

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: P237319

Luminaire Tested: **ARCH-L-AF72-260-D-U-T4W-7030**

Issue Date: 8/23/2018

Test Information

Test Method: LM-79-08
Report Number: P237319
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29615)
Test Lab: INNOVATION CENTER-P2
Issue Date: 8/23/2018
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-L-AF72-260-D-U-T4W-7030
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 3000K, 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: 27843.6 lumens
Efficiency: N/A
Efficacy: 106.7 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

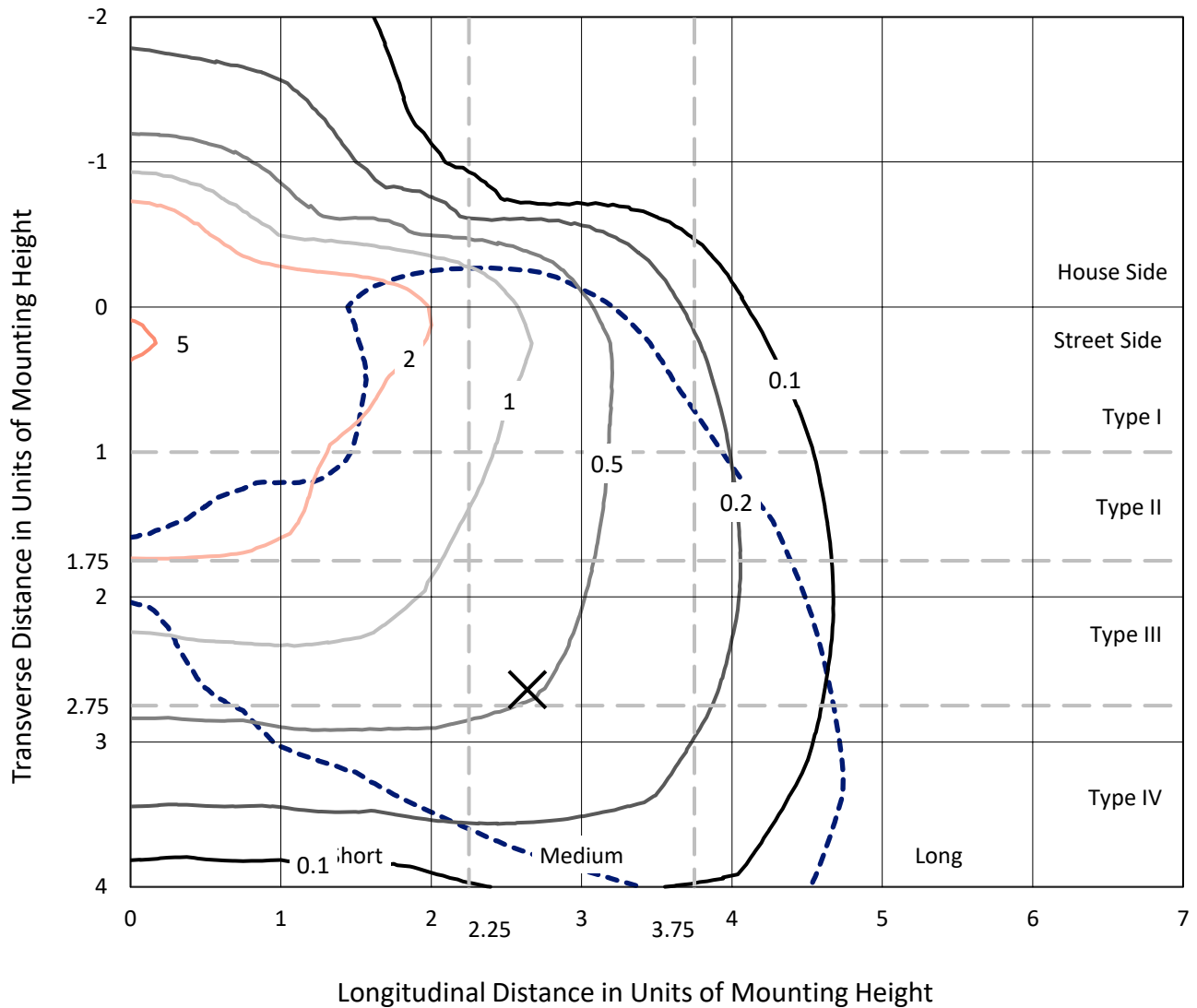
Input Watts (W): 261
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

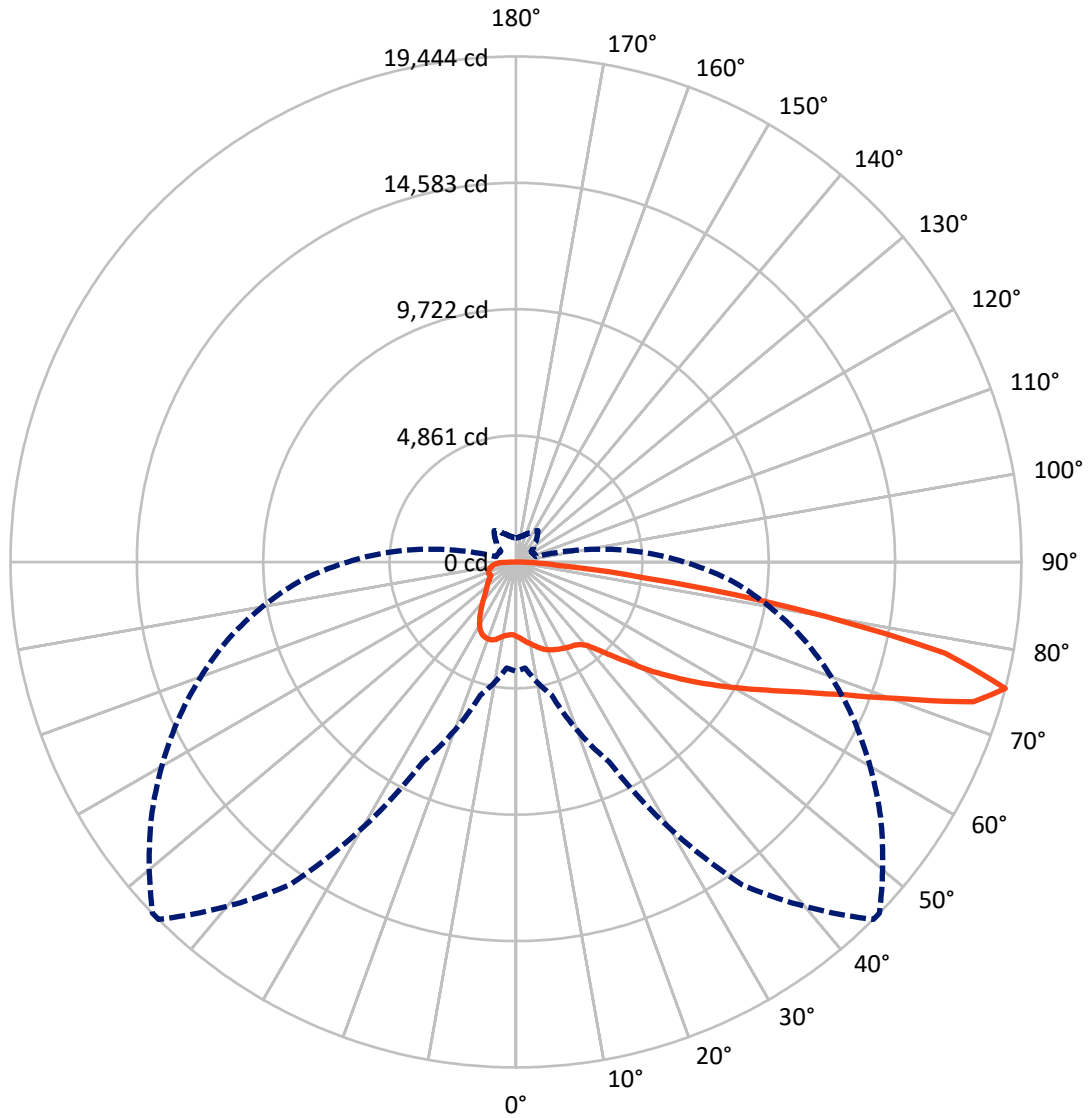
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.3 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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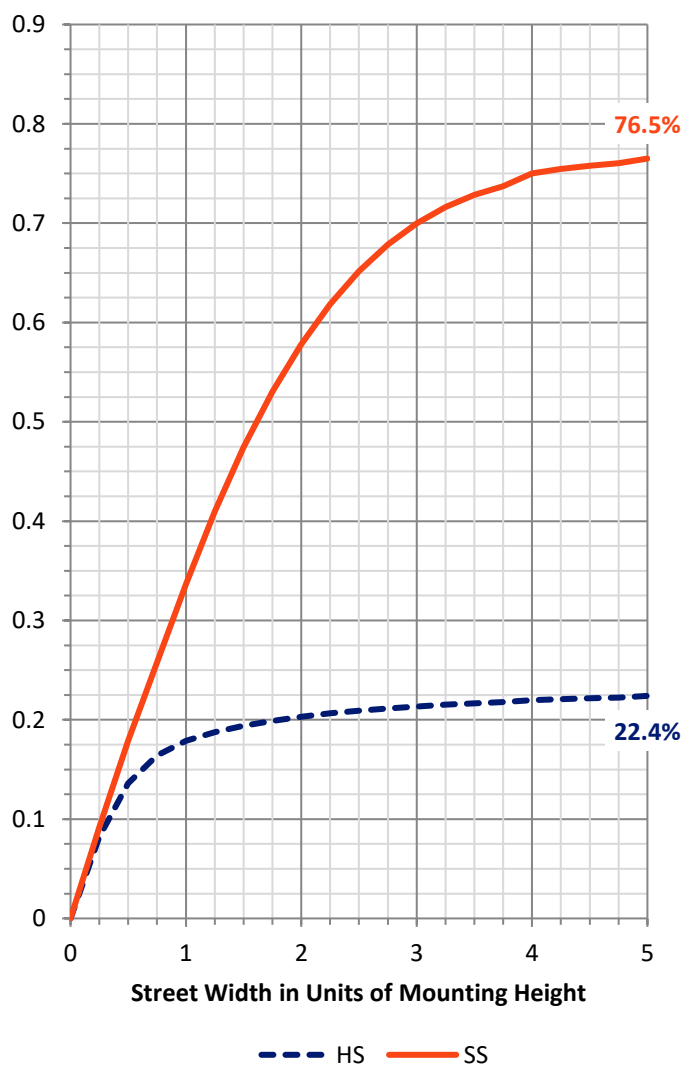
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6450.2	0.0	6450.2
	% Fixture	23.2	0.0	23.2
Street Side	Lumens	21393.4	0.0	21393.4
	% Fixture	76.8	0.0	76.8
Total	Lumens	27843.6	0.0	27843.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	282.9	1.0
10°-20°	916.6	3.3
20°-30°	1573.0	5.6
30°-40°	2200.0	7.9
40°-50°	3227.2	11.6
50°-60°	5027.1	18.1
60°-70°	7233.5	26.0
70°-80°	6301.2	22.6
80°-90°	1082.2	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°	27843.6	100.0
0°-180°	27843.6	100.0

Coefficient of Utilization



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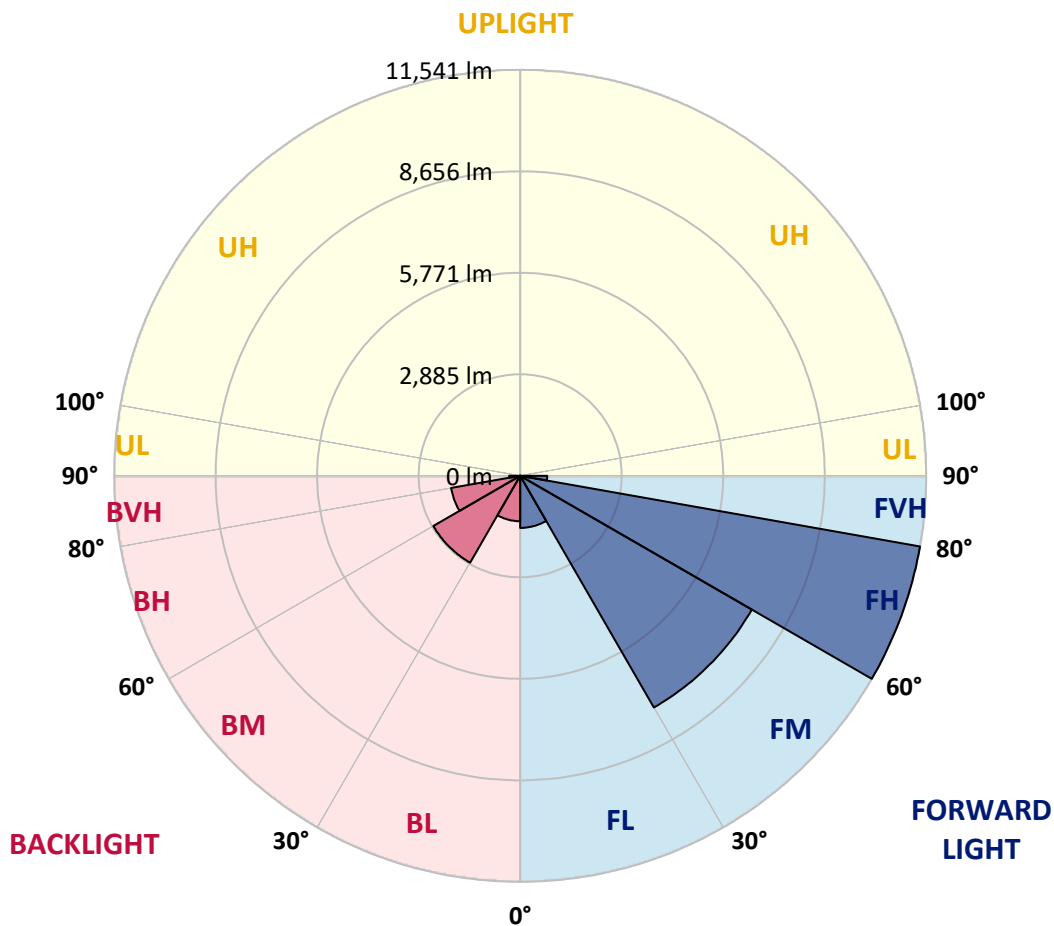
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1480.6	5.3			
FM (30°-60°)	7603.6	27.3			
FH (60°-80°)	11541.4	41.5			G4/12000
FVH (80°-90°)	767.8	2.8			G5
BL (0°-30°)	1291.9	4.6	B3/2500		
BM (30°-60°)	2850.7	10.2	B3/5000		
BH (60°-80°)	1993.3	7.2	B3/2500		G3/2500
BVH (80°-90°)	314.4	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°	2854.4	2854.4	2854.4	2854.4	2854.4	2854.4	2854.4	2854.4	2854.4	2854.4	2854.4
2.5°	2995.3	2973.5	2973.5	2957.3	2957.3	2930.3	2919.4	2914.0	2886.8	2870.6	2854.4
5°	3168.5	3141.4	3136.0	3098.0	3081.8	3022.2	3016.8	2979.0	2930.3	2881.5	2843.6
7.5°	3325.7	3309.4	3282.2	3244.4	3195.7	3119.8	3114.3	3054.8	2973.5	2908.5	2854.4
10°	3439.4	3428.4	3390.6	3341.8	3287.7	3211.9	3206.4	3141.4	3044.0	2968.1	2892.3
12.5°	3574.8	3558.5	3509.7	3444.7	3385.2	3314.7	3309.4	3255.2	3146.8	3049.3	2951.8
15°	3704.8	3683.0	3623.5	3558.5	3493.4	3433.9	3433.9	3374.4	3260.7	3146.8	3033.1
17.5°	3769.7	3758.8	3699.3	3628.9	3574.8	3531.4	3526.1	3471.8	3358.1	3238.9	3114.3
20°	3791.4	3796.8	3742.6	3666.8	3628.9	3607.2	3601.8	3563.9	3439.4	3325.7	3206.4
22.5°	3786.0	3802.2	3758.8	3677.6	3666.8	3666.8	3666.8	3623.5	3526.1	3412.2	3293.1
25°	3807.5	3829.3	3796.8	3699.3	3699.3	3721.0	3721.0	3699.3	3612.6	3515.2	3396.0
27.5°	3883.4	3899.7	3872.5	3737.2	3742.6	3775.1	3769.7	3775.1	3721.0	3628.9	3509.7
30°	3975.5	3997.2	3964.7	3796.8	3791.4	3823.8	3823.8	3851.0	3813.0	3715.6	3618.0
32.5°	4224.7	4219.3	4116.4	3861.8	3845.5	3878.0	3878.0	3905.2	3883.4	3807.5	3715.6
35°	4966.7	4885.4	4657.9	4073.0	3910.5	3926.8	3926.8	3975.5	3986.4	3926.8	3845.5
37.5°	5724.9	5697.9	5524.5	4636.3	4148.9	4029.7	4024.2	4094.7	4143.4	4094.7	4040.5
40°	6488.7	6467.0	6429.2	5389.2	4647.2	4213.8	4197.6	4257.2	4343.8	4311.4	4278.8
42.5°	7198.2	7187.4	7225.4	6131.2	5280.8	4609.2	4560.5	4490.1	4614.7	4603.8	4603.8
45°	7756.1	7783.2	7804.8	6824.5	5968.8	5118.4	5058.8	4820.5	4988.3	5031.7	5064.1
47.5°	8070.2	8091.8	8167.6	7501.5	6656.6	5708.7	5665.4	5275.5	5497.5	5627.5	5719.6
50°	8519.8	8460.2	8525.2	8162.3	7485.3	6477.9	6358.7	5887.4	6169.1	6396.6	6613.3
52.5°	8953.0	8855.6	8909.8	8926.1	8427.7	7230.7	7106.1	6607.8	6960.0	7317.3	7701.9
55°	9343.1	9337.7	9391.8	9668.1	9337.7	8037.7	7896.9	7404.1	7913.1	8297.7	8947.7
57.5°	9657.2	9711.4	9949.7	10529.2	10388.4	8915.1	8758.1	8330.3	8931.4	9316.0	10393.9
60°	10025.5	10112.2	10507.6	11260.4	11347.0	9835.9	9673.5	9364.7	9976.8	10366.7	12067.4
62.5°	10150.0	10274.6	11087.1	12029.6	12349.0	10843.3	10697.1	10491.3	11076.2	11428.3	13735.6
65°	9321.4	9559.6	11406.6	12424.9	13426.9	12056.5	11931.9	11753.2	12170.3	12403.2	14867.7
67.5°	9093.8	9202.3	10783.8	12993.5	14439.7	13616.4	13491.9	13183.2	13194.0	13096.5	15235.8
70°	8774.3	8893.4	10144.6	13421.5	15891.3	15750.5	15598.8	14689.0	14131.0	13540.6	14510.1
72.5°	7474.4	7436.5	8741.9	12267.8	16590.0	18393.6	18214.8	16308.4	14824.3	13156.1	12246.1
75°	4197.6	4089.2	5302.5	8487.3	15149.3	19444.4	19439.0	17126.2	14336.8	11460.8	8335.6
77.5°	1218.7	1186.1	1749.5	3558.5	10198.8	16893.3	17099.1	15447.2	11964.6	8232.6	4576.8
80°	574.1	585.0	752.9	1175.3	4354.6	10902.9	11493.3	10171.7	7149.5	3796.8	1890.3
82.5°	362.8	368.3	514.5	758.3	1841.6	4950.4	5438.0	4576.8	2832.6	1641.1	834.0
85°	227.5	227.5	341.2	498.3	1099.4	1581.5	1716.9	1559.9	1213.3	893.6	454.9
87.5°	124.5	124.5	205.9	287.1	601.3	509.1	525.4	622.9	758.3	547.1	227.5
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°	2854.4	2854.4	2854.4	2854.4	2854.4	2854.4	2854.4	2854.4	2854.4	2854.4	2854.4
2.5°	2848.9	2838.1	2821.8	2816.4	2811.0	2805.7	2811.0	2821.8	2811.0	2811.0	2816.4
5°	2832.6	2821.8	2800.2	2800.2	2805.7	2811.0	2838.1	2854.4	2859.8	2859.8	2859.8
7.5°	2832.6	2816.4	2800.2	2805.7	2816.4	2838.1	2881.5	2908.5	2930.3	2935.6	2935.6
10°	2859.8	2838.1	2827.3	2838.1	2870.6	2886.8	2930.3	2973.5	3000.6	3011.4	3011.4
12.5°	2908.5	2886.8	2886.8	2908.5	2951.8	2973.5	3011.4	3044.0	3076.4	3092.7	3092.7
15°	2989.8	2962.7	2968.1	3006.0	3054.8	3076.4	3103.5	3114.3	3141.4	3163.0	3163.0
17.5°	3065.6	3038.5	3049.3	3092.7	3125.2	3136.0	3152.2	3146.8	3157.7	3173.9	3179.3
20°	3152.2	3125.2	3130.6	3157.7	3163.0	3152.2	3152.2	3136.0	3130.6	3157.7	3168.5
22.5°	3238.9	3211.9	3206.4	3190.2	3163.0	3136.0	3119.8	3103.5	3092.7	3119.8	3130.6
25°	3341.8	3303.9	3276.8	3206.4	3136.0	3087.2	3065.6	3054.8	3049.3	3076.4	3087.2
27.5°	3455.6	3417.6	3336.4	3184.8	3071.1	2989.8	2973.5	2973.5	2984.3	3000.6	3011.4
30°	3563.9	3526.1	3379.7	3136.0	2957.3	2838.1	2821.8	2838.1	2865.3	2881.5	2897.7
32.5°	3672.2	3634.3	3406.8	3060.2	2789.4	2637.7	2626.9	2654.0	2697.3	2708.1	2718.9
35°	3818.5	3780.6	3439.4	2951.8	2578.2	2415.6	2404.8	2421.0	2459.0	2475.3	2491.4
37.5°	4024.2	4002.6	3488.1	2832.6	2383.2	2204.5	2172.0	2161.0	2182.8	2177.3	2199.0
40°	4295.1	4311.4	3574.8	2675.6	2193.6	2009.4	1939.1	1906.6	1884.8	1841.6	1863.2
42.5°	4690.5	4701.3	3672.2	2496.9	2031.1	1825.2	1733.2	1673.7	1630.2	1559.9	1570.7
45°	5270.0	5177.9	3786.0	2307.3	1884.8	1679.0	1570.7	1500.3	1440.7	1381.1	1386.6
47.5°	6039.1	5757.5	3910.5	2150.2	1738.7	1559.9	1462.4	1381.1	1310.8	1262.0	1267.4
50°	6987.0	6477.9	4035.2	2004.1	1592.4	1467.8	1381.1	1294.5	1224.0	1175.3	1169.9
52.5°	8238.1	7344.4	4116.4	1841.6	1446.1	1386.6	1310.8	1229.5	1142.9	1083.3	1077.9
55°	9538.0	8351.9	4186.9	1646.5	1305.3	1294.5	1256.6	1164.4	1061.6	985.7	974.9
57.5°	10967.9	9429.7	4240.9	1457.0	1197.1	1218.7	1207.9	1099.4	985.7	915.4	909.9
60°	12267.8	10545.4	4067.6	1289.0	1099.4	1142.9	1153.7	1061.6	1002.0	1018.3	1023.6
62.5°	13578.5	11406.6	3406.8	1164.4	1034.4	1094.1	1186.1	1180.8	1153.7	1180.8	1186.1
65°	14049.7	11585.5	2415.6	1061.6	969.4	1115.7	1289.0	1278.3	1153.7	1104.9	1094.1
67.5°	13784.3	11054.7	1624.9	980.4	920.7	1142.9	1397.4	1278.3	1110.3	1045.3	1023.6
70°	12522.4	9749.3	1191.6	899.1	877.5	1137.4	1457.0	1272.9	1088.7	1018.3	991.2
72.5°	9987.6	7523.1	958.6	823.3	812.5	1110.3	1489.4	1262.0	1067.0	991.2	958.6
75°	6467.0	4679.7	807.0	747.5	715.0	1067.0	1473.3	1229.5	1039.9	942.5	920.7
77.5°	3000.6	2014.8	687.9	660.8	622.9	1002.0	1424.5	1164.4	980.4	888.3	861.2
80°	1397.4	953.3	579.5	574.1	557.9	947.9	1359.5	1088.7	909.9	834.0	790.8
82.5°	747.5	574.1	471.2	471.2	487.6	882.9	1278.3	996.6	817.8	779.9	666.2
85°	395.4	330.4	341.2	368.3	417.1	779.9	1169.9	899.1	715.0	595.8	579.5
87.5°	200.4	211.2	211.2	249.1	319.6	633.7	964.1	742.0	606.6	487.6	476.6
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)