

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: P1210623

Luminaire Tested: **ARCH3-180-730-U-T3RE**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1210623
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: ARCH3-180-730-U-T3RE
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 3000K, 1375mA LIGHTSQUARE WITH 40 LEDS AND TYPE III ROADWAY ILLUMINANCE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23208 lumens
Efficiency: N/A
Efficacy: 128.6 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G3

Input Watts (W): 180.5
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

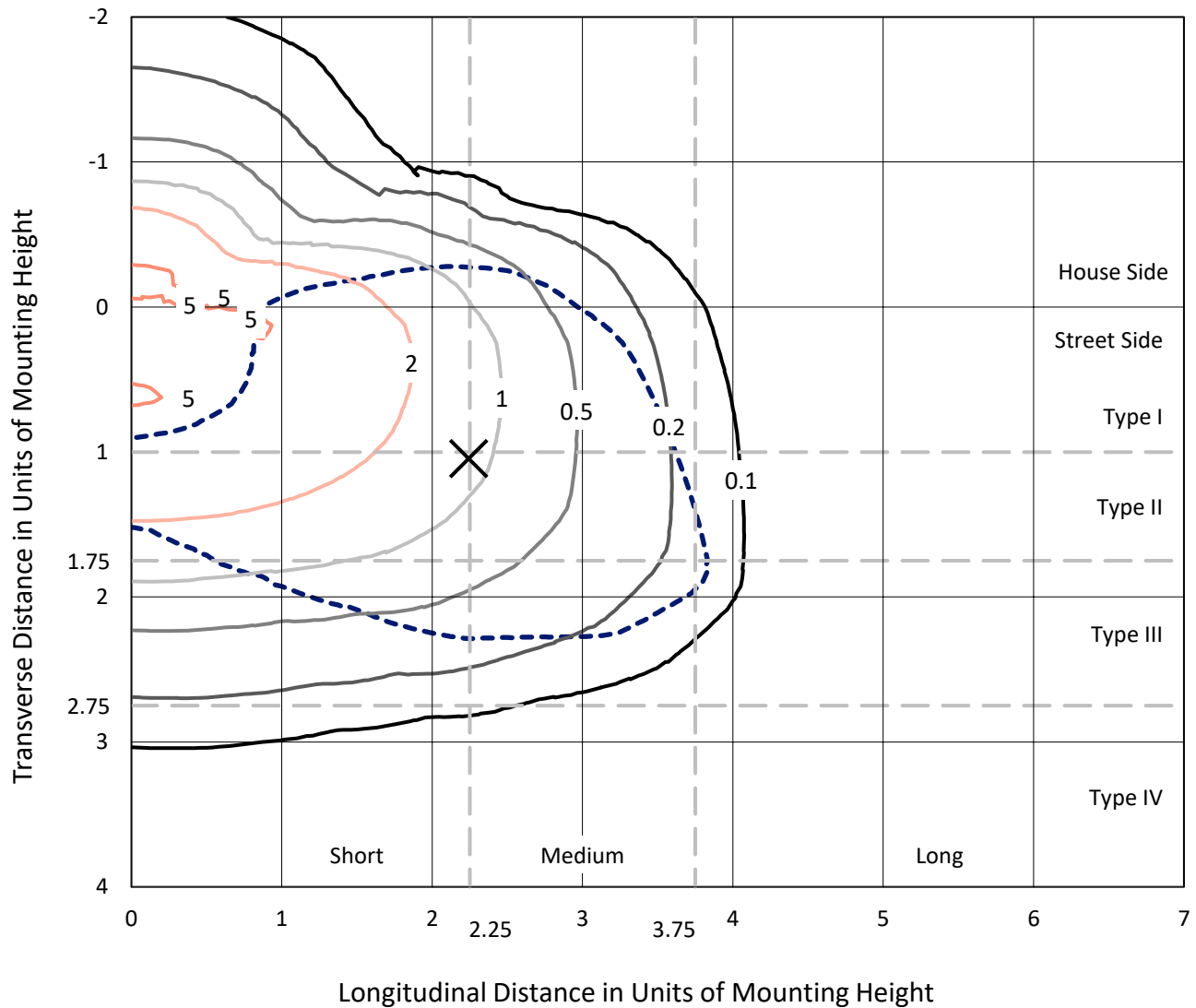


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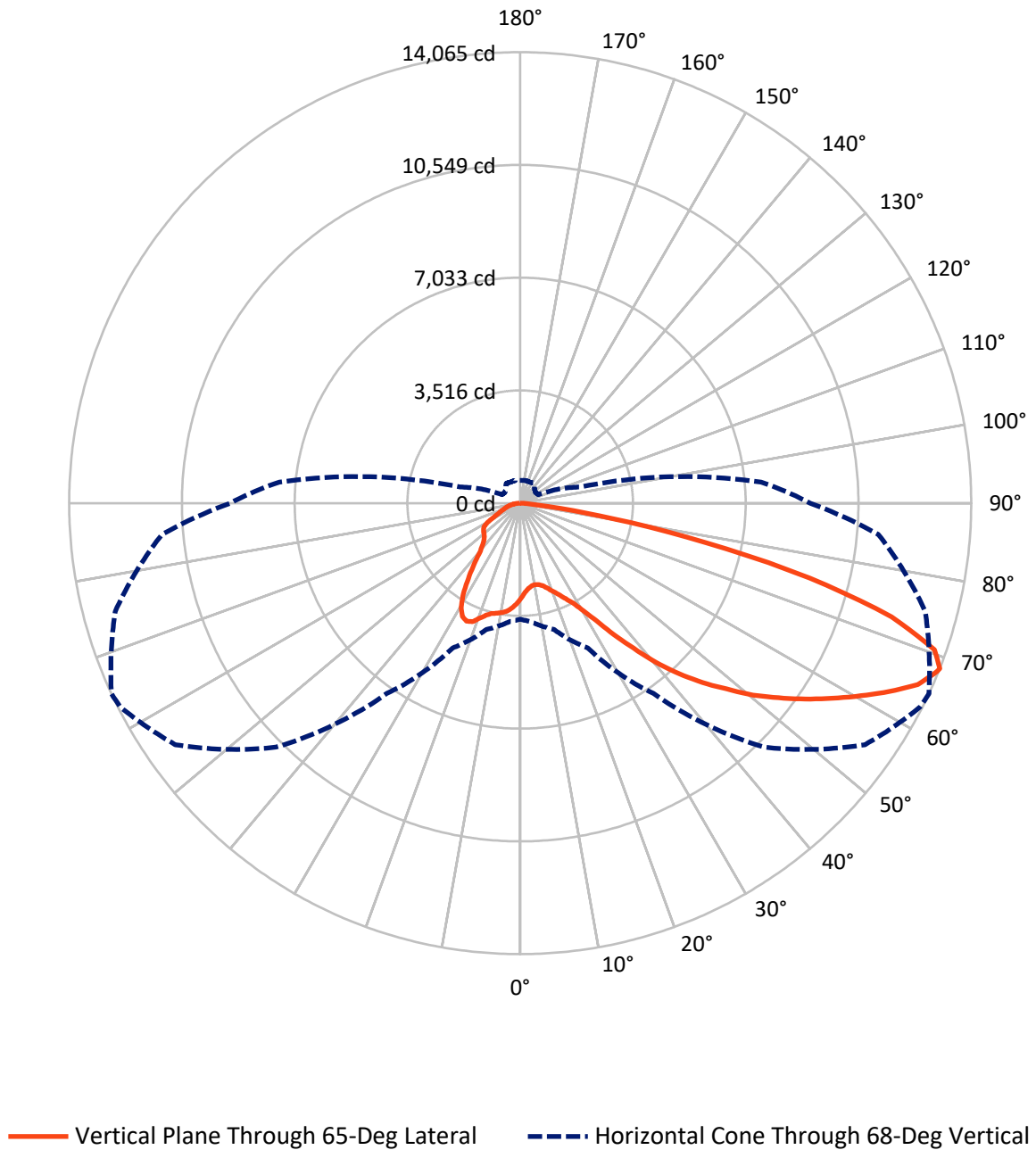
Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd



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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5689.9	0.0	5689.9
	% Fixture	24.5	0.0	24.5
Street Side	Lumens	17518.1	0.0	17518.1
	% Fixture	75.5	0.0	75.5
Total	Lumens	23208.0	0.0	23208.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	283.4	1.2
10°-20°	922.8	4.0
20°-30°	1670.3	7.2
30°-40°	2627.5	11.3
40°-50°	3913.4	16.9
50°-60°	5133.6	22.1
60°-70°	5613.9	24.2
70°-80°	2777.9	12.0
80°-90°	265.0	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°	23208.0	100.0
0°-180°	23208.0	100.0

Coefficient of Utilization



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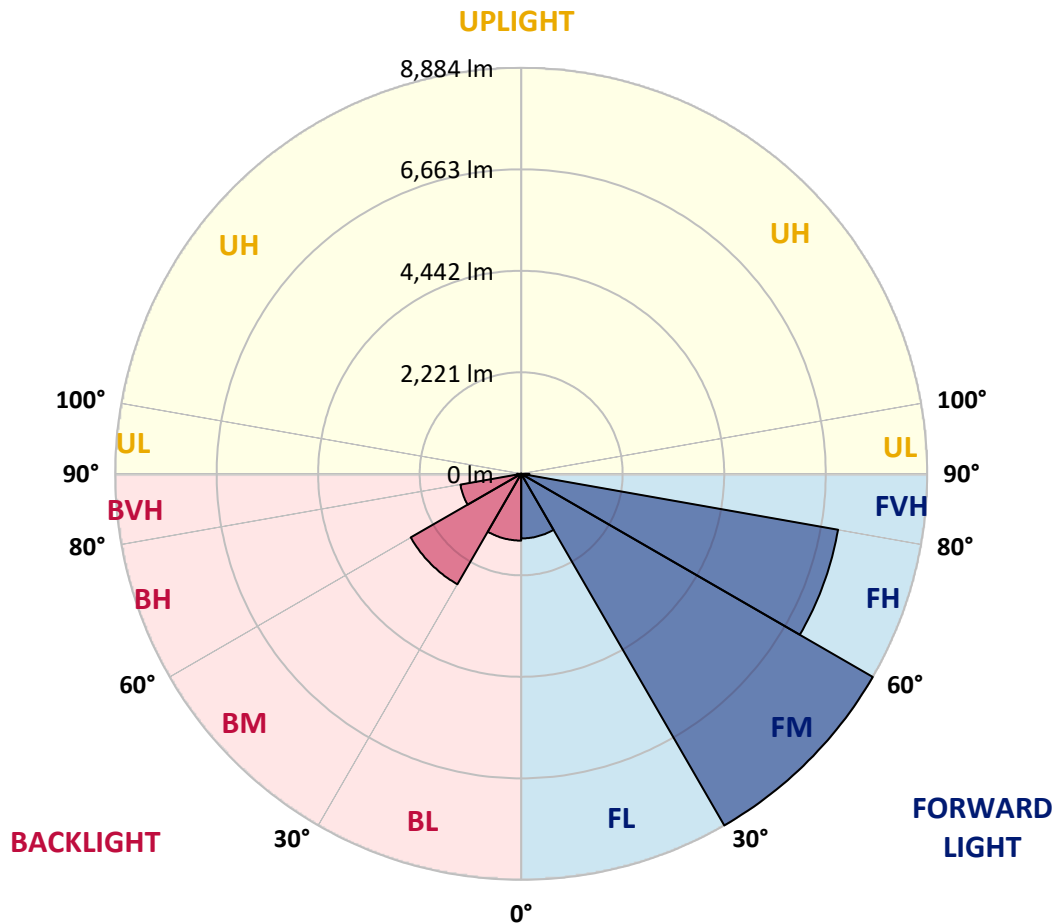
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1414.8	6.1			
FM	(30°-60°)	8883.7	38.3			
FH	(60°-80°)	7041.4	30.3			G3/7500
FVH	(80°-90°)	178.2	0.8			G2/225
BL	(0°-30°)	1461.8	6.3	B3/2500		
BM	(30°-60°)	2790.9	12.0	B3/5000		
BH	(60°-80°)	1350.5	5.8	B3/2500		G3/2500
BVH	(80°-90°)	86.8	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 III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°	85°
0°	2965.7	2965.7	2965.7	2965.7	2965.7	2965.7	2965.7	2965.7	2965.7	2965.7	2965.7
2.5°	2588.6	2582.6	2597.6	2612.6	2645.5	2684.4	2738.3	2783.1	2789.1	2872.9	2938.8
5°	2436.0	2427.0	2442.0	2459.9	2474.9	2522.8	2579.7	2645.5	2672.4	2795.1	2935.8
7.5°	2451.0	2448.0	2454.0	2448.0	2448.0	2468.9	2507.8	2573.7	2603.6	2750.2	2950.7
10°	2537.8	2543.7	2546.7	2528.8	2510.8	2501.8	2513.8	2558.7	2579.7	2753.2	3016.6
12.5°	2681.4	2690.4	2693.4	2660.5	2636.5	2597.6	2576.7	2594.6	2609.6	2783.1	3109.3
15°	2875.9	2881.9	2861.0	2840.0	2780.2	2732.3	2681.4	2666.4	2672.4	2846.0	3214.1
17.5°	3103.4	3094.4	3094.4	3043.5	2965.7	2890.9	2807.1	2795.1	2795.1	2947.7	3363.7
20°	3351.7	3360.7	3333.8	3265.0	3187.2	3070.4	2986.6	2932.8	2938.8	3064.5	3546.3
22.5°	3710.9	3725.8	3654.0	3555.2	3435.5	3300.9	3181.2	3094.4	3097.4	3217.1	3734.8
25°	4096.9	4102.9	4058.0	3926.3	3764.7	3573.2	3414.6	3303.9	3300.9	3387.7	3977.2
27.5°	4491.9	4518.9	4429.1	4303.4	4153.8	3914.4	3704.9	3555.2	3531.3	3648.0	4279.5
30°	4898.9	4931.9	4845.1	4722.4	4536.8	4333.3	4084.9	3911.4	3896.4	4052.0	4683.5
32.5°	5308.9	5317.9	5249.1	5147.3	4979.7	4788.2	4587.7	4396.2	4381.2	4635.6	5207.2
35°	5644.1	5671.0	5623.2	5599.2	5476.5	5300.0	5105.4	4994.7	5033.6	5359.8	5886.5
37.5°	6048.1	6075.0	6021.2	6015.2	5976.3	5823.7	5689.0	5698.0	5736.9	6179.8	6601.8
40°	6631.7	6661.6	6523.9	6464.1	6464.1	6314.5	6269.6	6482.0	6532.9	6987.8	7346.9
42.5°	7125.5	7173.3	7092.5	7053.6	6936.9	6832.2	6886.1	7185.3	7272.1	7759.9	7996.3
45°	7364.9	7400.8	7496.5	7610.3	7496.5	7314.0	7517.5	7855.7	7978.4	8472.1	8645.7
47.5°	7493.6	7526.5	7637.2	7942.5	8020.3	7867.6	8154.9	8576.9	8660.7	9178.4	9265.2
50°	7511.5	7616.3	7759.9	8065.1	8421.3	8442.2	8795.4	9310.1	9408.8	9872.7	9809.9
52.5°	7364.9	7406.8	7703.0	8217.8	8612.8	8971.9	9492.6	10013.4	10085.2	10525.1	10291.7
55°	7125.5	7185.3	7481.6	8181.9	8798.3	9474.7	10201.9	10704.7	10785.5	11159.5	10737.6
57.5°	6910.0	6939.9	7257.1	8077.1	8983.9	9977.4	10833.3	11425.9	11479.7	11716.2	11066.8
60°	6670.6	6703.5	7020.7	7852.7	9121.5	10357.5	11491.7	12153.1	12201.0	12302.7	11449.8
62.5°	6051.1	6137.9	6535.9	7481.6	9085.6	10791.4	12195.0	12871.3	12931.2	12820.4	11752.1
65°	4913.9	5036.6	5524.4	6640.7	8750.5	11072.7	12769.6	13532.7	13634.4	13209.5	11832.9
67.5°	3815.6	3902.4	4294.4	5270.0	7574.4	10932.1	13140.7	13987.6	14017.5	13146.6	11384.0
68°	3618.1	3704.9	4079.0	4982.7	7248.2	10764.5	13131.7	13999.5	14065.4	13077.8	11210.4
70°	2768.2	2866.9	3223.1	3947.3	5841.6	9699.1	12584.0	13712.2	13703.3	12245.9	10133.1
72.5°	1729.7	1786.6	2032.0	2489.9	3863.5	7379.8	10680.7	12093.2	12117.2	9983.4	7771.9
75°	1098.3	1098.3	1086.3	1206.0	1981.1	4204.7	7939.5	9310.1	9328.0	6990.8	4898.9
77.5°	954.7	927.7	799.0	676.3	790.1	1634.0	4698.4	6012.2	5913.4	3764.7	2325.3
80°	805.0	760.1	655.4	544.7	508.7	511.7	1804.6	3052.5	2920.8	1355.7	772.1
82.5°	580.6	541.7	493.8	427.9	392.0	305.2	377.1	882.8	861.9	392.0	251.4
85°	314.2	284.3	278.3	281.3	236.4	188.5	158.6	194.5	194.5	170.6	143.6
87.5°	110.7	80.8	95.8	107.7	92.8	77.8	62.8	74.8	77.8	74.8	68.8
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°	2965.7	2965.7	2965.7	2965.7	2965.7	2965.7	2965.7	2965.7	2965.7	2965.7	2965.7
2.5°	2977.7	3007.6	3079.4	3142.3	3187.2	3226.1	3247.0	3256.0	3276.9	3279.9	3273.9
5°	3001.6	3079.4	3187.2	3279.9	3330.8	3351.7	3357.7	3360.7	3351.7	3357.7	3351.7
7.5°	3064.5	3163.2	3315.8	3396.6	3405.6	3372.7	3375.7	3363.7	3375.7	3387.7	3387.7
10°	3160.2	3285.9	3429.6	3459.5	3420.6	3402.6	3438.5	3510.4	3534.3	3567.2	3567.2
12.5°	3285.9	3435.5	3537.3	3510.4	3474.4	3534.3	3639.0	3710.9	3734.8	3746.8	3737.8
15°	3429.6	3591.2	3642.0	3552.3	3618.1	3746.8	3782.7	3740.8	3680.9	3654.0	3669.0
17.5°	3612.1	3746.8	3716.9	3657.0	3806.6	3824.6	3707.9	3573.2	3477.4	3441.5	3465.5
20°	3803.6	3920.4	3782.7	3809.6	3902.4	3710.9	3489.4	3315.8	3232.0	3217.1	3241.0
22.5°	4007.1	4082.0	3848.5	3986.2	3848.5	3459.5	3193.1	3103.4	3082.4	3106.4	3127.3
25°	4237.6	4228.6	3962.2	4040.1	3648.0	3151.2	2992.6	2986.6	2986.6	3001.6	3031.5
27.5°	4497.9	4357.3	4076.0	3968.2	3300.9	2896.9	2866.9	2869.9	2861.0	2864.0	2878.9
30°	4800.2	4530.8	4201.7	3731.8	2911.8	2705.3	2693.4	2684.4	2663.4	2657.5	2663.4
32.5°	5180.2	4713.4	4330.3	3342.8	2570.7	2507.8	2501.8	2454.0	2403.1	2397.1	2418.0
35°	5662.1	5045.6	4396.2	2855.0	2289.4	2286.4	2265.4	2190.6	2124.8	2124.8	2109.8
37.5°	6212.7	5473.5	4423.1	2379.1	2055.9	2070.9	2011.0	1915.3	1864.4	1834.5	1843.5
40°	6775.3	5961.3	4420.1	1963.2	1852.4	1855.4	1810.5	1693.8	1568.1	1493.3	1511.3
42.5°	7317.0	6404.2	4342.3	1741.7	1687.8	1678.9	1643.0	1484.3	1379.6	1319.8	1322.7
45°	7750.9	6862.1	4222.6	1610.0	1538.2	1553.2	1472.4	1376.6	1280.8	1227.0	1224.0
47.5°	8184.9	7209.3	4031.1	1529.2	1427.5	1400.6	1367.6	1301.8	1230.0	1170.1	1173.1
50°	8579.9	7505.5	3851.5	1475.4	1325.7	1256.9	1262.9	1224.0	1161.1	1107.3	1104.3
52.5°	8858.2	7700.0	3752.8	1445.4	1203.0	1128.2	1149.2	1128.2	1068.4	1029.5	1026.5
55°	9136.5	7849.7	3785.7	1406.5	1068.4	1008.5	1044.4	1038.4	1005.5	993.6	996.5
57.5°	9361.0	7963.4	3902.4	1334.7	939.7	903.8	963.6	945.7	921.7	924.7	924.7
60°	9579.4	8110.0	4040.1	1170.1	829.0	832.0	888.8	855.9	840.9	867.9	870.9
62.5°	9806.9	8268.6	3926.3	930.7	733.2	754.1	820.0	793.0	799.0	837.9	849.9
65°	9779.9	8253.7	3199.1	763.1	649.4	691.3	790.1	781.1	784.1	799.0	805.0
67.5°	9229.3	7727.0	2199.6	649.4	589.5	640.4	766.1	730.2	733.2	724.2	727.2
68°	9043.7	7541.4	1939.2	631.4	577.6	628.5	754.1	721.2	724.2	715.2	712.2
70°	8032.2	6458.1	1227.0	556.6	535.7	595.5	694.3	682.3	679.3	673.3	673.3
72.5°	6122.9	4767.3	646.4	481.8	487.8	544.7	619.5	643.4	628.5	631.4	649.4
75°	4055.0	2866.9	448.9	413.0	427.9	466.9	550.6	598.5	583.6	592.5	583.6
77.5°	2145.7	1544.2	359.1	350.1	350.1	377.1	454.9	529.7	529.7	523.7	514.7
80°	703.3	544.7	287.3	275.3	281.3	296.3	365.1	433.9	442.9	430.9	425.0
82.5°	236.4	251.4	215.5	200.5	206.5	218.5	275.3	332.2	335.2	311.2	305.2
85°	146.6	167.6	134.7	131.7	131.7	134.7	167.6	182.6	167.6	149.6	155.6
87.5°	68.8	83.8	62.8	53.9	44.9	38.9	29.9	12.0	12.0	6.0	6.0
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)