

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: P842021

Luminaire Tested: **ARCH4-260-727-U-T2U**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P842021
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: ARCH4-260-727-U-T2U
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 1010mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 36613 lumens
Efficiency: N/A
Efficacy: 141.3 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B4 - U0 - G4

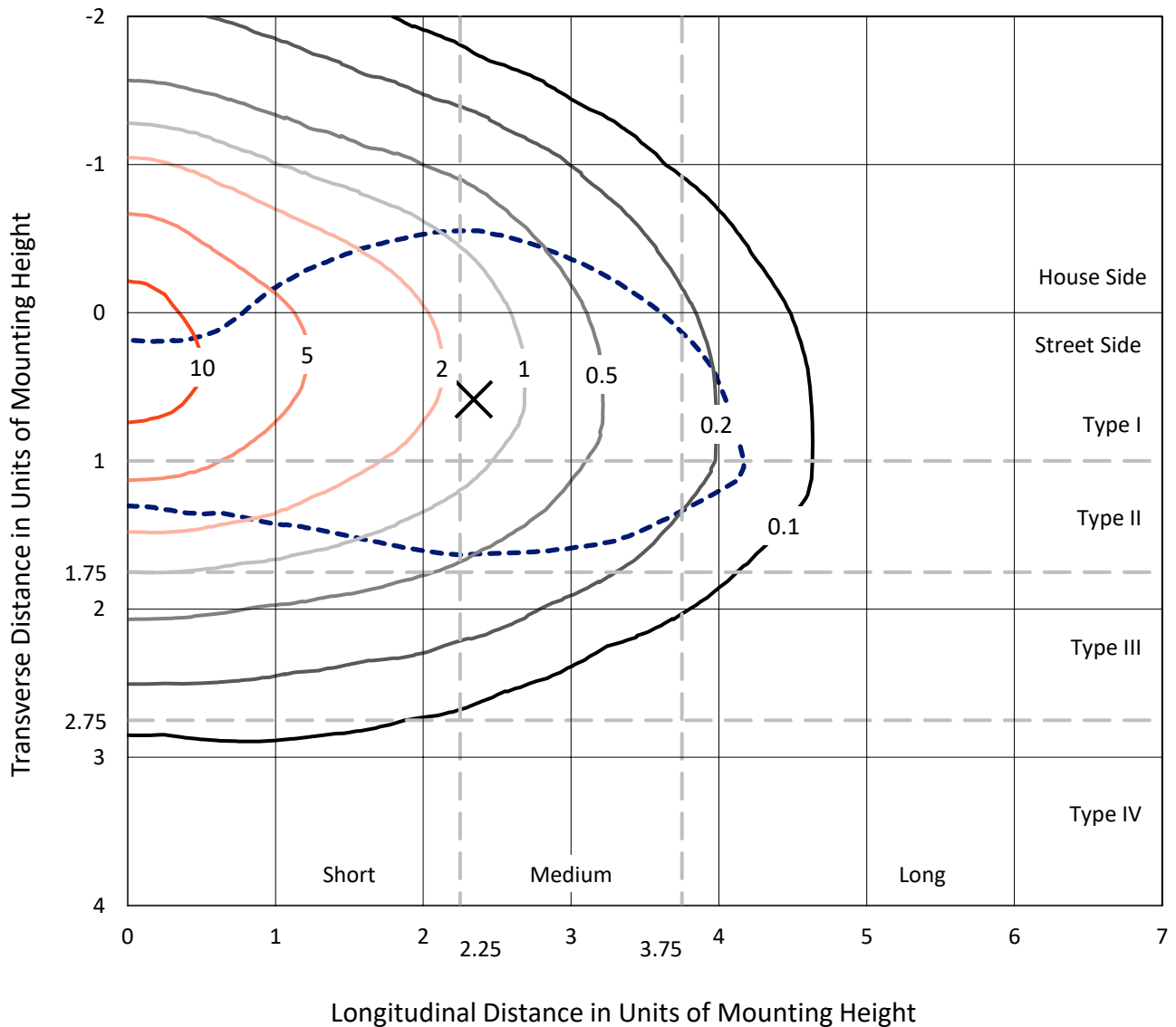
Input Watts (W): 259.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

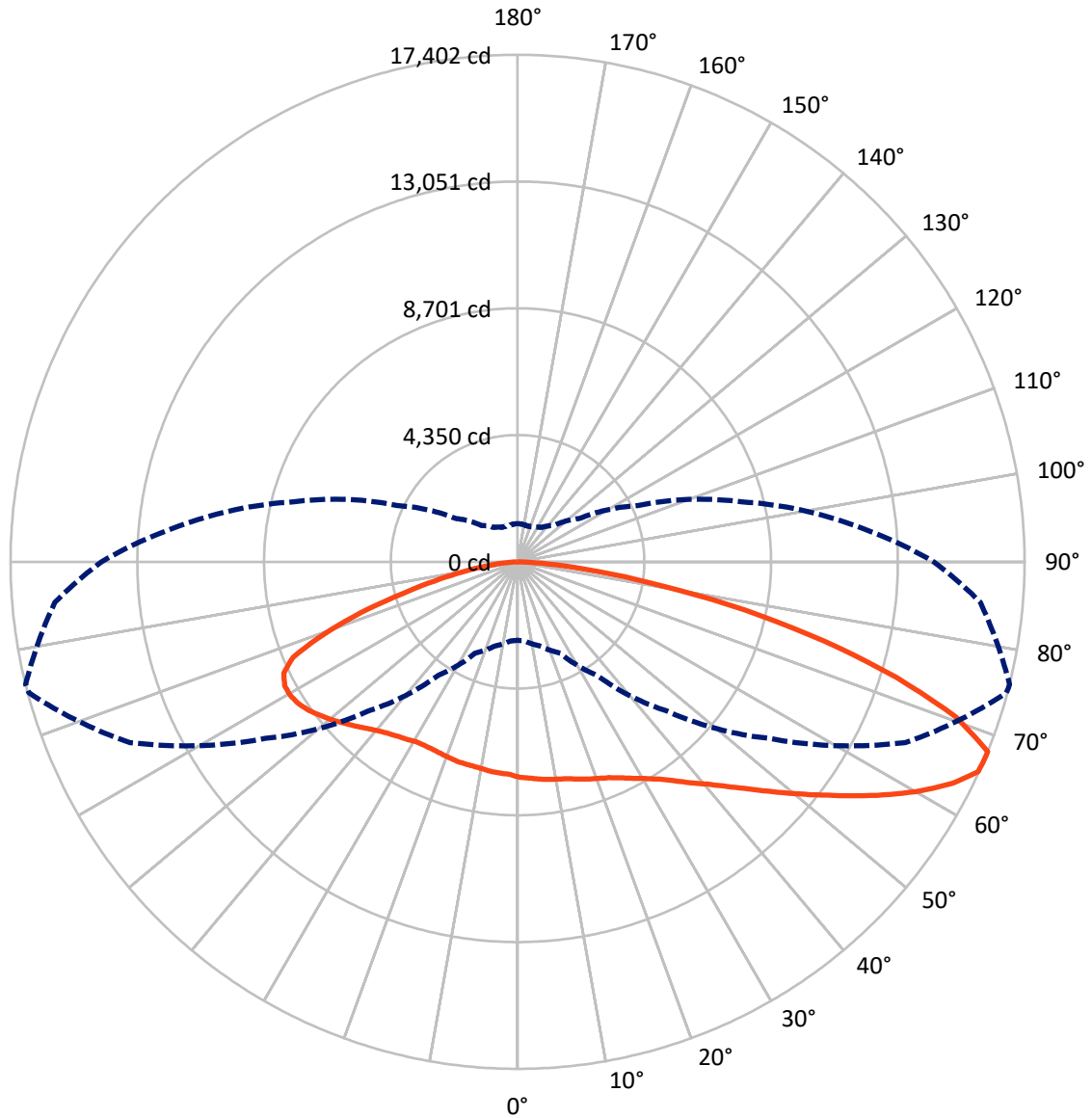
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.4 fc
 Type II - Medium - N/A

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CATALOG NUMBER: ARCH4-260-727-U-T2U

Luminous Intensity Polar Plot



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

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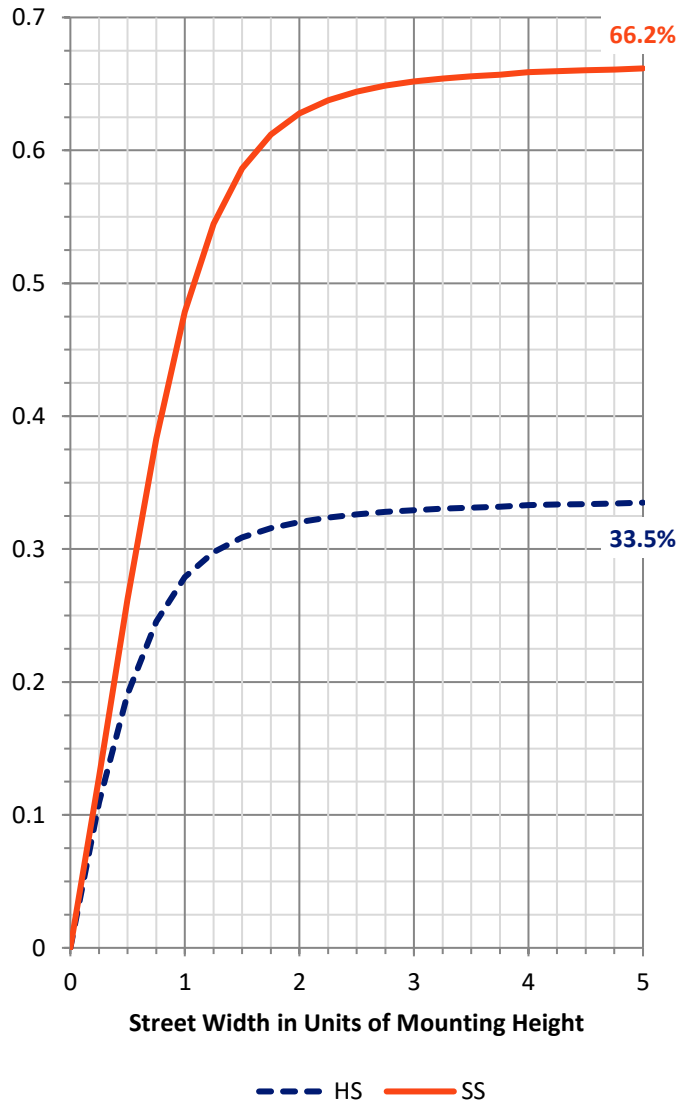
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12371.7	0.0	12371.7
	% Fixture	33.8	0.0	33.8
Street Side	Lumens	24241.3	0.0	24241.3
	% Fixture	66.2	0.0	66.2
Total	Lumens	36613.0	0.0	36613.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	713.1	1.9
10°-20°	2180.2	6.0
20°-30°	3704.3	10.1
30°-40°	5270.7	14.4
40°-50°	6656.7	18.2
50°-60°	7207.2	19.7
60°-70°	6703.5	18.3
70°-80°	3600.3	9.8
80°-90°	576.9	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°	36613.0	100.0
0°-180°	36613.0	100.0

Coefficient of Utilization

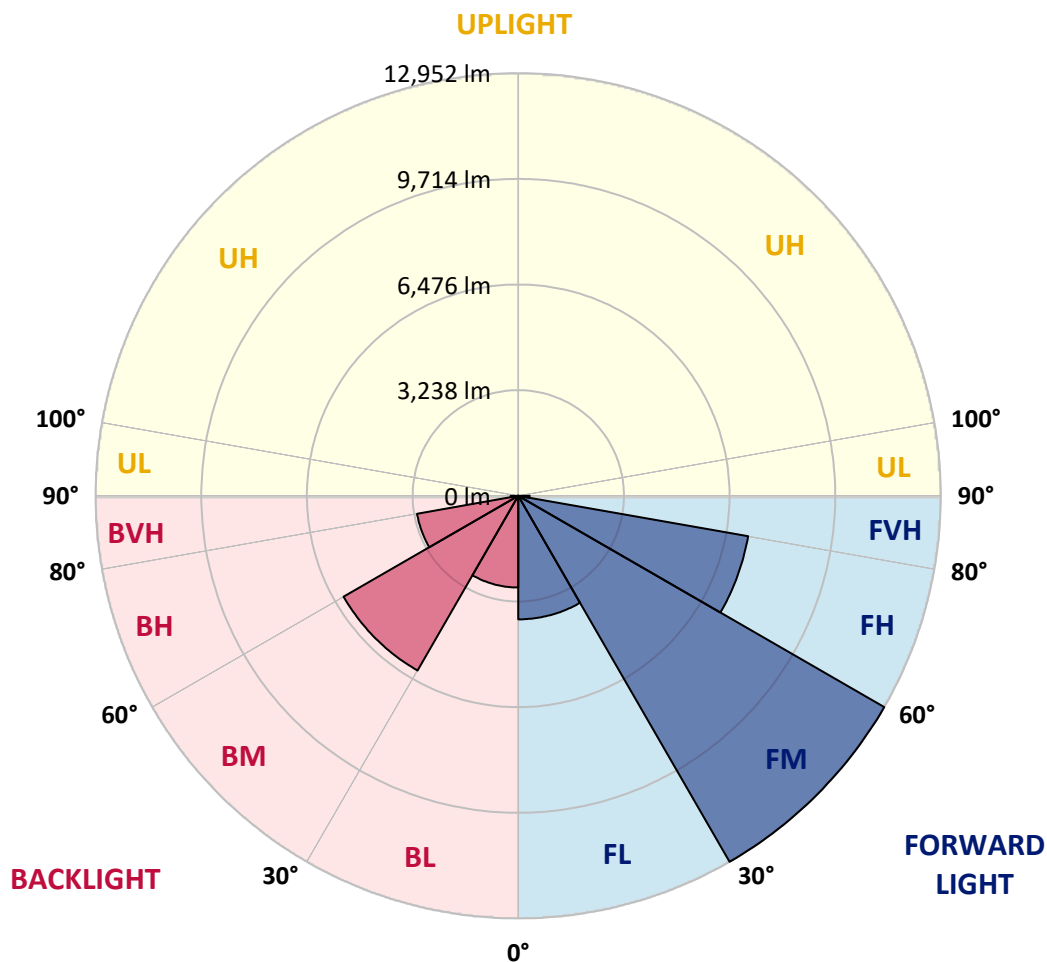


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3786.2	10.3			
FM (30°-60°)	12952.3	35.4			
FH (60°-80°)	7153.8	19.5			G3/7500
FVH (80°-90°)	349.0	1.0			G3/500
BL (0°-30°)	2811.5	7.7	B4/5000		
BM (30°-60°)	6182.3	16.9	B4/8500		
BH (60°-80°)	3150.0	8.6	B4/5000		G4/5000
BVH (80°-90°)	227.9	0.6			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4
 Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	7395.7	7395.7	7395.7	7395.7	7395.7	7395.7	7395.7	7395.7	7395.7	7395.7	7395.7
2.5°	7620.1	7606.5	7552.1	7558.9	7558.9	7552.1	7470.5	7436.5	7436.5	7429.7	7355.0
5°	7892.0	7871.6	7810.4	7796.8	7769.6	7735.6	7606.5	7531.7	7497.7	7490.9	7388.9
7.5°	8211.5	8184.3	8109.5	8068.7	8000.7	7912.4	7749.2	7633.7	7552.1	7545.3	7402.5
10°	8530.9	8503.7	8415.4	8340.6	8245.4	8102.7	7892.0	7722.0	7592.9	7579.3	7409.3
12.5°	8911.6	8884.4	8775.6	8680.5	8537.7	8347.4	8068.7	7837.6	7660.8	7640.5	7429.7
15°	9312.7	9271.9	9163.1	9054.3	8877.6	8632.9	8299.8	7993.9	7769.6	7735.6	7490.9
17.5°	9645.7	9591.4	9503.0	9394.2	9197.1	8911.6	8530.9	8150.3	7871.6	7844.4	7552.1
20°	9931.2	9890.4	9795.3	9693.3	9482.6	9169.9	8748.5	8306.6	7966.7	7932.8	7599.7
22.5°	10203.1	10148.8	10094.4	10019.6	9788.5	9441.8	9000.0	8496.9	8089.1	8048.3	7660.8
25°	10515.8	10454.6	10434.3	10393.5	10121.6	9768.1	9305.9	8734.9	8259.0	8211.5	7769.6
27.5°	10903.3	10835.3	10794.5	10794.5	10468.2	10101.2	9632.1	9013.6	8456.2	8415.4	7905.6
30°	11311.1	11229.6	11168.4	11168.4	10801.3	10434.3	9951.6	9292.3	8680.5	8632.9	8082.3
32.5°	11671.4	11589.8	11521.9	11515.1	11134.4	10767.3	10284.7	9598.2	8952.4	8891.2	8299.8
35°	11950.1	11875.3	11814.2	11827.8	11467.5	11107.2	10658.6	10006.0	9292.3	9224.3	8585.3
37.5°	12120.0	12092.9	12058.9	12106.5	11773.4	11433.5	11046.0	10400.3	9679.7	9618.5	8938.8
40°	12208.4	12188.0	12324.0	12385.2	12031.7	11725.8	11433.5	10808.1	10101.2	10033.2	9346.6
42.5°	12337.6	12507.5	12561.9	12548.3	12222.0	11950.1	11787.0	11250.0	10597.4	10536.2	9836.1
45°	11875.3	11834.6	12133.6	12296.8	12235.6	12092.9	12120.0	11780.2	11175.2	11114.0	10400.3
47.5°	11256.8	11202.4	11372.3	11773.4	12011.3	12147.2	12419.1	12330.8	11841.3	11787.0	11059.6
50°	9951.6	10026.4	10658.6	11195.6	11664.6	12133.6	12670.7	12922.2	12575.5	12521.1	11766.6
52.5°	8503.7	8578.5	9237.9	10475.0	11243.2	12031.7	12854.2	13513.5	13370.8	13309.6	12521.1
55°	7450.1	7613.3	8361.0	9258.3	10645.0	11712.2	12962.9	14118.5	14227.3	14172.9	13343.6
57.5°	6403.3	6525.7	7089.9	7885.2	9829.3	11154.8	12956.1	14682.7	15124.6	15070.2	14179.7
60°	5172.9	5329.3	5777.9	6634.4	8741.7	10488.6	12765.8	15124.6	15987.9	15947.1	14988.6
62.5°	4330.0	4377.6	4697.1	5438.0	7341.4	9645.7	12337.6	15362.5	16769.6	16742.4	15716.0
65°	3487.1	3493.9	3786.2	4404.8	5988.7	8598.9	11610.2	15274.1	17361.0	17374.6	16239.4
67.5°	2691.8	2725.8	2990.9	3460.0	4758.3	7239.4	10570.2	14675.9	17367.8	17401.8	15940.3
70°	1862.5	1889.7	2290.8	2746.2	3677.5	5771.1	9163.1	13092.1	15940.3	15967.5	14288.5
72.5°	1311.9	1325.5	1753.8	2195.6	2875.4	4350.4	6913.1	10828.5	13588.3	13608.7	12018.1
75°	978.8	992.4	1237.2	1665.4	2202.4	3011.3	4724.3	8293.0	10855.7	10855.7	9489.4
77.5°	693.4	700.1	802.1	1148.8	1468.3	2032.5	2841.4	5431.3	7966.7	7980.3	6913.1
80°	469.0	475.8	523.4	774.9	917.7	1101.2	1543.0	2848.2	5023.4	5043.8	4391.2
82.5°	244.7	258.3	292.3	394.3	462.2	611.8	795.3	1447.9	2780.2	2834.6	2637.5
85°	95.2	95.2	108.8	129.2	169.9	237.9	367.1	550.6	1257.5	1298.3	1162.4
87.5°	34.0	34.0	40.8	40.8	47.6	54.4	61.2	81.6	142.7	142.7	136.0
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: P842021
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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	7395.7	7395.7	7395.7	7395.7	7395.7	7395.7	7395.7	7395.7	7395.7	7395.7	7395.7
2.5°	7327.8	7327.8	7293.8	7307.4	7300.6	7287.0	7273.4	7293.8	7273.4	7225.8	7219.0
5°	7341.4	7327.8	7273.4	7266.6	7246.2	7219.0	7185.0	7198.6	7164.6	7123.8	7117.0
7.5°	7348.2	7321.0	7246.2	7219.0	7178.2	7123.8	7069.5	7069.5	7021.9	6981.1	6974.3
10°	7334.6	7300.6	7198.6	7144.2	7069.5	6987.9	6913.1	6892.7	6838.3	6790.8	6790.8
12.5°	7341.4	7293.8	7164.6	7076.3	6974.3	6872.3	6777.2	6750.0	6702.4	6654.8	6648.0
15°	7382.2	7314.2	7151.0	7035.5	6885.9	6770.4	6668.4	6648.0	6607.2	6573.2	6573.2
17.5°	7422.9	7334.6	7130.6	6967.5	6784.0	6654.8	6559.6	6559.6	6532.5	6512.1	6512.1
20°	7443.3	7341.4	7089.9	6872.3	6661.6	6525.7	6437.3	6450.9	6444.1	6437.3	6437.3
22.5°	7490.9	7355.0	7055.9	6784.0	6532.5	6389.7	6308.1	6328.5	6321.7	6321.7	6328.5
25°	7565.7	7388.9	7028.7	6702.4	6410.1	6253.8	6165.4	6179.0	6179.0	6179.0	6179.0
27.5°	7667.6	7456.9	7021.9	6627.6	6287.7	6111.0	6002.2	6002.2	5975.1	5981.9	5988.7
30°	7824.0	7586.1	7035.5	6559.6	6158.6	5934.3	5805.1	5784.7	5777.9	5791.5	5798.3
32.5°	8014.3	7762.8	7117.0	6512.1	6022.6	5737.1	5574.0	5567.2	5546.8	5546.8	5546.8
35°	8252.2	7932.8	7191.8	6505.3	5886.7	5526.4	5349.7	5329.3	5281.7	5261.3	5261.3
37.5°	8558.1	8197.9	7280.2	6457.7	5771.1	5322.5	5111.8	5043.8	4989.4	4982.6	4982.6
40°	8932.0	8496.9	7409.3	6403.3	5648.8	5111.8	4833.1	4717.5	4724.3	4751.5	4751.5
42.5°	9373.8	8864.0	7572.5	6376.1	5472.0	4894.2	4506.8	4370.8	4418.4	4445.6	4452.4
45°	9890.4	9299.1	7756.0	6342.1	5308.9	4649.5	4160.1	3990.2	4010.6	4017.4	4024.2
47.5°	10488.6	9781.7	7946.3	6314.9	5125.4	4343.6	3779.4	3555.1	3548.3	3507.5	3521.1
50°	11114.0	10291.5	8143.5	6267.4	4901.0	3983.4	3378.4	3113.3	3058.9	2997.7	3004.5
52.5°	11780.2	10814.9	8327.0	6192.6	4622.3	3616.3	2997.7	2712.2	2603.5	2535.5	2549.1
55°	12514.3	11351.9	8503.7	6077.0	4330.0	3249.2	2657.8	2365.6	2229.6	2175.2	2182.0
57.5°	13187.3	11868.5	8632.9	5934.3	4010.6	2916.2	2358.8	2073.3	1984.9	1978.1	1984.9
60°	13839.8	12303.6	8687.3	5737.1	3684.3	2610.3	2080.1	1862.5	1801.4	1835.3	1842.1
62.5°	14390.4	12582.3	8660.1	5472.0	3351.2	2318.0	1855.7	1699.4	1658.6	1726.6	1733.4
65°	14709.9	12670.7	8469.8	5091.4	2990.9	2032.5	1645.0	1475.1	1454.7	1495.5	1515.9
67.5°	14288.5	12120.0	7953.1	4568.0	2589.9	1767.4	1441.1	1305.1	1271.1	1305.1	1305.1
70°	12663.9	10502.2	6729.6	3738.7	2148.0	1509.1	1250.8	1155.6	1128.4	1155.6	1148.8
72.5°	10549.8	8734.9	5302.1	2916.2	1692.6	1271.1	1087.6	999.2	972.1	944.9	931.3
75°	8184.3	6634.4	3847.4	2141.2	1277.9	1019.6	910.9	829.3	761.3	788.5	774.9
77.5°	5995.4	4656.3	2725.8	1481.9	917.7	788.5	713.7	652.6	605.0	659.4	652.6
80°	3861.0	3011.3	1821.7	992.4	632.2	550.6	523.4	489.4	537.0	700.1	713.7
82.5°	2358.8	1910.1	1087.6	645.8	414.7	367.1	339.9	339.9	550.6	605.0	611.8
85°	1053.6	1012.8	591.4	333.1	231.1	210.7	190.3	244.7	224.3	163.1	169.9
87.5°	169.9	176.7	129.2	115.6	88.4	88.4	68.0	47.6	34.0	20.4	20.4
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)