

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: P399658

Luminaire Tested: **ARCH-L-PA3-170-750-U-T4W**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P399658
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-11)
Test Lab: INNOVATION CENTER
Issue Date: 5/19/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-L-PA3-170-750-U-T4W
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 5000K, 750mA LIGHT ENGINES WITH 24 LEDS AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26011 lumens
Efficiency: N/A
Efficacy: 150.4 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G4

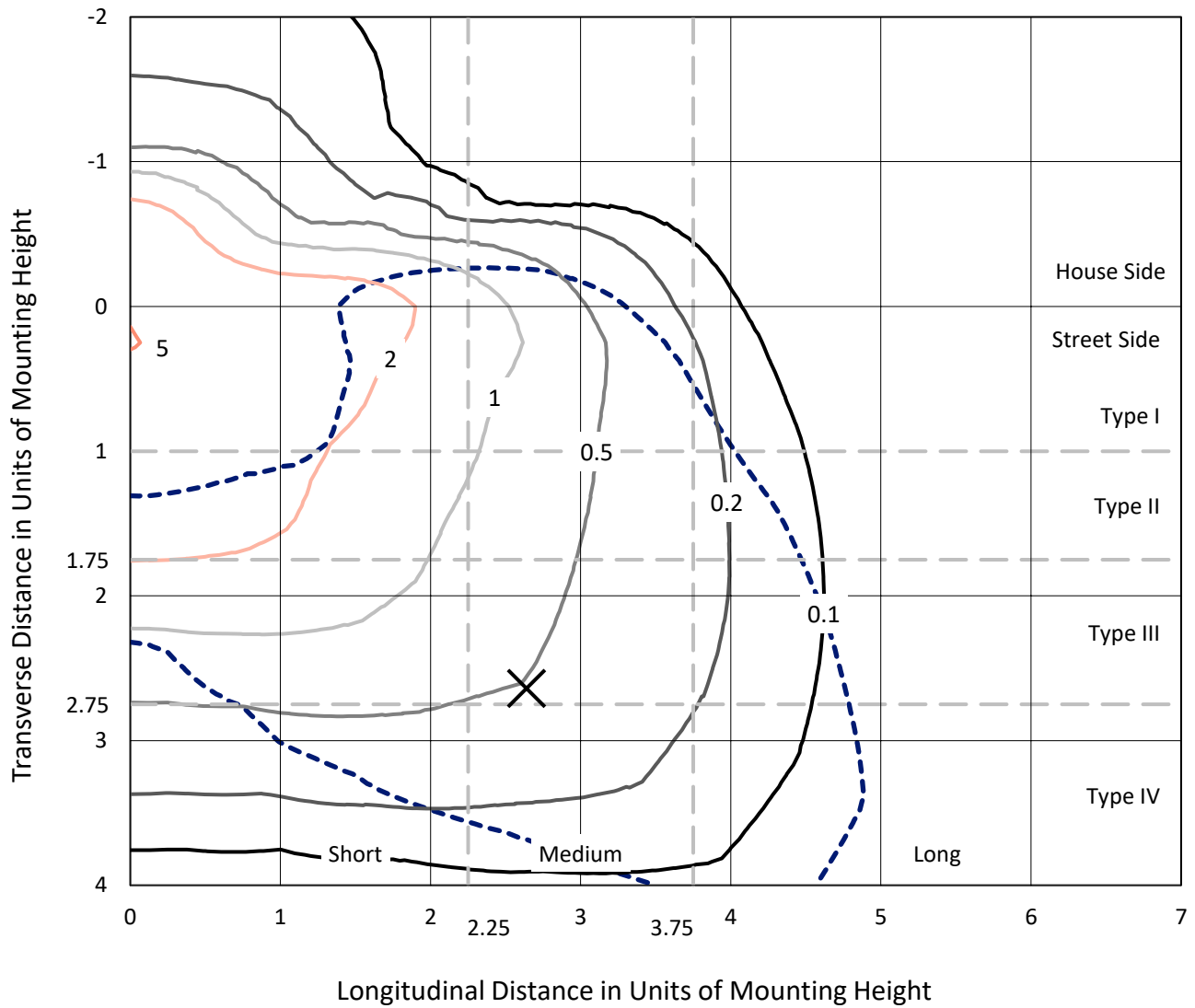
Input Watts (W): 173
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

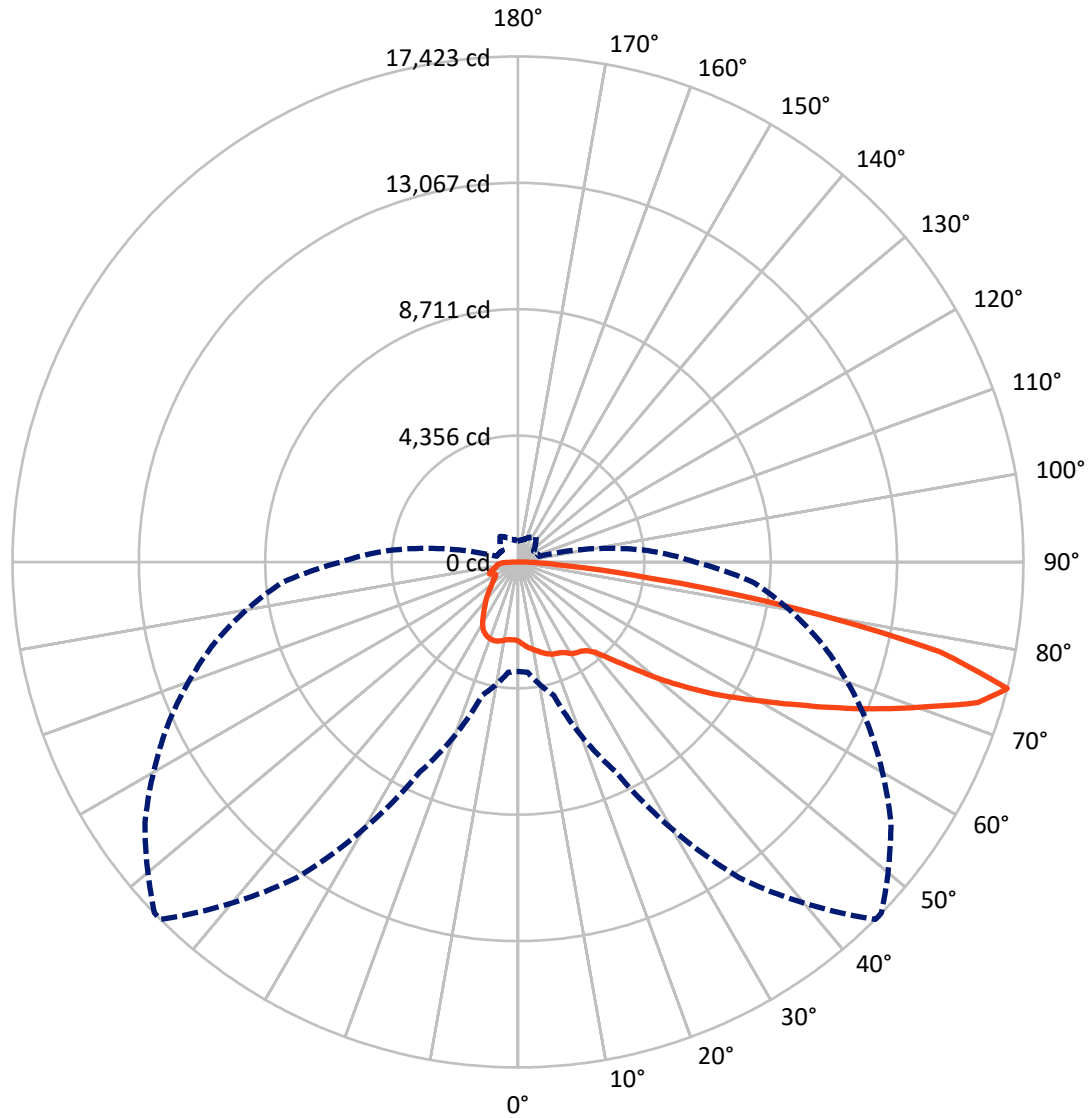
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.1 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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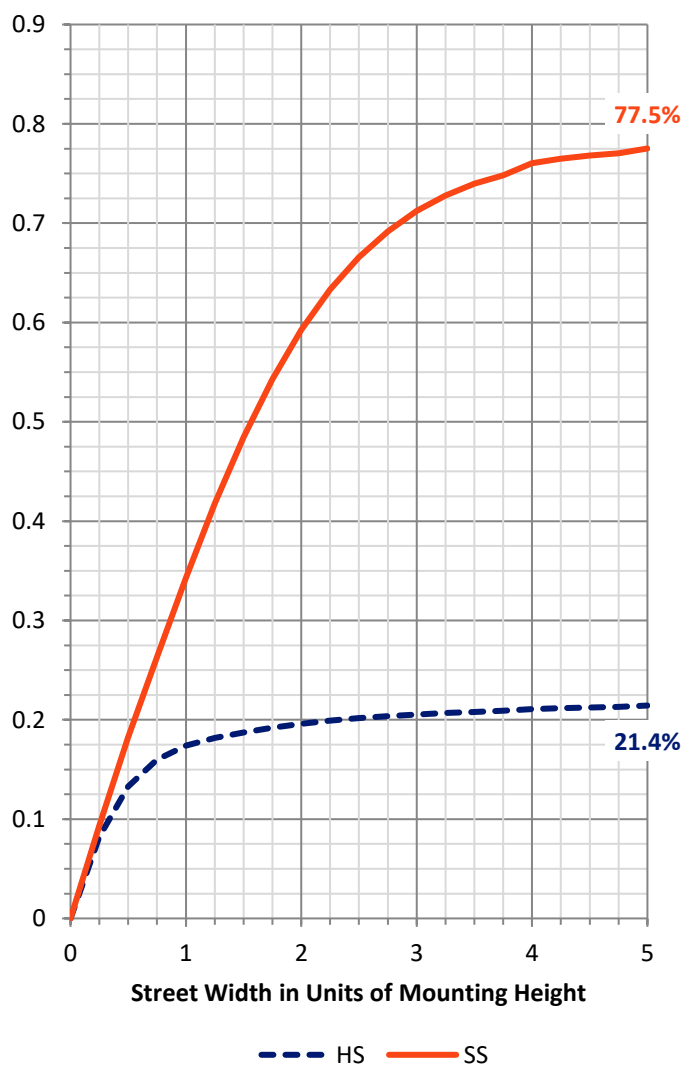
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5748.3	0.0	5748.3
	% Fixture	22.1	0.0	22.1
Street Side	Lumens	20262.7	0.0	20262.7
	% Fixture	77.9	0.0	77.9
Total	Lumens	26011.0	0.0	26011.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	270.2	1.0
10°-20°	859.8	3.3
20°-30°	1465.7	5.6
30°-40°	2053.7	7.9
40°-50°	3017.2	11.6
50°-60°	4801.9	18.5
60°-70°	6830.7	26.3
70°-80°	5719.3	22.0
80°-90°	992.6	3.8
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°	26011.0	100.0
0°-180°	26011.0	100.0

Coefficient of Utilization



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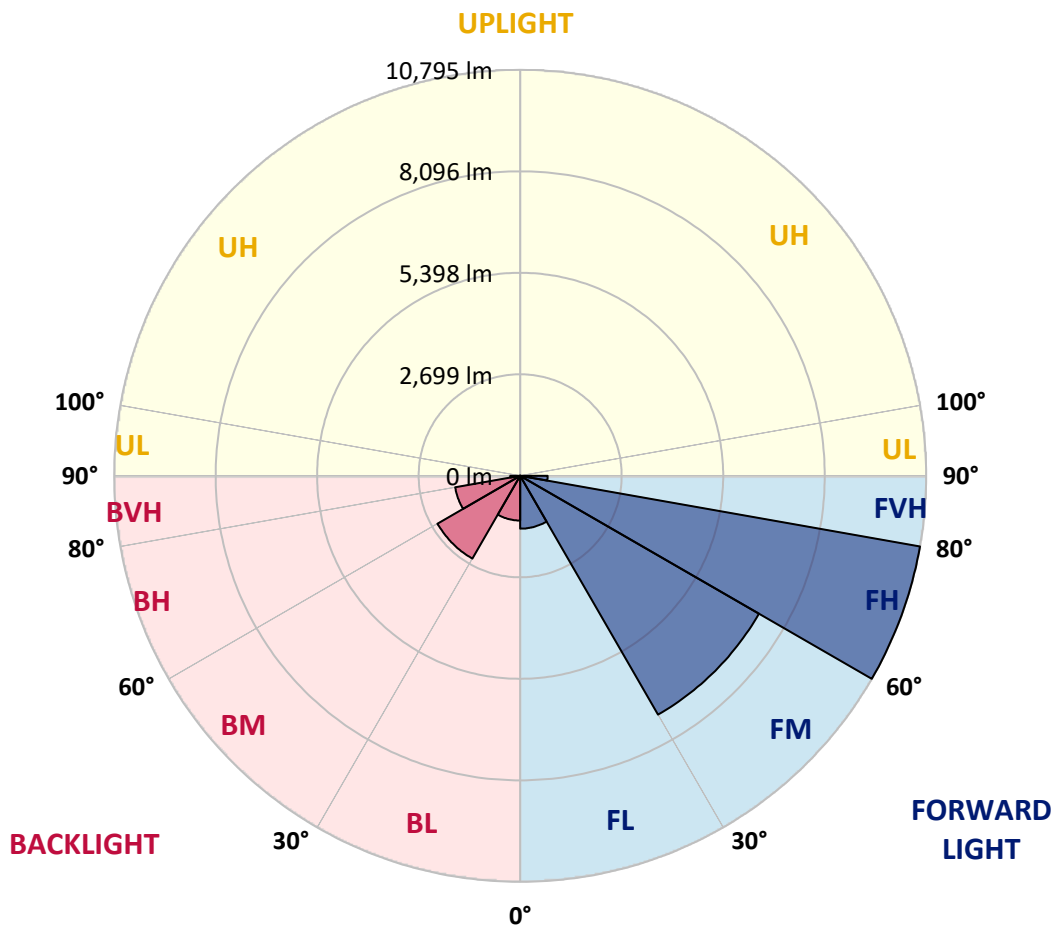
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1406.1	5.4			
FM (30°-60°)	7331.7	28.2			
FH (60°-80°)	10795.2	41.5			G4/12000
FVH (80°-90°)	729.7	2.8			G4/750
BL (0°-30°)	1189.7	4.6	B3/2500		
BM (30°-60°)	2541.0	9.8	B3/5000		
BH (60°-80°)	1754.7	6.7	B3/2500		G3/2500
BVH (80°-90°)	262.9	1.0			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	2731.7	2731.7	2731.7	2731.7	2731.7	2731.7	2731.7	2731.7	2731.7	2731.7	2731.7
2.5°	2888.1	2874.2	2867.3	2867.3	2839.5	2822.1	2818.6	2794.3	2773.4	2752.6	2735.2
5°	3054.9	3044.5	3023.7	3006.3	2968.1	2919.4	2912.4	2860.3	2808.2	2759.5	2717.8
7.5°	3207.9	3187.0	3162.7	3127.9	3065.4	2999.3	2988.9	2915.9	2842.9	2770.0	2714.3
10°	3336.5	3315.6	3280.8	3232.2	3152.3	3072.3	3061.9	2985.4	2909.0	2822.1	2742.2
12.5°	3458.1	3440.7	3388.6	3322.6	3228.7	3155.7	3145.3	3079.3	2999.3	2902.0	2797.8
15°	3562.4	3545.0	3489.4	3412.9	3305.2	3249.6	3235.7	3173.1	3093.2	2988.9	2881.2
17.5°	3614.5	3614.5	3555.4	3472.0	3371.2	3329.5	3319.1	3242.6	3169.6	3068.8	2961.1
20°	3631.9	3638.8	3597.1	3496.3	3409.4	3392.1	3381.6	3319.1	3235.7	3138.4	3037.6
22.5°	3642.3	3656.2	3621.4	3506.8	3433.8	3423.3	3416.4	3374.7	3308.7	3214.8	3114.0
25°	3677.1	3677.1	3652.7	3524.1	3465.0	3461.6	3461.6	3437.2	3392.1	3312.1	3211.3
27.5°	3729.2	3725.7	3694.4	3562.4	3534.6	3545.0	3541.5	3538.0	3506.8	3426.8	3319.1
30°	3816.1	3816.1	3781.3	3638.8	3621.4	3666.6	3670.1	3677.1	3628.4	3503.3	3416.4
32.5°	3948.1	3934.2	3899.5	3715.3	3687.5	3729.2	3736.1	3732.7	3691.0	3572.8	3531.1
35°	4354.8	4323.5	4198.4	3885.6	3746.6	3770.9	3774.4	3791.7	3798.7	3704.9	3684.0
37.5°	5067.2	5025.5	4834.4	4288.7	3934.2	3875.2	3871.7	3916.9	3955.1	3871.7	3871.7
40°	5842.3	5807.5	5696.3	4983.8	4281.8	4087.2	4073.3	4115.0	4163.6	4104.5	4121.9
42.5°	6509.6	6537.4	6547.8	5720.6	4803.1	4483.4	4445.1	4386.1	4462.5	4410.4	4479.9
45°	7010.0	6996.1	7187.3	6474.8	5477.4	4980.4	4928.2	4768.4	4865.7	4862.2	5015.1
47.5°	7541.8	7517.5	7597.4	7183.8	6245.4	5588.6	5508.6	5272.3	5418.3	5519.1	5772.8
50°	8045.7	8052.7	8080.5	7743.4	7079.5	6328.8	6228.1	5911.8	6120.3	6332.3	6690.3
52.5°	8702.6	8653.9	8619.2	8396.8	8014.4	7100.4	7034.4	6672.9	6964.9	7215.1	7691.2
55°	9276.0	9244.8	9223.9	9213.5	8796.4	7951.9	7882.4	7507.0	7927.6	8104.8	8806.9
57.5°	9887.7	9870.4	9981.6	10158.8	9992.0	8817.3	8744.3	8382.8	8852.0	8977.2	10016.3
60°	10336.1	10346.5	10652.3	11104.1	10989.5	9755.7	9668.8	9349.0	9752.2	9863.4	11225.8
62.5°	10339.5	10443.8	11152.8	11962.6	12094.7	10836.5	10735.7	10388.2	10676.7	10676.7	12310.1
65°	9352.5	9470.7	11062.4	12174.6	13213.8	12122.5	12025.1	11479.5	11587.2	11441.3	13328.5
67.5°	8368.9	8508.0	10005.9	12192.0	13999.2	13498.7	13384.1	12570.8	12386.6	12018.2	14040.9
70°	7715.6	7812.9	9064.0	11966.1	14471.9	14937.6	14850.7	13606.5	13015.7	12501.3	13891.5
72.5°	6495.7	6460.9	7656.5	10892.1	14736.0	16571.1	16498.1	14732.5	13561.3	12271.9	11847.9
75°	3770.9	3812.6	4751.0	7979.7	13283.3	17422.6	17415.6	15695.2	13321.5	10840.0	8163.9
77.5°	1087.8	1119.1	1560.5	3506.8	8400.2	14861.1	15337.3	14353.7	11260.5	7726.0	4233.1
80°	476.1	500.5	677.7	1167.8	3618.0	9707.0	10124.1	9707.0	6791.1	3545.0	1661.3
82.5°	281.5	298.9	441.4	722.9	1734.3	4618.9	5181.9	4525.1	2929.8	1504.9	688.1
85°	159.9	166.8	253.7	458.8	1091.3	1616.1	1814.2	1699.5	1428.4	855.0	361.4
87.5°	73.0	76.5	125.1	215.5	611.7	545.6	566.5	750.7	827.2	521.3	180.7
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°	2731.7	2731.7	2731.7	2731.7	2731.7	2731.7	2731.7	2731.7	2731.7	2731.7	2731.7
2.5°	2728.2	2717.8	2697.0	2690.0	2679.6	2683.1	2686.5	2686.5	2690.0	2679.6	2679.6
5°	2700.4	2683.1	2662.2	2662.2	2662.2	2690.0	2714.3	2728.2	2735.2	2735.2	2728.2
7.5°	2690.0	2669.2	2644.8	2651.8	2658.7	2693.5	2738.7	2783.9	2797.8	2797.8	2790.8
10°	2710.9	2690.0	2672.6	2683.1	2700.4	2728.2	2763.0	2804.7	2839.5	2842.9	2839.5
12.5°	2759.5	2735.2	2717.8	2738.7	2759.5	2776.9	2794.3	2811.7	2856.8	2863.8	2863.8
15°	2839.5	2815.1	2794.3	2811.7	2818.6	2818.6	2818.6	2818.6	2863.8	2870.7	2870.7
17.5°	2919.4	2898.5	2877.7	2881.2	2860.3	2832.5	2822.1	2818.6	2842.9	2863.8	2867.3
20°	2995.9	2978.5	2957.6	2922.9	2870.7	2818.6	2801.2	2801.2	2815.1	2846.4	2846.4
22.5°	3079.3	3058.4	3023.7	2943.7	2856.8	2783.9	2766.5	2776.9	2794.3	2836.0	2832.5
25°	3173.1	3145.3	3086.2	2936.8	2811.7	2724.8	2728.2	2759.5	2790.8	2836.0	2836.0
27.5°	3277.4	3239.1	3121.0	2881.2	2710.9	2627.5	2658.7	2731.7	2776.9	2825.6	2832.5
30°	3392.1	3357.3	3148.8	2783.9	2547.5	2471.1	2547.5	2665.7	2735.2	2780.4	2790.8
32.5°	3531.1	3503.3	3173.1	2658.7	2335.5	2269.5	2380.7	2526.7	2637.9	2690.0	2700.4
35°	3704.9	3677.1	3204.4	2516.2	2137.4	2067.9	2168.7	2318.1	2464.1	2530.1	2551.0
37.5°	3930.8	3889.1	3232.2	2363.3	1970.6	1890.7	1939.3	2074.9	2206.9	2297.3	2321.6
40°	4219.2	4153.2	3256.5	2189.5	1824.6	1734.3	1751.6	1817.7	1894.1	1974.1	2005.3
42.5°	4625.9	4493.8	3260.0	2005.3	1675.2	1591.8	1584.8	1605.7	1605.7	1605.7	1616.1
45°	5192.4	4942.1	3266.9	1831.6	1522.3	1435.4	1414.5	1407.6	1355.4	1254.6	1247.7
47.5°	5908.3	5529.5	3298.2	1685.6	1362.4	1285.9	1258.1	1230.3	1133.0	1028.7	1007.9
50°	6825.8	6210.7	3360.8	1546.6	1226.8	1174.7	1140.0	1073.9	966.2	886.2	865.4
52.5°	7882.4	7020.5	3419.9	1400.6	1126.1	1091.3	1049.6	969.7	855.0	806.3	799.4
55°	9095.3	7924.1	3538.0	1272.0	1039.2	1014.8	976.6	900.1	813.3	778.5	775.0
57.5°	10336.1	8935.4	3704.9	1157.3	955.8	941.9	941.9	875.8	820.2	806.3	806.3
60°	11531.6	9804.3	3576.3	1049.6	879.3	886.2	952.3	934.9	893.2	910.6	921.0
62.5°	12459.6	10315.2	2902.0	962.7	823.7	886.2	1056.5	1056.5	1007.9	1000.9	1000.9
65°	12855.8	10308.3	2040.1	896.7	802.8	973.1	1178.2	1122.6	994.0	945.3	934.9
67.5°	12755.0	9856.5	1407.6	851.5	795.9	1063.5	1233.8	1077.4	931.4	889.7	858.4
70°	11868.8	8900.7	1084.3	809.8	785.5	1025.3	1216.4	1025.3	882.8	844.5	816.7
72.5°	9574.9	7138.6	900.1	768.1	743.8	948.8	1157.3	976.6	844.5	802.8	775.0
75°	6106.4	4490.3	761.1	712.5	663.8	851.5	1077.4	928.0	802.8	747.2	726.4
77.5°	2936.8	1935.8	663.8	646.4	597.8	788.9	997.5	865.4	747.2	702.0	688.1
80°	1188.6	886.2	576.9	580.4	549.1	750.7	941.9	806.3	691.6	643.0	618.6
82.5°	618.6	514.4	486.6	500.5	500.5	715.9	900.1	757.7	643.0	622.1	542.2
85°	333.6	319.7	375.4	403.2	434.4	646.4	837.6	705.5	587.4	503.9	486.6
87.5°	163.3	208.5	212.0	243.3	302.4	517.8	705.5	590.8	490.0	406.6	399.7
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)