

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: P1210489

Luminaire Tested: **ARCH3-140-727-U-T2RE**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1210489
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: ARCH3-140-727-U-T2RE
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2700K, 1110mA LIGHTSQUARE WITH 40 LEDS AND TYPE II ROADWAY ILLUMINANCE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19174 lumens
Efficiency: N/A
Efficacy: 134.6 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

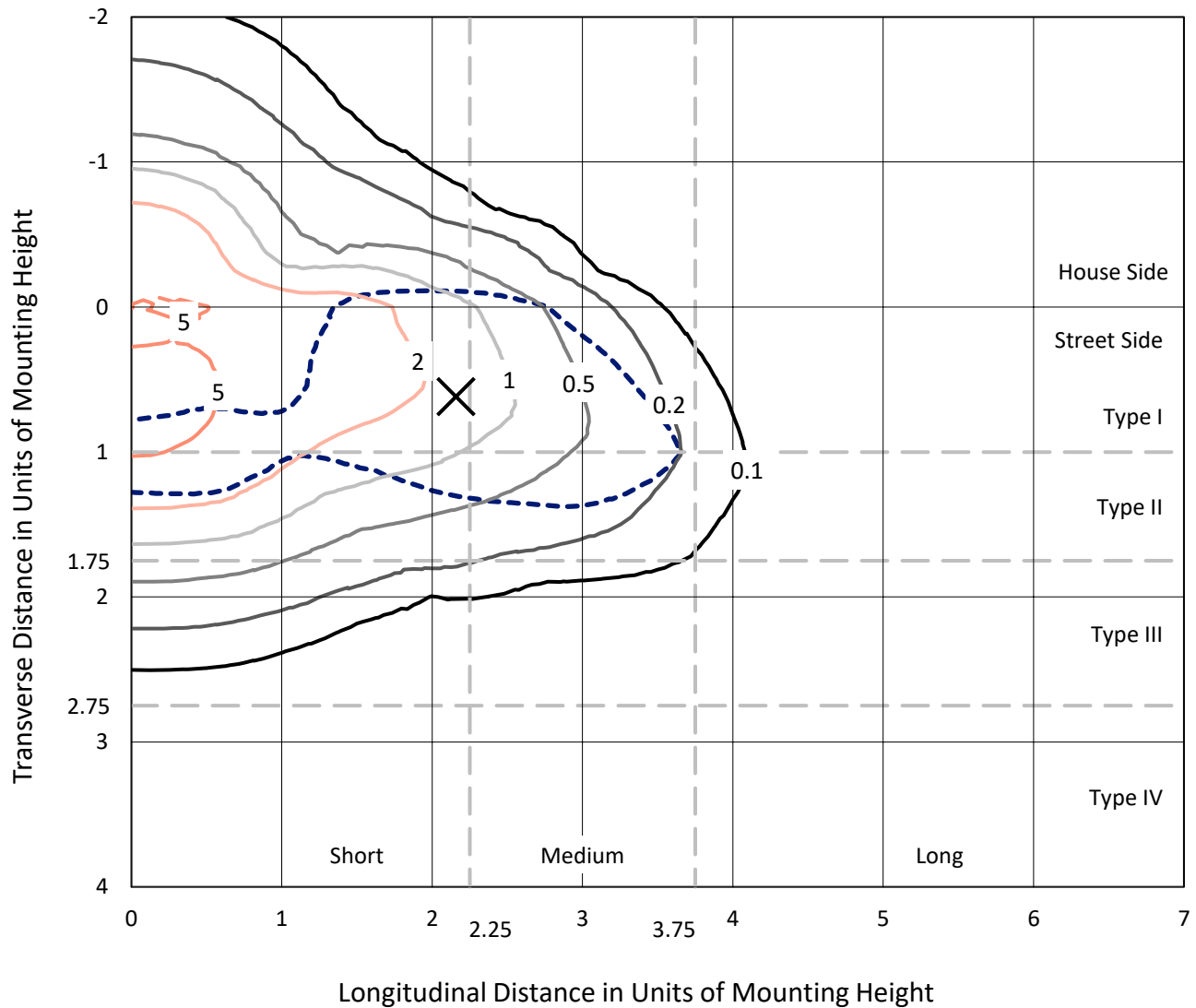


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Iso-Footcandle Lines of Horizontal Illumination

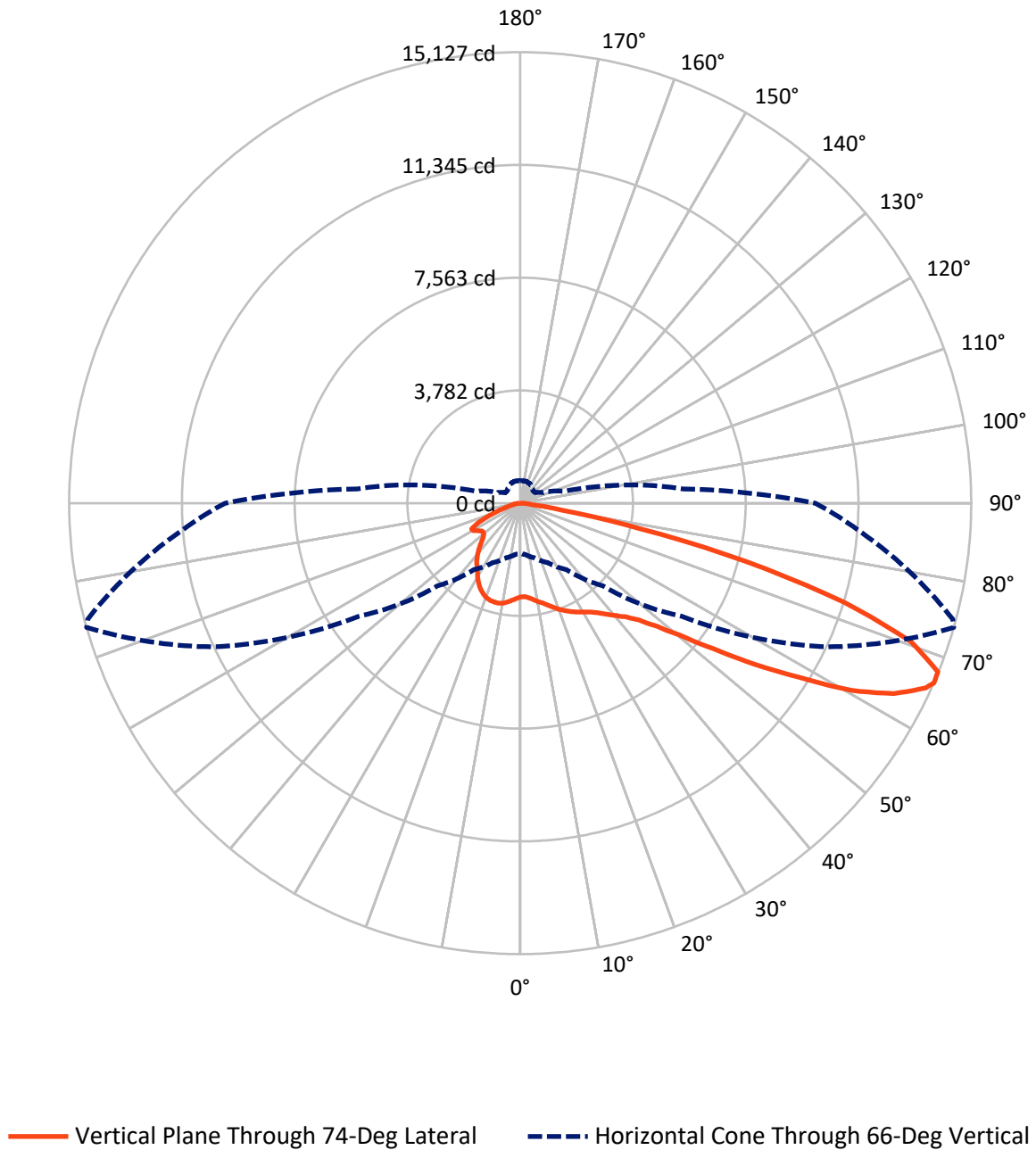
✕ Max cd
 --- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6 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	4669.4	0.0	4669.4
	% Fixture	24.4	0.0	24.4
Street Side	Lumens	14504.6	0.0	14504.6
	% Fixture	75.6	0.0	75.6
Total	Lumens	19174.0	0.0	19174.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	299.8	1.6
10°-20°	922.1	4.8
20°-30°	1730.3	9.0
30°-40°	2661.6	13.9
40°-50°	3580.0	18.7
50°-60°	4233.8	22.1
60°-70°	3916.5	20.4
70°-80°	1647.6	8.6
80°-90°	182.3	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°	19174.0	100.0
0°-180°	19174.0	100.0

Coefficient of Utilization



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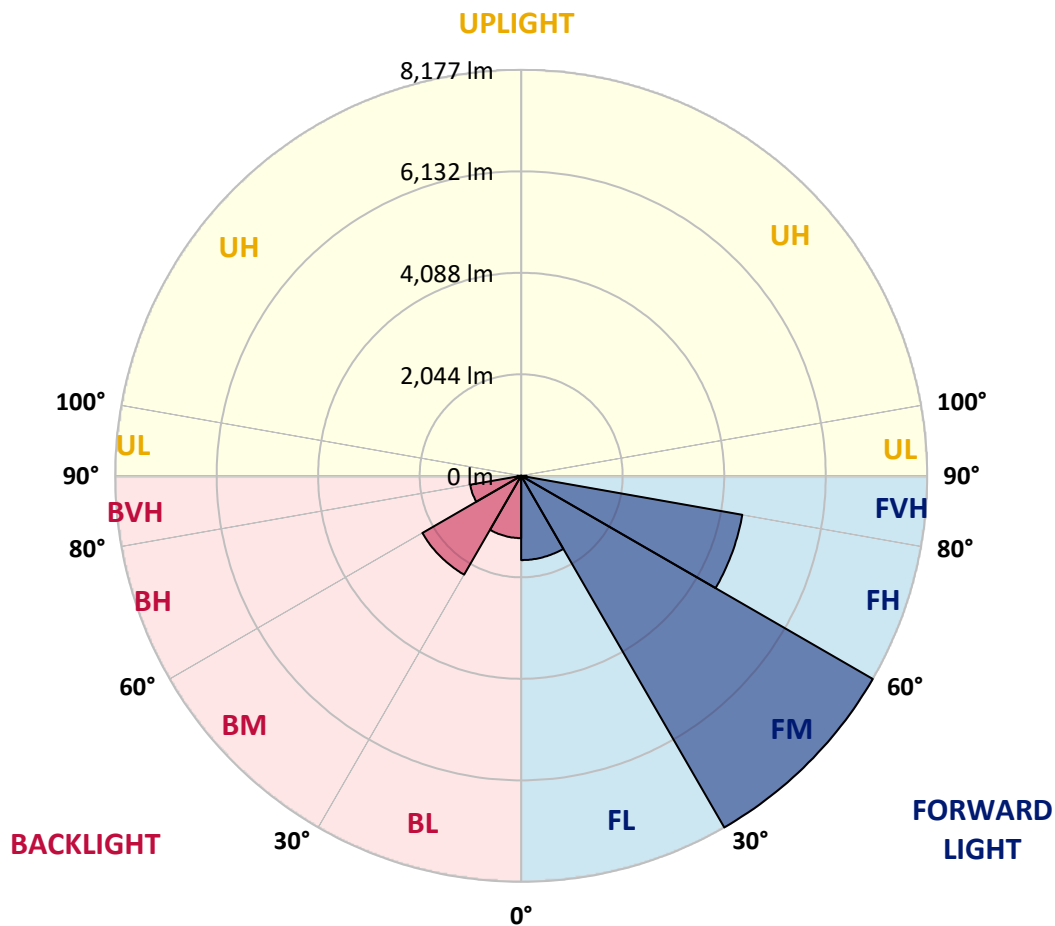
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1697.1	8.9			
FM	(30°-60°)	8176.6	42.6			
FH	(60°-80°)	4521.8	23.6			G2/5000
FVH	(80°-90°)	109.1	0.6			G2/225
BL	(0°-30°)	1255.0	6.5	B3/2500		
BM	(30°-60°)	2298.7	12.0	B2/2500		
BH	(60°-80°)	1042.4	5.4	B3/2500		G3/2500
BVH	(80°-90°)	73.2	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°	3143.3	3143.3	3143.3	3143.3	3143.3	3143.3	3143.3	3143.3	3143.3	3143.3	3143.3
2.5°	3133.4	3128.5	3138.3	3153.1	3160.5	3148.2	3143.3	3140.8	3140.8	3133.4	3145.7
5°	2985.4	2982.9	3005.1	3032.2	3084.0	3121.1	3170.4	3200.0	3190.1	3175.3	3185.2
7.5°	2792.9	2788.0	2815.1	2866.9	2938.5	3019.9	3140.8	3234.5	3271.6	3266.6	3264.2
10°	2866.9	2862.0	2859.5	2844.7	2869.4	2948.3	3074.2	3239.5	3365.3	3367.8	3370.2
12.5°	3123.5	3135.9	3123.5	3076.6	3022.4	2992.8	3066.8	3251.8	3444.3	3459.1	3520.7
15°	3473.9	3461.5	3436.9	3382.6	3298.7	3209.9	3155.6	3308.6	3557.8	3570.1	3705.8
17.5°	3782.3	3792.1	3777.3	3725.5	3626.8	3510.9	3345.6	3407.3	3678.6	3713.2	3903.2
20°	4117.8	4157.3	4137.6	4073.4	3992.0	3819.3	3612.0	3550.3	3811.9	3836.5	4107.9
22.5°	4505.2	4547.1	4510.1	4448.4	4381.8	4169.6	3903.2	3725.5	3922.9	3974.7	4305.3
25°	4969.0	5008.5	4973.9	4877.7	4793.8	4534.8	4216.5	3922.9	4031.5	4088.2	4465.7
27.5°	5336.6	5366.2	5398.3	5341.6	5213.3	4944.3	4542.2	4127.7	4140.0	4199.2	4613.7
30°	5664.8	5738.8	5765.9	5773.3	5664.8	5363.8	4875.3	4339.9	4233.8	4295.5	4761.8
32.5°	6113.8	6224.8	6180.4	6224.8	6160.7	5758.5	5220.7	4559.4	4354.7	4411.4	4902.4
35°	6770.1	6858.9	6743.0	6708.4	6604.8	6158.2	5553.7	4786.4	4515.0	4576.7	5035.6
37.5°	7475.7	7576.9	7409.1	7270.9	7073.6	6553.0	5839.9	5085.0	4737.1	4786.4	5159.0
40°	8092.5	8176.4	8030.8	7848.3	7517.7	6900.9	6086.7	5294.7	4959.1	5020.8	5302.1
42.5°	8662.5	8716.7	8553.9	8378.7	7937.1	7214.2	6353.1	5516.7	5218.2	5277.4	5418.0
45°	9239.8	9281.7	9054.7	8805.6	8287.4	7500.4	6646.7	5827.6	5598.2	5677.1	5605.6
47.5°	9343.4	9355.8	9316.3	9148.5	8563.8	7774.3	7009.4	6244.6	6178.0	6264.3	5928.8
50°	8625.4	8736.5	8980.7	9146.0	8674.8	8003.7	7372.1	6841.6	6977.3	7088.4	6599.9
52.5°	7231.5	7337.6	7902.6	8529.2	8408.3	8055.5	7761.9	7599.1	8104.9	8238.1	7512.7
55°	5761.0	5854.7	6451.8	7354.8	7547.3	7818.7	8178.9	8566.2	9543.3	9632.1	8514.4
57.5°	4744.5	4796.3	5223.1	6091.6	6400.0	7061.2	8403.4	9716.0	11006.3	11142.0	9385.4
60°	3890.8	3947.6	4265.8	4981.3	5390.9	5978.1	8225.8	10850.9	12753.1	12753.1	10503.0
62.5°	2928.6	2978.0	3274.0	3834.1	4522.4	5060.3	7658.3	11603.4	14070.6	14011.4	11312.3
65°	2010.8	2050.3	2264.9	2637.5	3256.7	4312.7	6883.6	11613.3	14944.0	14865.1	11657.7
66°	1687.6	1722.1	1904.7	2205.7	2726.3	3913.0	6609.7	11403.6	15126.6	15015.6	11512.1
67.5°	1332.3	1357.0	1477.9	1655.5	1998.5	3167.9	6178.0	10809.0	15109.3	15042.7	11142.0
70°	952.4	969.6	1058.4	1095.5	1181.8	1833.2	4907.3	9466.8	13897.9	13917.7	9686.4
72.5°	737.7	764.8	819.1	826.5	806.8	974.6	2978.0	7897.6	11369.0	11361.6	7189.5
75°	594.6	609.4	636.5	651.3	646.4	629.1	1260.8	5891.8	7826.1	7917.4	4026.5
77.5°	468.8	466.3	491.0	510.7	525.5	493.4	577.3	3454.1	4103.0	3987.1	1512.4
80°	345.4	345.4	380.0	387.4	409.6	414.5	384.9	1332.3	1408.8	1280.5	392.3
82.5°	227.0	227.0	264.0	268.9	291.1	323.2	278.8	399.7	389.8	370.1	177.6
85°	123.4	118.4	130.8	148.0	160.4	190.0	167.8	199.8	204.8	202.3	118.4
87.5°	24.7	22.2	34.5	39.5	44.4	59.2	54.3	81.4	113.5	111.0	51.8
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°	3143.3	3143.3	3143.3	3143.3	3143.3	3143.3	3143.3	3143.3	3143.3	3143.3	3143.3
2.5°	3163.0	3160.5	3187.7	3219.7	3256.7	3279.0	3288.8	3306.1	3293.8	3298.7	3313.5
5°	3209.9	3217.3	3256.7	3298.7	3316.0	3303.6	3276.5	3266.6	3244.4	3239.5	3234.5
7.5°	3279.0	3291.3	3330.8	3340.6	3288.8	3202.5	3140.8	3106.2	3069.2	3059.4	3054.4
10°	3392.4	3399.8	3409.7	3308.6	3180.3	3064.3	2987.8	2955.7	2931.1	2911.3	2916.3
12.5°	3535.5	3530.6	3454.1	3244.4	3061.8	2943.4	2891.6	2871.9	2854.6	2842.3	2839.8
15°	3715.7	3681.1	3461.5	3155.6	2950.8	2852.1	2815.1	2807.7	2788.0	2788.0	2785.5
17.5°	3898.2	3809.4	3456.6	3061.8	2844.7	2790.4	2768.2	2763.3	2758.4	2755.9	2763.3
20°	4080.8	3922.9	3417.1	2945.9	2770.7	2738.6	2733.7	2736.2	2731.2	2738.6	2733.7
22.5°	4241.2	3996.9	3343.1	2822.5	2718.9	2716.4	2704.1	2709.0	2726.3	2728.8	2736.2
25°	4364.5	4024.1	3234.5	2709.0	2681.9	2676.9	2691.8	2711.5	2726.3	2728.8	2741.1
27.5°	4465.7	4009.3	3098.8	2620.2	2617.7	2644.9	2689.3	2696.7	2699.2	2699.2	2689.3
30°	4542.2	3977.2	2926.1	2521.5	2533.8	2600.5	2642.4	2642.4	2622.7	2617.7	2632.5
32.5°	4559.4	3935.2	2738.6	2420.4	2440.1	2519.0	2570.9	2553.6	2531.4	2531.4	2541.3
35°	4574.3	3878.5	2588.1	2282.2	2311.8	2405.6	2454.9	2420.4	2395.7	2388.3	2385.8
37.5°	4569.3	3856.3	2452.4	2107.0	2146.5	2237.8	2269.9	2237.8	2200.8	2183.5	2205.7
40°	4574.3	3841.5	2282.2	1914.6	1954.0	2008.3	2050.3	2025.6	1991.1	1946.6	1968.9
42.5°	4603.9	3861.2	2094.7	1727.1	1727.1	1756.7	1828.2	1810.9	1727.1	1709.8	1729.5
45°	4761.8	3967.3	1907.2	1539.6	1512.4	1532.2	1606.2	1532.2	1480.3	1480.3	1497.6
47.5°	5144.2	4164.7	1741.9	1374.2	1310.1	1349.6	1369.3	1300.2	1260.8	1250.9	1268.2
50°	5923.8	4559.4	1643.2	1238.6	1159.6	1189.2	1176.9	1174.4	1134.9	1139.9	1149.7
52.5°	7108.1	5329.2	1613.6	1171.9	1073.2	1080.6	1068.3	1073.2	1065.8	1090.5	1097.9
55°	8398.5	6140.9	1650.6	1181.8	1014.0	962.2	967.2	991.8	1021.4	1060.9	1068.3
57.5°	9363.2	6548.0	1746.8	1248.4	940.0	861.1	873.4	920.3	977.0	1009.1	1026.4
60°	10081.1	6498.7	1887.4	1265.7	851.2	769.8	792.0	861.1	910.4	937.5	954.8
62.5°	10315.5	6190.3	1922.0	1139.9	735.2	683.4	737.7	809.3	831.5	861.1	873.4
65°	10123.1	5753.6	1670.3	925.2	646.4	619.3	698.2	752.5	782.1	796.9	799.4
66°	9896.1	5492.1	1534.6	841.3	614.3	599.5	683.4	727.8	757.4	755.0	757.4
67.5°	9397.7	4944.3	1315.0	722.9	567.5	569.9	658.8	688.4	698.2	690.8	690.8
70°	7702.7	3481.3	942.5	547.7	498.4	532.9	592.1	599.5	621.7	611.9	611.9
72.5°	4749.4	1709.8	631.6	419.4	444.1	498.4	495.9	520.6	572.4	587.2	597.1
75°	2334.0	693.3	417.0	355.3	397.2	417.0	412.0	473.7	547.7	611.9	634.1
77.5°	885.7	345.4	291.1	310.9	320.7	313.3	328.1	429.3	547.7	663.7	685.9
80°	273.9	239.3	229.5	256.6	241.8	229.5	246.7	355.3	463.8	503.3	503.3
82.5°	165.3	187.5	177.6	175.2	162.8	165.3	177.6	254.1	357.7	375.0	375.0
85°	116.0	123.4	101.2	96.2	93.8	91.3	91.3	148.0	212.2	209.7	217.1
87.5°	44.4	49.3	37.0	37.0	34.5	24.7	19.7	24.7	24.7	17.3	12.3
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)