

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: P1210493

Luminaire Tested: **ARCH3-140-730-U-T2RE**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1210493
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: ARCH3-140-730-U-T2RE
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 3000K, 1110mA LIGHTSQUARE WITH 40 LEDS AND TYPE II ROADWAY
ILLUMINANCE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19869 lumens
Efficiency: N/A
Efficacy: 139.4 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

Input Watts (W): 142.5
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



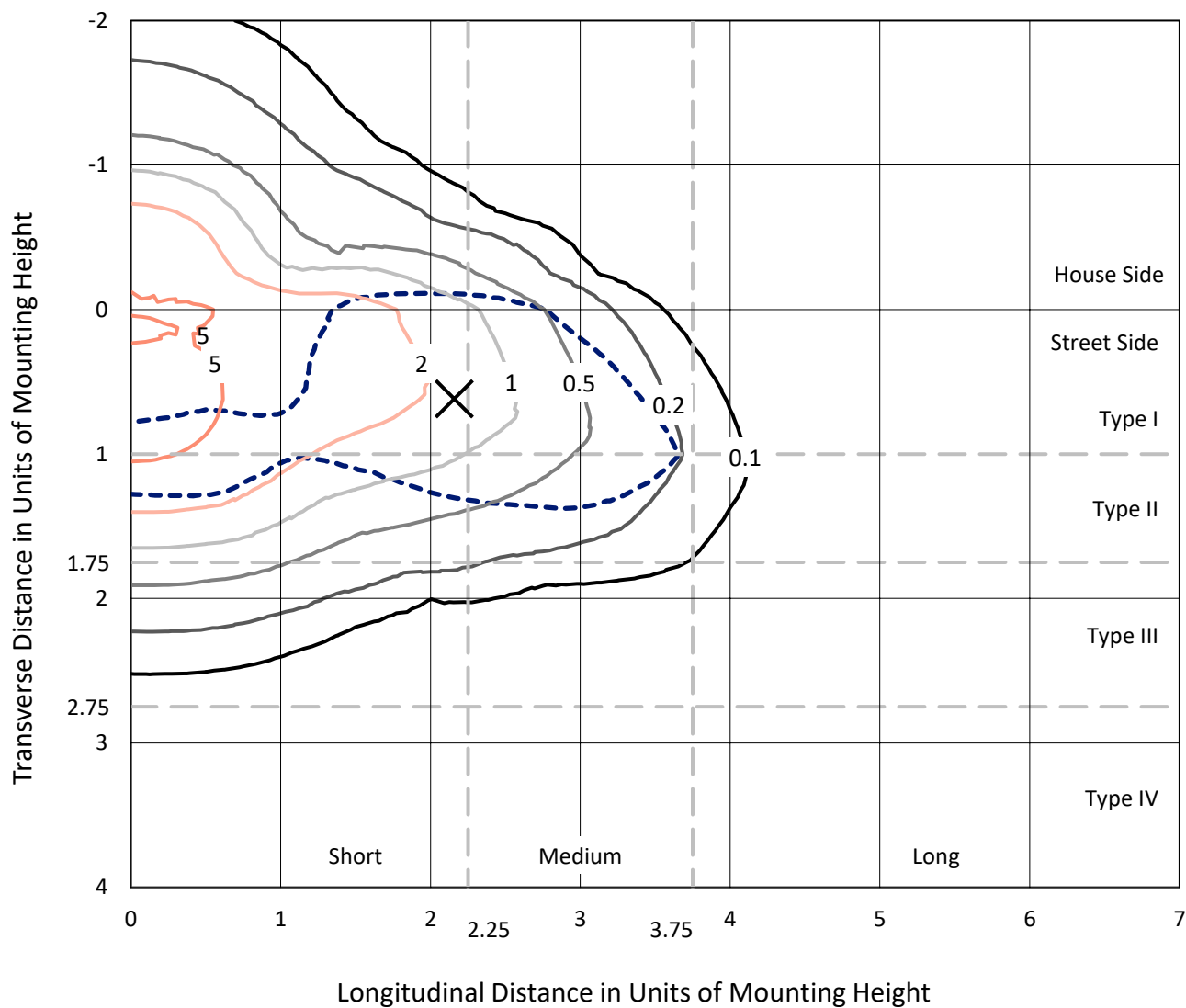
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

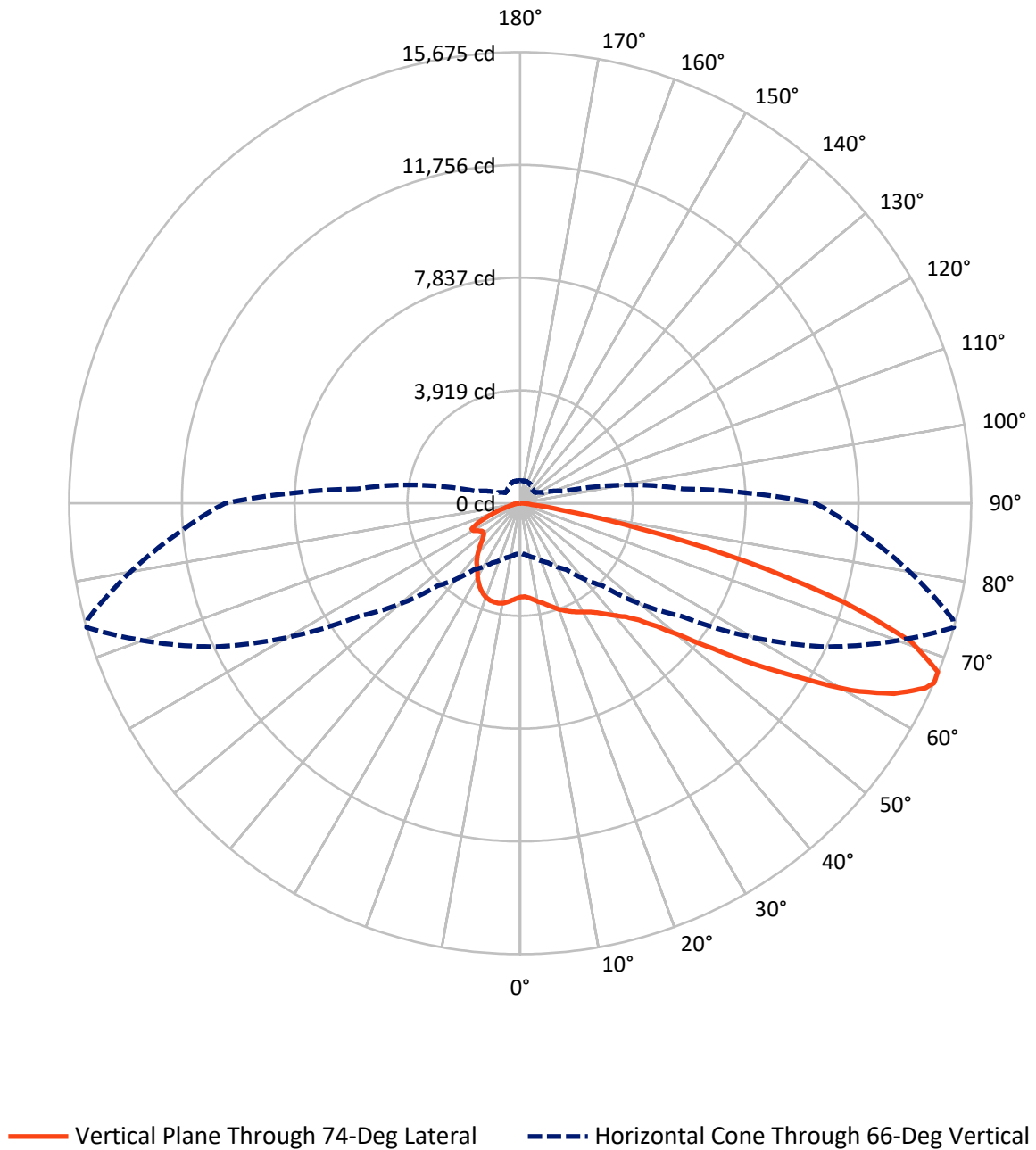


Based on 25 foot mounting height. Maximum calculated value = 6.2 fc

Type II - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4838.6	0.0	4838.6
	% Fixture	24.4	0.0	24.4
Street Side	Lumens	15030.4	0.0	15030.4
	% Fixture	75.6	0.0	75.6
Total	Lumens	19869.0	0.0	19869.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	310.7	1.6
10°-20°	955.5	4.8
20°-30°	1793.0	9.0
30°-40°	2758.0	13.9
40°-50°	3709.8	18.7
50°-60°	4387.3	22.1
60°-70°	4058.5	20.4
70°-80°	1707.4	8.6
80°-90°	188.9	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°	19869.0	100.0
0°-180°	19869.0	100.0

Coefficient of Utilization



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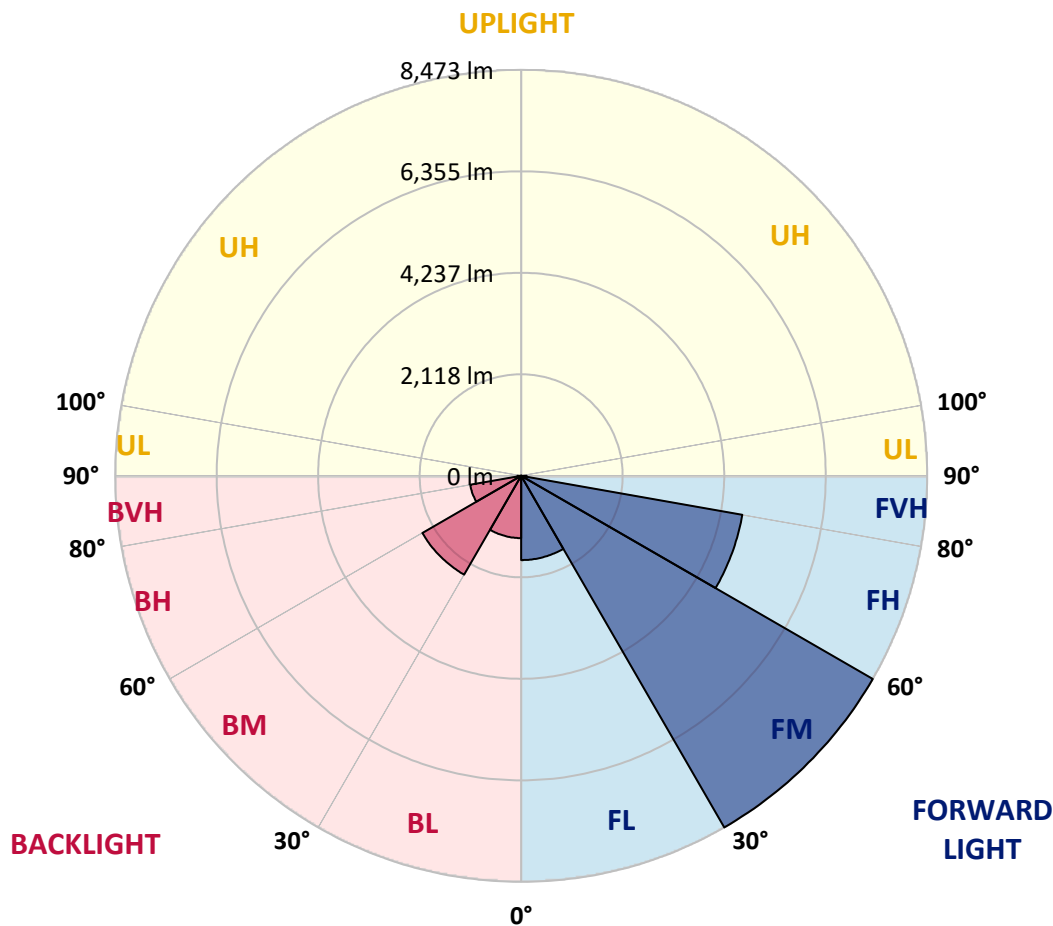
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1758.6	8.9			
FM	(30°-60°)	8473.0	42.6			
FH	(60°-80°)	4685.7	23.6			G2/5000
FVH	(80°-90°)	113.0	0.6			G2/225
BL	(0°-30°)	1300.5	6.5	B3/2500		
BM	(30°-60°)	2382.1	12.0	B2/2500		
BH	(60°-80°)	1080.2	5.4	B3/2500		G3/2500
BVH	(80°-90°)	75.9	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



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	3257.2	3257.2	3257.2	3257.2	3257.2	3257.2	3257.2	3257.2	3257.2	3257.2	3257.2
2.5°	3247.0	3241.8	3252.1	3267.4	3275.1	3262.3	3257.2	3254.6	3254.6	3247.0	3259.7
5°	3093.6	3091.0	3114.0	3142.1	3195.8	3234.2	3285.3	3316.0	3305.8	3290.4	3300.7
7.5°	2894.1	2889.0	2917.2	2970.8	3045.0	3129.4	3254.6	3351.8	3390.1	3385.0	3382.5
10°	2970.8	2965.7	2963.2	2947.8	2973.4	3055.2	3185.6	3356.9	3487.3	3489.8	3492.4
12.5°	3236.7	3249.5	3236.7	3188.2	3131.9	3101.2	3177.9	3369.7	3569.1	3584.4	3648.4
15°	3599.8	3587.0	3561.4	3505.2	3418.3	3326.2	3270.0	3428.5	3686.7	3699.5	3840.1
17.5°	3919.4	3929.6	3914.3	3860.6	3758.3	3638.1	3466.8	3530.8	3812.0	3847.8	4044.6
20°	4267.1	4308.0	4287.5	4221.1	4136.7	3957.7	3743.0	3679.0	3950.0	3975.6	4256.8
22.5°	4668.5	4711.9	4673.6	4609.7	4540.6	4320.8	4044.6	3860.6	4065.1	4118.8	4461.4
25°	5149.1	5190.0	5154.2	5054.5	4967.6	4699.1	4369.3	4065.1	4177.6	4236.4	4627.6
27.5°	5530.1	5560.7	5594.0	5535.2	5402.2	5123.6	4706.8	4277.3	4290.1	4351.4	4781.0
30°	5870.1	5946.8	5974.9	5982.6	5870.1	5558.2	5052.0	4497.2	4387.2	4451.2	4934.4
32.5°	6335.4	6450.5	6404.4	6450.5	6384.0	5967.3	5409.9	4724.7	4512.5	4571.3	5080.1
35°	7015.5	7107.5	6987.4	6951.6	6844.2	6381.4	5755.1	4959.9	4678.7	4742.6	5218.2
37.5°	7746.7	7851.5	7677.7	7534.5	7330.0	6790.5	6051.6	5269.3	4908.8	4959.9	5346.0
40°	8385.9	8472.8	8321.9	8132.7	7790.2	7151.0	6307.3	5486.6	5138.9	5202.8	5494.3
42.5°	8976.4	9032.7	8864.0	8682.4	8224.8	7475.7	6583.4	5716.7	5407.3	5468.7	5614.4
45°	9574.7	9618.2	9383.0	9124.7	8587.8	7772.3	6887.7	6038.8	5801.1	5882.9	5808.7
47.5°	9682.1	9694.9	9654.0	9480.1	8874.2	8056.0	7263.5	6470.9	6401.9	6491.4	6143.7
50°	8938.1	9053.1	9306.3	9477.6	8989.2	8293.8	7639.3	7089.6	7230.2	7345.3	6839.1
52.5°	7493.6	7603.5	8189.0	8838.4	8713.1	8347.5	8043.3	7874.5	8398.6	8536.7	7785.0
55°	5969.8	6067.0	6685.7	7621.4	7820.8	8102.1	8475.3	8876.7	9889.2	9981.2	8823.0
57.5°	4916.5	4970.2	5412.5	6312.4	6632.0	7317.2	8708.0	10068.1	11405.3	11545.9	9725.5
60°	4031.9	4090.7	4420.5	5161.9	5586.3	6194.8	8523.9	11244.2	13215.4	13215.4	10883.7
62.5°	3034.8	3085.9	3392.7	3973.1	4686.4	5243.7	7935.9	12024.0	14580.7	14519.3	11722.3
65°	2083.7	2124.6	2347.0	2733.1	3374.8	4469.0	7133.1	12034.2	15485.7	15403.9	12080.2
66°	1748.8	1784.6	1973.7	2285.7	2825.1	4054.9	6849.3	11816.9	15674.9	15559.9	11929.4
67.5°	1380.6	1406.2	1531.4	1715.5	2070.9	3282.8	6401.9	11200.7	15657.0	15588.0	11545.9
70°	986.9	1004.8	1096.8	1135.2	1224.6	1899.6	5085.2	9809.9	14401.7	14422.1	10037.5
72.5°	764.4	792.6	848.8	856.5	836.0	1009.9	3085.9	8183.9	11781.1	11773.4	7450.1
75°	616.2	631.5	659.6	675.0	669.8	651.9	1306.5	6105.3	8109.7	8204.3	4172.5
77.5°	485.8	483.2	508.8	529.2	544.6	511.3	598.3	3579.3	4251.7	4131.6	1567.2
80°	357.9	357.9	393.7	401.4	424.4	429.5	398.8	1380.6	1459.9	1326.9	406.5
82.5°	235.2	235.2	273.6	278.7	301.7	334.9	288.9	414.2	404.0	383.5	184.1
85°	127.8	122.7	135.5	153.4	166.2	196.9	173.9	207.1	212.2	209.6	122.7
87.5°	25.6	23.0	35.8	40.9	46.0	61.4	56.2	84.4	117.6	115.0	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

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3257.2	3257.2	3257.2	3257.2	3257.2	3257.2	3257.2	3257.2	3257.2	3257.2	3257.2
2.5°	3277.6	3275.1	3303.2	3336.4	3374.8	3397.8	3408.0	3425.9	3413.1	3418.3	3433.6
5°	3326.2	3333.9	3374.8	3418.3	3436.2	3423.4	3395.2	3385.0	3362.0	3356.9	3351.8
7.5°	3397.8	3410.6	3451.5	3461.7	3408.0	3318.5	3254.6	3218.8	3180.5	3170.3	3165.1
10°	3515.4	3523.1	3533.3	3428.5	3295.5	3175.4	3096.1	3062.9	3037.3	3016.9	3022.0
12.5°	3663.7	3658.6	3579.3	3362.0	3172.8	3050.1	2996.4	2976.0	2958.1	2945.3	2942.7
15°	3850.3	3814.5	3587.0	3270.0	3057.8	2955.5	2917.2	2909.5	2889.0	2889.0	2886.5
17.5°	4039.5	3947.5	3581.9	3172.8	2947.8	2891.6	2868.6	2863.5	2858.4	2855.8	2863.5
20°	4228.7	4065.1	3541.0	3052.7	2871.1	2837.9	2832.8	2835.3	2830.2	2837.9	2832.8
22.5°	4394.9	4141.8	3464.3	2924.8	2817.4	2814.9	2802.1	2807.2	2825.1	2827.7	2835.3
25°	4522.7	4169.9	3351.8	2807.2	2779.1	2774.0	2789.3	2809.8	2825.1	2827.7	2840.5
27.5°	4627.6	4154.6	3211.2	2715.2	2712.6	2740.7	2786.8	2794.4	2797.0	2797.0	2786.8
30°	4706.8	4121.3	3032.2	2612.9	2625.7	2694.7	2738.2	2738.2	2717.7	2712.6	2728.0
32.5°	4724.7	4077.9	2837.9	2508.1	2528.5	2610.4	2664.0	2646.1	2623.1	2623.1	2633.4
35°	4740.1	4019.1	2681.9	2364.9	2395.6	2492.7	2543.9	2508.1	2482.5	2474.9	2472.3
37.5°	4734.9	3996.1	2541.3	2183.4	2224.3	2318.9	2352.1	2318.9	2280.5	2262.6	2285.7
40°	4740.1	3980.7	2364.9	1984.0	2024.9	2081.1	2124.6	2099.0	2063.2	2017.2	2040.2
42.5°	4770.7	4001.2	2170.6	1789.7	1789.7	1820.3	1894.5	1876.6	1789.7	1771.8	1792.2
45°	4934.4	4111.1	1976.3	1595.4	1567.2	1587.7	1664.4	1587.7	1534.0	1534.0	1551.9
47.5°	5330.6	4315.6	1805.0	1424.1	1357.6	1398.5	1418.9	1347.4	1306.5	1296.2	1314.1
50°	6138.5	4724.7	1702.7	1283.4	1201.6	1232.3	1219.5	1217.0	1176.1	1181.2	1191.4
52.5°	7365.7	5522.4	1672.1	1214.4	1112.1	1119.8	1107.0	1112.1	1104.5	1130.0	1137.7
55°	8702.9	6363.5	1710.4	1224.6	1050.8	997.1	1002.2	1027.8	1058.5	1099.4	1107.0
57.5°	9702.5	6785.4	1810.1	1293.7	974.1	892.3	905.1	953.6	1012.4	1045.7	1063.6
60°	10446.5	6734.3	1955.8	1311.6	882.0	797.7	820.7	892.3	943.4	971.5	989.4
62.5°	10689.4	6414.7	1991.6	1181.2	761.9	708.2	764.4	838.6	861.6	892.3	905.1
65°	10490.0	5962.1	1730.9	958.7	669.8	641.7	723.5	779.8	810.5	825.8	828.4
66°	10254.8	5691.1	1590.2	871.8	636.6	621.3	708.2	754.2	784.9	782.3	784.9
67.5°	9738.3	5123.6	1362.7	749.1	588.0	590.6	682.6	713.3	723.5	715.9	715.9
70°	7981.9	3607.5	976.6	567.6	516.4	552.2	613.6	621.3	644.3	634.1	634.1
72.5°	4921.6	1771.8	654.5	434.6	460.2	516.4	513.9	539.5	593.1	608.5	618.7
75°	2418.6	718.4	432.1	368.2	411.6	432.1	427.0	490.9	567.6	634.1	657.1
77.5°	917.8	357.9	301.7	322.1	332.4	324.7	340.0	444.9	567.6	687.7	710.8
80°	283.8	248.0	237.8	265.9	250.6	237.8	255.7	368.2	480.7	521.6	521.6
82.5°	171.3	194.3	184.1	181.5	168.7	171.3	184.1	263.3	370.7	388.6	388.6
85°	120.2	127.8	104.8	99.7	97.2	94.6	94.6	153.4	219.9	217.3	225.0
87.5°	46.0	51.1	38.3	38.3	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)