

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: P836399

Luminaire Tested: **ARCH3-180-730-U-T2U**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P836399
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: ARCH3-180-730-U-T2U
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 3000K, 1375mA LIGHTSQUARE WITH 40 LEDS AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24113 lumens
Efficiency: N/A
Efficacy: 133.6 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

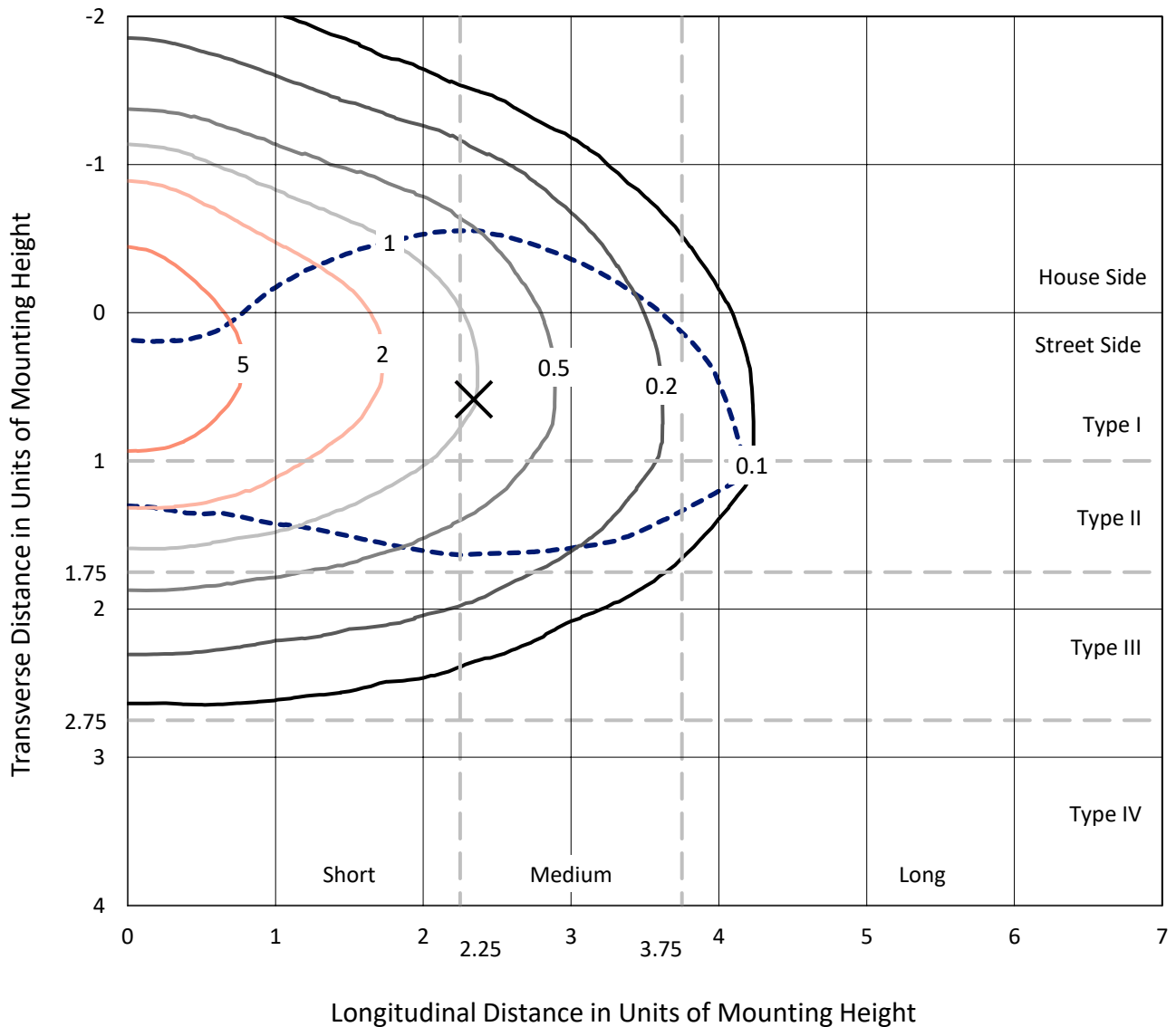
Input Watts (W): 180.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

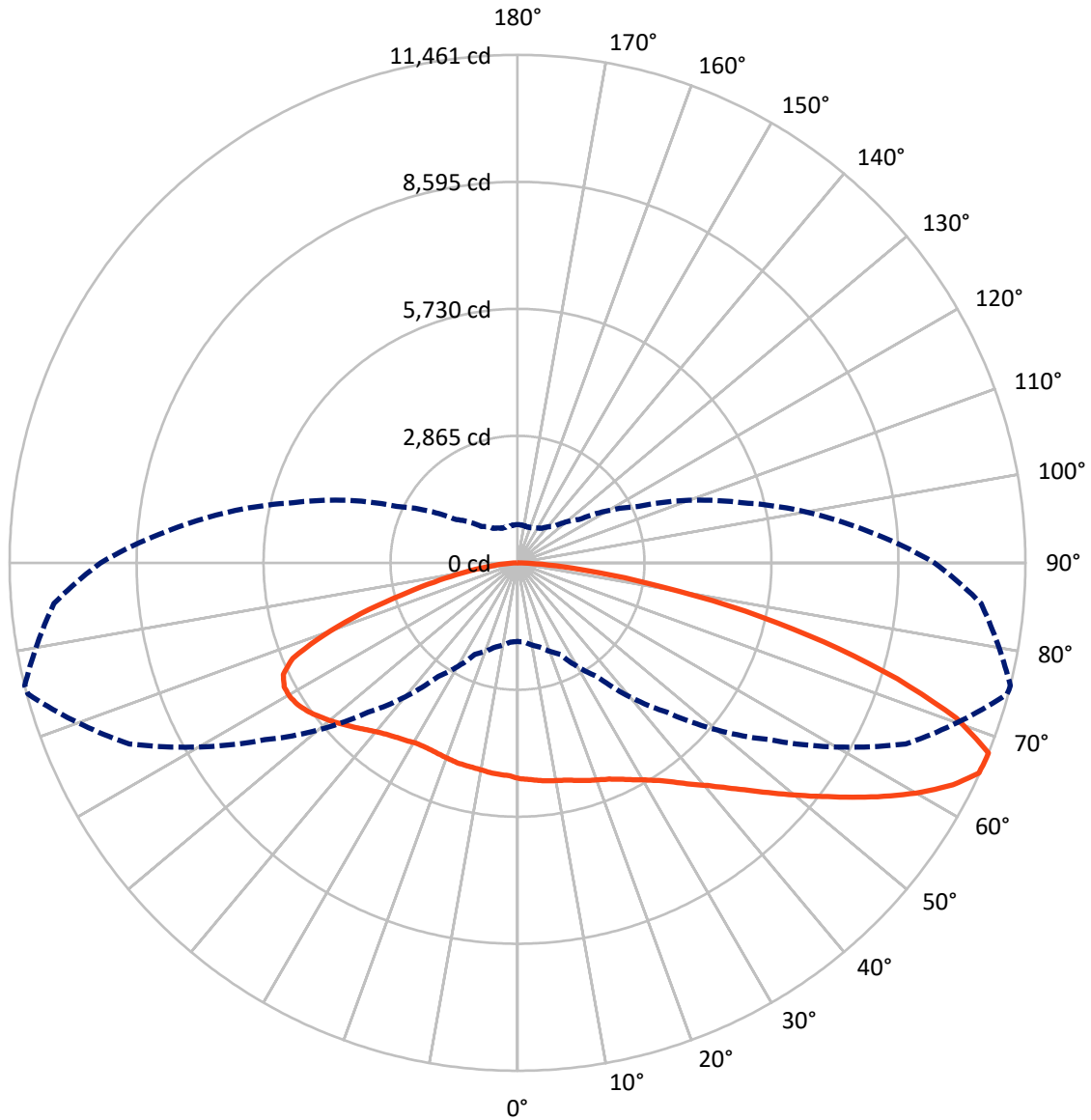
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.8 fc
 Type II - Medium - N/A

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CATALOG NUMBER: ARCH3-180-730-U-T2U

Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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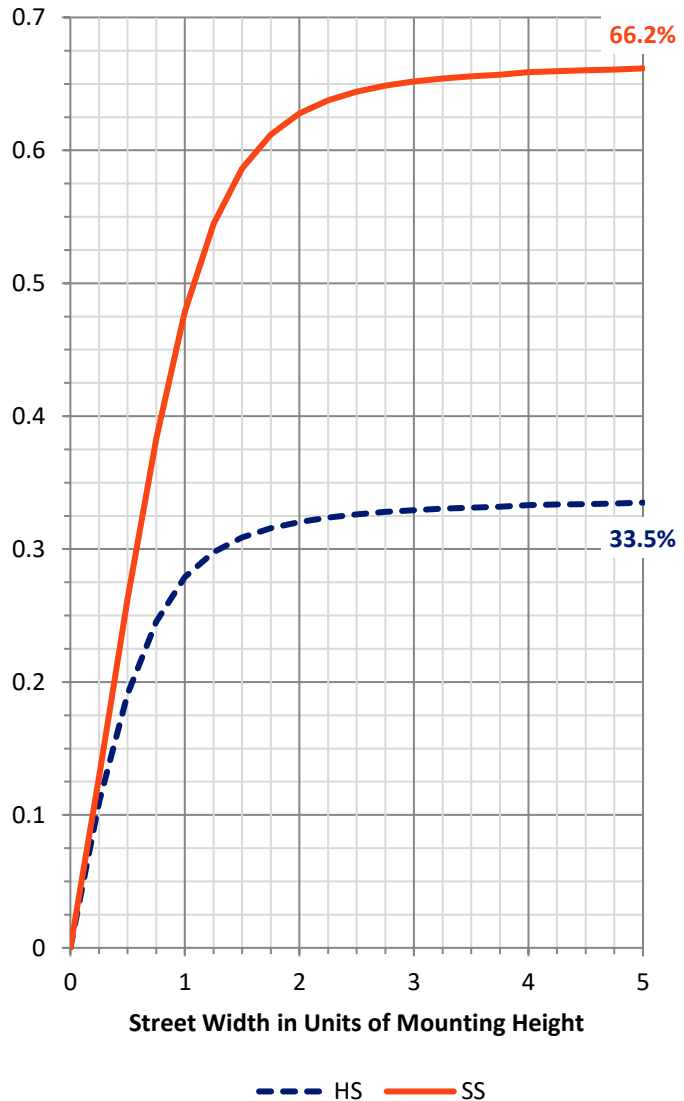
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8147.9	0.0	8147.9
	% Fixture	33.8	0.0	33.8
Street Side	Lumens	15965.1	0.0	15965.1
	% Fixture	66.2	0.0	66.2
Total	Lumens	24113.0	0.0	24113.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	469.7	1.9
10°-20°	1435.9	6.0
20°-30°	2439.6	10.1
30°-40°	3471.3	14.4
40°-50°	4384.1	18.2
50°-60°	4746.6	19.7
60°-70°	4414.8	18.3
70°-80°	2371.2	9.8
80°-90°	379.9	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°	24113.0	100.0
0°-180°	24113.0	100.0

Coefficient of Utilization

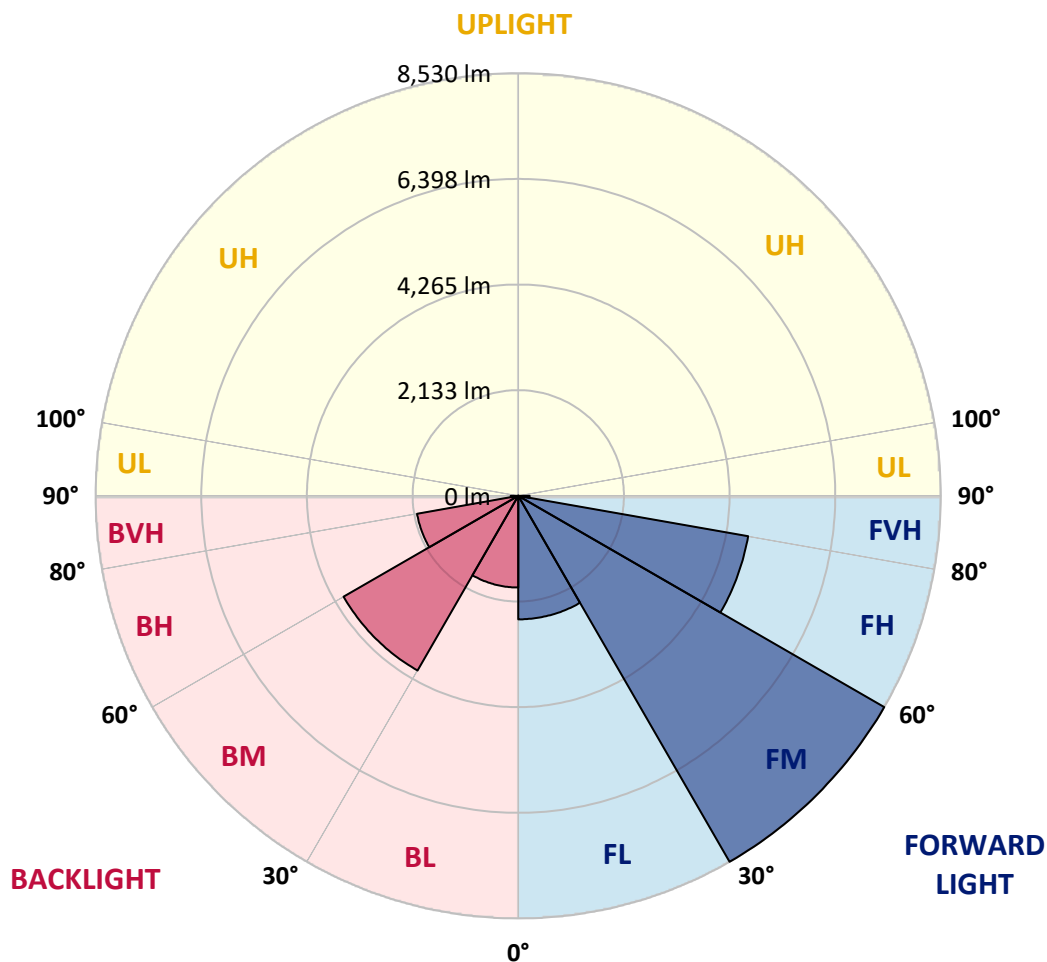


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 CATALOG NUMBER: ARCH3-180-730-U-T2U

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2493.5	10.3			
FM (30°-60°)	8530.3	35.4			
FH (60°-80°)	4711.5	19.5			G2/5000
FVH (80°-90°)	229.8	1.0			G3/500
BL (0°-30°)	1851.6	7.7	B3/2500		
BM (30°-60°)	4071.6	16.9	B3/5000		
BH (60°-80°)	2074.5	8.6	B3/2500		G3/2500
BVH (80°-90°)	150.1	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°	4870.8	4870.8	4870.8	4870.8	4870.8	4870.8	4870.8	4870.8	4870.8	4870.8	4870.8
2.5°	5018.5	5009.6	4973.7	4978.2	4978.2	4973.7	4920.0	4897.6	4897.6	4893.2	4843.9
5°	5197.6	5184.1	5143.9	5134.9	5117.0	5094.6	5009.6	4960.3	4937.9	4933.4	4866.3
7.5°	5408.0	5390.1	5340.8	5314.0	5269.2	5211.0	5103.6	5027.5	4973.7	4969.3	4875.2
10°	5618.4	5600.5	5542.3	5493.0	5430.4	5336.4	5197.6	5085.7	5000.6	4991.6	4879.7
12.5°	5869.1	5851.2	5779.6	5716.9	5622.9	5497.5	5314.0	5161.8	5045.4	5031.9	4893.2
15°	6133.2	6106.4	6034.7	5963.1	5846.7	5685.6	5466.2	5264.7	5117.0	5094.6	4933.4
17.5°	6352.6	6316.8	6258.6	6187.0	6057.1	5869.1	5618.4	5367.7	5184.1	5166.2	4973.7
20°	6540.6	6513.8	6451.1	6383.9	6245.2	6039.2	5761.7	5470.7	5246.8	5224.4	5005.1
22.5°	6719.7	6683.9	6648.1	6598.8	6446.6	6218.3	5927.3	5596.0	5327.4	5300.5	5045.4
25°	6925.6	6885.3	6871.9	6845.0	6666.0	6433.2	6128.8	5752.7	5439.3	5408.0	5117.0
27.5°	7180.8	7136.0	7109.2	7109.2	6894.3	6652.5	6343.6	5936.3	5569.2	5542.3	5206.5
30°	7449.4	7395.7	7355.4	7355.4	7113.7	6871.9	6554.1	6119.8	5716.9	5685.6	5322.9
32.5°	7686.7	7633.0	7588.2	7583.7	7333.0	7091.3	6773.4	6321.3	5896.0	5855.7	5466.2
35°	7870.2	7821.0	7780.7	7789.7	7552.4	7315.1	7019.6	6589.9	6119.8	6075.0	5654.2
37.5°	7982.2	7964.3	7941.9	7973.2	7753.8	7530.0	7274.8	6849.5	6375.0	6334.7	5887.0
40°	8040.4	8026.9	8116.5	8156.8	7924.0	7722.5	7530.0	7118.1	6652.5	6607.8	6155.6
42.5°	8125.4	8237.3	8273.2	8264.2	8049.3	7870.2	7762.8	7409.1	6979.4	6939.1	6477.9
45°	7821.0	7794.1	7991.1	8098.6	8058.3	7964.3	7982.2	7758.3	7359.9	7319.6	6849.5
47.5°	7413.6	7377.8	7489.7	7753.8	7910.5	8000.1	8179.1	8120.9	7798.6	7762.8	7283.8
50°	6554.1	6603.3	7019.6	7373.3	7682.2	7991.1	8344.8	8510.4	8282.1	8246.3	7749.4
52.5°	5600.5	5649.7	6084.0	6898.8	7404.6	7924.0	8465.7	8899.9	8805.9	8765.6	8246.3
55°	4906.6	5014.0	5506.5	6097.4	7010.7	7713.5	8537.3	9298.3	9370.0	9334.2	8788.0
57.5°	4217.2	4297.7	4669.3	5193.1	6473.5	7346.5	8532.8	9669.9	9960.9	9925.1	9338.6
60°	3406.9	3509.8	3805.3	4369.4	5757.2	6907.7	8407.5	9960.9	10529.5	10502.6	9871.4
62.5°	2851.7	2883.1	3093.5	3581.5	4835.0	6352.6	8125.4	10117.6	11044.3	11026.4	10350.4
65°	2296.6	2301.1	2493.6	2901.0	3944.1	5663.2	7646.4	10059.4	11433.8	11442.7	10695.1
67.5°	1772.8	1795.2	1969.8	2278.7	3133.8	4767.8	6961.4	9665.4	11438.3	11460.6	10498.1
70°	1226.6	1244.6	1508.7	1808.6	2422.0	3800.8	6034.7	8622.3	10498.1	10516.0	9410.3
72.5°	864.0	873.0	1155.0	1446.0	1893.7	2865.2	4552.9	7131.6	8949.1	8962.6	7915.0
75°	644.7	653.6	814.8	1096.8	1450.5	1983.2	3111.4	5461.7	7149.5	7149.5	6249.6
77.5°	456.6	461.1	528.3	756.6	967.0	1338.6	1871.3	3577.0	5246.8	5255.8	4552.9
80°	308.9	313.4	344.7	510.4	604.4	725.2	1016.2	1875.8	3308.4	3321.8	2892.0
82.5°	161.2	170.1	192.5	259.7	304.4	402.9	523.8	953.6	1831.0	1866.8	1737.0
85°	62.7	62.7	71.6	85.1	111.9	156.7	241.7	362.6	828.2	855.1	765.5
87.5°	22.4	22.4	26.9	26.9	31.3	35.8	40.3	53.7	94.0	94.0	89.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P836399
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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4870.8	4870.8	4870.8	4870.8	4870.8	4870.8	4870.8	4870.8	4870.8	4870.8	4870.8
2.5°	4826.0	4826.0	4803.6	4812.6	4808.1	4799.1	4790.2	4803.6	4790.2	4758.9	4754.4
5°	4835.0	4826.0	4790.2	4785.7	4772.3	4754.4	4732.0	4740.9	4718.6	4691.7	4687.2
7.5°	4839.4	4821.5	4772.3	4754.4	4727.5	4691.7	4655.9	4655.9	4624.5	4597.7	4593.2
10°	4830.5	4808.1	4740.9	4705.1	4655.9	4602.2	4552.9	4539.5	4503.7	4472.3	4472.3
12.5°	4835.0	4803.6	4718.6	4660.4	4593.2	4526.1	4463.4	4445.5	4414.1	4382.8	4378.3
15°	4861.8	4817.1	4709.6	4633.5	4535.0	4458.9	4391.8	4378.3	4351.5	4329.1	4329.1
17.5°	4888.7	4830.5	4696.2	4588.7	4467.9	4382.8	4320.1	4320.1	4302.2	4288.8	4288.8
20°	4902.1	4835.0	4669.3	4526.1	4387.3	4297.7	4239.5	4248.5	4244.0	4239.5	4239.5
22.5°	4933.4	4843.9	4646.9	4467.9	4302.2	4208.2	4154.5	4167.9	4163.4	4163.4	4167.9
25°	4982.7	4866.3	4629.0	4414.1	4221.6	4118.7	4060.5	4069.4	4069.4	4069.4	4069.4
27.5°	5049.8	4911.1	4624.5	4364.9	4141.1	4024.7	3953.0	3953.0	3935.1	3939.6	3944.1
30°	5152.8	4996.1	4633.5	4320.1	4056.0	3908.3	3823.2	3809.8	3805.3	3814.2	3818.7
32.5°	5278.2	5112.5	4687.2	4288.8	3966.5	3778.4	3671.0	3666.5	3653.1	3653.1	3653.1
35°	5434.9	5224.4	4736.5	4284.3	3876.9	3639.6	3523.3	3509.8	3478.5	3465.1	3465.1
37.5°	5636.3	5399.0	4794.7	4253.0	3800.8	3505.3	3366.6	3321.8	3286.0	3281.5	3281.5
40°	5882.5	5596.0	4879.7	4217.2	3720.2	3366.6	3183.0	3106.9	3111.4	3129.3	3129.3
42.5°	6173.5	5837.8	4987.2	4199.3	3603.8	3223.3	2968.1	2878.6	2909.9	2927.8	2932.3
45°	6513.8	6124.3	5108.0	4176.9	3496.4	3062.1	2739.8	2627.9	2641.3	2645.8	2650.3
47.5°	6907.7	6442.1	5233.4	4159.0	3375.5	2860.7	2489.1	2341.4	2336.9	2310.0	2319.0
50°	7319.6	6777.9	5363.2	4127.6	3227.8	2623.4	2225.0	2050.4	2014.6	1974.3	1978.8
52.5°	7758.3	7122.6	5484.1	4078.4	3044.2	2381.7	1974.3	1786.2	1714.6	1669.9	1678.8
55°	8241.8	7476.3	5600.5	4002.3	2851.7	2139.9	1750.4	1557.9	1468.4	1432.6	1437.1
57.5°	8685.0	7816.5	5685.6	3908.3	2641.3	1920.6	1553.5	1365.4	1307.2	1302.8	1307.2
60°	9114.8	8103.0	5721.4	3778.4	2426.4	1719.1	1369.9	1226.6	1186.4	1208.7	1213.2
62.5°	9477.4	8286.6	5703.5	3603.8	2207.1	1526.6	1222.2	1119.2	1092.3	1137.1	1141.6
65°	9687.8	8344.8	5578.1	3353.1	1969.8	1338.6	1083.4	971.5	958.0	984.9	998.3
67.5°	9410.3	7982.2	5237.9	3008.4	1705.7	1164.0	949.1	859.5	837.2	859.5	859.5
70°	8340.3	6916.7	4432.0	2462.2	1414.7	993.9	823.7	761.1	743.2	761.1	756.6
72.5°	6948.0	5752.7	3491.9	1920.6	1114.7	837.2	716.3	658.1	640.2	622.3	613.3
75°	5390.1	4369.4	2533.9	1410.2	841.6	671.5	599.9	546.2	501.4	519.3	510.4
77.5°	3948.5	3066.6	1795.2	975.9	604.4	519.3	470.1	429.8	398.4	434.3	429.8
80°	2542.8	1983.2	1199.8	653.6	416.3	362.6	344.7	322.3	353.7	461.1	470.1
82.5°	1553.5	1258.0	716.3	425.3	273.1	241.7	223.8	223.8	362.6	398.4	402.9
85°	693.9	667.0	389.5	219.4	152.2	138.8	125.4	161.2	147.7	107.4	111.9
87.5°	111.9	116.4	85.1	76.1	58.2	58.2	44.8	31.3	22.4	13.4	13.4
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)