

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: P1211097

Luminaire Tested: **ARCH4-170-727-U-T2RE**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1211097
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: ARCH4-170-727-U-T2RE
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 1380mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE II
ROADWAY ILLUMINANCE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25502 lumens
Efficiency: N/A
Efficacy: 150.2 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): 169.8
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

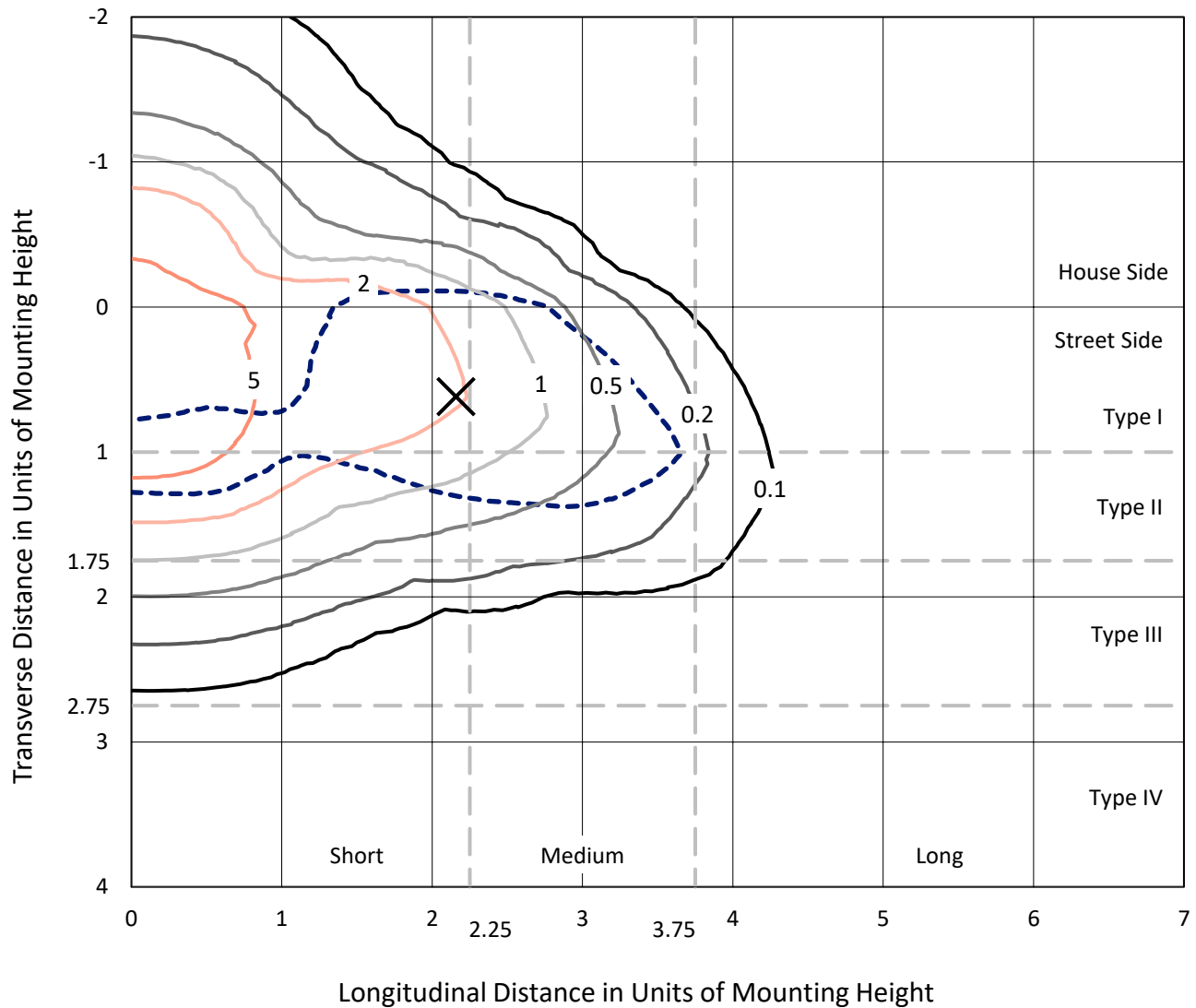


REPORT NUMBER: P1211097

CATALOG NUMBER: ARCH4-170-727-U-T2RE

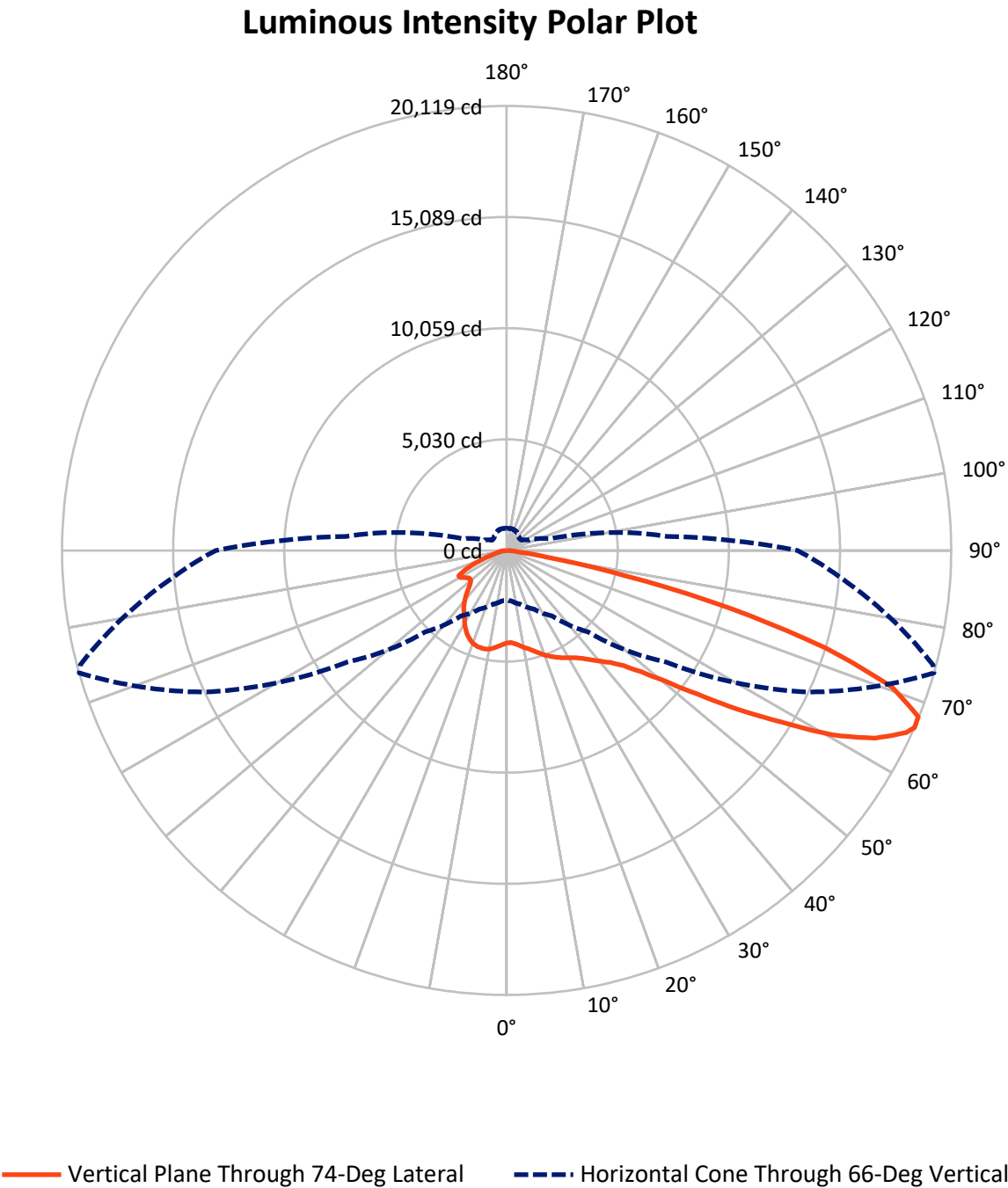
Iso-Footcandle Lines of Horizontal Illumination

× Max cd
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8 fc
Type II - Short - N/A

REPORT NUMBER: P1211097
CATALOG NUMBER: ARCH4-170-727-U-T2RE



REPORT NUMBER: P1211097

CATALOG NUMBER: ARCH4-170-727-U-T2RE

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6210.4	0.0	6210.4
	% Fixture	24.4	0.0	24.4
Street Side	Lumens	19291.6	0.0	19291.6
	% Fixture	75.6	0.0	75.6
Total	Lumens	25502.0	0.0	25502.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	398.8	1.6
10°-20°	1226.4	4.8
20°-30°	2301.3	9.0
30°-40°	3540.0	13.9
40°-50°	4761.5	18.7
50°-60°	5631.1	22.1
60°-70°	5209.1	20.4
70°-80°	2191.4	8.6
80°-90°	242.5	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°	25502.0	100.0
0°-180°	25502.0	100.0

Coefficient of Utilization



REPORT NUMBER: P1211097

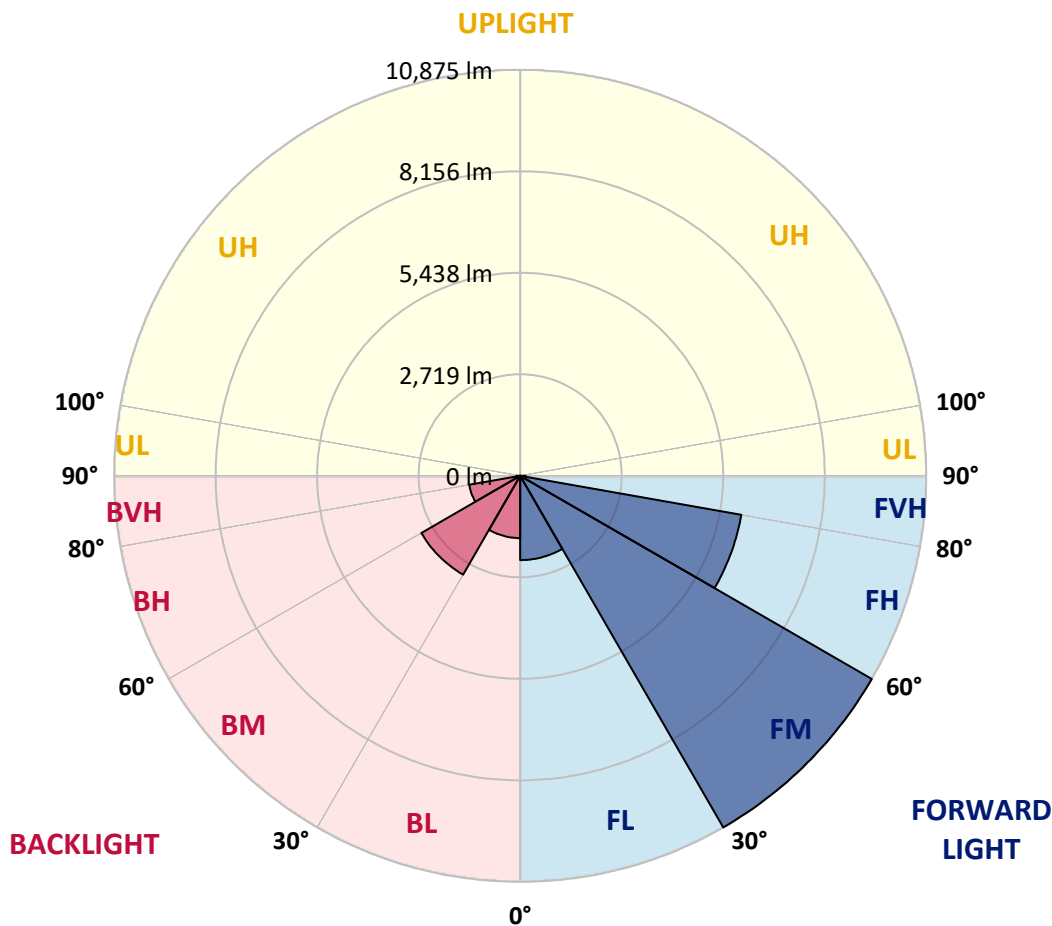
CATALOG NUMBER: ARCH4-170-727-U-T2RE

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2257.2	8.9			
FM	(30°-60°)	10875.2	42.6			
FH	(60°-80°)	6014.1	23.6			G3/7500
FVH	(80°-90°)	145.1	0.6			G2/225
BL	(0°-30°)	1669.2	6.5	B3/2500		
BM	(30°-60°)	3057.4	12.0	B3/5000		
BH	(60°-80°)	1386.4	5.4	B3/2500		G3/2500
BVH	(80°-90°)	97.4	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



REPORT NUMBER: P1211097

CATALOG NUMBER: ARCH4-170-727-U-T2RE

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	4180.6	4180.6	4180.6	4180.6	4180.6	4180.6	4180.6	4180.6	4180.6	4180.6	4180.6
2.5°	4167.5	4160.9	4174.1	4193.8	4203.6	4187.2	4180.6	4177.3	4177.3	4167.5	4183.9
5°	3970.6	3967.3	3996.9	4033.0	4101.9	4151.1	4216.7	4256.1	4243.0	4223.3	4236.4
7.5°	3714.7	3708.1	3744.2	3813.1	3908.3	4016.6	4177.3	4302.0	4351.3	4344.7	4341.4
10°	3813.1	3806.5	3803.3	3783.6	3816.4	3921.4	4088.7	4308.6	4476.0	4479.2	4482.5
12.5°	4154.4	4170.8	4154.4	4092.0	4019.8	3980.5	4078.9	4325.0	4581.0	4600.7	4682.7
15°	4620.3	4603.9	4571.1	4498.9	4387.4	4269.2	4197.0	4400.5	4731.9	4748.3	4928.8
17.5°	5030.5	5043.7	5024.0	4955.1	4823.8	4669.6	4449.7	4531.7	4892.7	4938.7	5191.3
20°	5476.8	5529.3	5503.1	5417.7	5309.5	5079.8	4804.1	4722.1	5069.9	5102.7	5463.7
22.5°	5992.0	6047.8	5998.6	5916.5	5827.9	5545.7	5191.3	4955.1	5217.6	5286.5	5726.2
25°	6608.9	6661.4	6615.5	6487.5	6375.9	6031.4	5608.1	5217.6	5362.0	5437.4	5939.5
27.5°	7097.9	7137.3	7179.9	7104.4	6933.8	6576.1	6041.2	5489.9	5506.3	5585.1	6136.4
30°	7534.3	7632.8	7668.9	7678.7	7534.3	7134.0	6484.2	5772.2	5631.0	5713.1	6333.3
32.5°	8131.5	8279.2	8220.1	8279.2	8193.9	7659.0	6943.6	6064.2	5791.8	5867.3	6520.3
35°	9004.4	9122.6	8968.3	8922.4	8784.6	8190.6	7386.6	6366.1	6005.1	6087.2	6697.5
37.5°	9942.9	10077.5	9854.3	9670.6	9408.0	8715.7	7767.3	6763.2	6300.5	6366.1	6861.6
40°	10763.3	10874.9	10681.3	10438.4	9998.7	9178.3	8095.5	7042.1	6595.8	6677.8	7051.9
42.5°	11521.3	11593.5	11376.9	11144.0	10556.6	9595.1	8449.9	7337.4	6940.4	7019.1	7206.2
45°	12289.2	12345.0	12043.1	11711.7	11022.5	9975.7	8840.3	7750.9	7445.7	7550.7	7455.6
47.5°	12427.0	12443.4	12390.9	12167.8	11390.1	10340.0	9322.7	8305.5	8216.9	8331.7	7885.4
50°	11472.1	11619.8	11944.6	12164.5	11537.7	10645.2	9805.1	9099.6	9280.1	9427.7	8778.0
52.5°	9618.1	9759.2	10510.6	11344.1	11183.3	10714.1	10323.6	10107.0	10779.7	10956.9	9992.2
55°	7662.3	7787.0	8581.1	9782.1	10038.1	10399.1	10878.2	11393.4	12692.8	12811.0	11324.4
57.5°	6310.3	6379.2	6946.9	8102.0	8512.2	9391.6	11176.8	12922.5	14638.8	14819.2	12482.8
60°	5174.9	5250.4	5673.7	6625.3	7170.1	7951.1	10940.5	14432.0	16962.1	16962.1	13969.3
62.5°	3895.1	3960.8	4354.5	5099.4	6015.0	6730.3	10185.8	15432.9	18714.4	18635.6	15045.7
65°	2674.4	2726.9	3012.4	3507.9	4331.6	5736.1	9155.4	15446.0	19876.0	19771.0	15505.1
66°	2244.5	2290.5	2533.3	2933.7	3626.1	5204.5	8791.1	15167.1	20118.9	19971.2	15311.5
67.5°	1772.0	1804.8	1965.6	2201.9	2658.0	4213.4	8216.9	14376.2	20095.9	20007.3	14819.2
70°	1266.7	1289.6	1407.8	1457.0	1571.8	2438.2	6526.9	12591.1	18484.7	18510.9	12883.2
72.5°	981.2	1017.3	1089.5	1099.3	1073.0	1296.2	3960.8	10504.1	15121.1	15111.3	9562.3
75°	790.8	810.5	846.6	866.3	859.8	836.8	1676.8	7836.2	10408.9	10530.3	5355.4
77.5°	623.5	620.2	653.0	679.3	699.0	656.3	767.9	4594.1	5457.1	5302.9	2011.6
80°	459.4	459.4	505.4	515.2	544.7	551.3	511.9	1772.0	1873.7	1703.1	521.8
82.5°	301.9	301.9	351.1	357.7	387.2	429.9	370.8	531.6	518.5	492.2	236.3
85°	164.1	157.5	173.9	196.9	213.3	252.7	223.1	265.8	272.4	269.1	157.5
87.5°	32.8	29.5	45.9	52.5	59.1	78.8	72.2	108.3	150.9	147.7	68.9
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: P1211097

CATALOG NUMBER: ARCH4-170-727-U-T2RE

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4180.6	4180.6	4180.6	4180.6	4180.6	4180.6	4180.6	4180.6	4180.6	4180.6	4180.6
2.5°	4206.9	4203.6	4239.7	4282.4	4331.6	4361.1	4374.2	4397.2	4380.8	4387.4	4407.0
5°	4269.2	4279.1	4331.6	4387.4	4410.3	4393.9	4357.8	4344.7	4315.2	4308.6	4302.0
7.5°	4361.1	4377.5	4430.0	4443.1	4374.2	4259.4	4177.3	4131.4	4082.2	4069.1	4062.5
10°	4512.1	4521.9	4535.0	4400.5	4229.8	4075.6	3973.9	3931.2	3898.4	3872.2	3878.7
12.5°	4702.4	4695.8	4594.1	4315.2	4072.3	3914.8	3845.9	3819.7	3796.7	3780.3	3777.0
15°	4941.9	4896.0	4603.9	4197.0	3924.7	3793.4	3744.2	3734.3	3708.1	3708.1	3704.8
17.5°	5184.8	5066.6	4597.4	4072.3	3783.6	3711.4	3681.8	3675.3	3668.7	3665.4	3675.3
20°	5427.6	5217.6	4544.9	3918.1	3685.1	3642.5	3635.9	3639.2	3632.6	3642.5	3635.9
22.5°	5640.9	5316.0	4446.4	3754.0	3616.2	3612.9	3596.5	3603.1	3626.1	3629.3	3639.2
25°	5805.0	5352.1	4302.0	3603.1	3567.0	3560.4	3580.1	3606.4	3626.1	3629.3	3645.7
27.5°	5939.5	5332.4	4121.6	3484.9	3481.7	3517.8	3576.8	3586.7	3590.0	3590.0	3576.8
30°	6041.2	5289.8	3891.9	3353.7	3370.1	3458.7	3514.5	3514.5	3488.2	3481.7	3501.4
32.5°	6064.2	5234.0	3642.5	3219.1	3245.4	3350.4	3419.3	3396.3	3366.8	3366.8	3379.9
35°	6083.9	5158.5	3442.3	3035.4	3074.8	3199.5	3265.1	3219.1	3186.3	3176.5	3173.2
37.5°	6077.3	5129.0	3261.8	2802.4	2854.9	2976.3	3019.0	2976.3	2927.1	2904.1	2933.7
40°	6083.9	5109.3	3035.4	2546.4	2598.9	2671.1	2726.9	2694.1	2648.2	2589.1	2618.6
42.5°	6123.3	5135.5	2786.0	2297.0	2297.0	2336.4	2431.6	2408.6	2297.0	2274.1	2300.3
45°	6333.3	5276.6	2536.6	2047.7	2011.6	2037.8	2136.3	2037.8	1968.9	1968.9	1991.9
47.5°	6841.9	5539.2	2316.7	1827.8	1742.5	1795.0	1821.2	1729.3	1676.8	1663.7	1686.7
50°	7878.9	6064.2	2185.5	1647.3	1542.3	1581.7	1565.3	1562.0	1509.5	1516.1	1529.2
52.5°	9454.0	7088.0	2146.1	1558.7	1427.5	1437.3	1420.9	1427.5	1417.6	1450.4	1460.3
55°	11170.2	8167.6	2195.3	1571.8	1348.7	1279.8	1286.3	1319.2	1358.5	1411.0	1420.9
57.5°	12453.3	8709.1	2323.3	1660.4	1250.2	1145.2	1161.6	1224.0	1299.5	1342.1	1365.1
60°	13408.2	8643.5	2510.3	1683.4	1132.1	1023.8	1053.4	1145.2	1210.9	1247.0	1269.9
62.5°	13719.9	8233.3	2556.3	1516.1	977.9	909.0	981.2	1076.3	1105.9	1145.2	1161.6
65°	13464.0	7652.4	2221.6	1230.6	859.8	823.7	928.7	1000.9	1040.2	1059.9	1063.2
66°	13162.1	7304.6	2041.1	1119.0	817.1	797.4	909.0	968.0	1007.4	1004.1	1007.4
67.5°	12499.2	6576.1	1749.0	961.5	754.7	758.0	876.2	915.5	928.7	918.8	918.8
70°	10244.8	4630.2	1253.5	728.5	662.9	708.8	787.6	797.4	826.9	813.8	813.8
72.5°	6316.9	2274.1	840.1	557.9	590.7	662.9	659.6	692.4	761.3	781.0	794.1
75°	3104.3	922.1	554.6	472.5	528.3	554.6	548.0	630.0	728.5	813.8	843.3
77.5°	1178.1	459.4	387.2	413.5	426.6	416.7	436.4	571.0	728.5	882.7	912.3
80°	364.2	318.3	305.2	341.3	321.6	305.2	328.1	472.5	616.9	669.4	669.4
82.5°	219.9	249.4	236.3	233.0	216.6	219.9	236.3	338.0	475.8	498.8	498.8
85°	154.2	164.1	134.5	128.0	124.7	121.4	121.4	196.9	282.2	278.9	288.8
87.5°	59.1	65.6	49.2	49.2	45.9	32.8	26.3	32.8	32.8	23.0	16.4
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)