

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: P840950

Luminaire Tested: **ARCH4-110-730-U-T2U**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P840950
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-18)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-110-730-U-T2U
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 920mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19152 lumens
Efficiency: N/A
Efficacy: 170.1 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

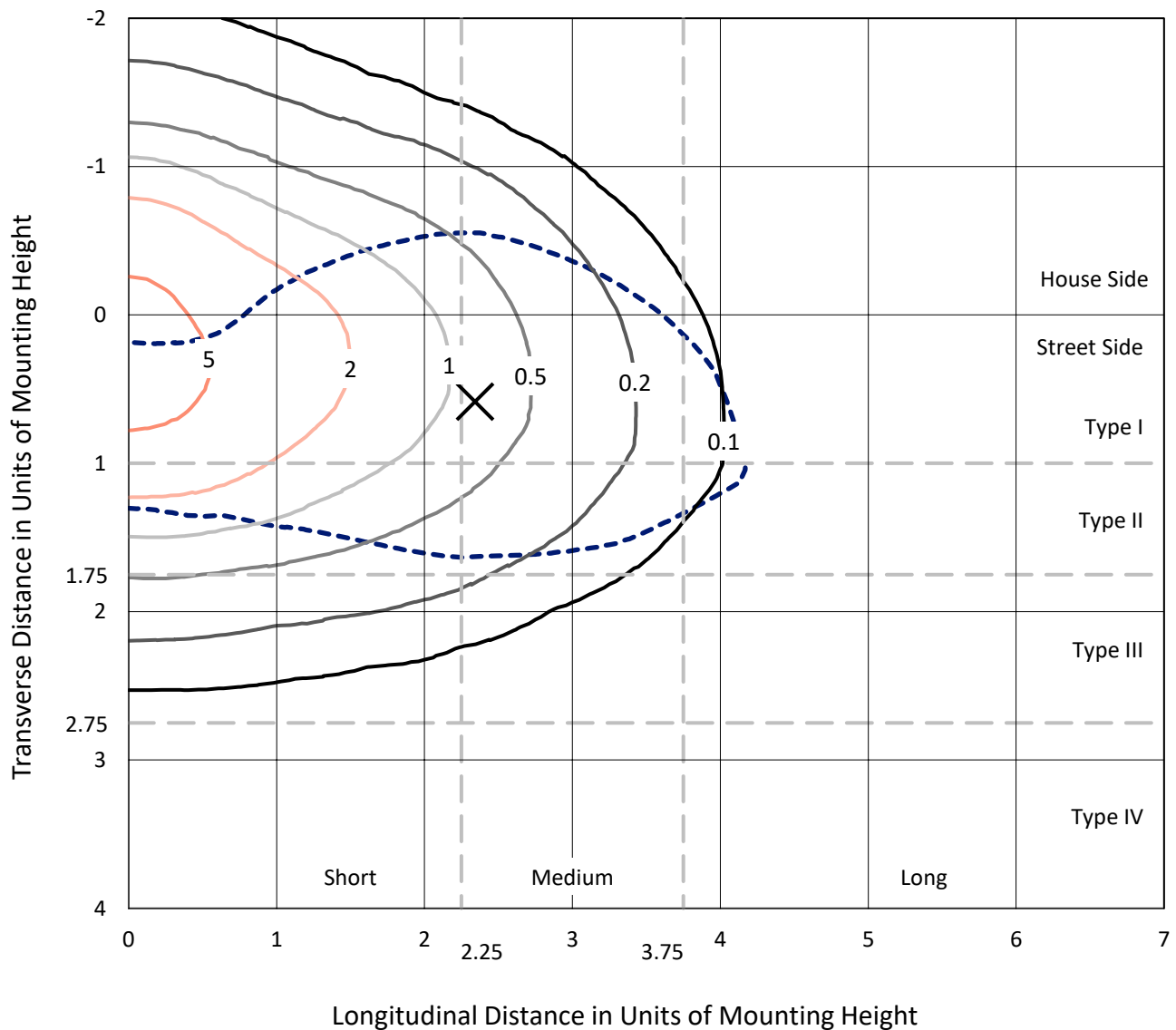
Input Watts (W): 112.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

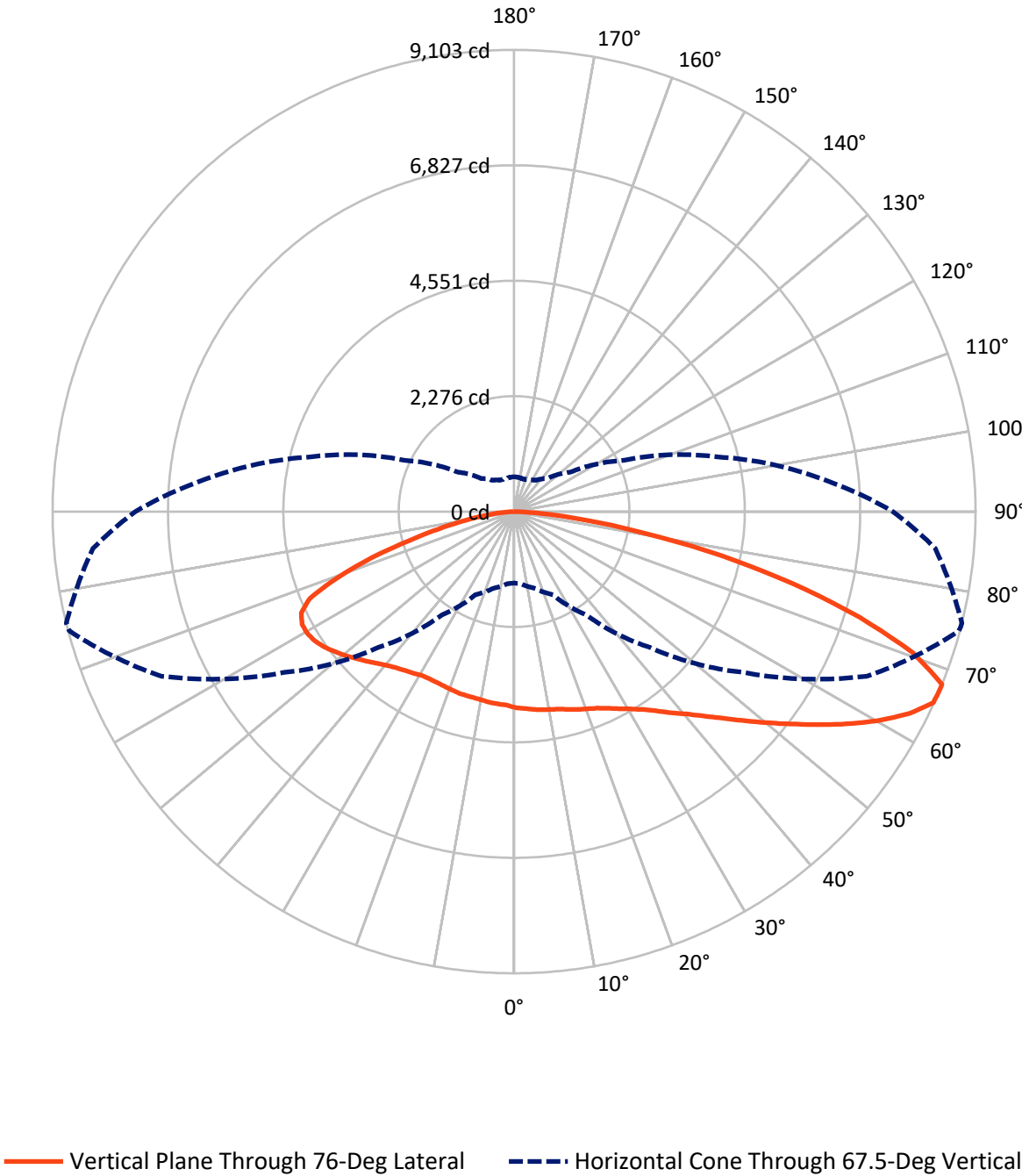
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7 fc
Type II - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6471.6	0.0	6471.6
	% Fixture	33.8	0.0	33.8
Street Side	Lumens	12680.4	0.0	12680.4
	% Fixture	66.2	0.0	66.2
Total	Lumens	19152.0	0.0	19152.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	373.0	1.9
10°-20°	1140.5	6.0
20°-30°	1937.7	10.1
30°-40°	2757.1	14.4
40°-50°	3482.1	18.2
50°-60°	3770.0	19.7
60°-70°	3506.5	18.3
70°-80°	1883.3	9.8
80°-90°	301.8	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°	19152.0	100.0
0°-180°	19152.0	100.0

Coefficient of Utilization



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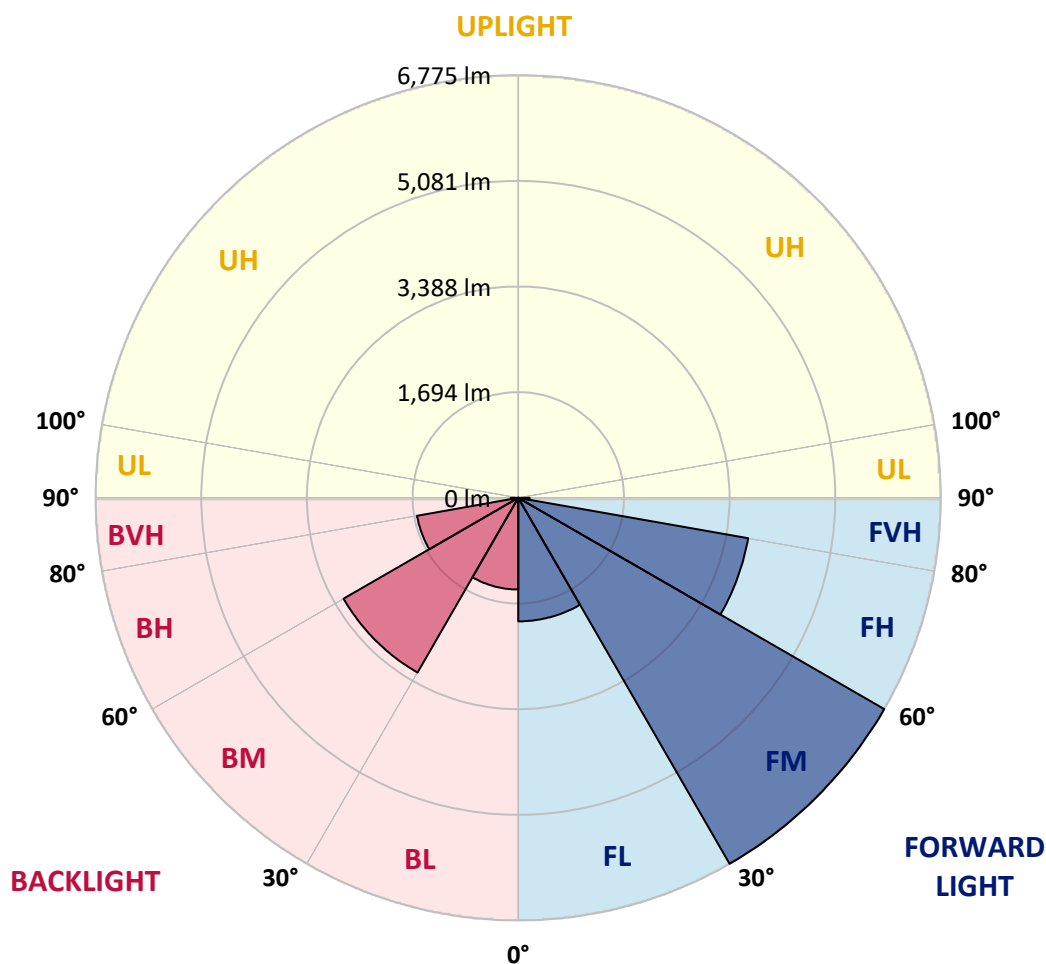
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1980.5	10.3			
FM	(30°-60°)	6775.2	35.4			
FH	(60°-80°)	3742.1	19.5			G2/5000
FVH	(80°-90°)	182.5	1.0			G2/225
BL	(0°-30°)	1470.7	7.7	B3/2500		
BM	(30°-60°)	3233.9	16.9	B3/5000		
BH	(60°-80°)	1647.7	8.6	B3/2500		G3/2500
BVH	(80°-90°)	119.2	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°	3868.7	3868.7	3868.7	3868.7	3868.7	3868.7	3868.7	3868.7	3868.7	3868.7	3868.7
2.5°	3986.0	3978.9	3950.4	3954.0	3954.0	3950.4	3907.8	3890.0	3890.0	3886.4	3847.3
5°	4128.2	4117.6	4085.6	4078.5	4064.2	4046.4	3978.9	3939.8	3922.0	3918.4	3865.1
7.5°	4295.4	4281.1	4242.0	4220.7	4185.1	4138.9	4053.6	3993.1	3950.4	3946.9	3872.2
10°	4462.5	4448.2	4402.0	4362.9	4313.1	4238.5	4128.2	4039.3	3971.8	3964.7	3875.8
12.5°	4661.6	4647.4	4590.5	4540.7	4466.0	4366.5	4220.7	4099.8	4007.3	3996.7	3886.4
15°	4871.4	4850.1	4793.2	4736.3	4643.8	4515.8	4341.6	4181.6	4064.2	4046.4	3918.4
17.5°	5045.6	5017.2	4970.9	4914.1	4810.9	4661.6	4462.5	4263.4	4117.6	4103.3	3950.4
20°	5195.0	5173.6	5123.8	5070.5	4960.3	4796.7	4576.3	4345.1	4167.3	4149.6	3975.3
22.5°	5337.2	5308.7	5280.3	5241.2	5120.3	4938.9	4707.8	4444.7	4231.3	4210.0	4007.3
25°	5500.8	5468.8	5458.1	5436.7	5294.5	5109.6	4867.8	4569.1	4320.2	4295.4	4064.2
27.5°	5703.4	5667.9	5646.5	5646.5	5475.9	5283.9	5038.5	4714.9	4423.4	4402.0	4135.3
30°	5916.8	5874.1	5842.1	5842.1	5650.1	5458.1	5205.6	4860.7	4540.7	4515.8	4227.8
32.5°	6105.2	6062.6	6027.0	6023.4	5824.3	5632.3	5379.9	5020.7	4682.9	4650.9	4341.6
35°	6251.0	6211.9	6179.9	6187.0	5998.6	5810.1	5575.4	5234.1	4860.7	4825.2	4490.9
37.5°	6339.9	6325.7	6307.9	6332.8	6158.6	5980.8	5778.1	5440.3	5063.4	5031.4	4675.8
40°	6386.1	6375.5	6446.6	6478.6	6293.7	6133.7	5980.8	5653.7	5283.9	5248.3	4889.2
42.5°	6453.7	6542.6	6571.0	6563.9	6393.2	6251.0	6165.7	5884.8	5543.4	5511.4	5145.2
45°	6211.9	6190.6	6347.0	6432.4	6400.4	6325.7	6339.9	6162.1	5845.7	5813.7	5440.3
47.5°	5888.3	5859.9	5948.8	6158.6	6283.0	6354.1	6496.4	6450.1	6194.1	6165.7	5785.2
50°	5205.6	5244.7	5575.4	5856.3	6101.7	6347.0	6627.9	6759.5	6578.1	6549.7	6155.0
52.5°	4448.2	4487.4	4832.3	5479.4	5881.2	6293.7	6723.9	7068.8	6994.2	6962.2	6549.7
55°	3897.1	3982.4	4373.6	4842.9	5568.3	6126.6	6780.8	7385.3	7442.2	7413.7	6979.9
57.5°	3349.5	3413.5	3708.7	4124.7	5141.6	5835.0	6777.3	7680.4	7911.6	7883.1	7417.3
60°	2705.9	2787.7	3022.4	3470.4	4572.7	5486.5	6677.7	7911.6	8363.1	8341.8	7840.4
62.5°	2265.0	2289.9	2457.0	2844.6	3840.2	5045.6	6453.7	8036.0	8772.0	8757.8	8220.9
65°	1824.1	1827.7	1980.6	2304.1	3132.6	4498.0	6073.2	7989.8	9081.4	9088.5	8494.7
67.5°	1408.1	1425.9	1564.5	1809.9	2489.0	3786.9	5529.2	7676.9	9085.0	9102.7	8338.2
70°	974.3	988.5	1198.3	1436.5	1923.7	3018.8	4793.2	6848.4	8338.2	8352.5	7474.2
72.5°	686.3	693.4	917.4	1148.5	1504.1	2275.7	3616.2	5664.3	7108.0	7118.6	6286.6
75°	512.0	519.1	647.1	871.2	1152.1	1575.2	2471.2	4338.0	5678.5	5678.5	4963.8
77.5°	362.7	366.2	419.6	600.9	768.0	1063.2	1486.3	2841.0	4167.3	4174.5	3616.2
80°	245.3	248.9	273.8	405.4	480.0	576.0	807.2	1489.9	2627.7	2638.4	2297.0
82.5°	128.0	135.1	152.9	206.2	241.8	320.0	416.0	757.4	1454.3	1482.7	1379.6
85°	49.8	49.8	56.9	67.6	88.9	124.5	192.0	288.0	657.8	679.1	608.0
87.5°	17.8	17.8	21.3	21.3	24.9	28.4	32.0	42.7	74.7	74.7	71.1
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°	3868.7	3868.7	3868.7	3868.7	3868.7	3868.7	3868.7	3868.7	3868.7	3868.7	3868.7
2.5°	3833.1	3833.1	3815.3	3822.4	3818.9	3811.8	3804.7	3815.3	3804.7	3779.8	3776.2
5°	3840.2	3833.1	3804.7	3801.1	3790.4	3776.2	3758.4	3765.5	3747.8	3726.4	3722.9
7.5°	3843.8	3829.5	3790.4	3776.2	3754.9	3726.4	3698.0	3698.0	3673.1	3651.8	3648.2
10°	3836.7	3818.9	3765.5	3737.1	3698.0	3655.3	3616.2	3605.5	3577.1	3552.2	3552.2
12.5°	3840.2	3815.3	3747.8	3701.5	3648.2	3594.9	3545.1	3530.9	3506.0	3481.1	3477.5
15°	3861.6	3826.0	3740.7	3680.2	3602.0	3541.5	3488.2	3477.5	3456.2	3438.4	3438.4
17.5°	3882.9	3836.7	3730.0	3644.6	3548.6	3481.1	3431.3	3431.3	3417.1	3406.4	3406.4
20°	3893.6	3840.2	3708.7	3594.9	3484.6	3413.5	3367.3	3374.4	3370.9	3367.3	3367.3
22.5°	3918.4	3847.3	3690.9	3548.6	3417.1	3342.4	3299.7	3310.4	3306.9	3306.9	3310.4
25°	3957.6	3865.1	3676.7	3506.0	3353.1	3271.3	3225.1	3232.2	3232.2	3232.2	3232.2
27.5°	4010.9	3900.7	3673.1	3466.9	3289.1	3196.6	3139.7	3139.7	3125.5	3129.1	3132.6
30°	4092.7	3968.2	3680.2	3431.3	3221.5	3104.2	3036.6	3025.9	3022.4	3029.5	3033.1
32.5°	4192.2	4060.7	3722.9	3406.4	3150.4	3001.1	2915.7	2912.2	2901.5	2901.5	2901.5
35°	4316.7	4149.6	3762.0	3402.9	3079.3	2890.8	2798.4	2787.7	2762.8	2752.2	2752.2
37.5°	4476.7	4288.2	3808.2	3378.0	3018.8	2784.2	2673.9	2638.4	2609.9	2606.4	2606.4
40°	4672.3	4444.7	3875.8	3349.5	2954.8	2673.9	2528.1	2467.7	2471.2	2485.5	2485.5
42.5°	4903.4	4636.7	3961.1	3335.3	2862.4	2560.1	2357.5	2286.4	2311.2	2325.5	2329.0
45°	5173.6	4864.3	4057.1	3317.5	2777.0	2432.1	2176.1	2087.2	2097.9	2101.5	2105.0
47.5°	5486.5	5116.7	4156.7	3303.3	2681.0	2272.1	1977.0	1859.7	1856.1	1834.8	1841.9
50°	5813.7	5383.4	4259.8	3278.4	2563.7	2083.7	1767.2	1628.5	1600.1	1568.1	1571.6
52.5°	6162.1	5657.2	4355.8	3239.3	2417.9	1891.7	1568.1	1418.7	1361.9	1326.3	1333.4
55°	6546.1	5938.1	4448.2	3178.8	2265.0	1699.7	1390.3	1237.4	1166.3	1137.8	1141.4
57.5°	6898.2	6208.3	4515.8	3104.2	2097.9	1525.4	1233.8	1084.5	1038.3	1034.7	1038.3
60°	7239.5	6435.9	4544.3	3001.1	1927.2	1365.4	1088.1	974.3	942.3	960.1	963.6
62.5°	7527.5	6581.7	4530.0	2862.4	1753.0	1212.5	970.7	888.9	867.6	903.2	906.7
65°	7694.7	6627.9	4430.5	2663.3	1564.5	1063.2	860.5	771.6	760.9	782.3	792.9
67.5°	7474.2	6339.9	4160.2	2389.5	1354.7	924.5	753.8	682.7	664.9	682.7	682.7
70°	6624.4	5493.6	3520.2	1955.7	1123.6	789.4	654.3	604.5	590.3	604.5	600.9
72.5°	5518.5	4569.1	2773.5	1525.4	885.4	664.9	568.9	522.7	508.5	494.2	487.1
75°	4281.1	3470.4	2012.6	1120.1	668.5	533.4	476.5	433.8	398.2	412.5	405.4
77.5°	3136.2	2435.7	1425.9	775.2	480.0	412.5	373.4	341.4	316.5	344.9	341.4
80°	2019.7	1575.2	952.9	519.1	330.7	288.0	273.8	256.0	280.9	366.2	373.4
82.5°	1233.8	999.2	568.9	337.8	216.9	192.0	177.8	177.8	288.0	316.5	320.0
85°	551.1	529.8	309.4	174.2	120.9	110.2	99.6	128.0	117.3	85.3	88.9
87.5°	88.9	92.4	67.6	60.4	46.2	46.2	35.6	24.9	17.8	10.7	10.7
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)