

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: P237117

Luminaire Tested: **ARCH-L-AF72-240-D-U-T3-7050**

Issue Date: 2/14/2018

Test Information

Test Method: LM-79-08
Report Number: P237117
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29465)
Test Lab: INNOVATION CENTER-P2
Issue Date: 2/14/2018
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-L-AF72-240-D-U-T3-7050
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 5000K, 1030mA LIGHT ENGINES WITH 24 LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27606 lumens
Efficiency: N/A
Efficacy: 114.1 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

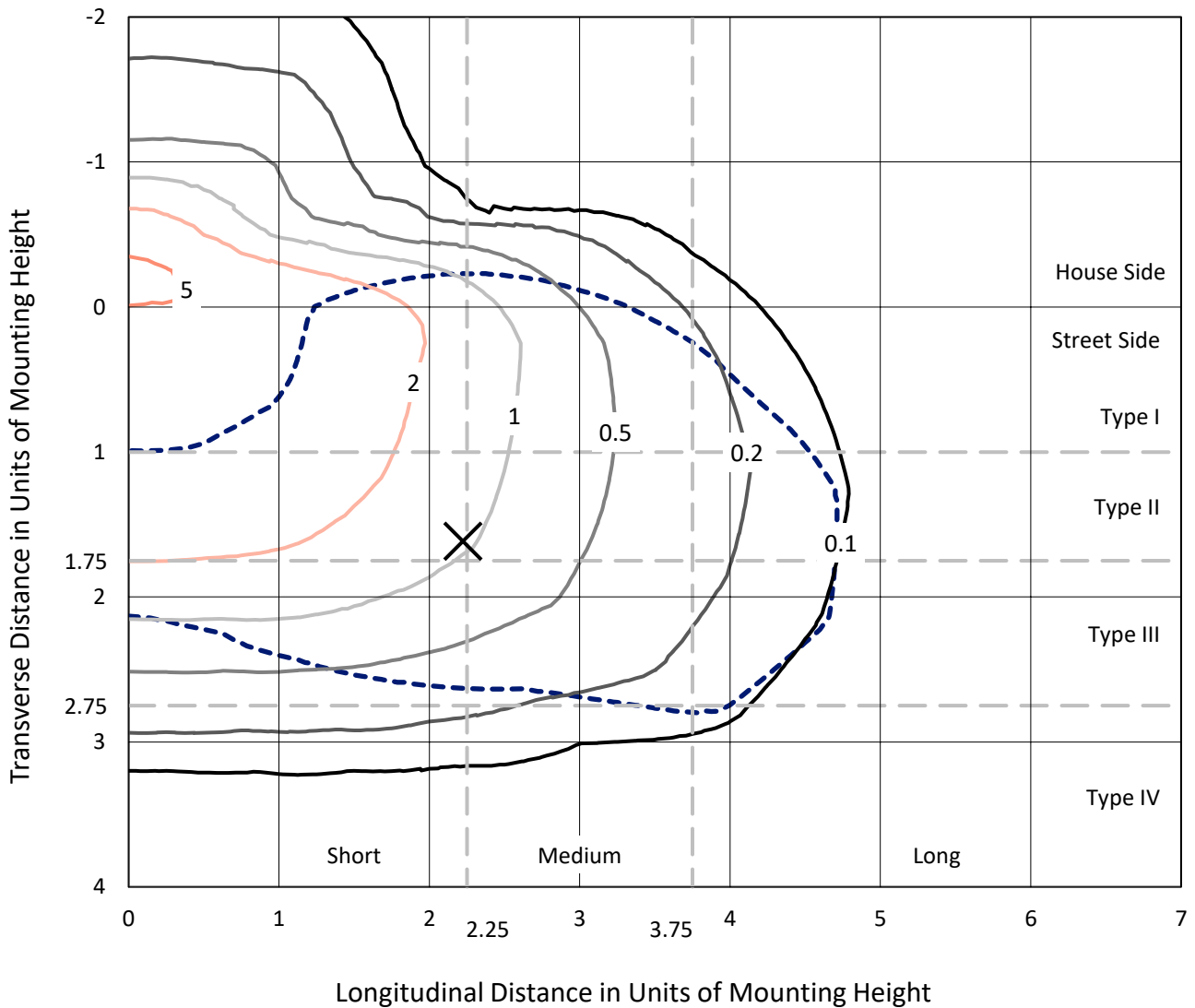
Input Watts (W): 242
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P237117
 CATALOG NUMBER: ARCH-L-AF72-240-D-U-T3-7050

Iso-Footcandle Lines of Horizontal Illumination

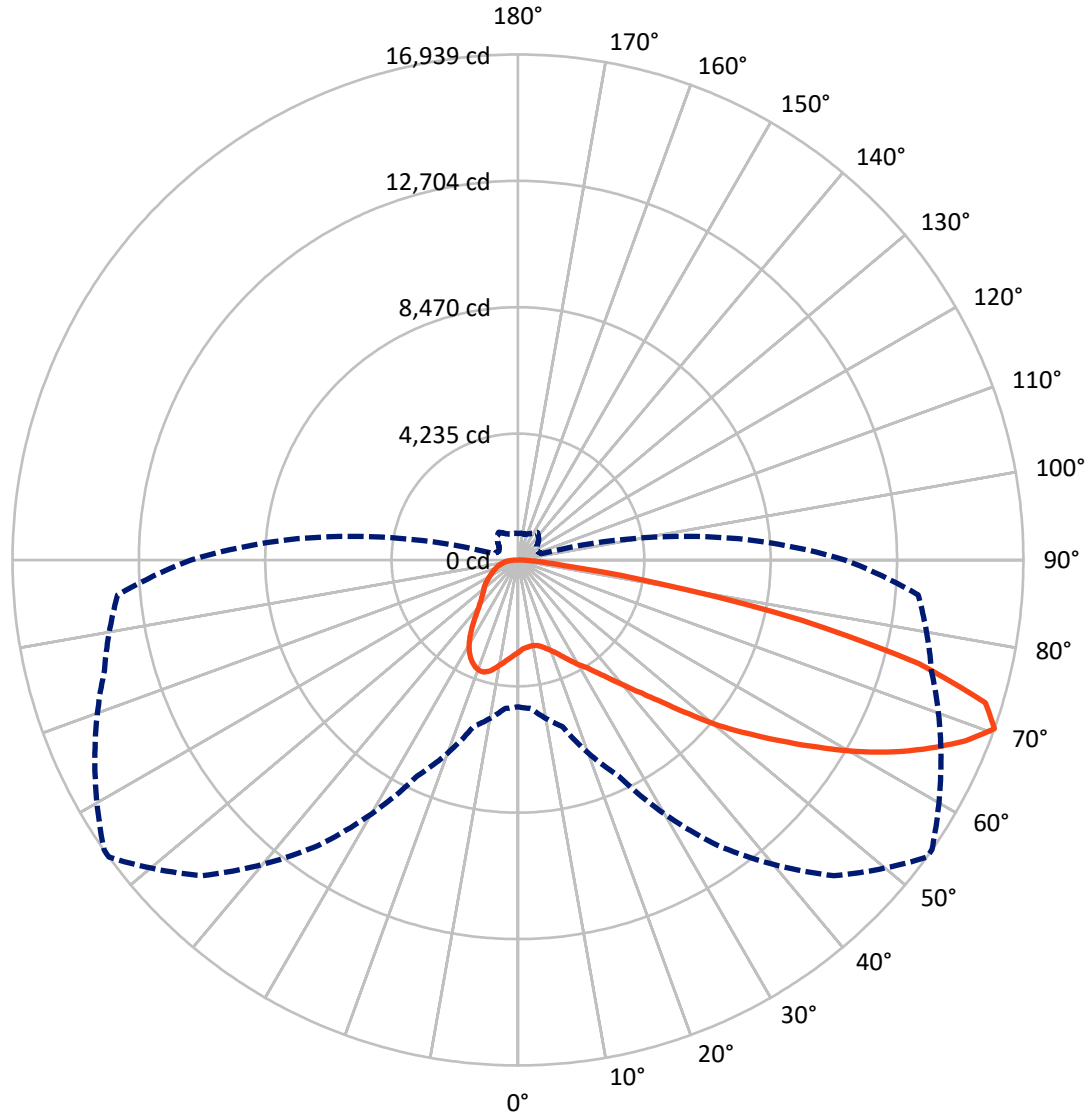
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.7 fc
 Type III - Short - N/A

REPORT NUMBER: P237117
CATALOG NUMBER: ARCH-L-AF72-240-D-U-T3-7050

Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

REPORT NUMBER: P237117
 CATALOG NUMBER: ARCH-L-AF72-240-D-U-T3-7050

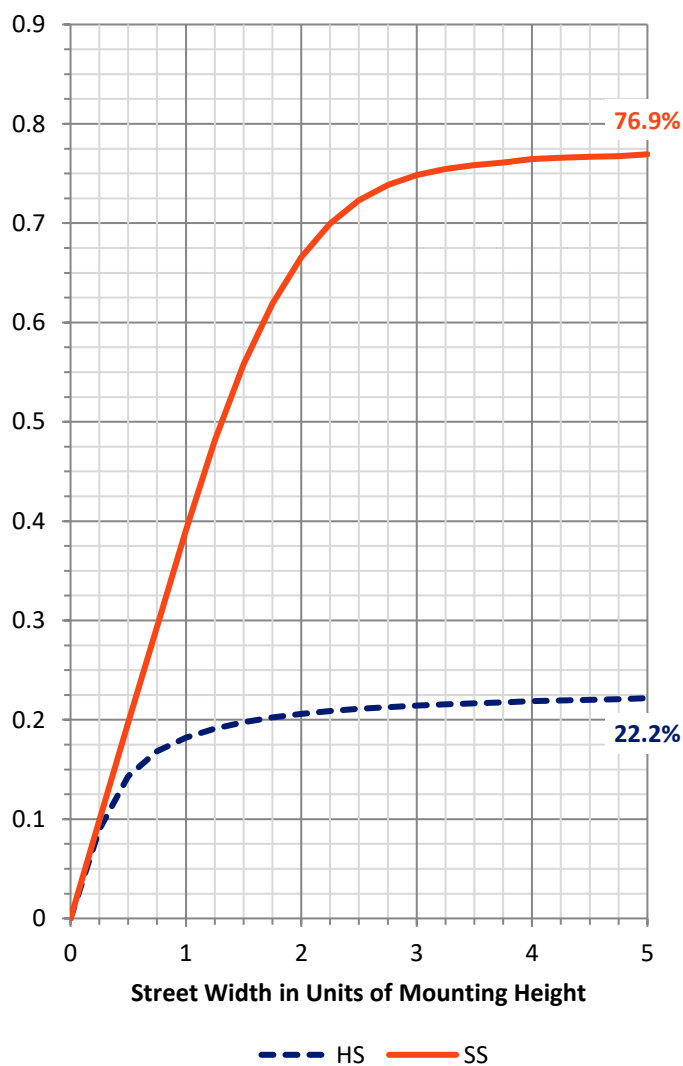
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6260.9	0.0	6260.9
	% Fixture	22.7	0.0	22.7
Street Side	Lumens	21345.0	0.0	21345.0
	% Fixture	77.3	0.0	77.3
Total	Lumens	27606.0	0.0	27606.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	303.1	1.1
10°-20°	968.5	3.5
20°-30°	1682.6	6.1
30°-40°	2458.9	8.9
40°-50°	3859.2	14.0
50°-60°	5934.6	21.5
60°-70°	7250.6	26.3
70°-80°	4495.4	16.3
80°-90°	653.1	2.4
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°	27606.0	100.0
0°-180°	27606.0	100.0

Coefficient of Utilization



REPORT NUMBER: P237117

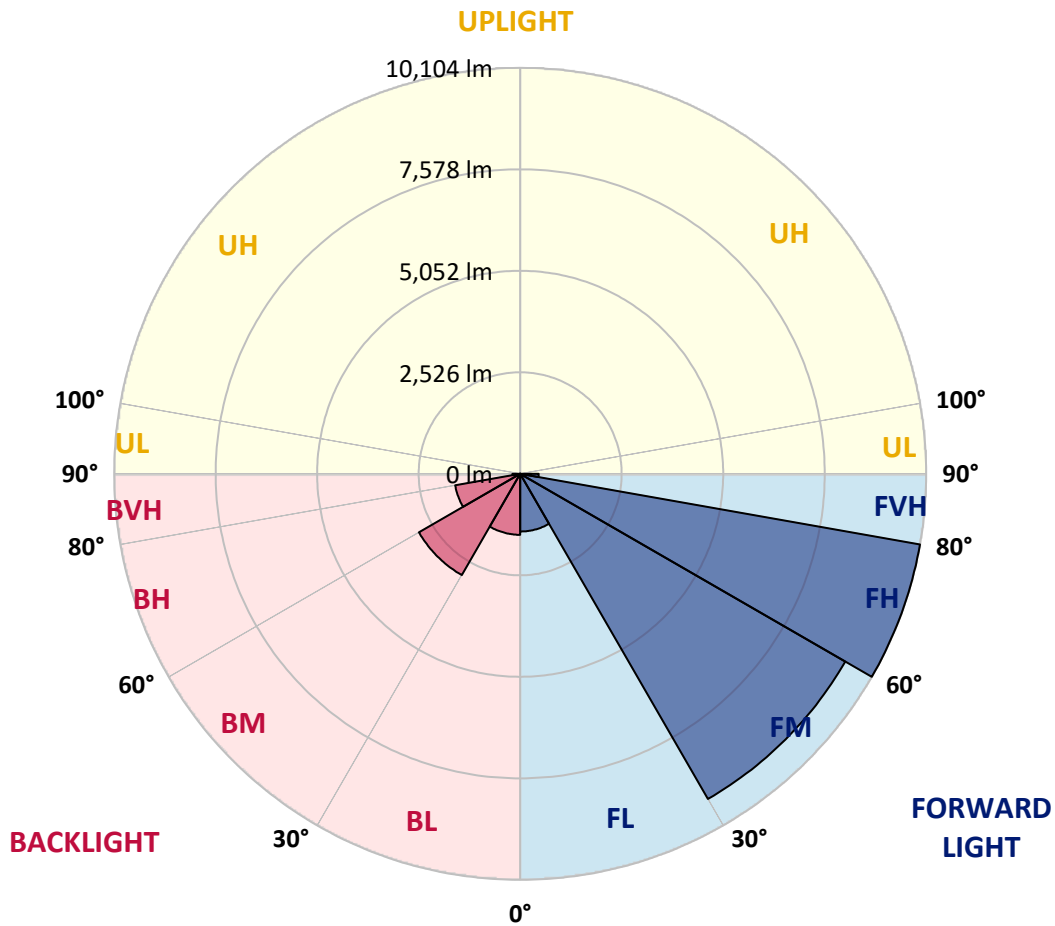
CATALOG NUMBER: ARCH-L-AF72-240-D-U-T3-7050

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1436.3	5.2			
FM (30°-60°)	9343.4	33.8			
FH (60°-80°)	10104.2	36.6			G4/12000
FVH (80°-90°)	461.1	1.7			G3/500
BL (0°-30°)	1517.9	5.5	B3/2500		
BM (30°-60°)	2909.4	10.5	B3/5000		
BH (60°-80°)	1641.8	5.9	B3/2500		G3/2500
BVH (80°-90°)	191.9	0.7			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type III Short





REPORT NUMBER: P237117

CATALOG NUMBER: ARCH-L-AF72-240-D-U-T3-7050

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	3088.6	3088.6	3088.6	3088.6	3088.6	3088.6	3088.6	3088.6	3088.6	3088.6	3088.6
2.5°	2967.2	2957.1	2957.1	2972.3	2977.3	2992.5	2992.5	2997.6	3012.7	3038.0	3068.3
5°	2876.2	2871.2	2876.2	2896.5	2906.6	2936.9	2947.0	2952.1	2982.4	3022.8	3068.3
7.5°	2785.3	2780.2	2790.3	2820.6	2851.0	2896.5	2921.7	2926.8	2972.3	3027.9	3088.6
10°	2754.9	2749.9	2765.0	2790.3	2820.6	2871.2	2911.6	2916.7	2982.4	3048.1	3134.0
12.5°	2795.4	2790.3	2805.5	2830.8	2861.1	2896.5	2942.0	2947.0	3032.9	3118.9	3209.9
15°	2896.5	2896.5	2901.5	2916.7	2947.0	2977.3	3017.8	3022.8	3113.8	3214.9	3305.9
17.5°	3053.2	3043.1	3043.1	3038.0	3058.2	3073.4	3123.9	3129.0	3225.0	3316.0	3407.0
20°	3245.3	3240.2	3220.0	3194.7	3189.7	3199.8	3250.3	3255.4	3351.4	3427.2	3513.2
22.5°	3477.8	3482.8	3437.3	3381.7	3356.5	3371.6	3417.1	3422.2	3492.9	3558.7	3634.5
25°	3786.1	3771.0	3705.3	3624.4	3573.8	3573.8	3619.3	3619.3	3685.0	3725.5	3776.0
27.5°	4079.3	4049.0	3988.3	3872.1	3791.2	3806.4	3851.8	3851.8	3912.5	3927.7	3952.9
30°	4397.8	4367.4	4291.6	4145.0	4038.9	4028.8	4084.4	4079.3	4160.2	4155.1	4134.9
32.5°	4787.0	4771.8	4645.5	4458.4	4316.9	4281.5	4332.1	4337.1	4387.7	4372.5	4306.8
35°	5332.9	5327.9	5211.6	4883.0	4696.0	4630.3	4660.6	4660.6	4696.0	4655.6	4544.4
37.5°	6020.4	6030.5	5929.4	5444.1	5181.3	5070.1	5075.1	5070.1	5080.2	5034.7	4918.4
40°	6707.9	6733.1	6728.1	6141.7	5808.1	5616.0	5545.2	5535.1	5560.4	5540.2	5429.0
42.5°	7612.7	7673.4	7531.8	7001.1	6627.0	6303.5	6111.4	6086.1	6141.7	6167.0	6060.8
45°	8552.9	8532.7	8310.3	7926.1	7587.4	7172.9	6809.0	6768.5	6809.0	6884.8	6773.6
47.5°	9043.2	9028.1	8972.5	8780.4	8729.8	8254.7	7703.7	7668.3	7592.5	7698.6	7567.2
50°	9852.0	9867.2	9639.7	9619.5	9831.8	9569.0	8714.7	8633.8	8497.3	8583.2	8472.0
52.5°	10438.4	10372.7	10231.2	10408.1	11070.3	10928.7	9665.0	9629.6	9503.2	9483.0	9432.5
55°	10676.0	10676.0	10701.3	11110.7	12056.0	11868.9	10696.2	10731.6	10559.7	10418.2	10483.9
57.5°	10746.8	10777.1	10994.4	11671.8	13213.6	12601.9	11833.6	11884.1	11636.4	11353.3	11560.6
60°	10398.0	10489.0	11009.6	11990.3	13865.6	13380.4	13031.6	13046.7	12687.8	12273.3	12637.3
62.5°	9503.2	9614.5	10544.6	12121.7	13759.5	14179.0	14163.9	14199.3	13708.9	13193.3	13648.3
65°	8406.3	8517.5	9508.3	11752.7	13678.6	14750.2	15200.1	15296.2	14664.3	13971.8	14280.1
67.5°	6793.8	6940.4	7880.6	10509.2	13284.3	15220.4	16170.7	16271.8	15402.3	14376.2	14224.5
70°	4923.5	4994.3	5782.8	7986.8	11676.9	14962.6	16939.0	16934.0	15645.0	14345.9	13466.3
72.5°	2370.8	2426.4	3108.8	4958.9	8350.7	12697.9	16383.0	16479.0	15311.3	13906.1	11732.5
75°	975.6	1031.2	1258.7	2092.7	4382.6	8391.2	13885.9	14113.3	13906.1	12480.6	9179.7
77.5°	606.6	626.8	738.0	1081.8	2001.7	3917.6	9720.6	10029.0	11019.7	9998.6	6060.8
80°	454.9	470.1	551.0	758.2	1263.7	1445.7	4827.4	5216.7	6677.5	5737.3	2744.8
82.5°	379.1	384.2	439.8	551.0	859.3	829.0	1546.8	1723.7	3113.8	2188.8	945.3
85°	353.8	364.0	394.3	394.3	545.9	520.7	642.0	672.3	904.8	748.1	328.6
87.5°	182.0	171.9	348.8	308.3	283.1	252.7	273.0	293.2	338.7	358.9	146.6
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: P237117

CATALOG NUMBER: ARCH-L-AF72-240-D-U-T3-7050

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3088.6	3088.6	3088.6	3088.6	3088.6	3088.6	3088.6	3088.6	3088.6	3088.6	3088.6
2.5°	3078.4	3093.6	3118.9	3144.2	3174.5	3209.9	3230.1	3255.4	3275.6	3265.5	3260.4
5°	3093.6	3118.9	3174.5	3225.0	3285.7	3356.5	3402.0	3452.5	3492.9	3503.1	3487.9
7.5°	3118.9	3164.4	3240.2	3331.2	3412.1	3503.1	3573.8	3644.6	3695.1	3705.3	3705.3
10°	3179.5	3230.1	3331.2	3452.5	3548.6	3644.6	3725.5	3781.1	3826.6	3846.8	3846.8
12.5°	3265.5	3326.1	3447.5	3594.0	3700.2	3791.2	3836.7	3862.0	3882.2	3902.4	3907.5
15°	3366.6	3432.3	3578.9	3735.6	3846.8	3892.3	3892.3	3887.2	3887.2	3897.3	3907.5
17.5°	3467.7	3538.4	3690.1	3856.9	3927.7	3902.4	3867.0	3851.8	3841.7	3836.7	3851.8
20°	3573.8	3644.6	3796.2	3952.9	3932.7	3826.6	3776.0	3740.6	3710.3	3695.1	3715.4
22.5°	3690.1	3755.8	3912.5	4018.7	3867.0	3705.3	3609.2	3553.6	3503.1	3472.7	3492.9
25°	3826.6	3892.3	4043.9	4038.9	3750.7	3523.3	3371.6	3280.6	3225.0	3194.7	3194.7
27.5°	3988.3	4043.9	4190.5	3988.3	3589.0	3280.6	3058.2	2972.3	2957.1	2931.9	2931.9
30°	4155.1	4200.6	4327.0	3872.1	3366.6	2962.2	2719.5	2679.1	2684.2	2658.9	2663.9
32.5°	4327.0	4372.5	4407.9	3700.2	3078.4	2603.3	2441.5	2411.2	2406.1	2385.9	2365.7
35°	4569.6	4635.4	4418.0	3467.7	2729.7	2305.0	2188.8	2158.4	2128.1	2057.4	2057.4
37.5°	4938.7	5009.4	4392.7	3179.5	2370.8	2072.5	1966.4	1925.9	1875.4	1804.6	1779.3
40°	5444.1	5444.1	4337.1	2856.0	2082.6	1885.5	1784.4	1733.8	1678.2	1607.5	1592.3
42.5°	6040.6	5899.1	4251.2	2527.5	1870.3	1759.1	1668.1	1612.5	1546.8	1465.9	1455.8
45°	6738.2	6354.0	4129.9	2234.3	1713.6	1683.3	1627.7	1531.6	1420.4	1334.5	1319.3
47.5°	7415.6	6763.5	4013.6	2027.0	1582.2	1653.0	1607.5	1445.7	1294.1	1172.7	1157.6
50°	8158.6	7127.4	3877.1	1855.2	1481.1	1632.7	1582.2	1319.3	1152.5	1066.6	1056.5
52.5°	8901.7	7496.4	3730.5	1673.2	1395.2	1592.3	1521.5	1228.3	1147.5	1031.2	1016.0
55°	9685.2	7926.1	3558.7	1471.0	1294.1	1511.4	1440.7	1223.3	1182.9	1031.2	995.8
57.5°	10448.5	8401.3	3280.6	1273.8	1182.9	1390.1	1410.3	1193.0	1107.0	1021.1	980.7
60°	11292.7	8906.8	2820.6	1107.0	1086.8	1289.0	1369.9	1127.2	1021.1	990.8	970.5
62.5°	11970.0	9361.7	2203.9	990.8	1005.9	1208.1	1319.3	1086.8	985.7	960.4	955.4
65°	12263.2	9371.8	1582.2	889.7	925.0	1132.3	1268.8	1051.4	955.4	945.3	940.2
67.5°	11954.9	8856.2	1112.1	793.6	839.1	1061.5	1203.1	1016.0	925.0	930.1	920.0
70°	10959.1	7769.4	813.8	702.6	758.2	985.7	1132.3	970.5	889.7	899.8	884.6
72.5°	9169.6	6055.8	652.1	626.8	692.5	904.8	1061.5	920.0	834.1	839.1	808.8
75°	6773.6	4013.6	545.9	561.1	616.7	829.0	970.5	854.3	773.4	753.2	733.0
77.5°	4028.8	2062.4	449.9	490.3	551.0	738.0	869.4	773.4	707.7	672.3	657.1
80°	1663.1	834.1	369.0	414.5	480.2	657.1	768.3	677.4	631.9	596.5	576.3
82.5°	662.2	409.4	293.2	338.7	404.4	571.2	672.3	596.5	551.0	525.7	470.1
85°	252.7	202.2	197.1	237.6	303.3	439.8	556.0	500.4	465.1	399.3	384.2
87.5°	101.1	91.0	91.0	116.3	171.9	278.0	399.3	348.8	364.0	288.1	293.2
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)