
82.5°	550.8	513.8	468.4	406.0	371.9	289.6	357.7	837.5	817.6	371.9	238.5
85°	298.1	269.7	264.0	266.9	224.3	178.9	150.5	184.5	184.5	161.8	136.3
87.5°	105.0	76.7	90.8	102.2	88.0	73.8	59.6	71.0	73.8	71.0	65.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P1211063

CATALOG NUMBER: ARCH4-160-722-U-T3RE

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2813.4	2813.4	2813.4	2813.4	2813.4	2813.4	2813.4	2813.4	2813.4	2813.4	2813.4
2.5°	2824.7	2853.1	2921.3	2980.9	3023.5	3060.4	3080.2	3088.8	3108.6	3111.5	3105.8
5°	2847.4	2921.3	3023.5	3111.5	3159.7	3179.6	3185.3	3188.1	3179.6	3185.3	3179.6
7.5°	2907.1	3000.7	3145.5	3222.2	3230.7	3199.5	3202.3	3191.0	3202.3	3213.7	3213.7
10°	2997.9	3117.1	3253.4	3281.8	3244.9	3227.9	3261.9	3330.1	3352.8	3384.0	3384.0
12.5°	3117.1	3259.1	3355.6	3330.1	3296.0	3352.8	3452.1	3520.3	3543.0	3554.3	3545.8
15°	3253.4	3406.7	3455.0	3369.8	3432.3	3554.3	3588.4	3548.7	3491.9	3466.3	3480.5
17.5°	3426.6	3554.3	3525.9	3469.2	3611.1	3628.1	3517.4	3389.7	3298.8	3264.8	3287.5
20°	3608.3	3719.0	3588.4	3614.0	3702.0	3520.3	3310.2	3145.5	3066.0	3051.8	3074.6
22.5°	3801.3	3872.3	3650.9	3781.5	3650.9	3281.8	3029.1	2944.0	2924.1	2946.8	2966.7
25°	4019.9	4011.4	3758.7	3832.6	3460.7	2989.4	2838.9	2833.2	2833.2	2847.4	2875.8
27.5°	4266.9	4133.5	3866.6	3764.4	3131.3	2748.1	2719.7	2722.5	2714.0	2716.9	2731.0
30°	4553.6	4298.1	3985.9	3540.1	2762.3	2566.4	2555.0	2546.5	2526.6	2521.0	2526.6
32.5°	4914.2	4471.3	4107.9	3171.1	2438.6	2379.0	2373.3	2327.9	2279.7	2274.0	2293.9
35°	5371.3	4786.4	4170.4	2708.3	2171.8	2168.9	2149.1	2078.1	2015.6	2015.6	2001.4
37.5°	5893.6	5192.4	4195.9	2256.9	1950.3	1964.5	1907.8	1816.9	1768.7	1740.3	1748.8
40°	6427.3	5655.1	4193.1	1862.3	1757.3	1760.1	1717.6	1606.8	1487.6	1416.6	1433.7
42.5°	6941.2	6075.3	4119.3	1652.3	1601.2	1592.6	1558.6	1408.1	1308.7	1252.0	1254.8
45°	7352.8	6509.7	4005.7	1527.3	1459.2	1473.4	1396.8	1305.9	1215.1	1164.0	1161.1
47.5°	7764.5	6839.0	3824.0	1450.7	1354.2	1328.6	1297.4	1234.9	1166.8	1110.0	1112.9
50°	8139.2	7120.0	3653.7	1399.6	1257.6	1192.3	1198.0	1161.1	1101.5	1050.4	1047.6
52.5°	8403.2	7304.6	3560.0	1371.2	1141.2	1070.3	1090.1	1070.3	1013.5	976.6	973.8
55°	8667.2	7446.5	3591.2	1334.3	1013.5	956.7	990.8	985.1	953.9	942.5	945.4
57.5°	8880.2	7554.4	3702.0	1266.2	891.4	857.4	914.1	897.1	874.4	877.2	877.2
60°	9087.4	7693.5	3832.6	1110.0	786.4	789.2	843.2	811.9	797.7	823.3	826.1
62.5°	9303.2	7844.0	3724.7	882.9	695.5	715.4	777.9	752.3	758.0	794.9	806.3
65°	9277.6	7829.8	3034.8	723.9	616.0	655.8	749.5	741.0	743.8	758.0	763.7
67.5°	8755.3	7330.1	2086.6	616.0	559.3	607.5	726.8	692.7	695.5	687.0	689.9
68°	8579.2	7154.1	1839.6	599.0	547.9	596.2	715.4	684.2	687.0	678.5	675.7
70°	7619.7	6126.4	1164.0	528.0	508.2	564.9	658.6	647.3	644.4	638.8	638.8
72.5°	5808.4	4522.4	613.2	457.1	462.7	516.7	587.7	610.4	596.2	599.0	616.0
75°	3846.7	2719.7	425.8	391.8	406.0	442.9	522.4	567.8	553.6	562.1	553.6
77.5°	2035.5	1464.9	340.7	332.2	332.2	357.7	431.5	502.5	502.5	496.8	488.3
80°	667.1	516.7	272.5	261.2	266.9	281.1	346.3	411.6	420.2	408.8	403.1
82.5°	224.3	238.5	204.4	190.2	195.9	207.2	261.2	315.1	318.0	295.2	289.6
85°	139.1	159.0	127.8	124.9	124.9	127.8	159.0	173.2	159.0	141.9	147.6
87.5°	65.3	79.5	59.6	51.1	42.6	36.9	28.4	11.4	11.4	5.7	5.7
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)