

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: P1210941

Luminaire Tested: **ARCH4-120-730-U-T2RE**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1210941
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: ARCH4-120-730-U-T2RE
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 1000mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE II
ROADWAY ILLUMINANCE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19890 lumens
Efficiency: N/A
Efficacy: 163.0 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): 122
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



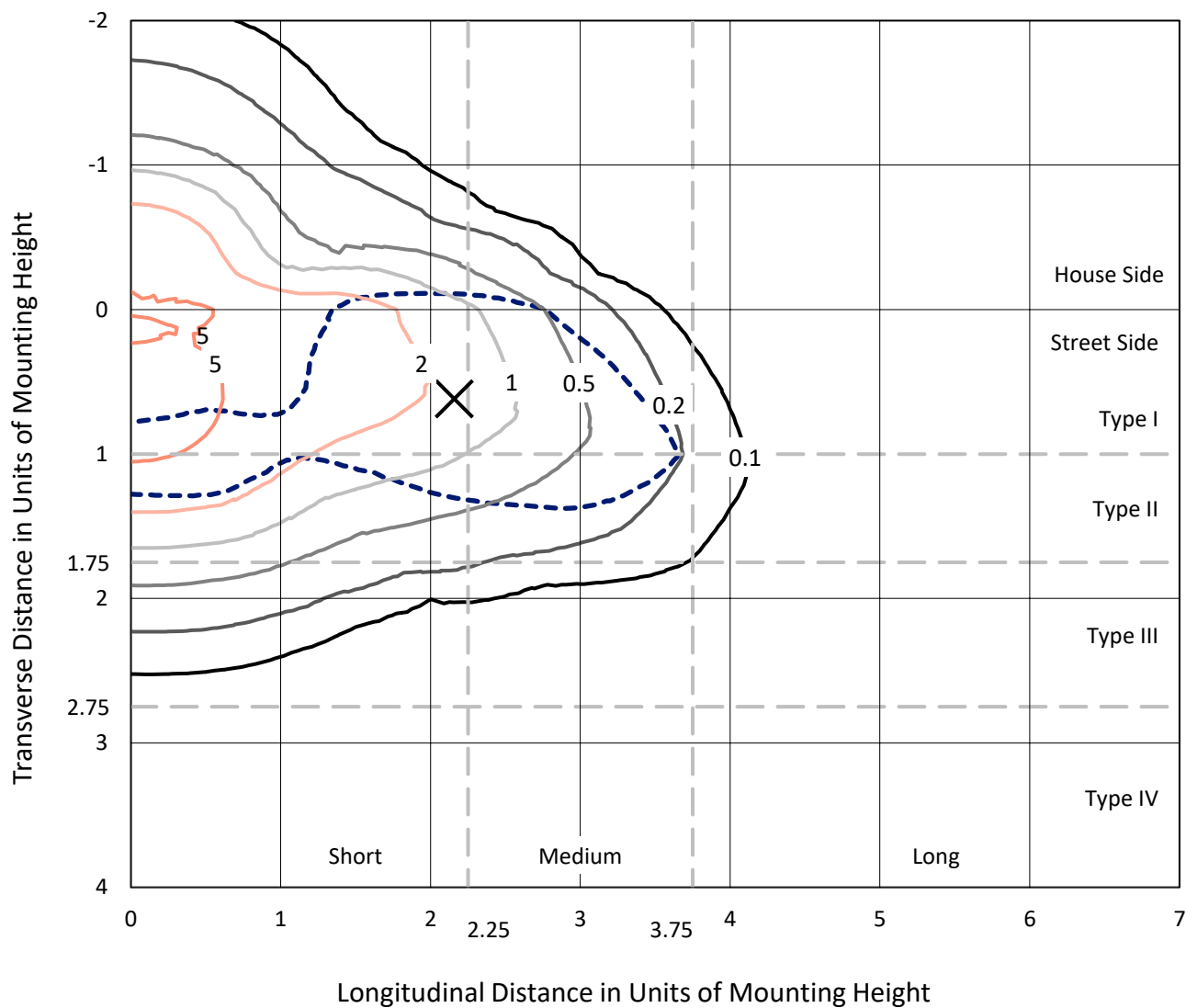
REPORT NUMBER: P1210941

CATALOG NUMBER: ARCH4-120-730-U-T2RE

Iso-Footcandle Lines of Horizontal Illumination

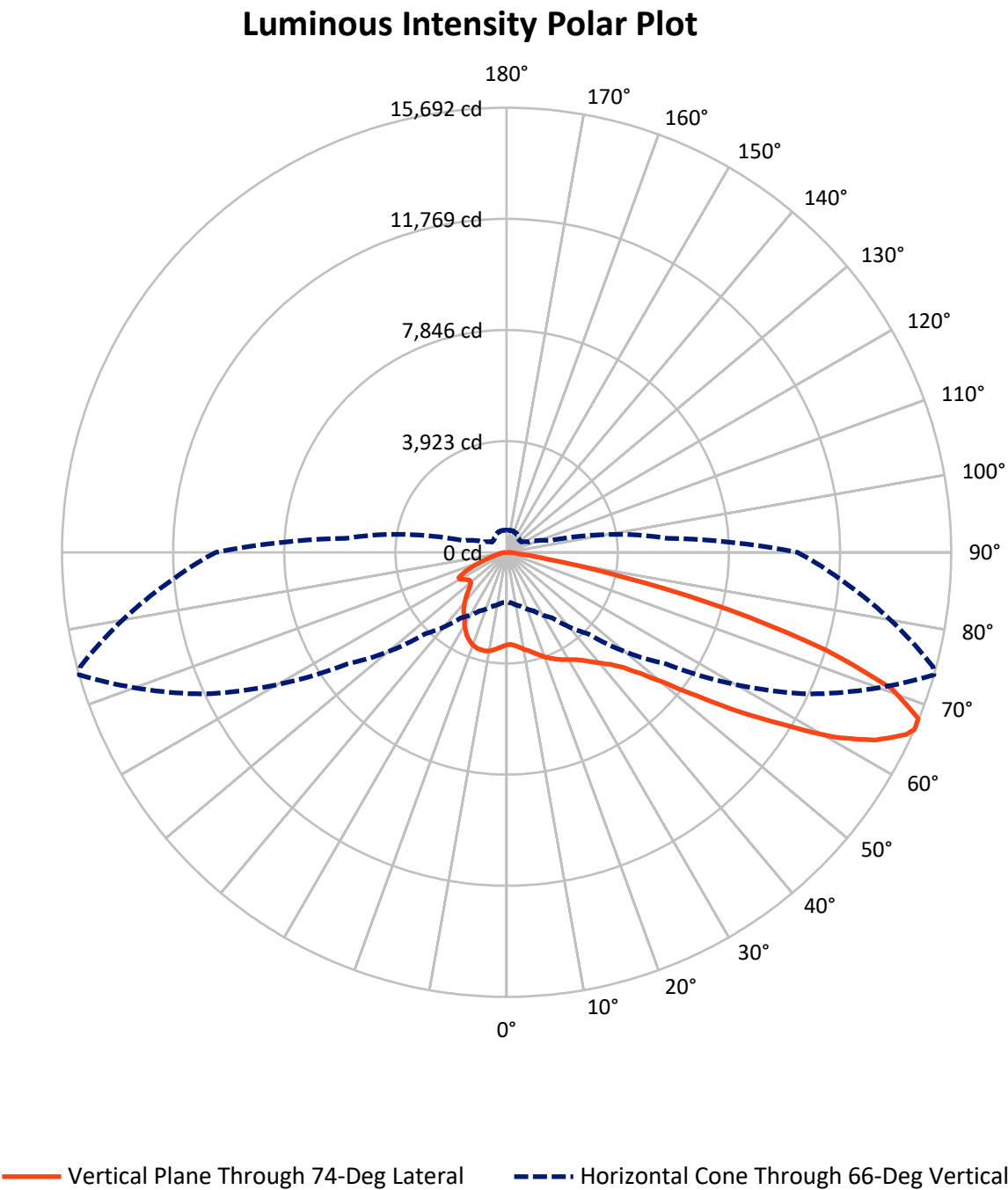
✕ Max cd

--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.2 fc
 Type II - Short - N/A

REPORT NUMBER: P1210941
CATALOG NUMBER: ARCH4-120-730-U-T2RE



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4843.7	0.0	4843.7
	% Fixture	24.4	0.0	24.4
Street Side	Lumens	15046.2	0.0	15046.2
	% Fixture	75.6	0.0	75.6
Total	Lumens	19890.0	0.0	19890.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	311.0	1.6
10°-20°	956.5	4.8
20°-30°	1794.9	9.0
30°-40°	2760.9	13.9
40°-50°	3713.7	18.7
50°-60°	4391.9	22.1
60°-70°	4062.7	20.4
70°-80°	1709.2	8.6
80°-90°	189.1	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°	19890.0	100.0
0°-180°	19890.0	100.0

Coefficient of Utilization



REPORT NUMBER: P1210941

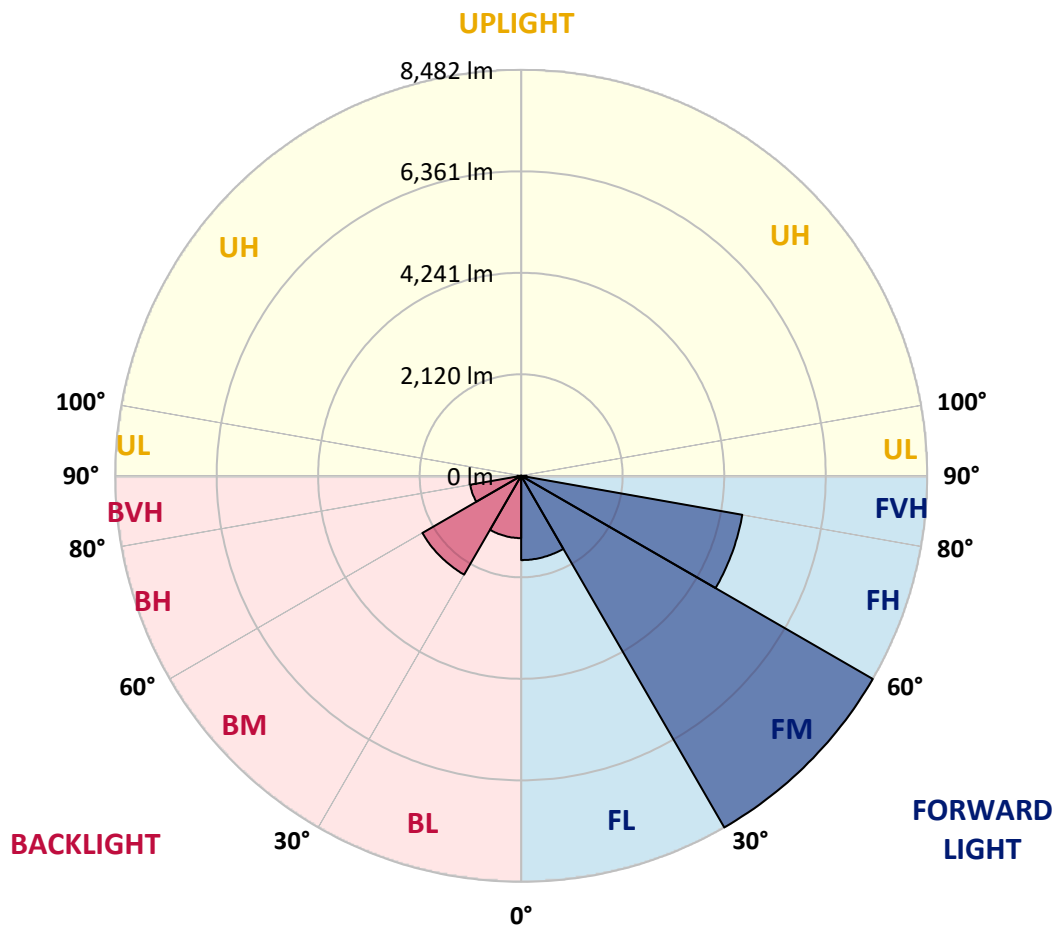
CATALOG NUMBER: ARCH4-120-730-U-T2RE

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1760.5	8.9			
FM	(30°-60°)	8482.0	42.6			
FH	(60°-80°)	4690.6	23.6			G2/5000
FVH	(80°-90°)	113.2	0.6			G2/225
BL	(0°-30°)	1301.9	6.5	B3/2500		
BM	(30°-60°)	2384.6	12.0	B2/2500		
BH	(60°-80°)	1081.3	5.4	B3/2500		G3/2500
BVH	(80°-90°)	76.0	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: P1210941

CATALOG NUMBER: ARCH4-120-730-U-T2RE

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	3260.6	3260.6	3260.6	3260.6	3260.6	3260.6	3260.6	3260.6	3260.6	3260.6	3260.6
2.5°	3250.4	3245.3	3255.5	3270.9	3278.5	3265.8	3260.6	3258.1	3258.1	3250.4	3263.2
5°	3096.8	3094.3	3117.3	3145.5	3199.2	3237.6	3288.8	3319.5	3309.3	3293.9	3304.1
7.5°	2897.2	2892.1	2920.2	2974.0	3048.2	3132.7	3258.1	3355.3	3393.7	3388.6	3386.0
10°	2974.0	2968.9	2966.3	2950.9	2976.5	3058.4	3189.0	3360.4	3491.0	3493.5	3496.1
12.5°	3240.2	3253.0	3240.2	3191.5	3135.2	3104.5	3181.3	3373.2	3572.9	3588.2	3652.2
15°	3603.6	3590.8	3565.2	3508.9	3421.9	3329.7	3273.4	3432.1	3690.6	3703.4	3844.2
17.5°	3923.5	3933.7	3918.4	3864.6	3762.3	3642.0	3470.5	3534.5	3816.0	3851.8	4048.9
20°	4271.6	4312.5	4292.1	4225.5	4141.1	3961.9	3746.9	3682.9	3954.2	3979.8	4261.3
22.5°	4673.4	4716.9	4678.5	4614.5	4545.4	4325.3	4048.9	3864.6	4069.4	4123.1	4466.1
25°	5154.6	5195.5	5159.7	5059.9	4972.8	4704.1	4374.0	4069.4	4182.0	4240.9	4632.5
27.5°	5535.9	5566.6	5599.9	5541.0	5407.9	5129.0	4711.8	4281.8	4294.6	4356.0	4786.0
30°	5876.3	5953.1	5981.2	5988.9	5876.3	5564.1	5057.3	4501.9	4391.9	4455.9	4939.6
32.5°	6342.1	6457.3	6411.2	6457.3	6390.7	5973.6	5415.6	4729.7	4517.3	4576.1	5085.5
35°	7022.9	7115.0	6994.7	6958.9	6851.4	6388.2	5761.1	4965.2	4683.6	4747.6	5223.7
37.5°	7754.9	7859.8	7685.8	7542.5	7337.7	6797.7	6058.0	5274.9	4914.0	4965.2	5351.6
40°	8394.7	8481.7	8330.7	8141.3	7798.4	7158.5	6314.0	5492.4	5144.3	5208.3	5500.1
42.5°	8985.9	9042.2	8873.3	8691.6	8233.5	7483.6	6590.4	5722.7	5413.1	5474.5	5620.4
45°	9584.8	9628.3	9392.9	9134.4	8596.9	7780.5	6894.9	6045.2	5807.2	5889.1	5814.9
47.5°	9692.3	9705.1	9664.2	9490.1	8883.6	8064.6	7271.2	6477.8	6408.7	6498.2	6150.2
50°	8947.5	9062.7	9316.1	9487.6	8998.7	8302.6	7647.4	7097.1	7237.9	7353.1	6846.3
52.5°	7501.5	7611.6	8197.6	8847.7	8722.3	8356.3	8051.8	7882.8	8407.5	8545.7	7793.3
55°	5976.1	6073.4	6692.7	7629.5	7829.1	8110.6	8484.3	8886.1	9899.6	9991.8	8832.4
57.5°	4921.7	4975.4	5418.2	6319.1	6639.0	7324.9	8717.2	10078.8	11417.3	11558.1	9735.8
60°	4036.1	4095.0	4425.1	5167.4	5592.2	6201.3	8532.9	11256.1	13229.4	13229.4	10895.2
62.5°	3038.0	3089.2	3396.3	3977.3	4691.3	5249.3	7944.3	12036.7	14596.1	14534.6	11734.7
65°	2085.9	2126.8	2349.5	2736.0	3378.4	4473.8	7140.6	12046.9	15502.1	15420.2	12093.0
66°	1750.6	1786.4	1975.8	2288.1	2828.1	4059.2	6856.5	11829.4	15691.5	15576.3	11942.0
67.5°	1382.1	1407.7	1533.1	1717.3	2073.1	3286.2	6408.7	11212.6	15673.6	15604.5	11558.1
70°	987.9	1005.8	1098.0	1136.4	1225.9	1901.6	5090.6	9820.3	14416.9	14437.4	10048.1
72.5°	765.3	793.4	849.7	857.4	836.9	1010.9	3089.2	8192.5	11793.6	11785.9	7458.0
75°	616.8	632.2	660.3	675.7	670.6	652.6	1307.8	6111.8	8118.3	8213.0	4176.9
77.5°	486.3	483.7	509.3	529.8	545.1	511.9	598.9	3583.1	4256.2	4135.9	1568.9
80°	358.3	358.3	394.1	401.8	424.9	430.0	399.3	1382.1	1461.4	1328.3	406.9
82.5°	235.5	235.5	273.9	279.0	302.0	335.3	289.2	414.6	404.4	383.9	184.3
85°	128.0	122.8	135.6	153.6	166.4	197.1	174.0	207.3	212.4	209.9	122.8
87.5°	25.6	23.0	35.8	40.9	46.1	61.4	56.3	84.5	117.7	115.2	53.7
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: P1210941

CATALOG NUMBER: ARCH4-120-730-U-T2RE

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3260.6	3260.6	3260.6	3260.6	3260.6	3260.6	3260.6	3260.6	3260.6	3260.6	3260.6
2.5°	3281.1	3278.5	3306.7	3340.0	3378.4	3401.4	3411.6	3429.6	3416.8	3421.9	3437.2
5°	3329.7	3337.4	3378.4	3421.9	3439.8	3427.0	3398.8	3388.6	3365.6	3360.4	3355.3
7.5°	3401.4	3414.2	3455.1	3465.4	3411.6	3322.1	3258.1	3222.2	3183.9	3173.6	3168.5
10°	3519.1	3526.8	3537.0	3432.1	3299.0	3178.7	3099.4	3066.1	3040.5	3020.1	3025.2
12.5°	3667.6	3662.5	3583.1	3365.6	3176.2	3053.3	2999.6	2979.1	2961.2	2948.4	2945.8
15°	3854.4	3818.6	3590.8	3273.4	3061.0	2958.6	2920.2	2912.6	2892.1	2892.1	2889.5
17.5°	4043.8	3951.7	3585.7	3176.2	2950.9	2894.6	2871.6	2866.5	2861.4	2858.8	2866.5
20°	4233.2	4069.4	3544.7	3055.9	2874.2	2840.9	2835.8	2838.3	2833.2	2840.9	2835.8
22.5°	4399.6	4146.2	3467.9	2927.9	2820.4	2817.9	2805.1	2810.2	2828.1	2830.7	2838.3
25°	4527.5	4174.3	3355.3	2810.2	2782.0	2776.9	2792.3	2812.7	2828.1	2830.7	2843.5
27.5°	4632.5	4159.0	3214.6	2718.0	2715.5	2743.6	2789.7	2797.4	2799.9	2799.9	2789.7
30°	4711.8	4125.7	3035.4	2615.7	2628.5	2697.6	2741.1	2741.1	2720.6	2715.5	2730.8
32.5°	4729.7	4082.2	2840.9	2510.7	2531.2	2613.1	2666.9	2648.9	2625.9	2625.9	2636.1
35°	4745.1	4023.3	2684.8	2367.4	2398.1	2495.4	2546.6	2510.7	2485.1	2477.5	2474.9
37.5°	4739.9	4000.3	2544.0	2185.7	2226.6	2321.3	2354.6	2321.3	2283.0	2265.0	2288.1
40°	4745.1	3984.9	2367.4	1986.1	2027.0	2083.3	2126.8	2101.2	2065.4	2019.3	2042.4
42.5°	4775.8	4005.4	2172.9	1791.6	1791.6	1822.3	1896.5	1878.6	1791.6	1773.6	1794.1
45°	4939.6	4115.5	1978.4	1597.0	1568.9	1589.4	1666.1	1589.4	1535.6	1535.6	1553.5
47.5°	5336.3	4320.2	1806.9	1425.6	1359.0	1400.0	1420.4	1348.8	1307.8	1297.6	1315.5
50°	6145.0	4729.7	1704.5	1284.8	1202.9	1233.6	1220.8	1218.3	1177.3	1182.4	1192.7
52.5°	7373.5	5528.2	1673.8	1215.7	1113.3	1121.0	1108.2	1113.3	1105.6	1131.2	1138.9
55°	8712.1	6370.3	1712.2	1225.9	1051.9	998.2	1003.3	1028.9	1059.6	1100.5	1108.2
57.5°	9712.8	6792.6	1812.0	1295.0	975.1	893.2	906.0	954.6	1013.5	1046.8	1064.7
60°	10457.6	6741.4	1957.9	1313.0	883.0	798.5	821.6	893.2	944.4	972.6	990.5
62.5°	10700.7	6421.4	1993.7	1182.4	762.7	708.9	765.3	839.5	862.5	893.2	906.0
65°	10501.1	5968.4	1732.7	959.8	670.6	642.4	724.3	780.6	811.3	826.7	829.2
66°	10265.6	5697.1	1591.9	872.7	637.3	621.9	708.9	755.0	785.7	783.2	785.7
67.5°	9748.6	5129.0	1364.1	749.9	588.7	591.2	683.4	714.1	724.3	716.6	716.6
70°	7990.3	3611.3	977.7	568.2	517.0	552.8	614.2	621.9	645.0	634.7	634.7
72.5°	4926.8	1773.6	655.2	435.1	460.7	517.0	514.4	540.0	593.8	609.1	619.4
75°	2421.2	719.2	432.5	368.5	412.1	432.5	427.4	491.4	568.2	634.7	657.8
77.5°	918.8	358.3	302.0	322.5	332.7	325.0	340.4	445.3	568.2	688.5	711.5
80°	284.1	248.3	238.0	266.2	250.8	238.0	255.9	368.5	481.2	522.1	522.1
82.5°	171.5	194.5	184.3	181.7	168.9	171.5	184.3	263.6	371.1	389.0	389.0
85°	120.3	128.0	104.9	99.8	97.3	94.7	94.7	153.6	220.1	217.5	225.2
87.5°	46.1	51.2	38.4	38.4	35.8	25.6	20.5	25.6	25.6	17.9	12.8
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)