

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: P841454

Luminaire Tested: **ARCH4-180-730-U-T2U**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P841454
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: ARCH4-180-730-U-T2U
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 1455mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28639 lumens
Efficiency: N/A
Efficacy: 159.1 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

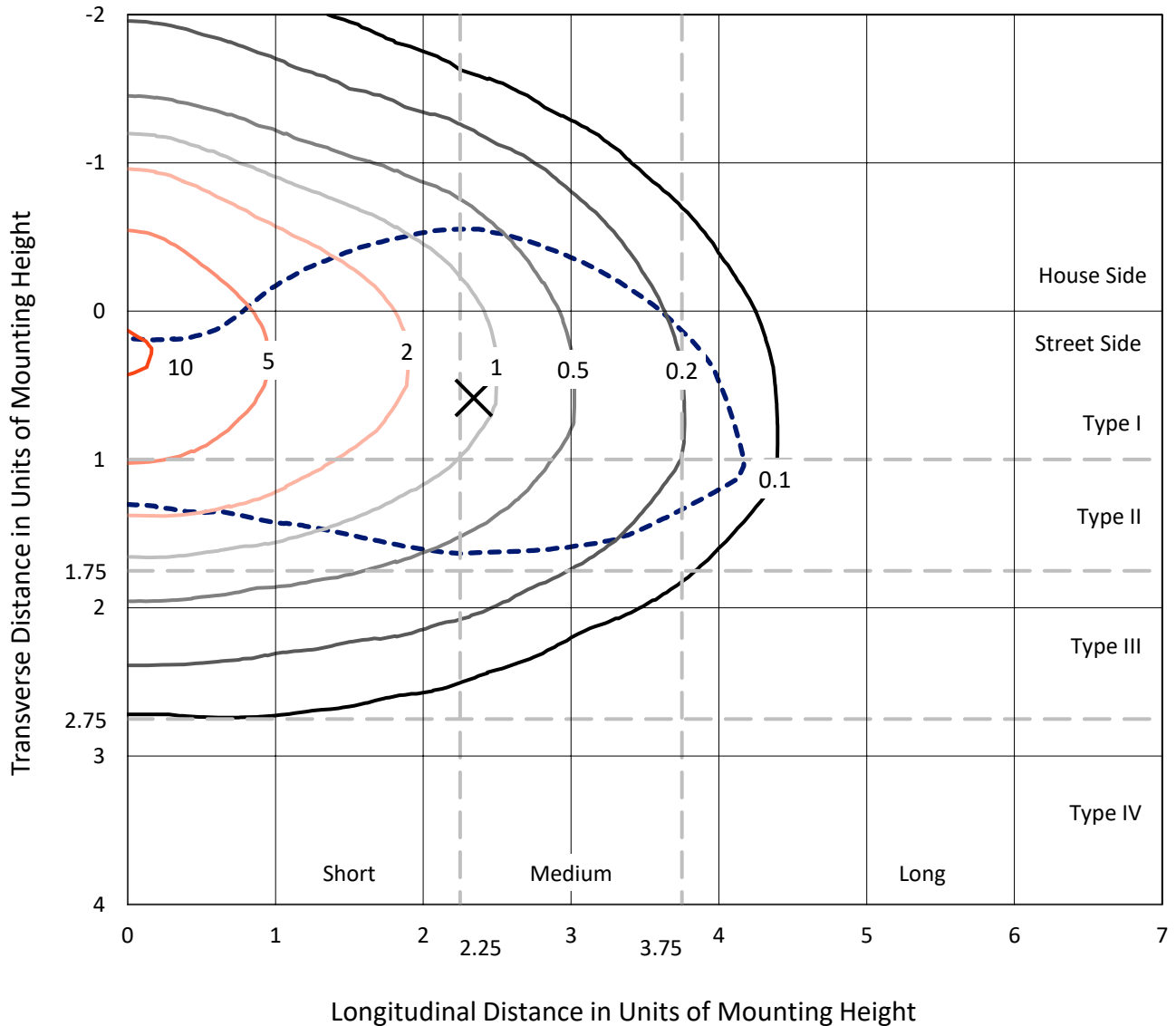
Input Watts (W): 180
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

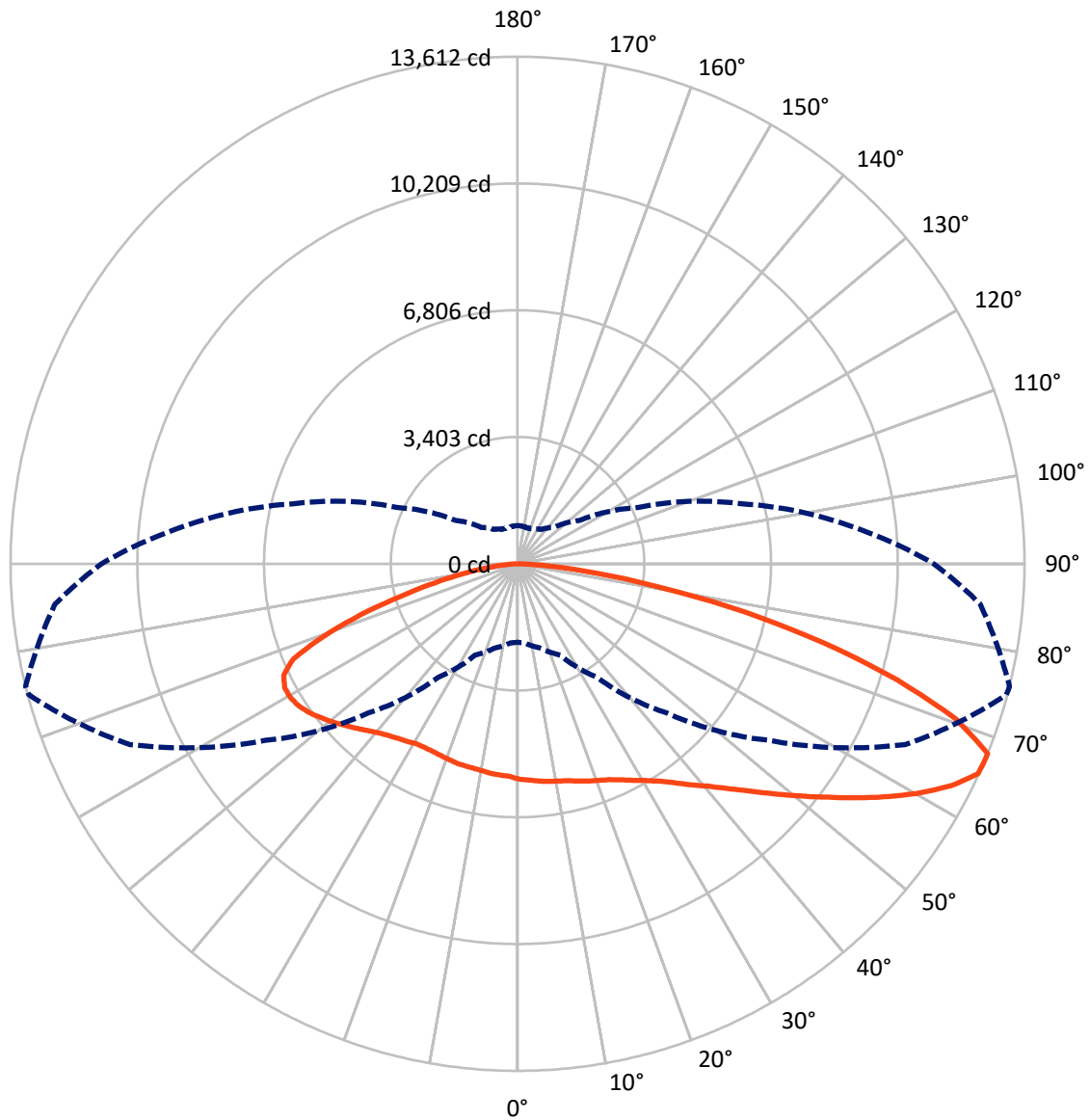
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.5 fc
 Type II - Medium - N/A

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CATALOG NUMBER: ARCH4-180-730-U-T2U

Luminous Intensity Polar Plot



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

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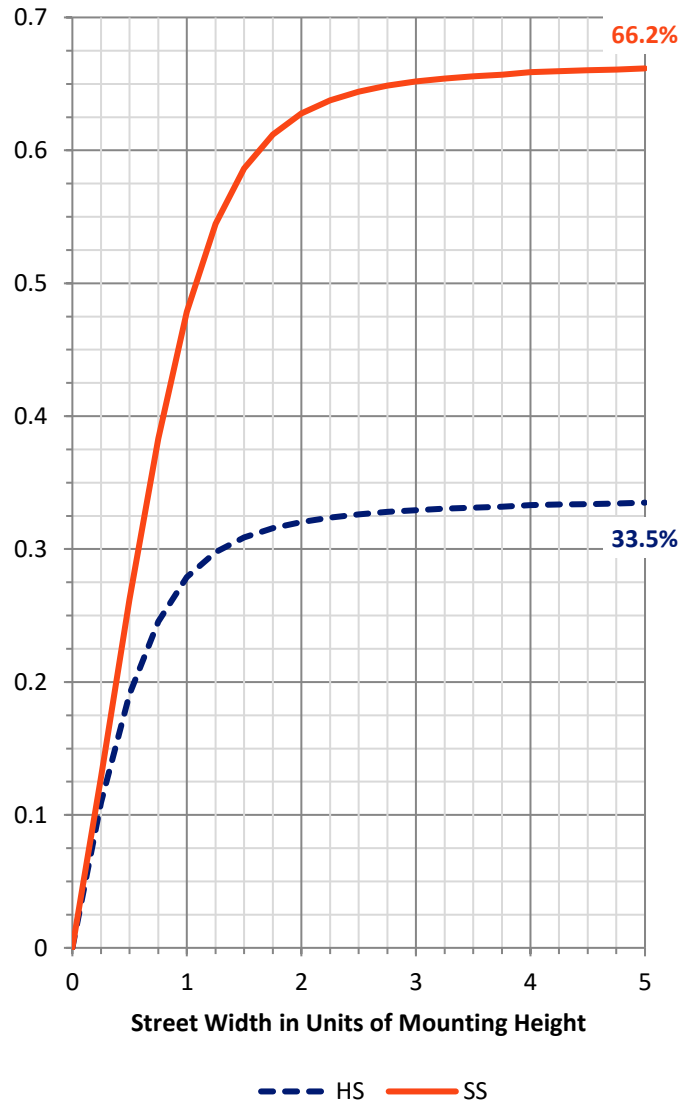
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9677.3	0.0	9677.3
	% Fixture	33.8	0.0	33.8
Street Side	Lumens	18961.7	0.0	18961.7
	% Fixture	66.2	0.0	66.2
Total	Lumens	28639.0	0.0	28639.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	557.8	1.9
10°-20°	1705.4	6.0
20°-30°	2897.5	10.1
30°-40°	4122.8	14.4
40°-50°	5206.9	18.2
50°-60°	5637.5	19.7
60°-70°	5243.5	18.3
70°-80°	2816.2	9.8
80°-90°	451.3	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°	28639.0	100.0
0°-180°	28639.0	100.0

Coefficient of Utilization

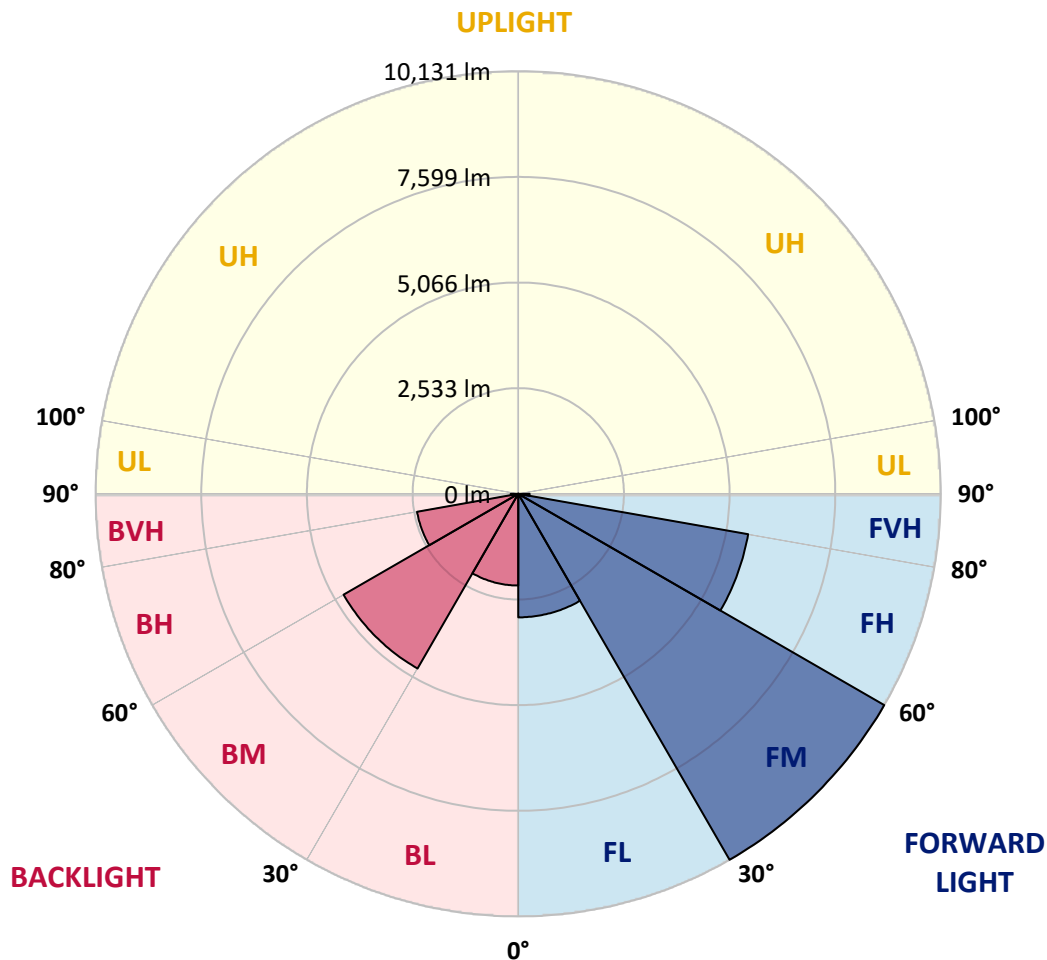


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 CATALOG NUMBER: ARCH4-180-730-U-T2U

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2961.6	10.3			
FM (30°-60°)	10131.4	35.4			
FH (60°-80°)	5595.8	19.5			G3/7500
FVH (80°-90°)	273.0	1.0			G3/500
BL (0°-30°)	2199.2	7.7	B3/2500		
BM (30°-60°)	4835.9	16.9	B3/5000		
BH (60°-80°)	2463.9	8.6	B3/2500		G3/2500
BVH (80°-90°)	178.3	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°	5785.0	5785.0	5785.0	5785.0	5785.0	5785.0	5785.0	5785.0	5785.0	5785.0	5785.0
2.5°	5960.5	5949.8	5907.3	5912.6	5912.6	5907.3	5843.5	5816.9	5816.9	5811.6	5753.1
5°	6173.2	6157.2	6109.4	6098.7	6077.5	6050.9	5949.8	5891.4	5864.8	5859.5	5779.7
7.5°	6423.1	6401.8	6343.3	6311.4	6258.2	6189.1	6061.5	5971.1	5907.3	5902.0	5790.3
10°	6673.0	6651.7	6582.6	6524.1	6449.7	6338.0	6173.2	6040.2	5939.2	5928.6	5795.6
12.5°	6970.7	6949.5	6864.4	6789.9	6678.3	6529.4	6311.4	6130.6	5992.4	5976.4	5811.6
15°	7284.4	7252.5	7167.5	7082.4	6944.1	6752.7	6492.2	6252.9	6077.5	6050.9	5859.5
17.5°	7545.0	7502.4	7433.3	7348.2	7194.0	6970.7	6673.0	6375.2	6157.2	6135.9	5907.3
20°	7768.3	7736.4	7662.0	7582.2	7417.4	7172.8	6843.1	6497.5	6231.7	6205.1	5944.5
22.5°	7981.0	7938.4	7895.9	7837.4	7656.6	7385.5	7039.9	6646.4	6327.4	6295.5	5992.4
25°	8225.6	8177.7	8161.8	8129.9	7917.2	7640.7	7279.1	6832.5	6460.3	6423.1	6077.5
27.5°	8528.6	8475.5	8443.6	8443.6	8188.3	7901.2	7534.3	7050.5	6614.5	6582.6	6183.8
30°	8847.7	8783.9	8736.0	8736.0	8448.9	8161.8	7784.2	7268.5	6789.9	6752.7	6322.0
32.5°	9129.5	9065.7	9012.5	9007.2	8709.4	8422.3	8044.8	7507.8	7002.6	6954.8	6492.2
35°	9347.5	9289.0	9241.1	9251.8	8970.0	8688.2	8337.2	7826.8	7268.5	7215.3	6715.5
37.5°	9480.4	9459.1	9432.6	9469.8	9209.2	8943.4	8640.3	8135.2	7571.6	7523.7	6992.0
40°	9549.5	9533.6	9639.9	9687.8	9411.3	9172.0	8943.4	8454.2	7901.2	7848.1	7311.0
42.5°	9650.6	9783.5	9826.0	9815.4	9560.2	9347.5	9219.9	8799.8	8289.4	8241.5	7693.9
45°	9289.0	9257.1	9491.0	9618.7	9570.8	9459.1	9480.4	9214.6	8741.3	8693.5	8135.2
47.5°	8805.1	8762.6	8895.5	9209.2	9395.3	9501.7	9714.4	9645.2	9262.4	9219.9	8650.9
50°	7784.2	7842.7	8337.2	8757.3	9124.2	9491.0	9911.1	10107.8	9836.7	9794.1	9203.9
52.5°	6651.7	6710.2	7226.0	8193.7	8794.5	9411.3	10054.7	10570.4	10458.8	10410.9	9794.1
55°	5827.6	5955.2	6540.0	7241.9	8326.6	9161.4	10139.7	11043.6	11128.7	11086.2	10437.5
57.5°	5008.7	5104.4	5545.7	6167.8	7688.5	8725.4	10134.4	11485.0	11830.6	11788.0	11091.5
60°	4046.3	4168.6	4519.5	5189.5	6837.8	8204.3	9985.5	11830.6	12505.8	12473.9	11724.2
62.5°	3387.0	3424.2	3674.1	4253.7	5742.5	7545.0	9650.6	12016.7	13117.3	13096.0	12293.2
65°	2727.7	2733.0	2961.6	3445.5	4684.4	6726.1	9081.6	11947.5	13579.9	13590.5	12702.6
67.5°	2105.6	2132.2	2339.5	2706.4	3722.0	5662.7	8268.1	11479.6	13585.2	13611.8	12468.6
70°	1456.9	1478.2	1791.9	2148.1	2876.6	4514.2	7167.5	10240.8	12468.6	12489.9	11176.6
72.5°	1026.2	1036.8	1371.8	1717.4	2249.1	3402.9	5407.5	8470.2	10628.9	10644.9	9400.6
75°	765.7	776.3	967.7	1302.7	1722.7	2355.5	3695.4	6486.9	8491.4	8491.4	7422.7
77.5°	542.3	547.7	627.4	898.6	1148.5	1589.8	2222.6	4248.4	6231.7	6242.3	5407.5
80°	366.9	372.2	409.4	606.2	717.8	861.4	1207.0	2227.9	3929.3	3945.3	3434.9
82.5°	191.4	202.1	228.6	308.4	361.6	478.5	622.1	1132.5	2174.7	2217.2	2063.0
85°	74.4	74.4	85.1	101.0	132.9	186.1	287.1	430.7	983.7	1015.6	909.2
87.5°	26.6	26.6	31.9	31.9	37.2	42.5	47.9	63.8	111.7	111.7	106.3
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: P841454
 CATALOG NUMBER: ARCH4-180-730-U-T2U

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5785.0	5785.0	5785.0	5785.0	5785.0	5785.0	5785.0	5785.0	5785.0	5785.0	5785.0
2.5°	5731.8	5731.8	5705.3	5715.9	5710.6	5699.9	5689.3	5705.3	5689.3	5652.1	5646.8
5°	5742.5	5731.8	5689.3	5684.0	5668.0	5646.8	5620.2	5630.8	5604.2	5572.3	5567.0
7.5°	5747.8	5726.5	5668.0	5646.8	5614.9	5572.3	5529.8	5529.8	5492.6	5460.7	5455.4
10°	5737.2	5710.6	5630.8	5588.3	5529.8	5466.0	5407.5	5391.5	5349.0	5311.8	5311.8
12.5°	5742.5	5705.3	5604.2	5535.1	5455.4	5375.6	5301.2	5279.9	5242.7	5205.4	5200.1
15°	5774.4	5721.2	5593.6	5503.2	5386.2	5295.8	5216.1	5200.1	5168.2	5141.6	5141.6
17.5°	5806.3	5737.2	5577.6	5450.0	5306.5	5205.4	5131.0	5131.0	5109.7	5093.8	5093.8
20°	5822.2	5742.5	5545.7	5375.6	5210.8	5104.4	5035.3	5045.9	5040.6	5035.3	5035.3
22.5°	5859.5	5753.1	5519.2	5306.5	5109.7	4998.1	4934.3	4950.2	4944.9	4944.9	4950.2
25°	5917.9	5779.7	5497.9	5242.7	5014.0	4891.7	4822.6	4833.3	4833.3	4833.3	4833.3
27.5°	5997.7	5832.9	5492.6	5184.2	4918.3	4780.1	4695.0	4695.0	4673.7	4679.1	4684.4
30°	6120.0	5933.9	5503.2	5131.0	4817.3	4641.8	4540.8	4524.9	4519.5	4530.2	4535.5
32.5°	6268.9	6072.1	5567.0	5093.8	4711.0	4487.6	4360.0	4354.7	4338.8	4338.8	4338.8
35°	6455.0	6205.1	5625.5	5088.5	4604.6	4322.8	4184.6	4168.6	4131.4	4115.4	4115.4
37.5°	6694.2	6412.4	5694.6	5051.3	4514.2	4163.3	3998.5	3945.3	3902.8	3897.4	3897.4
40°	6986.7	6646.4	5795.6	5008.7	4418.5	3998.5	3780.5	3690.1	3695.4	3716.7	3716.7
42.5°	7332.3	6933.5	5923.3	4987.4	4280.3	3828.3	3525.2	3418.9	3456.1	3477.4	3482.7
45°	7736.4	7273.8	6066.8	4960.9	4152.7	3636.9	3254.1	3121.1	3137.1	3142.4	3147.7
47.5°	8204.3	7651.3	6215.7	4939.6	4009.1	3397.6	2956.3	2780.8	2775.5	2743.6	2754.3
50°	8693.5	8050.1	6369.9	4902.4	3833.6	3115.8	2642.6	2435.2	2392.7	2344.8	2350.2
52.5°	9214.6	8459.5	6513.5	4843.9	3615.6	2828.7	2344.8	2121.5	2036.5	1983.3	1993.9
55°	9788.8	8879.6	6651.7	4753.5	3387.0	2541.6	2079.0	1850.4	1744.0	1701.5	1706.8
57.5°	10315.2	9283.7	6752.7	4641.8	3137.1	2281.0	1845.0	1621.7	1552.6	1547.3	1552.6
60°	10825.6	9624.0	6795.3	4487.6	2881.9	2041.8	1627.0	1456.9	1409.0	1435.6	1440.9
62.5°	11256.3	9842.0	6774.0	4280.3	2621.3	1813.1	1451.6	1329.3	1297.4	1350.5	1355.9
65°	11506.2	9911.1	6625.1	3982.5	2339.5	1589.8	1286.7	1153.8	1137.9	1169.8	1185.7
67.5°	11176.6	9480.4	6221.0	3573.1	2025.8	1382.4	1127.2	1020.9	994.3	1020.9	1020.9
70°	9905.8	8214.9	5263.9	2924.4	1680.2	1180.4	978.3	903.9	882.6	903.9	898.6
72.5°	8252.2	6832.5	4147.3	2281.0	1324.0	994.3	850.7	781.6	760.3	739.1	728.4
75°	6401.8	5189.5	3009.5	1674.9	999.6	797.6	712.5	648.7	595.5	616.8	606.2
77.5°	4689.7	3642.2	2132.2	1159.1	717.8	616.8	558.3	510.4	473.2	515.8	510.4
80°	3020.1	2355.5	1425.0	776.3	494.5	430.7	409.4	382.8	420.1	547.7	558.3
82.5°	1845.0	1494.1	850.7	505.1	324.3	287.1	265.9	265.9	430.7	473.2	478.5
85°	824.2	792.2	462.6	260.5	180.8	164.8	148.9	191.4	175.5	127.6	132.9
87.5°	132.9	138.2	101.0	90.4	69.1	69.1	53.2	37.2	26.6	16.0	16.0
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)