

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: P1211071

Luminaire Tested: **ARCH4-160-730-U-T3RE**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1211071
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: ARCH4-160-730-U-T3RE
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 1305mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE III
ROADWAY ILLUMINANCE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25161 lumens
Efficiency: N/A
Efficacy: 156.6 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

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

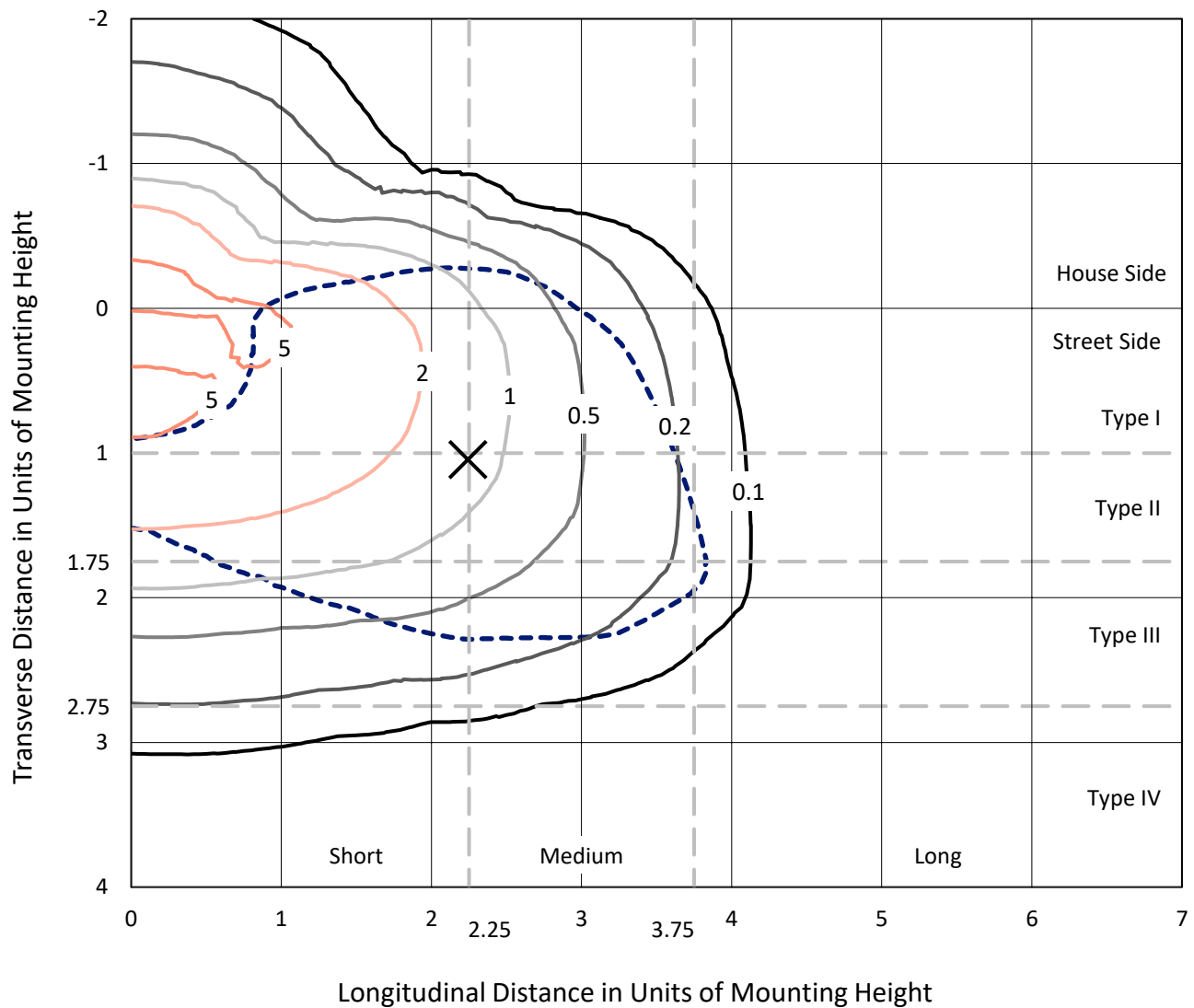


REPORT NUMBER: P1211071

CATALOG NUMBER: ARCH4-160-730-U-T3RE

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
--- 1/2 Max cd

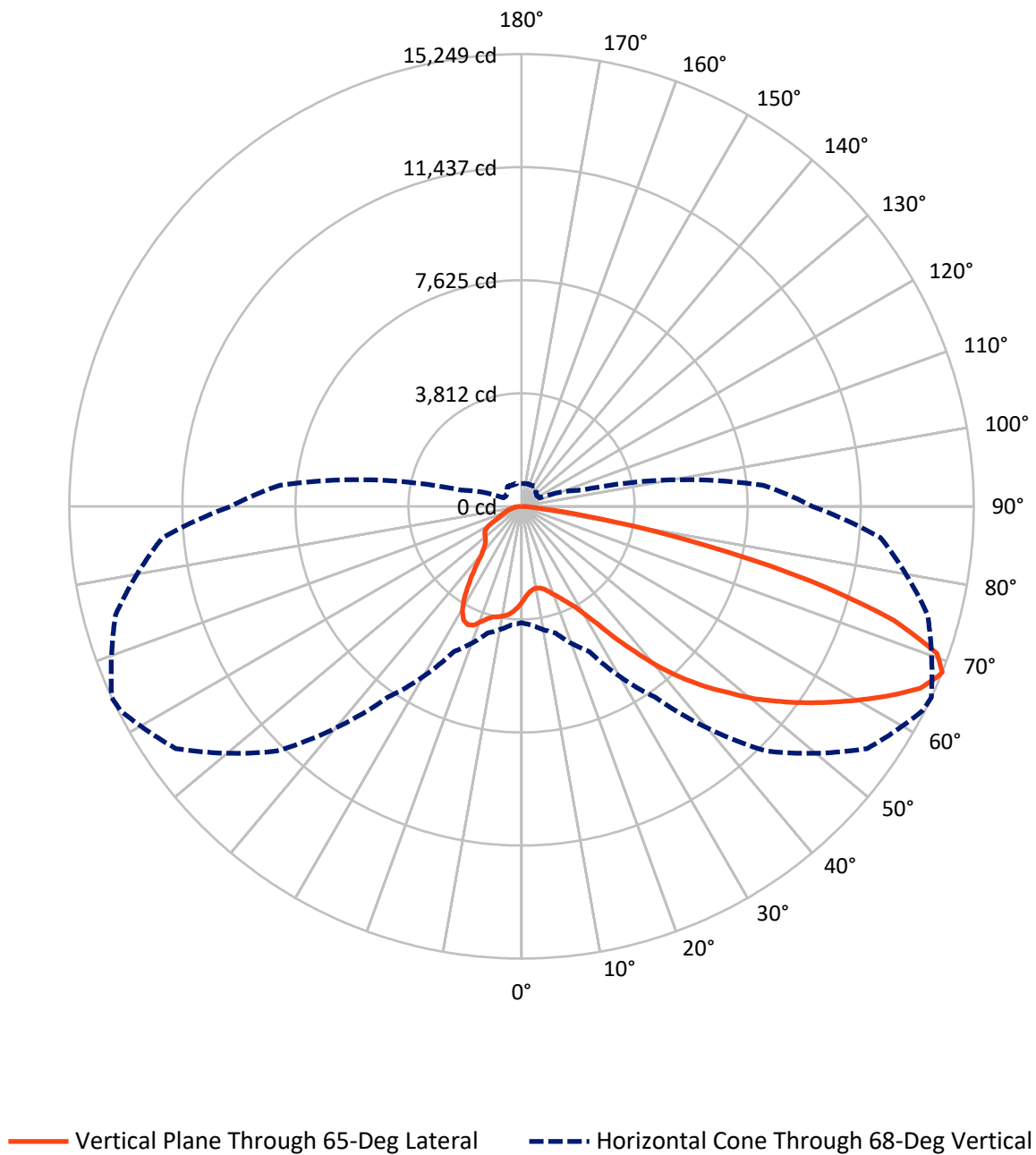


Based on 25 foot mounting height. Maximum calculated value = 5.9 fc
Type III - Short - N/A

REPORT NUMBER: P1211071

CATALOG NUMBER: ARCH4-160-730-U-T3RE

Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6168.7	0.0	6168.7
	% Fixture	24.5	0.0	24.5
Street Side	Lumens	18992.3	0.0	18992.3
	% Fixture	75.5	0.0	75.5
Total	Lumens	25161.0	0.0	25161.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	307.3	1.2
10°-20°	1000.5	4.0
20°-30°	1810.8	7.2
30°-40°	2848.6	11.3
40°-50°	4242.7	16.9
50°-60°	5565.6	22.1
60°-70°	6086.4	24.2
70°-80°	3011.7	12.0
80°-90°	287.3	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°	25161.0	100.0
0°-180°	25161.0	100.0

Coefficient of Utilization



REPORT NUMBER: P1211071

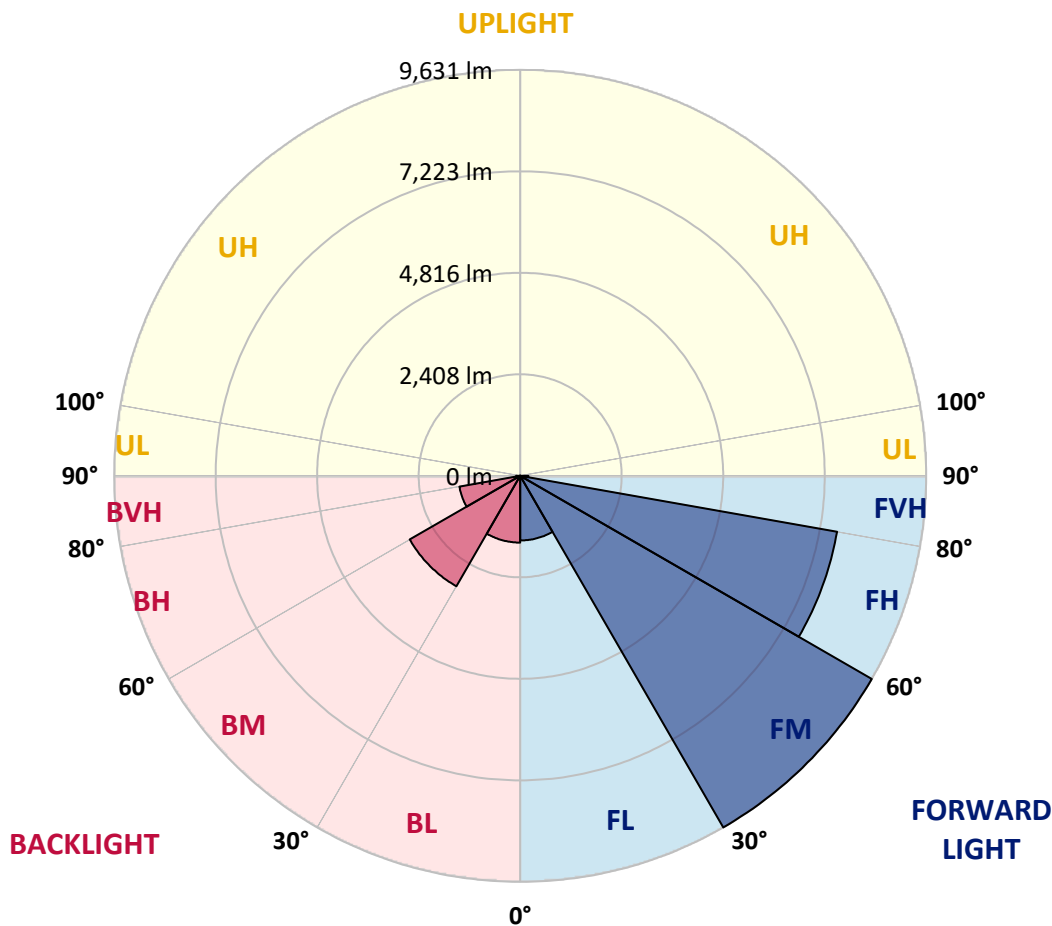
CATALOG NUMBER: ARCH4-160-730-U-T3RE

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1533.8	6.1			
FM	(30°-60°)	9631.3	38.3			
FH	(60°-80°)	7633.9	30.3			G4/12000
FVH	(80°-90°)	193.2	0.8			G2/225
BL	(0°-30°)	1584.8	6.3	B3/2500		
BM	(30°-60°)	3025.7	12.0	B3/5000		
BH	(60°-80°)	1464.2	5.8	B3/2500		G3/2500
BVH	(80°-90°)	94.1	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-G4

Type III Short



REPORT NUMBER: P1211071

CATALOG NUMBER: ARCH4-160-730-U-T3RE

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°	85°
0°	3215.3	3215.3	3215.3	3215.3	3215.3	3215.3	3215.3	3215.3	3215.3	3215.3	3215.3
2.5°	2806.5	2800.0	2816.2	2832.4	2868.1	2910.3	2968.7	3017.4	3023.8	3114.7	3186.1
5°	2641.0	2631.3	2647.5	2667.0	2683.2	2735.1	2796.7	2868.1	2897.3	3030.3	3182.8
7.5°	2657.2	2654.0	2660.5	2654.0	2654.0	2676.7	2718.9	2790.2	2822.7	2981.7	3199.0
10°	2751.3	2757.8	2761.0	2741.6	2722.1	2712.4	2725.4	2774.0	2796.7	2984.9	3270.4
12.5°	2907.0	2916.8	2920.0	2884.3	2858.4	2816.2	2793.5	2813.0	2829.2	3017.4	3371.0
15°	3117.9	3124.4	3101.7	3079.0	3014.1	2962.2	2907.0	2890.8	2897.3	3085.5	3484.6
17.5°	3364.5	3354.8	3354.8	3299.6	3215.3	3134.2	3043.3	3030.3	3030.3	3195.8	3646.8
20°	3633.8	3643.5	3614.3	3539.7	3455.4	3328.8	3238.0	3179.6	3186.1	3322.3	3844.7
22.5°	4023.1	4039.4	3961.5	3854.4	3724.7	3578.7	3448.9	3354.8	3358.0	3487.8	4049.1
25°	4441.7	4448.2	4399.5	4256.7	4081.5	3873.9	3701.9	3581.9	3578.7	3672.7	4311.9
27.5°	4869.9	4899.1	4801.8	4665.5	4503.3	4243.8	4016.7	3854.4	3828.5	3955.0	4639.6
30°	5311.2	5346.9	5252.8	5119.8	4918.6	4698.0	4428.7	4240.5	4224.3	4393.0	5077.6
32.5°	5755.7	5765.4	5690.8	5580.5	5398.8	5191.2	4973.8	4766.1	4749.9	5025.7	5645.4
35°	6119.1	6148.3	6096.4	6070.4	5937.4	5746.0	5535.1	5415.0	5457.2	5810.8	6381.9
37.5°	6557.1	6586.3	6527.9	6521.4	6479.2	6313.7	6167.7	6177.5	6219.6	6699.8	7157.3
40°	7189.7	7222.2	7072.9	7008.1	7008.1	6845.8	6797.2	7027.5	7082.7	7575.8	7965.2
42.5°	7725.1	7777.0	7689.4	7647.2	7520.7	7407.1	7465.5	7790.0	7884.1	8412.9	8669.2
45°	7984.6	8023.6	8127.4	8250.7	8127.4	7929.5	8150.1	8516.7	8649.8	9185.1	9373.3
47.5°	8124.2	8159.8	8279.9	8610.8	8695.2	8529.7	8841.2	9298.7	9389.5	9950.8	10044.9
50°	8143.6	8257.2	8412.9	8743.8	9129.9	9152.7	9535.5	10093.5	10200.6	10703.5	10635.4
52.5°	7984.6	8030.1	8351.3	8909.3	9337.6	9726.9	10291.5	10856.0	10933.9	11410.8	11157.7
55°	7725.1	7790.0	8111.2	8870.4	9538.7	10272.0	11060.4	11605.5	11693.1	12098.6	11641.2
57.5°	7491.5	7523.9	7867.8	8756.8	9739.9	10817.1	11745.0	12387.4	12445.8	12702.1	11998.1
60°	7231.9	7267.6	7611.5	8513.5	9889.1	11229.1	12458.8	13175.8	13227.7	13338.0	12413.3
62.5°	6560.3	6654.4	7085.9	8111.2	9850.2	11699.6	13221.2	13954.5	14019.4	13899.3	12741.0
65°	5327.4	5460.4	5989.3	7199.5	9486.8	12004.5	13844.2	14671.5	14781.8	14321.1	12828.6
67.5°	4136.7	4230.8	4655.8	5713.5	8211.8	11852.0	14246.5	15164.7	15197.1	14253.0	12342.0
68°	3922.6	4016.7	4422.2	5402.0	7858.1	11670.4	14236.7	15177.6	15249.0	14178.3	12153.8
70°	3001.1	3108.2	3494.3	4279.5	6333.2	10515.3	13643.0	14866.2	14856.4	13276.4	10985.8
72.5°	1875.3	1936.9	2203.0	2699.4	4188.6	8000.9	11579.5	13110.9	13136.9	10823.6	8425.9
75°	1190.7	1190.7	1177.7	1307.5	2147.8	4558.5	8607.6	10093.5	10113.0	7579.1	5311.2
77.5°	1035.0	1005.8	866.3	733.3	856.5	1771.5	5093.8	6518.1	6411.1	4081.5	2521.0
80°	872.8	824.1	710.5	590.5	551.6	554.8	1956.4	3309.4	3166.6	1469.7	837.1
82.5°	629.4	587.2	535.3	464.0	425.0	330.9	408.8	957.1	934.4	425.0	272.5
85°	340.7	308.2	301.7	305.0	256.3	204.4	172.0	210.9	210.9	184.9	155.7
87.5°	120.0	87.6	103.8	116.8	100.6	84.4	68.1	81.1	84.4	81.1	74.6
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: P1211071

CATALOG NUMBER: ARCH4-160-730-U-T3RE

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3215.3	3215.3	3215.3	3215.3	3215.3	3215.3	3215.3	3215.3	3215.3	3215.3	3215.3
2.5°	3228.2	3260.7	3338.6	3406.7	3455.4	3497.5	3520.3	3530.0	3552.7	3555.9	3549.5
5°	3254.2	3338.6	3455.4	3555.9	3611.1	3633.8	3640.3	3643.5	3633.8	3640.3	3633.8
7.5°	3322.3	3429.4	3594.9	3682.5	3692.2	3656.5	3659.8	3646.8	3659.8	3672.7	3672.7
10°	3426.2	3562.4	3718.2	3750.6	3708.4	3689.0	3727.9	3805.8	3831.7	3867.4	3867.4
12.5°	3562.4	3724.7	3835.0	3805.8	3766.8	3831.7	3945.3	4023.1	4049.1	4062.1	4052.3
15°	3718.2	3893.4	3948.5	3851.2	3922.6	4062.1	4101.0	4055.6	3990.7	3961.5	3977.7
17.5°	3916.1	4062.1	4029.6	3964.7	4127.0	4146.4	4019.9	3873.9	3770.1	3731.1	3757.1
20°	4123.7	4250.3	4101.0	4130.2	4230.8	4023.1	3783.1	3594.9	3504.0	3487.8	3513.8
22.5°	4344.3	4425.5	4172.4	4321.6	4172.4	3750.6	3461.8	3364.5	3341.8	3367.8	3390.5
25°	4594.2	4584.4	4295.7	4380.0	3955.0	3416.4	3244.5	3238.0	3238.0	3254.2	3286.6
27.5°	4876.4	4723.9	4419.0	4302.2	3578.7	3140.6	3108.2	3111.4	3101.7	3105.0	3121.2
30°	5204.1	4912.1	4555.2	4045.9	3156.9	2933.0	2920.0	2910.3	2887.6	2881.1	2887.6
32.5°	5616.2	5110.0	4694.7	3624.1	2787.0	2718.9	2712.4	2660.5	2605.3	2598.8	2621.5
35°	6138.5	5470.2	4766.1	3095.2	2482.0	2478.8	2456.1	2375.0	2303.6	2303.6	2287.4
37.5°	6735.5	5934.1	4795.3	2579.4	2229.0	2245.2	2180.3	2076.5	2021.3	1988.9	1998.6
40°	7345.5	6463.0	4792.1	2128.4	2008.3	2011.6	1962.9	1836.4	1700.1	1619.0	1638.5
42.5°	7932.7	6943.2	4707.7	1888.3	1829.9	1820.1	1781.2	1609.3	1495.7	1430.8	1434.1
45°	8403.2	7439.6	4577.9	1745.5	1667.7	1683.9	1596.3	1492.5	1388.6	1330.2	1327.0
47.5°	8873.6	7815.9	4370.3	1657.9	1547.6	1518.4	1482.7	1411.3	1333.5	1268.6	1271.8
50°	9301.9	8137.1	4175.6	1599.5	1437.3	1362.7	1369.2	1327.0	1258.9	1200.5	1197.2
52.5°	9603.6	8348.0	4068.6	1567.1	1304.3	1223.2	1245.9	1223.2	1158.3	1116.1	1112.9
55°	9905.4	8510.2	4104.3	1524.9	1158.3	1093.4	1132.3	1125.8	1090.1	1077.2	1080.4
57.5°	10148.7	8633.5	4230.8	1447.0	1018.8	979.8	1044.7	1025.3	999.3	1002.5	1002.5
60°	10385.5	8792.5	4380.0	1268.6	898.7	902.0	963.6	927.9	911.7	940.9	944.1
62.5°	10632.1	8964.5	4256.7	1009.0	794.9	817.6	889.0	859.8	866.3	908.5	921.4
65°	10602.9	8948.2	3468.3	827.3	704.1	749.5	856.5	846.8	850.1	866.3	872.8
67.5°	10005.9	8377.2	2384.7	704.1	639.2	694.3	830.6	791.7	794.9	785.2	788.4
68°	9804.8	8176.1	2102.4	684.6	626.2	681.3	817.6	781.9	785.2	775.4	772.2
70°	8708.2	7001.6	1330.2	603.5	580.8	645.6	752.7	739.7	736.5	730.0	730.0
72.5°	6638.2	5168.4	700.8	522.4	528.8	590.5	671.6	697.6	681.3	684.6	704.1
75°	4396.3	3108.2	486.7	447.7	464.0	506.1	597.0	648.9	632.7	642.4	632.7
77.5°	2326.3	1674.1	389.3	379.6	379.6	408.8	493.2	574.3	574.3	567.8	558.0
80°	762.5	590.5	311.5	298.5	305.0	321.2	395.8	470.4	480.2	467.2	460.7
82.5°	256.3	272.5	233.6	217.4	223.9	236.8	298.5	360.1	363.4	337.4	330.9
85°	159.0	181.7	146.0	142.8	142.8	146.0	181.7	197.9	181.7	162.2	168.7
87.5°	74.6	90.8	68.1	58.4	48.7	42.2	32.4	13.0	13.0	6.5	6.5
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)