

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: P237359

Luminaire Tested: **ARCH-L-AF72-260-D-U-T4W-7050**

Issue Date: 2/14/2018

Test Information

Test Method: LM-79-08
Report Number: P237359
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29615)
Test Lab: INNOVATION CENTER-P2
Issue Date: 2/14/2018
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-L-AF72-260-D-U-T4W-7050
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 5000K, 1110mA LIGHT ENGINES WITH 24 LEDS AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28788.9 lumens
Efficiency: N/A
Efficacy: 110.3 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G5

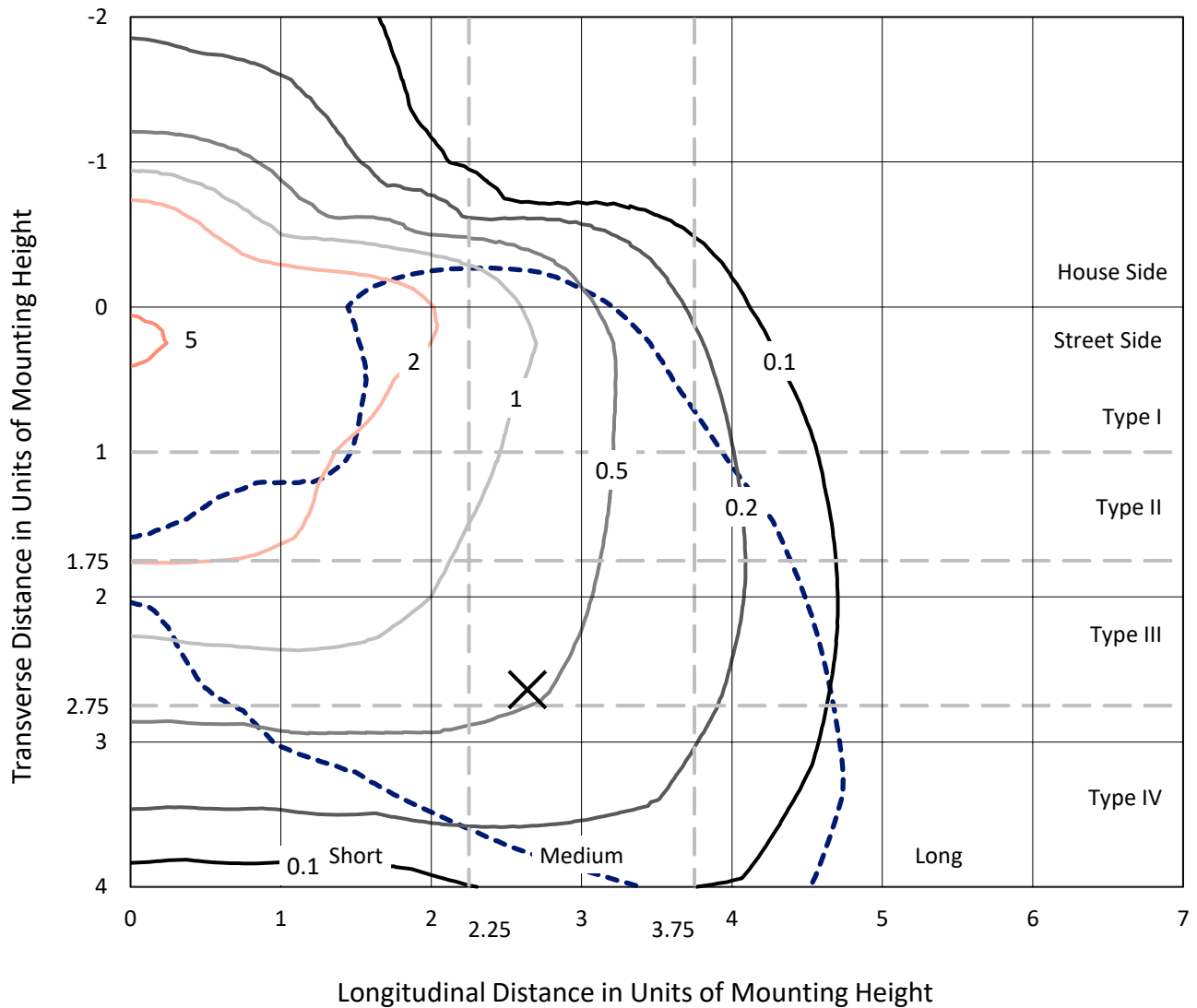
Input Watts (W): 261
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

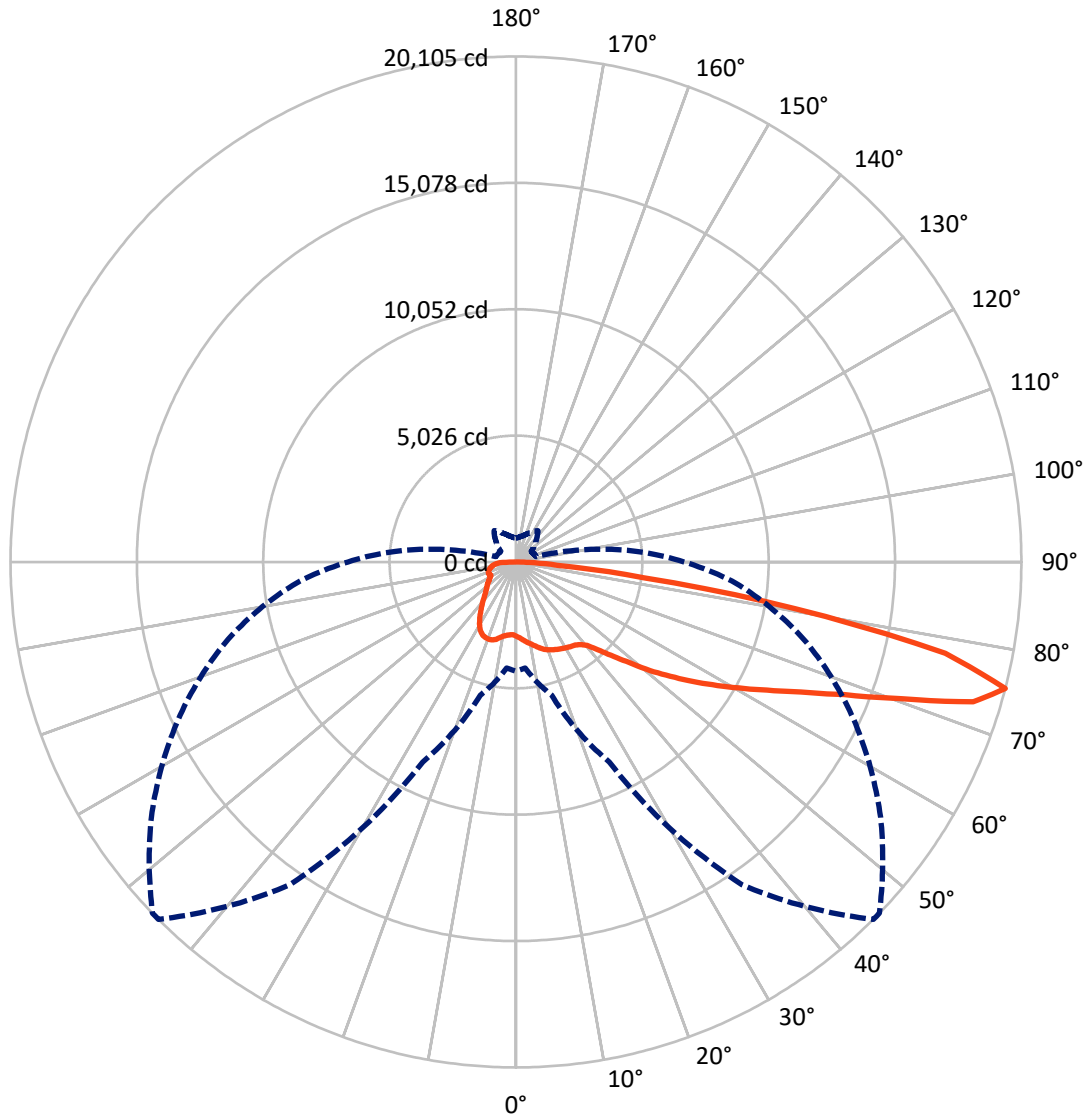
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.5 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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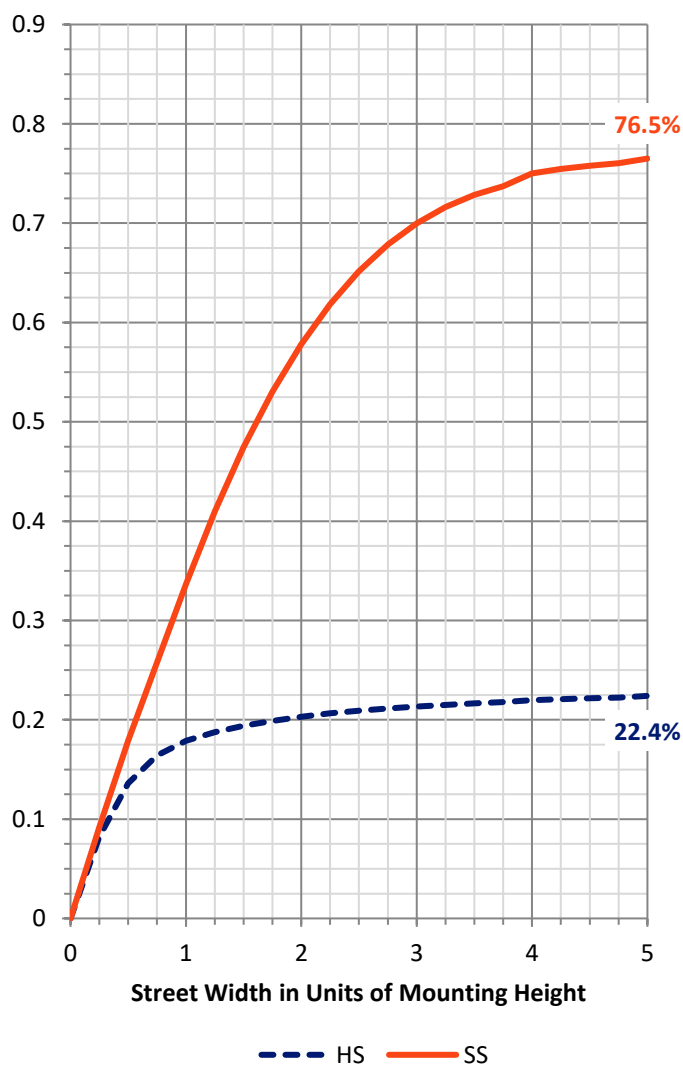
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6669.2	0.0	6669.2
	% Fixture	23.2	0.0	23.2
Street Side	Lumens	22119.8	0.0	22119.8
	% Fixture	76.8	0.0	76.8
Total	Lumens	28788.9	0.0	28788.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	292.5	1.0
10°-20°	947.8	3.3
20°-30°	1626.4	5.6
30°-40°	2274.7	7.9
40°-50°	3336.7	11.6
50°-60°	5197.7	18.1
60°-70°	7479.1	26.0
70°-80°	6515.1	22.6
80°-90°	1118.9	3.9
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°	28788.9	100.0
0°-180°	28788.9	100.0

Coefficient of Utilization



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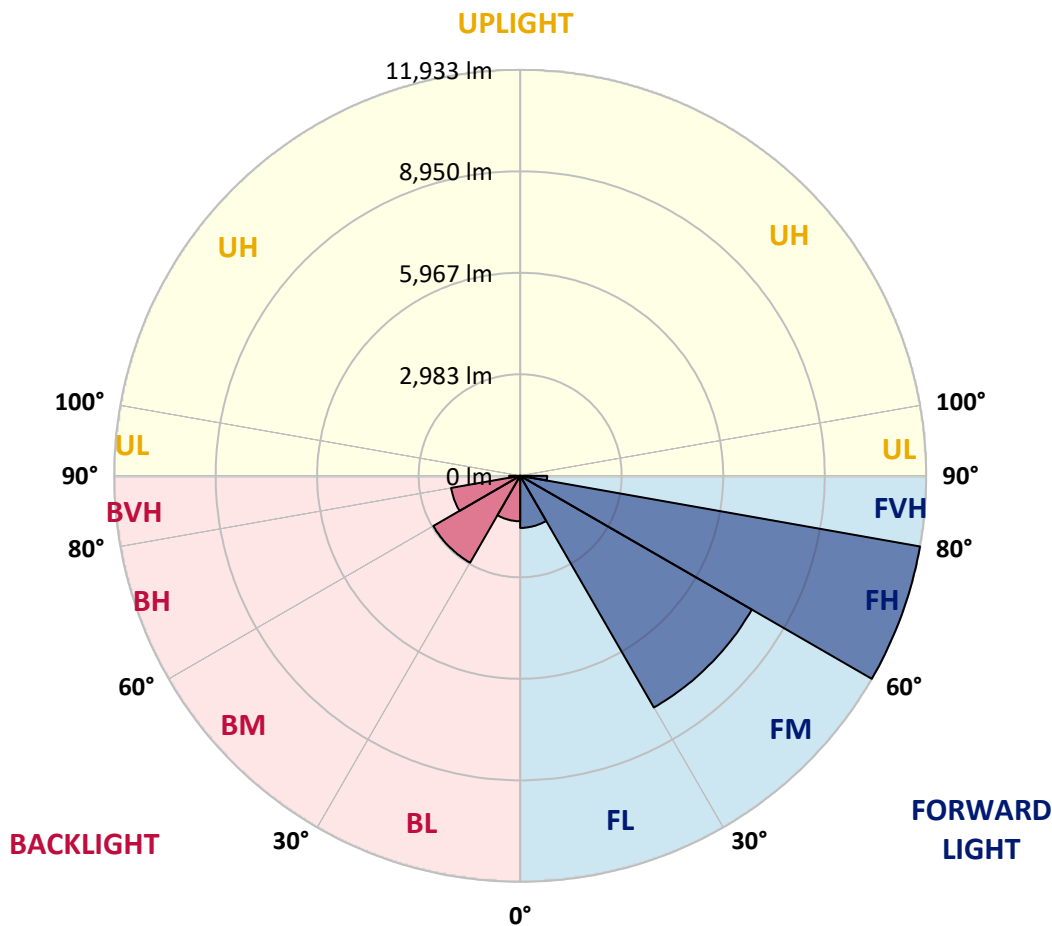
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1530.9	5.3			
FM (30°-60°)	7861.7	27.3			
FH (60°-80°)	11933.3	41.5			G4/12000
FVH (80°-90°)	793.9	2.8			G5
BL (0°-30°)	1335.7	4.6	B3/2500		
BM (30°-60°)	2947.4	10.2	B3/5000		
BH (60°-80°)	2061.0	7.2	B3/2500		G3/2500
BVH (80°-90°)	325.0	1.1			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	2951.3	2951.3	2951.3	2951.3	2951.3	2951.3	2951.3	2951.3	2951.3	2951.3	2951.3
2.5°	3096.9	3074.5	3074.5	3057.7	3057.7	3029.7	3018.5	3012.9	2984.9	2968.1	2951.3
5°	3276.1	3248.1	3242.5	3203.3	3186.5	3124.9	3119.3	3080.1	3029.7	2979.3	2940.1
7.5°	3438.5	3421.7	3393.7	3354.5	3304.1	3225.7	3220.1	3158.5	3074.5	3007.3	2951.3
10°	3556.1	3544.9	3505.7	3455.3	3399.3	3320.9	3315.3	3248.1	3147.3	3068.9	2990.5
12.5°	3696.1	3679.3	3628.9	3561.7	3500.1	3427.3	3421.7	3365.7	3253.7	3152.9	3052.1
15°	3830.5	3808.1	3746.5	3679.3	3612.1	3550.5	3550.5	3488.9	3371.3	3253.7	3136.1
17.5°	3897.7	3886.5	3824.9	3752.1	3696.1	3651.3	3645.7	3589.7	3472.1	3348.9	3220.1
20°	3920.1	3925.7	3869.7	3791.3	3752.1	3729.7	3724.1	3684.9	3556.1	3438.5	3315.3
22.5°	3914.5	3931.3	3886.5	3802.5	3791.3	3791.3	3791.3	3746.5	3645.7	3528.1	3404.9
25°	3936.9	3959.3	3925.7	3824.9	3824.9	3847.3	3847.3	3824.9	3735.3	3634.5	3511.3
27.5°	4015.3	4032.1	4004.1	3864.1	3869.7	3903.3	3897.7	3903.3	3847.3	3752.1	3628.9
30°	4110.5	4132.9	4099.3	3925.7	3920.1	3953.7	3953.7	3981.7	3942.5	3841.7	3740.9
32.5°	4368.1	4362.5	4256.1	3992.9	3976.1	4009.7	4009.7	4037.7	4015.3	3936.9	3841.7
35°	5135.3	5051.3	4816.1	4211.3	4043.3	4060.1	4060.1	4110.5	4121.7	4060.1	3976.1
37.5°	5919.4	5891.4	5712.2	4793.7	4289.7	4166.5	4160.9	4233.7	4284.1	4233.7	4177.7
40°	6709.0	6686.6	6647.4	5572.2	4804.9	4356.9	4340.1	4401.7	4491.3	4457.7	4424.1
42.5°	7442.6	7431.4	7470.6	6339.4	5460.1	4765.7	4715.3	4642.5	4771.3	4760.1	4760.1
45°	8019.4	8047.4	8069.8	7056.2	6171.4	5292.1	5230.5	4984.1	5157.7	5202.5	5236.1
47.5°	8344.2	8366.6	8445.0	7756.2	6882.6	5902.6	5857.8	5454.5	5684.2	5818.6	5913.8
50°	8809.0	8747.4	8814.6	8439.4	7739.4	6697.8	6574.6	6087.4	6378.6	6613.8	6837.8
52.5°	9257.1	9156.3	9212.3	9229.1	8713.8	7476.2	7347.4	6832.2	7196.2	7565.8	7963.4
55°	9660.3	9654.7	9710.7	9996.3	9654.7	8310.6	8165.0	7655.4	8181.8	8579.4	9251.5
57.5°	9985.1	10041.1	10287.5	10886.7	10741.1	9217.9	9055.4	8613.0	9234.7	9632.3	10746.7
60°	10365.9	10455.5	10864.3	11642.7	11732.3	10169.9	10001.9	9682.7	10315.5	10718.7	12477.1
62.5°	10494.7	10623.5	11463.5	12437.9	12768.4	11211.5	11060.3	10847.5	11452.3	11816.3	14202.0
65°	9637.9	9884.3	11793.9	12846.8	13882.8	12465.9	12337.1	12152.3	12583.5	12824.4	15372.4
67.5°	9402.7	9514.7	11149.9	13434.8	14930.0	14078.8	13950.0	13630.8	13642.0	13541.2	15753.2
70°	9072.2	9195.5	10489.1	13877.2	16430.9	16285.2	16128.4	15187.6	14610.8	14000.4	15002.8
72.5°	7728.2	7689.0	9038.6	12684.3	17153.3	19018.1	18833.3	16862.1	15327.6	13602.8	12661.9
75°	4340.1	4228.1	5482.6	8775.4	15663.6	20104.6	20099.0	17707.7	14823.6	11849.9	8618.6
77.5°	1260.0	1226.4	1808.8	3679.3	10545.1	17466.9	17679.7	15971.6	12370.7	8512.2	4732.1
80°	593.6	604.8	778.4	1215.2	4502.5	11273.1	11883.5	10517.1	7392.2	3925.7	1954.5
82.5°	375.2	380.8	532.0	784.0	1904.1	5118.5	5622.6	4732.1	2928.9	1696.8	862.4
85°	235.2	235.2	352.8	515.2	1136.8	1635.2	1775.2	1612.8	1254.4	924.0	470.4
87.5°	128.8	128.8	212.8	296.8	621.6	526.4	543.2	644.0	784.0	565.6	235.2
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°	2951.3	2951.3	2951.3	2951.3	2951.3	2951.3	2951.3	2951.3	2951.3	2951.3	2951.3
2.5°	2945.7	2934.5	2917.7	2912.1	2906.5	2900.9	2906.5	2917.7	2906.5	2906.5	2912.1
5°	2928.9	2917.7	2895.3	2895.3	2900.9	2906.5	2934.5	2951.3	2956.9	2956.9	2956.9
7.5°	2928.9	2912.1	2895.3	2900.9	2912.1	2934.5	2979.3	3007.3	3029.7	3035.3	3035.3
10°	2956.9	2934.5	2923.3	2934.5	2968.1	2984.9	3029.7	3074.5	3102.5	3113.7	3113.7
12.5°	3007.3	2984.9	2984.9	3007.3	3052.1	3074.5	3113.7	3147.3	3180.9	3197.7	3197.7
15°	3091.3	3063.3	3068.9	3108.1	3158.5	3180.9	3208.9	3220.1	3248.1	3270.5	3270.5
17.5°	3169.7	3141.7	3152.9	3197.7	3231.3	3242.5	3259.3	3253.7	3264.9	3281.7	3287.3
20°	3259.3	3231.3	3236.9	3264.9	3270.5	3259.3	3259.3	3242.5	3236.9	3264.9	3276.1
22.5°	3348.9	3320.9	3315.3	3298.5	3270.5	3242.5	3225.7	3208.9	3197.7	3225.7	3236.9
25°	3455.3	3416.1	3388.1	3315.3	3242.5	3192.1	3169.7	3158.5	3152.9	3180.9	3192.1
27.5°	3572.9	3533.7	3449.7	3292.9	3175.3	3091.3	3074.5	3074.5	3085.7	3102.5	3113.7
30°	3684.9	3645.7	3494.5	3242.5	3057.7	2934.5	2917.7	2934.5	2962.5	2979.3	2996.1
32.5°	3796.9	3757.7	3522.5	3164.1	2884.1	2727.3	2716.1	2744.1	2788.9	2800.1	2811.3
35°	3948.1	3908.9	3556.1	3052.1	2665.7	2497.7	2486.5	2503.3	2542.5	2559.3	2576.1
37.5°	4160.9	4138.5	3606.5	2928.9	2464.1	2279.3	2245.7	2234.5	2256.9	2251.3	2273.7
40°	4440.9	4457.7	3696.1	2766.5	2268.1	2077.7	2004.9	1971.3	1948.9	1904.1	1926.5
42.5°	4849.7	4860.9	3796.9	2581.7	2100.1	1887.3	1792.0	1730.4	1685.6	1612.8	1624.0
45°	5448.9	5353.7	3914.5	2385.7	1948.9	1736.0	1624.0	1551.2	1489.6	1428.0	1433.6
47.5°	6244.2	5953.0	4043.3	2223.3	1797.6	1612.8	1512.0	1428.0	1355.2	1304.8	1310.4
50°	7224.2	6697.8	4172.1	2072.1	1646.4	1517.6	1428.0	1338.4	1265.6	1215.2	1209.6
52.5°	8517.8	7593.8	4256.1	1904.1	1495.2	1433.6	1355.2	1271.2	1181.6	1120.0	1114.4
55°	9861.9	8635.4	4328.9	1702.4	1349.6	1338.4	1299.2	1204.0	1097.6	1019.2	1008.0
57.5°	11340.3	9749.9	4384.9	1506.4	1237.6	1260.0	1248.8	1136.8	1019.2	946.4	940.8
60°	12684.3	10903.5	4205.7	1332.8	1136.8	1181.6	1192.8	1097.6	1036.0	1052.8	1058.4
62.5°	14039.6	11793.9	3522.5	1204.0	1069.6	1131.2	1226.4	1220.8	1192.8	1220.8	1226.4
65°	14526.8	11978.7	2497.7	1097.6	1002.4	1153.6	1332.8	1321.6	1192.8	1142.4	1131.2
67.5°	14252.4	11429.9	1680.0	1013.6	952.0	1181.6	1444.8	1321.6	1148.0	1080.8	1058.4
70°	12947.6	10080.3	1232.0	929.6	907.2	1176.0	1506.4	1316.0	1125.6	1052.8	1024.8
72.5°	10326.7	7778.6	991.2	851.2	840.0	1148.0	1540.0	1304.8	1103.2	1024.8	991.2
75°	6686.6	4838.5	834.4	772.8	739.2	1103.2	1523.2	1271.2	1075.2	974.4	952.0
77.5°	3102.5	2083.3	711.2	683.2	644.0	1036.0	1472.8	1204.0	1013.6	918.4	890.4
80°	1444.8	985.6	599.2	593.6	576.8	980.0	1405.6	1125.6	940.8	862.4	817.6
82.5°	772.8	593.6	487.2	487.2	504.0	912.8	1321.6	1030.4	845.6	806.4	688.8
85°	408.8	341.6	352.8	380.8	431.2	806.4	1209.6	929.6	739.2	616.0	599.2
87.5°	207.2	218.4	218.4	257.6	330.4	655.2	996.8	767.2	627.2	504.0	492.8
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)