

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: P1211101

Luminaire Tested: **ARCH4-170-730-U-T2RE**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1211101
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: ARCH4-170-730-U-T2RE
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 1380mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE II
ROADWAY ILLUMINANCE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26427 lumens
Efficiency: N/A
Efficacy: 155.6 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

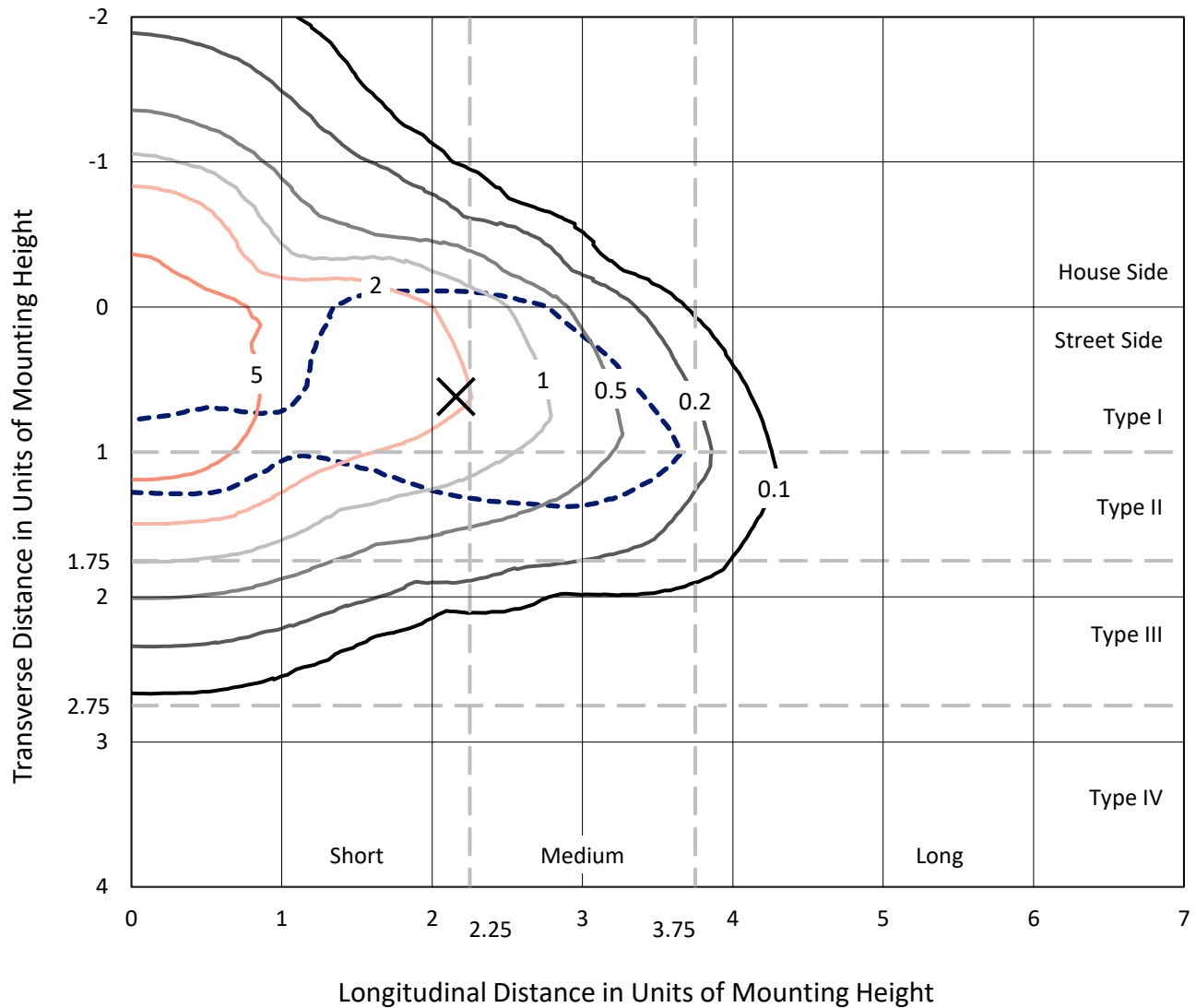


REPORT NUMBER: P1211101

CATALOG NUMBER: ARCH4-170-730-U-T2RE

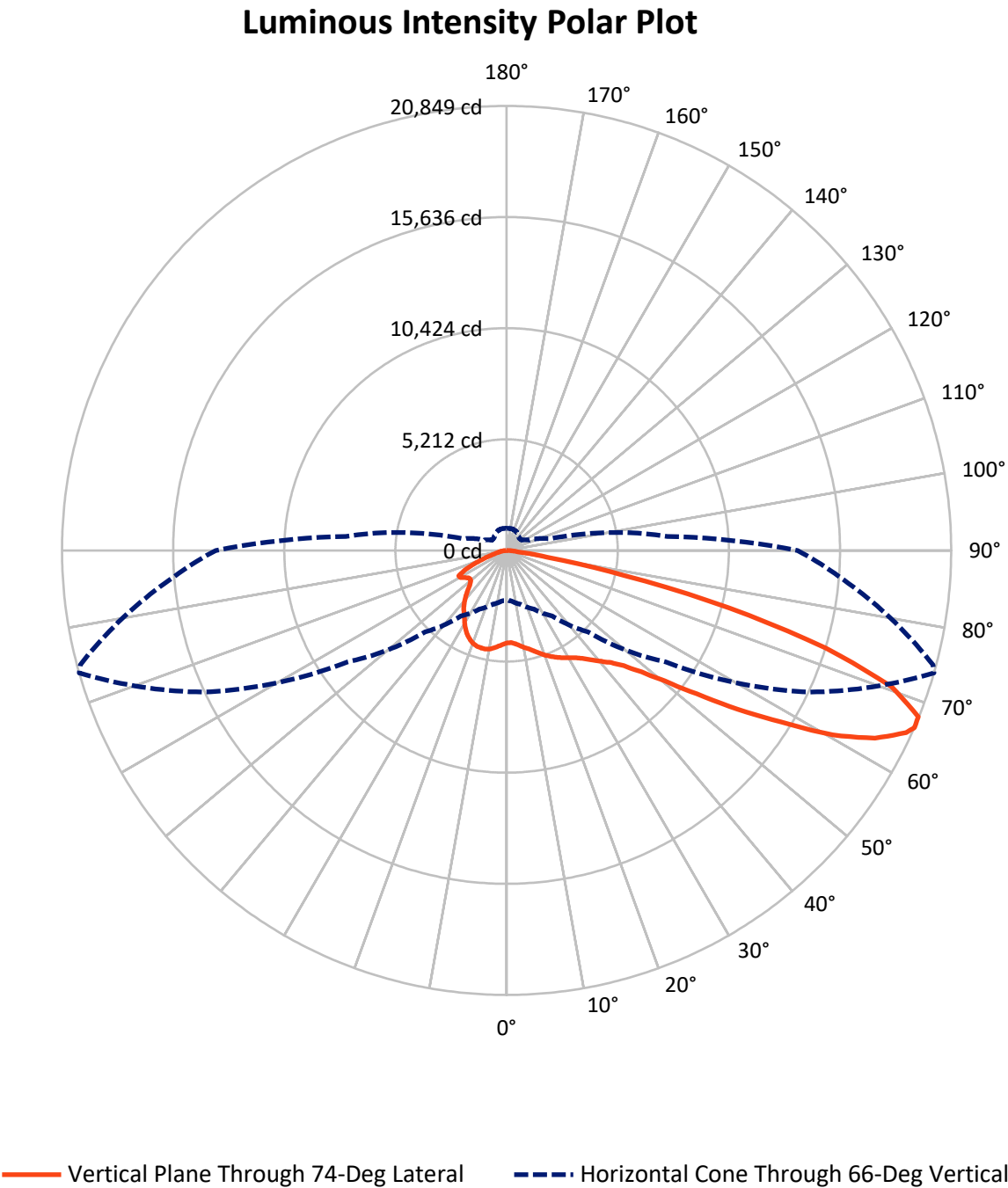
Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.3 fc
Type II - Short - N/A

REPORT NUMBER: P1211101
CATALOG NUMBER: ARCH4-170-730-U-T2RE



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6435.7	0.0	6435.7
	% Fixture	24.4	0.0	24.4
Street Side	Lumens	19991.3	0.0	19991.3
	% Fixture	75.6	0.0	75.6
Total	Lumens	26427.0	0.0	26427.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	413.3	1.6
10°-20°	1270.9	4.8
20°-30°	2384.8	9.0
30°-40°	3668.4	13.9
40°-50°	4934.2	18.7
50°-60°	5835.3	22.1
60°-70°	5398.0	20.4
70°-80°	2270.9	8.6
80°-90°	251.3	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°	26427.0	100.0
0°-180°	26427.0	100.0

Coefficient of Utilization



REPORT NUMBER: P1211101

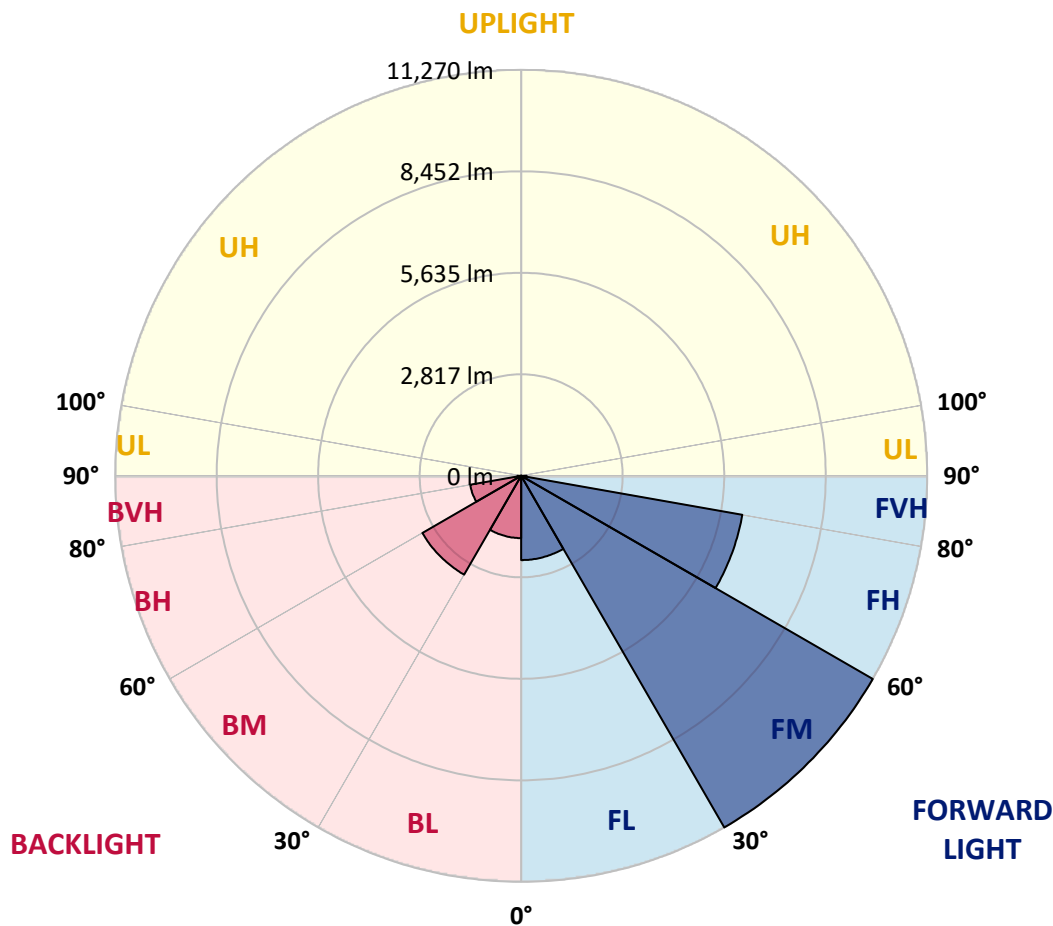
CATALOG NUMBER: ARCH4-170-730-U-T2RE

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2339.1	8.9			
FM	(30°-60°)	11269.6	42.6			
FH	(60°-80°)	6232.2	23.6			G3/7500
FVH	(80°-90°)	150.3	0.6			G2/225
BL	(0°-30°)	1729.8	6.5	B3/2500		
BM	(30°-60°)	3168.3	12.0	B3/5000		
BH	(60°-80°)	1436.7	5.4	B3/2500		G3/2500
BVH	(80°-90°)	100.9	0.4			G2/225
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: P1211101

CATALOG NUMBER: ARCH4-170-730-U-T2RE

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	4332.3	4332.3	4332.3	4332.3	4332.3	4332.3	4332.3	4332.3	4332.3	4332.3	4332.3
2.5°	4318.7	4311.9	4325.5	4345.9	4356.1	4339.1	4332.3	4328.9	4328.9	4318.7	4335.7
5°	4114.6	4111.2	4141.8	4179.2	4250.7	4301.7	4369.7	4410.5	4396.9	4376.5	4390.1
7.5°	3849.4	3842.6	3880.0	3951.4	4050.0	4162.2	4328.9	4458.1	4509.1	4502.3	4498.9
10°	3951.4	3944.6	3941.2	3920.8	3954.8	4063.6	4237.0	4464.9	4638.3	4641.7	4645.1
12.5°	4305.1	4322.1	4305.1	4240.4	4165.6	4124.8	4226.8	4481.9	4747.1	4767.5	4852.5
15°	4787.9	4770.9	4736.9	4662.1	4546.5	4424.1	4349.3	4560.1	4903.6	4920.6	5107.6
17.5°	5213.0	5226.6	5206.2	5134.8	4998.8	4838.9	4611.1	4696.1	5070.2	5117.8	5379.6
20°	5675.5	5729.9	5702.7	5614.3	5502.0	5264.0	4978.4	4893.3	5253.8	5287.8	5661.9
22.5°	6209.4	6267.2	6216.2	6131.1	6039.3	5746.9	5379.6	5134.8	5406.8	5478.2	5933.9
25°	6848.6	6903.1	6855.5	6722.8	6607.2	6250.2	5811.5	5406.8	5556.5	5634.7	6154.9
27.5°	7355.3	7396.1	7440.3	7362.1	7185.3	6814.6	6260.4	5689.1	5706.1	5787.7	6359.0
30°	7807.6	7909.6	7947.0	7957.2	7807.6	7392.7	6719.4	5981.5	5835.3	5920.3	6563.0
32.5°	8426.5	8579.5	8518.3	8579.5	8491.1	7936.8	7195.5	6284.2	6001.9	6080.1	6756.8
35°	9331.0	9453.4	9293.6	9246.0	9103.2	8487.7	7654.6	6597.0	6223.0	6308.0	6940.5
37.5°	10303.6	10443.0	10211.8	10021.3	9749.3	9031.8	8049.0	7008.5	6529.0	6597.0	7110.5
40°	11153.7	11269.3	11068.7	10817.1	10361.4	9511.3	8389.1	7297.5	6835.0	6920.1	7307.7
42.5°	11939.2	12014.0	11789.6	11548.2	10939.5	9943.1	8756.3	7603.6	7192.1	7273.7	7467.5
45°	12735.0	12792.8	12479.9	12136.5	11422.4	10337.6	9161.0	8032.0	7715.8	7824.6	7726.0
47.5°	12877.8	12894.8	12840.4	12609.1	11803.2	10715.0	9660.9	8606.7	8514.9	8633.9	8171.5
50°	11888.2	12041.2	12377.9	12605.7	11956.2	11031.3	10160.8	9429.6	9616.7	9769.7	9096.4
52.5°	9966.9	10113.1	10891.9	11755.6	11589.0	11102.7	10698.0	10473.6	11170.7	11354.3	10354.6
55°	7940.2	8069.4	8892.4	10137.0	10402.2	10776.3	11272.7	11806.6	13153.2	13275.6	11735.2
57.5°	6539.2	6610.6	7198.9	8395.9	8821.0	9732.3	11582.2	13391.3	15169.7	15356.8	12935.6
60°	5362.6	5440.8	5879.5	6865.7	7430.1	8239.5	11337.3	14955.5	17577.3	17577.3	14476.0
62.5°	4036.4	4104.4	4512.5	5284.4	6233.2	6974.5	10555.2	15992.7	19393.2	19311.6	15591.4
65°	2771.4	2825.8	3121.7	3635.2	4488.7	5944.1	9487.5	16006.3	20597.0	20488.1	16067.5
66°	2326.0	2373.6	2625.2	3040.1	3757.6	5393.2	9110.0	15717.2	20848.6	20695.6	15866.8
67.5°	1836.3	1870.3	2036.9	2281.7	2754.4	4366.3	8514.9	14897.7	20824.8	20733.0	15356.8
70°	1312.6	1336.4	1458.8	1509.8	1628.8	2526.6	6763.6	13047.8	19155.1	19182.3	13350.4
72.5°	1016.8	1054.2	1129.0	1139.2	1112.0	1343.2	4104.4	10885.1	15669.6	15659.4	9909.1
75°	819.5	839.9	877.3	897.7	890.9	867.1	1737.7	8120.4	10786.5	10912.3	5549.7
77.5°	646.1	642.7	676.7	703.9	724.3	680.1	795.7	4760.7	5655.1	5495.2	2084.5
80°	476.1	476.1	523.7	533.9	564.5	571.3	530.5	1836.3	1941.7	1764.9	540.7
82.5°	312.8	312.8	363.9	370.7	401.3	445.5	384.3	550.9	537.3	510.1	244.8
85°	170.0	163.2	180.2	204.0	221.0	261.8	231.2	275.4	282.2	278.8	163.2
87.5°	34.0	30.6	47.6	54.4	61.2	81.6	74.8	112.2	156.4	153.0	71.4
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: P1211101

CATALOG NUMBER: ARCH4-170-730-U-T2RE

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4332.3	4332.3	4332.3	4332.3	4332.3	4332.3	4332.3	4332.3	4332.3	4332.3	4332.3
2.5°	4359.5	4356.1	4393.5	4437.7	4488.7	4519.3	4532.9	4556.7	4539.7	4546.5	4566.9
5°	4424.1	4434.3	4488.7	4546.5	4570.3	4553.3	4515.9	4502.3	4471.7	4464.9	4458.1
7.5°	4519.3	4536.3	4590.7	4604.3	4532.9	4413.9	4328.9	4281.3	4230.2	4216.6	4209.8
10°	4675.7	4685.9	4699.5	4560.1	4383.3	4223.4	4118.0	4073.8	4039.8	4012.6	4019.4
12.5°	4872.9	4866.1	4760.7	4471.7	4220.0	4056.8	3985.4	3958.2	3934.4	3917.4	3914.0
15°	5121.2	5073.6	4770.9	4349.3	4067.0	3931.0	3880.0	3869.8	3842.6	3842.6	3839.2
17.5°	5372.8	5250.4	4764.1	4220.0	3920.8	3846.0	3815.4	3808.6	3801.8	3798.4	3808.6
20°	5624.5	5406.8	4709.7	4060.2	3818.8	3774.6	3767.8	3771.2	3764.4	3774.6	3767.8
22.5°	5845.5	5508.8	4607.7	3890.2	3747.4	3744.0	3727.0	3733.8	3757.6	3761.0	3771.2
25°	6015.5	5546.2	4458.1	3733.8	3696.4	3689.6	3710.0	3737.2	3757.6	3761.0	3778.0
27.5°	6154.9	5525.8	4271.1	3611.4	3608.0	3645.4	3706.6	3716.8	3720.2	3720.2	3706.6
30°	6260.4	5481.6	4033.0	3475.3	3492.3	3584.1	3642.0	3642.0	3614.8	3608.0	3628.4
32.5°	6284.2	5423.8	3774.6	3335.9	3363.1	3471.9	3543.3	3519.5	3488.9	3488.9	3502.5
35°	6304.6	5345.6	3567.1	3145.5	3186.3	3315.5	3383.5	3335.9	3301.9	3291.7	3288.3
37.5°	6297.8	5315.0	3380.1	2904.0	2958.5	3084.3	3128.5	3084.3	3033.3	3009.5	3040.1
40°	6304.6	5294.6	3145.5	2638.8	2693.2	2768.0	2825.8	2791.8	2744.2	2683.0	2713.6
42.5°	6345.4	5321.8	2887.0	2380.4	2380.4	2421.2	2519.8	2496.0	2380.4	2356.6	2383.8
45°	6563.0	5468.0	2628.6	2121.9	2084.5	2111.7	2213.7	2111.7	2040.3	2040.3	2064.1
47.5°	7090.1	5740.1	2400.8	1894.1	1805.7	1860.1	1887.3	1792.1	1737.7	1724.1	1747.9
50°	8164.7	6284.2	2264.7	1707.1	1598.2	1639.1	1622.0	1618.6	1564.2	1571.0	1584.6
52.5°	9796.9	7345.1	2223.9	1615.2	1479.2	1489.4	1472.4	1479.2	1469.0	1503.0	1513.2
55°	11575.4	8463.9	2274.9	1628.8	1397.6	1326.2	1333.0	1367.0	1407.8	1462.2	1472.4
57.5°	12905.0	9025.0	2407.6	1720.7	1295.6	1186.8	1203.8	1268.4	1346.6	1390.8	1414.6
60°	13894.5	8957.0	2601.4	1744.5	1173.2	1061.0	1091.6	1186.8	1254.8	1292.2	1316.0
62.5°	14217.6	8531.9	2649.0	1571.0	1013.4	941.9	1016.8	1115.4	1146.0	1186.8	1203.8
65°	13952.3	7930.0	2302.2	1275.2	890.9	853.5	962.3	1037.2	1078.0	1098.4	1101.8
66°	13639.5	7569.6	2115.1	1159.6	846.7	826.3	941.9	1003.2	1044.0	1040.6	1044.0
67.5°	12952.6	6814.6	1812.5	996.4	782.1	785.5	907.9	948.7	962.3	952.1	952.1
70°	10616.4	4798.1	1299.0	754.9	686.9	734.5	816.1	826.3	856.9	843.3	843.3
72.5°	6546.0	2356.6	870.5	578.1	612.1	686.9	683.5	717.5	788.9	809.3	822.9
75°	3216.9	955.5	574.7	489.7	547.5	574.7	567.9	652.9	754.9	843.3	873.9
77.5°	1220.8	476.1	401.3	428.5	442.1	431.9	452.3	591.7	754.9	914.7	945.3
80°	377.5	329.9	316.2	353.7	333.3	316.2	340.1	489.7	639.3	693.7	693.7
82.5°	227.8	258.4	244.8	241.4	224.4	227.8	244.8	350.3	493.1	516.9	516.9
85°	159.8	170.0	139.4	132.6	129.2	125.8	125.8	204.0	292.4	289.0	299.2
87.5°	61.2	68.0	51.0	51.0	47.6	34.0	27.2	34.0	34.0	23.8	17.0
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)