

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: P835958

Luminaire Tested: **ARCH3-120-727-U-T2U**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P835958
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-18)
Test Lab: INNOVATION CENTER
Issue Date: 5/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH3-120-727-U-T2U
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2700K, 965mA LIGHTSQUARE WITH 40 LEDS AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17814 lumens
Efficiency: N/A
Efficacy: 145.2 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

Input Watts (W): 122.7
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

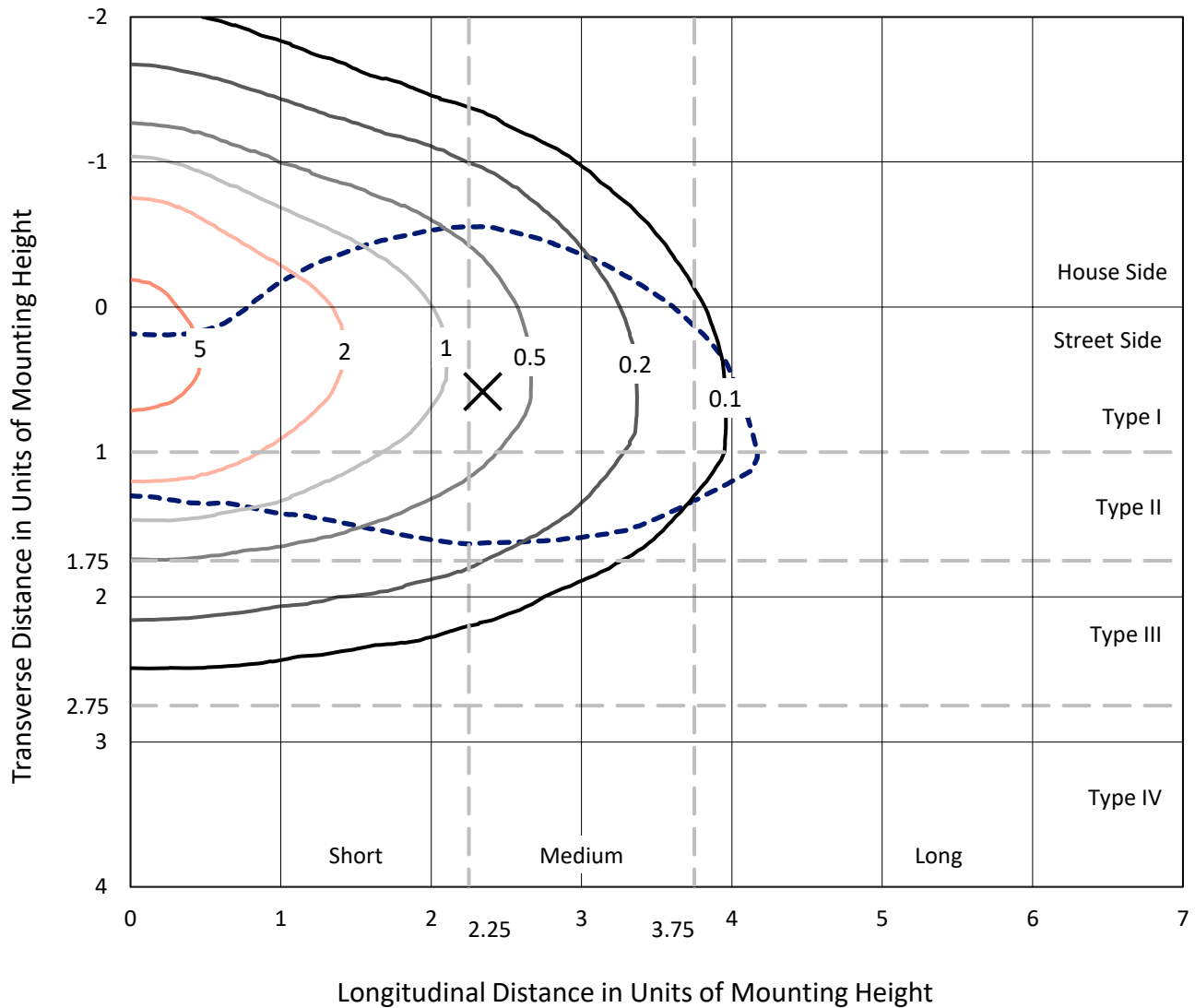


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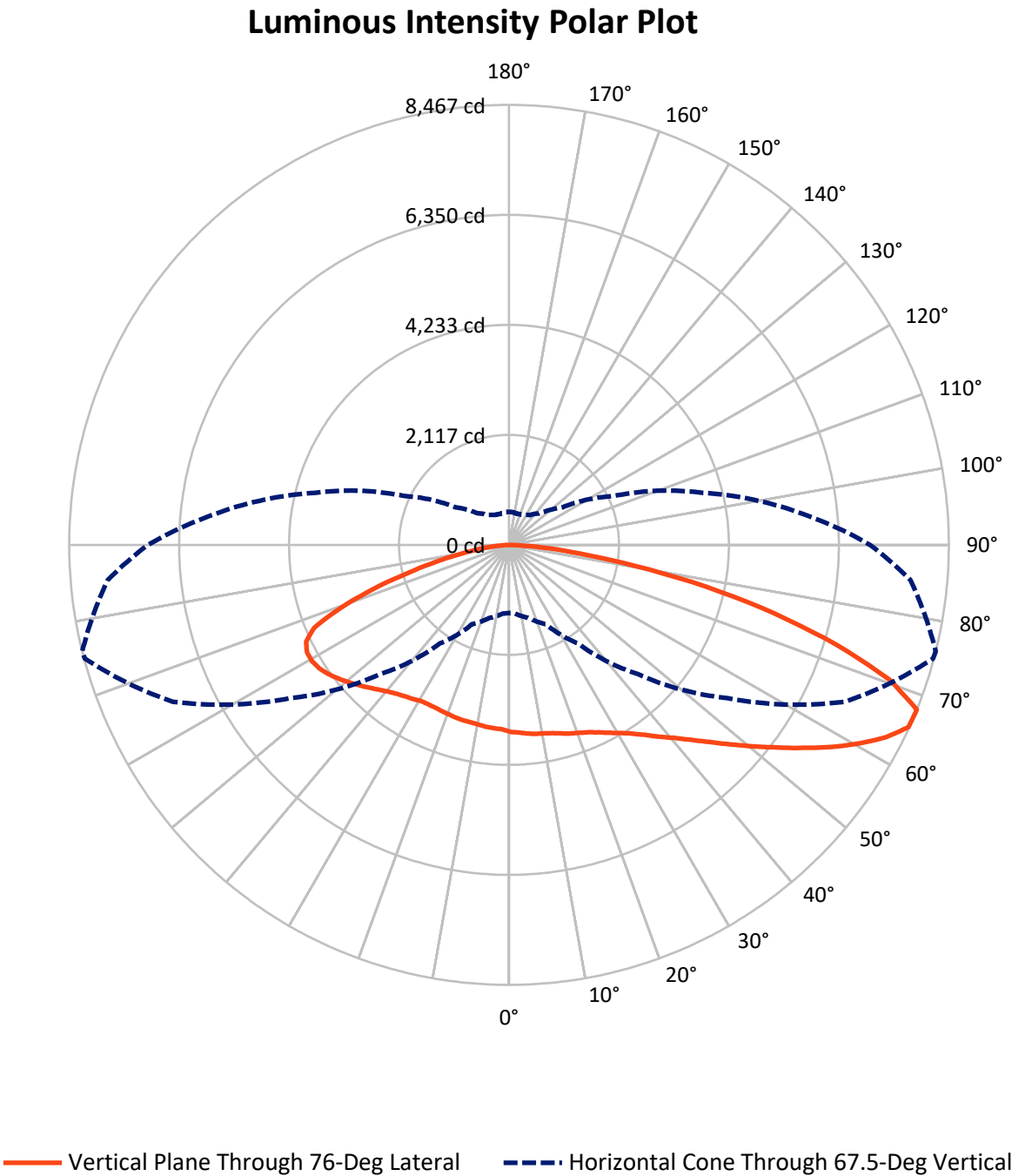
Iso-Footcandle Lines of Horizontal Illumination

× Max cd
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.5 fc
Type II - Medium - N/A

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6019.4	0.0	6019.4
	% Fixture	33.8	0.0	33.8
Street Side	Lumens	11794.6	0.0	11794.6
	% Fixture	66.2	0.0	66.2
Total	Lumens	17814.0	0.0	17814.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	347.0	1.9
10°-20°	1060.8	6.0
20°-30°	1802.3	10.1
30°-40°	2564.5	14.4
40°-50°	3238.8	18.2
50°-60°	3506.6	19.7
60°-70°	3261.6	18.3
70°-80°	1751.7	9.8
80°-90°	280.7	1.6
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°	17814.0	100.0
0°-180°	17814.0	100.0

Coefficient of Utilization



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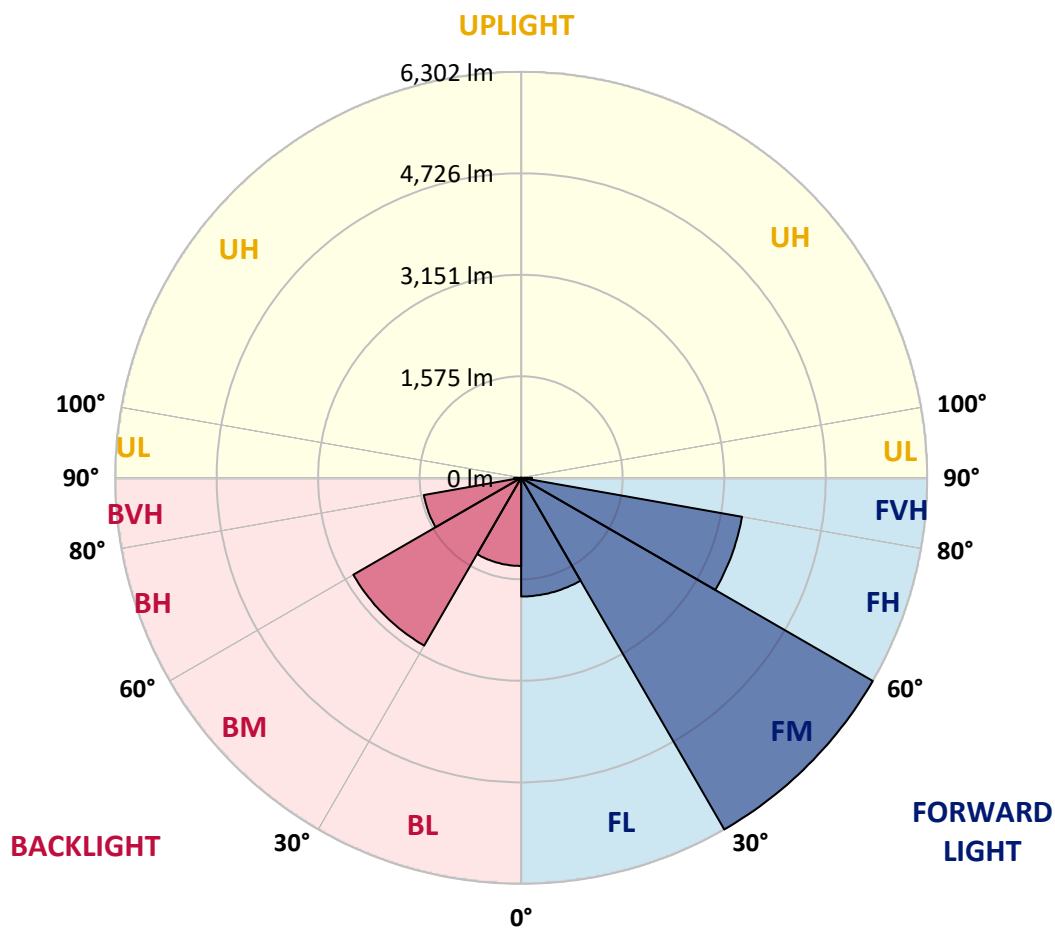
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1842.2	10.3			
FM	(30°-60°)	6301.9	35.4			
FH	(60°-80°)	3480.7	19.5			G2/5000
FVH	(80°-90°)	169.8	1.0			G2/225
BL	(0°-30°)	1367.9	7.7	B3/2500		
BM	(30°-60°)	3008.0	16.9	B3/5000		
BH	(60°-80°)	1532.6	8.6	B3/2500		G3/2500
BVH	(80°-90°)	110.9	0.6			G2/225
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 Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	3598.4	3598.4	3598.4	3598.4	3598.4	3598.4	3598.4	3598.4	3598.4	3598.4	3598.4
2.5°	3707.5	3700.9	3674.5	3677.8	3677.8	3674.5	3634.8	3618.2	3618.2	3614.9	3578.5
5°	3839.8	3829.9	3800.1	3793.5	3780.3	3763.8	3700.9	3664.5	3648.0	3644.7	3595.1
7.5°	3995.3	3982.0	3945.7	3925.8	3892.7	3849.7	3770.4	3714.1	3674.5	3671.2	3601.7
10°	4150.7	4137.5	4094.5	4058.1	4011.8	3942.4	3839.8	3757.1	3694.3	3687.7	3605.0
12.5°	4335.9	4322.7	4269.8	4223.5	4154.0	4061.4	3925.8	3813.4	3727.4	3717.5	3614.9
15°	4531.1	4511.2	4458.3	4405.4	4319.4	4200.3	4038.3	3889.4	3780.3	3763.8	3644.7
17.5°	4693.1	4666.7	4623.7	4570.7	4474.8	4335.9	4150.7	3965.5	3829.9	3816.7	3674.5
20°	4832.0	4812.2	4765.9	4716.3	4613.7	4461.6	4256.5	4041.6	3876.2	3859.7	3697.6
22.5°	4964.3	4937.9	4911.4	4875.0	4762.6	4593.9	4378.9	4134.2	3935.7	3915.9	3727.4
25°	5116.5	5086.7	5076.8	5056.9	4924.6	4752.7	4527.8	4249.9	4018.4	3995.3	3780.3
27.5°	5305.0	5271.9	5252.1	5252.1	5093.3	4914.7	4686.5	4385.5	4114.3	4094.5	3846.4
30°	5503.4	5463.7	5434.0	5434.0	5255.4	5076.8	4841.9	4521.1	4223.5	4200.3	3932.4
32.5°	5678.7	5639.0	5605.9	5602.6	5417.4	5238.8	5004.0	4670.0	4355.8	4326.0	4038.3
35°	5814.3	5777.9	5748.2	5754.8	5579.5	5404.2	5185.9	4868.4	4521.1	4488.1	4177.2
37.5°	5897.0	5883.8	5867.2	5890.4	5728.3	5563.0	5374.4	5060.2	4709.7	4679.9	4349.2
40°	5940.0	5930.1	5996.2	6026.0	5854.0	5705.2	5563.0	5258.7	4914.7	4881.6	4547.6
42.5°	6002.8	6085.5	6112.0	6105.4	5946.6	5814.3	5734.9	5473.7	5156.1	5126.4	4785.7
45°	5777.9	5758.1	5903.6	5983.0	5953.2	5883.8	5897.0	5731.6	5437.3	5407.5	5060.2
47.5°	5477.0	5450.5	5533.2	5728.3	5844.1	5910.2	6042.5	5999.5	5761.4	5734.9	5381.0
50°	4841.9	4878.3	5185.9	5447.2	5675.4	5903.6	6164.9	6287.3	6118.6	6092.1	5725.0
52.5°	4137.5	4173.9	4494.7	5096.6	5470.3	5854.0	6254.2	6575.0	6505.5	6475.8	6092.1
55°	3624.8	3704.2	4068.0	4504.6	5179.3	5698.6	6307.1	6869.4	6922.3	6895.8	6492.3
57.5°	3115.5	3175.0	3449.6	3836.5	4782.4	5427.3	6303.8	7143.9	7358.8	7332.4	6899.1
60°	2516.9	2593.0	2811.2	3228.0	4253.2	5103.2	6211.2	7358.8	7778.9	7759.0	7292.7
62.5°	2106.8	2129.9	2285.4	2645.9	3571.9	4693.1	6002.8	7474.6	8159.2	8146.0	7646.6
65°	1696.7	1700.0	1842.2	2143.2	2913.8	4183.8	5648.9	7431.6	8447.0	8453.6	7901.2
67.5°	1309.7	1326.2	1455.2	1683.4	2315.1	3522.3	5142.9	7140.6	8450.3	8466.8	7755.7
70°	906.2	919.4	1114.6	1336.2	1789.3	2807.9	4458.3	6369.9	7755.7	7768.9	6952.0
72.5°	638.3	644.9	853.3	1068.3	1399.0	2116.7	3363.6	5268.6	6611.4	6621.3	5847.4
75°	476.3	482.9	601.9	810.3	1071.6	1465.2	2298.6	4035.0	5281.8	5281.8	4617.1
77.5°	337.3	340.7	390.3	558.9	714.4	988.9	1382.5	2642.6	3876.2	3882.8	3363.6
80°	228.2	231.5	254.7	377.0	446.5	535.8	750.8	1385.8	2444.1	2454.0	2136.5
82.5°	119.1	125.7	142.2	191.8	224.9	297.7	387.0	704.5	1352.7	1379.2	1283.2
85°	46.3	46.3	52.9	62.8	82.7	115.8	178.6	267.9	611.9	631.7	565.6
87.5°	16.5	16.5	19.8	19.8	23.2	26.5	29.8	39.7	69.5	69.5	66.1
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°	3598.4	3598.4	3598.4	3598.4	3598.4	3598.4	3598.4	3598.4	3598.4	3598.4	3598.4
2.5°	3565.3	3565.3	3548.8	3555.4	3552.1	3545.5	3538.9	3548.8	3538.9	3515.7	3512.4
5°	3571.9	3565.3	3538.9	3535.5	3525.6	3512.4	3495.9	3502.5	3485.9	3466.1	3462.8
7.5°	3575.2	3562.0	3525.6	3512.4	3492.6	3466.1	3439.6	3439.6	3416.5	3396.6	3393.3
10°	3568.6	3552.1	3502.5	3476.0	3439.6	3399.9	3363.6	3353.6	3327.2	3304.0	3304.0
12.5°	3571.9	3548.8	3485.9	3442.9	3393.3	3343.7	3297.4	3284.2	3261.0	3237.9	3234.6
15°	3591.8	3558.7	3479.3	3423.1	3350.3	3294.1	3244.5	3234.6	3214.7	3198.2	3198.2
17.5°	3611.6	3568.6	3469.4	3390.0	3300.7	3237.9	3191.6	3191.6	3178.4	3168.4	3168.4
20°	3621.5	3571.9	3449.6	3343.7	3241.2	3175.0	3132.1	3138.7	3135.4	3132.1	3132.1
22.5°	3644.7	3578.5	3433.0	3300.7	3178.4	3108.9	3069.2	3079.1	3075.8	3075.8	3079.1
25°	3681.1	3595.1	3419.8	3261.0	3118.8	3042.8	2999.8	3006.4	3006.4	3006.4	3006.4
27.5°	3730.7	3628.2	3416.5	3224.7	3059.3	2973.3	2920.4	2920.4	2907.2	2910.5	2913.8
30°	3806.8	3691.0	3423.1	3191.6	2996.5	2887.3	2824.5	2814.5	2811.2	2817.9	2821.2
32.5°	3899.4	3777.0	3462.8	3168.4	2930.3	2791.4	2712.0	2708.7	2698.8	2698.8	2698.8
35°	4015.1	3859.7	3499.2	3165.1	2864.2	2688.9	2602.9	2593.0	2569.8	2559.9	2559.9
37.5°	4163.9	3988.7	3542.2	3142.0	2807.9	2589.6	2487.1	2454.0	2427.6	2424.3	2424.3
40°	4345.8	4134.2	3605.0	3115.5	2748.4	2487.1	2351.5	2295.3	2298.6	2311.8	2311.8
42.5°	4560.8	4312.8	3684.4	3102.3	2662.4	2381.3	2192.8	2126.6	2149.8	2163.0	2166.3
45°	4812.2	4524.4	3773.7	3085.8	2583.0	2262.2	2024.1	1941.4	1951.3	1954.6	1957.9
47.5°	5103.2	4759.3	3866.3	3072.5	2493.7	2113.4	1838.9	1729.7	1726.4	1706.6	1713.2
50°	5407.5	5007.3	3962.2	3049.4	2384.6	1938.1	1643.7	1514.8	1488.3	1458.5	1461.8
52.5°	5731.6	5262.0	4051.5	3013.0	2249.0	1759.5	1458.5	1319.6	1266.7	1233.6	1240.3
55°	6088.8	5523.3	4137.5	2956.8	2106.8	1580.9	1293.2	1151.0	1084.8	1058.3	1061.7
57.5°	6416.2	5774.6	4200.3	2887.3	1951.3	1418.8	1147.6	1008.7	965.7	962.4	965.7
60°	6733.7	5986.3	4226.8	2791.4	1792.6	1270.0	1012.0	906.2	876.4	893.0	896.3
62.5°	7001.6	6121.9	4213.6	2662.4	1630.5	1127.8	902.9	826.8	807.0	840.1	843.4
65°	7157.1	6164.9	4120.9	2477.2	1455.2	988.9	800.4	717.7	707.8	727.6	737.5
67.5°	6952.0	5897.0	3869.6	2222.5	1260.1	859.9	701.2	635.0	618.5	635.0	635.0
70°	6161.6	5109.8	3274.3	1819.0	1045.1	734.2	608.6	562.2	549.0	562.2	558.9
72.5°	5133.0	4249.9	2579.7	1418.8	823.5	618.5	529.2	486.2	472.9	459.7	453.1
75°	3982.0	3228.0	1872.0	1041.8	621.8	496.1	443.2	403.5	370.4	383.7	377.0
77.5°	2917.1	2265.5	1326.2	721.0	446.5	383.7	347.3	317.5	294.4	320.8	317.5
80°	1878.6	1465.2	886.4	482.9	307.6	267.9	254.7	238.1	261.3	340.7	347.3
82.5°	1147.6	929.4	529.2	314.2	201.7	178.6	165.4	165.4	267.9	294.4	297.7
85°	512.6	492.8	287.7	162.1	112.4	102.5	92.6	119.1	109.1	79.4	82.7
87.5°	82.7	86.0	62.8	56.2	43.0	43.0	33.1	23.2	16.5	9.9	9.9
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)