

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: P1210619

Luminaire Tested: **ARCH3-180-727-U-T3RE**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1210619
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: ARCH3-180-727-U-T3RE
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2700K, 1375mA LIGHTSQUARE WITH 40 LEDS AND TYPE III ROADWAY ILLUMINANCE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22396 lumens
Efficiency: N/A
Efficacy: 124.1 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type III - 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

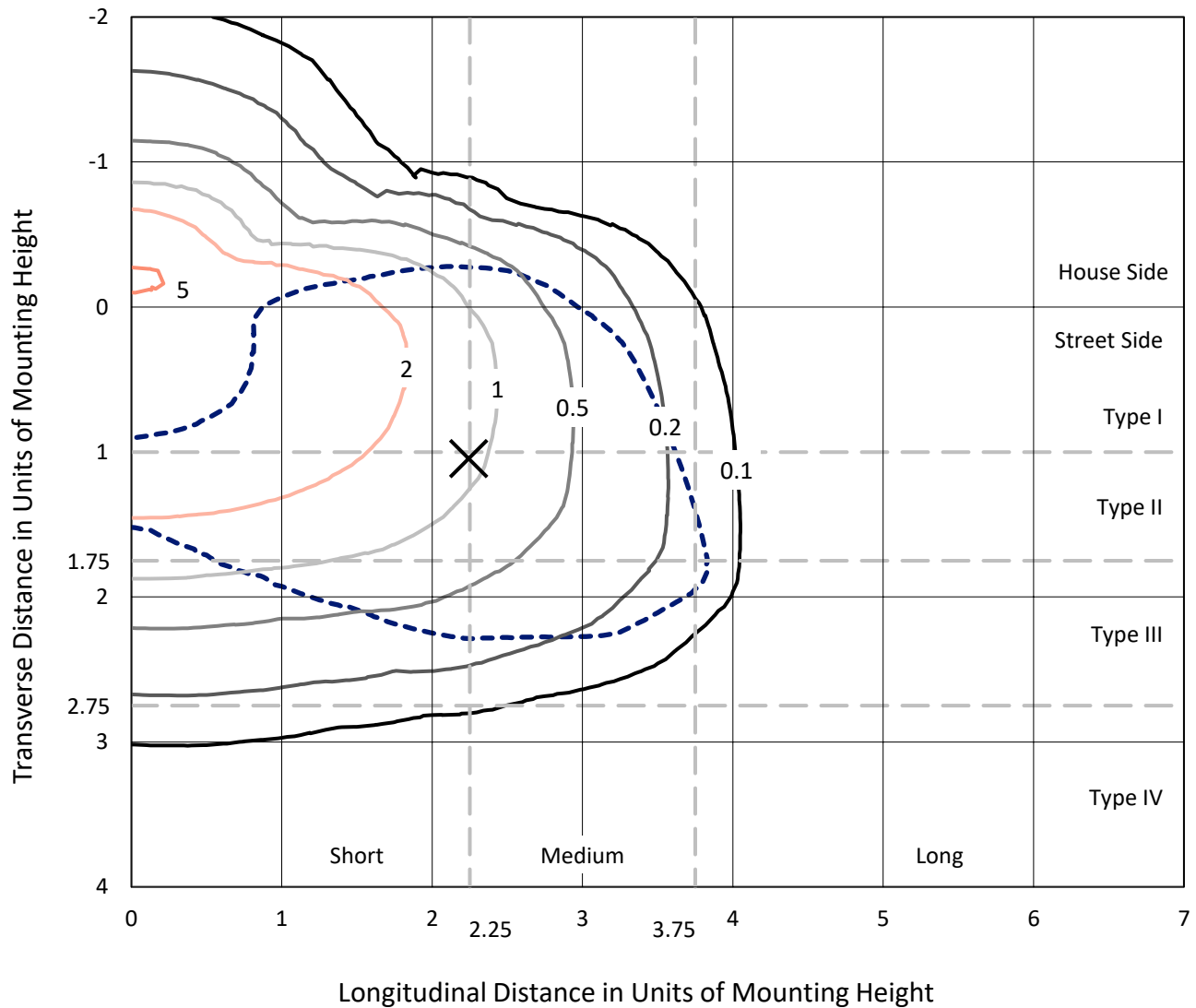


REPORT NUMBER: P1210619

CATALOG NUMBER: ARCH3-180-727-U-T3RE

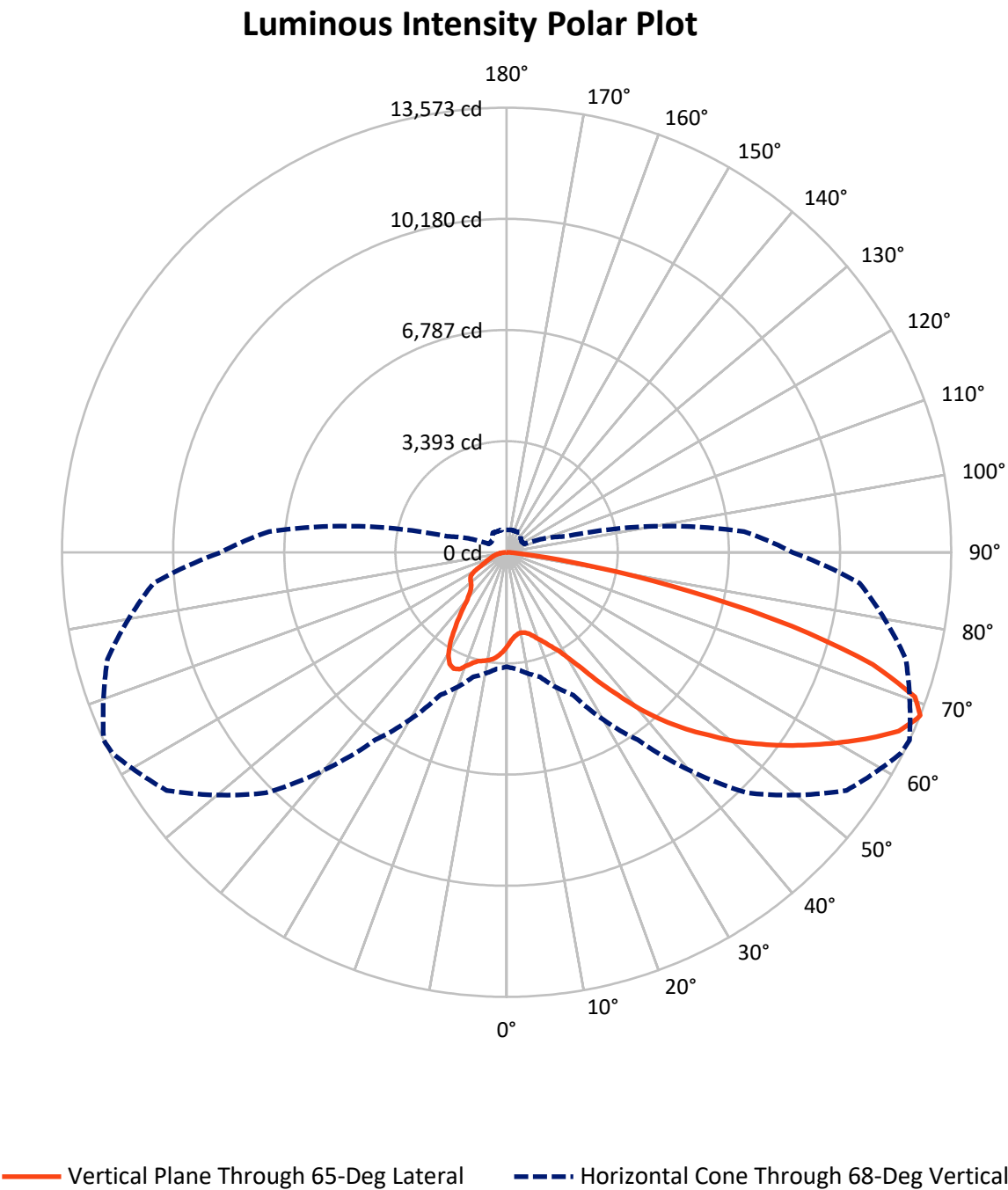
Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 --- 1/2 Max cd



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

REPORT NUMBER: P1210619
CATALOG NUMBER: ARCH3-180-727-U-T3RE



REPORT NUMBER: P1210619

CATALOG NUMBER: ARCH3-180-727-U-T3RE

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5490.8	0.0	5490.8
	% Fixture	24.5	0.0	24.5
Street Side	Lumens	16905.1	0.0	16905.1
	% Fixture	75.5	0.0	75.5
Total	Lumens	22396.0	0.0	22396.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	273.5	1.2
10°-20°	890.6	4.0
20°-30°	1611.8	7.2
30°-40°	2535.6	11.3
40°-50°	3776.5	16.9
50°-60°	4954.0	22.1
60°-70°	5417.5	24.2
70°-80°	2680.7	12.0
80°-90°	255.7	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°	22396.0	100.0
0°-180°	22396.0	100.0

Coefficient of Utilization



REPORT NUMBER: P1210619

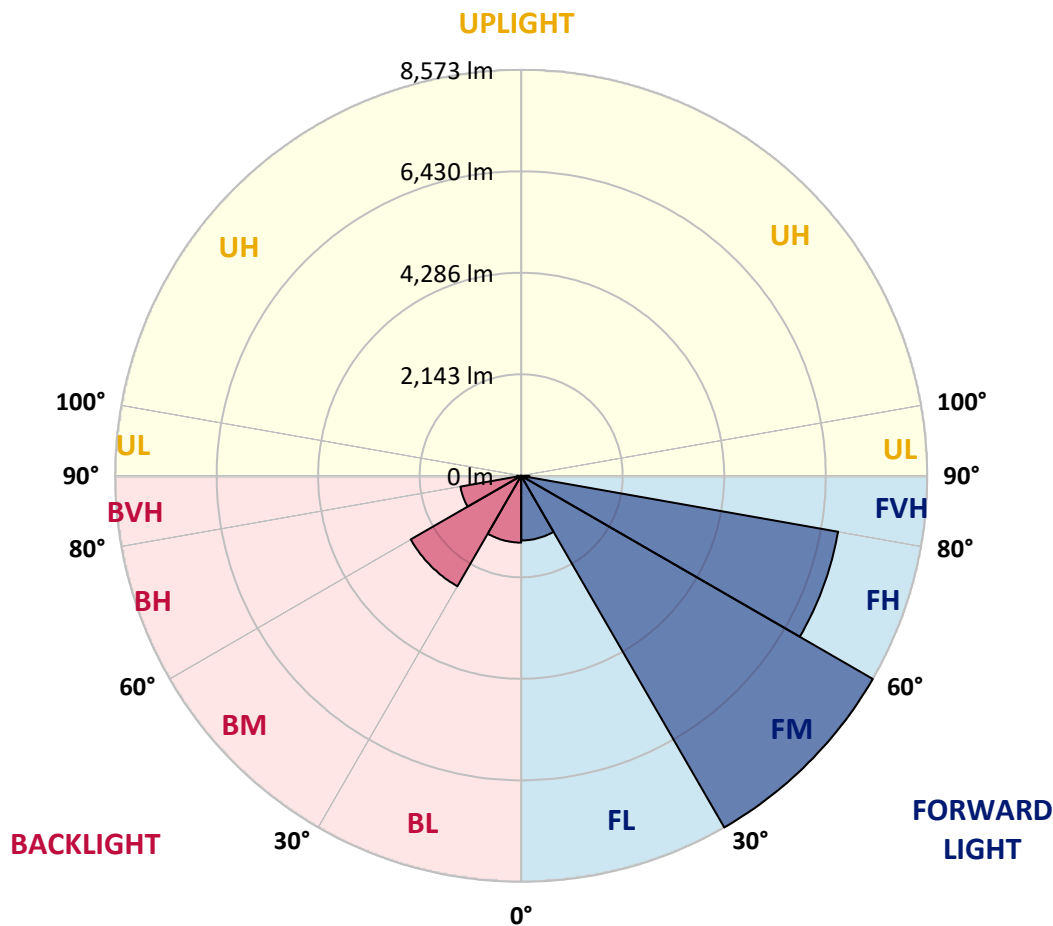
CATALOG NUMBER: ARCH3-180-727-U-T3RE

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1365.3	6.1			
FM	(30°-60°)	8572.9	38.3			
FH	(60°-80°)	6795.0	30.3			G3/7500
FVH	(80°-90°)	172.0	0.8			G2/225
BL	(0°-30°)	1410.6	6.3	B3/2500		
BM	(30°-60°)	2693.2	12.0	B3/5000		
BH	(60°-80°)	1303.3	5.8	B3/2500		G3/2500
BVH	(80°-90°)	83.7	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-G3

Type III Short



REPORT NUMBER: P1210619

CATALOG NUMBER: ARCH3-180-727-U-T3RE

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°	85°
0°	2861.9	2861.9	2861.9	2861.9	2861.9	2861.9	2861.9	2861.9	2861.9	2861.9	2861.9
2.5°	2498.1	2492.3	2506.7	2521.2	2552.9	2590.5	2642.5	2685.8	2691.5	2772.4	2835.9
5°	2350.8	2342.1	2356.5	2373.9	2388.3	2434.5	2489.4	2552.9	2578.9	2697.3	2833.1
7.5°	2365.2	2362.3	2368.1	2362.3	2362.3	2382.5	2420.1	2483.6	2512.5	2654.0	2847.5
10°	2449.0	2454.7	2457.6	2440.3	2423.0	2414.3	2425.9	2469.2	2489.4	2656.9	2911.0
12.5°	2587.6	2596.2	2599.1	2567.4	2544.3	2506.7	2486.5	2503.8	2518.3	2685.8	3000.6
15°	2775.3	2781.1	2760.9	2740.6	2682.9	2636.7	2587.6	2573.1	2578.9	2746.4	3101.6
17.5°	2994.8	2986.1	2986.1	2937.0	2861.9	2789.7	2708.9	2697.3	2697.3	2844.6	3246.0
20°	3234.5	3243.1	3217.2	3150.7	3075.6	2963.0	2882.2	2830.2	2835.9	2957.2	3422.2
22.5°	3581.0	3595.5	3526.2	3430.9	3315.3	3185.4	3069.9	2986.1	2989.0	3104.5	3604.1
25°	3953.6	3959.3	3916.0	3789.0	3633.0	3448.2	3295.1	3188.3	3185.4	3269.1	3838.1
27.5°	4334.8	4360.8	4274.1	4152.8	4008.4	3777.4	3575.3	3430.9	3407.8	3520.4	4129.7
30°	4727.5	4759.3	4675.6	4557.2	4378.1	4181.7	3942.0	3774.5	3760.1	3910.3	4519.6
32.5°	5123.2	5131.8	5065.4	4967.2	4805.5	4620.7	4427.2	4242.4	4227.9	4473.4	5025.0
35°	5446.6	5472.6	5426.4	5403.3	5284.9	5114.5	4926.8	4820.0	4857.5	5172.3	5680.6
37.5°	5836.5	5862.5	5810.5	5804.7	5767.2	5619.9	5490.0	5498.6	5536.2	5963.6	6370.8
40°	6399.6	6428.5	6295.7	6237.9	6237.9	6093.5	6050.2	6255.3	6304.3	6743.3	7089.9
42.5°	6876.2	6922.4	6844.4	6806.8	6694.2	6593.1	6645.1	6933.9	7017.7	7488.4	7716.5
45°	7107.2	7141.8	7234.3	7344.0	7234.3	7058.1	7254.5	7580.8	7699.2	8175.7	8343.2
47.5°	7231.4	7263.1	7370.0	7664.6	7739.6	7592.4	7869.6	8276.8	8357.7	8857.3	8941.0
50°	7248.7	7349.8	7488.4	7783.0	8126.6	8146.8	8487.6	8984.3	9079.6	9527.3	9466.6
52.5°	7107.2	7147.6	7433.5	7930.2	8311.5	8658.0	9160.5	9663.0	9732.3	10156.8	9931.6
55°	6876.2	6933.9	7219.8	7895.6	8490.5	9143.2	9844.9	10330.1	10408.1	10769.1	10361.9
57.5°	6668.2	6697.1	7003.2	7794.5	8669.6	9628.4	10454.3	11026.1	11078.1	11306.2	10679.6
60°	6437.2	6469.0	6775.1	7577.9	8802.4	9995.1	11089.6	11727.9	11774.1	11872.3	11049.2
62.5°	5839.4	5923.1	6307.2	7219.8	8767.7	10413.9	11768.3	12421.0	12478.7	12371.9	11340.9
65°	4742.0	4860.4	5331.1	6408.3	8444.3	10685.3	12322.8	13059.2	13157.4	12747.3	11418.9
67.5°	3682.1	3765.9	4144.2	5085.6	7309.3	10549.6	12680.9	13498.2	13527.1	12686.7	10985.7
68°	3491.5	3575.3	3936.2	4808.4	6994.6	10387.9	12672.2	13509.7	13573.3	12620.2	10818.2
70°	2671.3	2766.6	3110.3	3809.2	5637.2	9359.8	12143.7	13232.5	13223.8	11817.4	9778.5
72.5°	1669.2	1724.1	1960.9	2402.8	3728.3	7121.6	10307.0	11670.1	11693.2	9634.1	7499.9
75°	1059.9	1059.9	1048.3	1163.8	1911.8	4057.5	7661.7	8984.3	9001.7	6746.2	4727.5
77.5°	921.2	895.3	771.1	652.7	762.4	1576.8	4534.0	5801.8	5706.5	3633.0	2243.9
80°	776.9	733.5	632.5	525.6	490.9	493.8	1741.4	2945.7	2818.6	1308.2	745.1
82.5°	560.3	522.7	476.5	413.0	378.3	294.6	363.9	851.9	831.7	378.3	242.6
85°	303.2	274.4	268.6	271.5	228.1	181.9	153.1	187.7	187.7	164.6	138.6
87.5°	106.9	78.0	92.4	104.0	89.5	75.1	60.6	72.2	75.1	72.2	66.4
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: P1210619

CATALOG NUMBER: ARCH3-180-727-U-T3RE

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2861.9	2861.9	2861.9	2861.9	2861.9	2861.9	2861.9	2861.9	2861.9	2861.9	2861.9
2.5°	2873.5	2902.4	2971.7	3032.3	3075.6	3113.2	3133.4	3142.1	3162.3	3165.2	3159.4
5°	2896.6	2971.7	3075.6	3165.2	3214.3	3234.5	3240.3	3243.1	3234.5	3240.3	3234.5
7.5°	2957.2	3052.5	3199.8	3277.8	3286.5	3254.7	3257.6	3246.0	3257.6	3269.1	3269.1
10°	3049.7	3170.9	3309.6	3338.4	3300.9	3283.6	3318.2	3387.5	3410.6	3442.4	3442.4
12.5°	3170.9	3315.3	3413.5	3387.5	3352.9	3410.6	3511.7	3581.0	3604.1	3615.7	3607.0
15°	3309.6	3465.5	3514.6	3428.0	3491.5	3615.7	3650.3	3609.9	3552.2	3526.2	3540.6
17.5°	3485.7	3615.7	3586.8	3529.0	3673.4	3690.8	3578.1	3448.2	3355.8	3321.1	3344.2
20°	3670.6	3783.2	3650.3	3676.3	3765.9	3581.0	3367.3	3199.8	3119.0	3104.5	3127.6
22.5°	3866.9	3939.1	3713.9	3846.7	3713.9	3338.4	3081.4	2994.8	2974.6	2997.7	3017.9
25°	4089.3	4080.6	3823.6	3898.7	3520.4	3041.0	2887.9	2882.2	2882.2	2896.6	2925.5
27.5°	4340.6	4204.8	3933.4	3829.4	3185.4	2795.5	2766.6	2769.5	2760.9	2763.7	2778.2
30°	4632.2	4372.3	4054.7	3601.2	2810.0	2610.7	2599.1	2590.5	2570.3	2564.5	2570.3
32.5°	4999.0	4548.5	4178.8	3225.8	2480.7	2420.1	2414.3	2368.1	2319.0	2313.2	2333.4
35°	5464.0	4869.0	4242.4	2755.1	2209.3	2206.4	2186.2	2114.0	2050.4	2050.4	2036.0
37.5°	5995.3	5282.0	4268.4	2295.9	1984.0	1998.4	1940.7	1848.3	1799.2	1770.3	1779.0
40°	6538.3	5752.8	4265.5	1894.5	1787.6	1790.5	1747.2	1634.6	1513.3	1441.1	1458.4
42.5°	7061.0	6180.2	4190.4	1680.8	1628.8	1620.1	1585.5	1432.4	1331.3	1273.6	1276.5
45°	7479.7	6622.0	4074.9	1553.7	1484.4	1498.8	1420.9	1328.4	1236.0	1184.1	1181.2
47.5°	7898.5	6957.0	3890.0	1475.7	1377.5	1351.6	1319.8	1256.2	1186.9	1129.2	1132.1
50°	8279.7	7242.9	3716.8	1423.7	1279.4	1212.9	1218.7	1181.2	1120.5	1068.5	1065.6
52.5°	8548.3	7430.6	3621.5	1394.9	1160.9	1088.7	1109.0	1088.7	1031.0	993.4	990.6
55°	8816.8	7575.0	3653.2	1357.3	1031.0	973.2	1007.9	1002.1	970.3	958.8	961.7
57.5°	9033.4	7684.8	3765.9	1288.0	906.8	872.2	929.9	912.6	889.5	892.4	892.4
60°	9244.3	7826.3	3898.7	1129.2	800.0	802.8	857.7	825.9	811.5	837.5	840.4
62.5°	9463.7	7979.3	3789.0	898.1	707.5	727.8	791.3	765.3	771.1	808.6	820.2
65°	9437.7	7964.9	3087.2	736.4	626.7	667.1	762.4	753.7	756.6	771.1	776.9
67.5°	8906.4	7456.6	2122.6	626.7	568.9	618.0	739.3	704.7	707.5	698.9	701.8
68°	8727.3	7277.6	1871.4	609.4	557.4	606.5	727.8	696.0	698.9	690.2	687.3
70°	7751.2	6232.1	1184.1	537.2	516.9	574.7	670.0	658.4	655.6	649.8	649.8
72.5°	5908.7	4600.5	623.8	465.0	470.7	525.6	597.8	620.9	606.5	609.4	626.7
75°	3913.1	2766.6	433.2	398.5	413.0	450.5	531.4	577.6	563.1	571.8	563.1
77.5°	2070.6	1490.2	346.6	337.9	337.9	363.9	439.0	511.2	511.2	505.4	496.7
80°	678.7	525.6	277.2	265.7	271.5	285.9	352.3	418.7	427.4	415.9	410.1
82.5°	228.1	242.6	207.9	193.5	199.3	210.8	265.7	320.6	323.4	300.3	294.6
85°	141.5	161.7	130.0	127.1	127.1	130.0	161.7	176.2	161.7	144.4	150.2
87.5°	66.4	80.9	60.6	52.0	43.3	37.5	28.9	11.6	11.6	5.8	5.8
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)