

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: P399825

Luminaire Tested: **ARCH-L-PA3-190-830-U-T2U**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P399825
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-12)
Test Lab: INNOVATION CENTER
Issue Date: 5/19/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-L-PA3-190-830-U-T2U
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 80 CRI, 3000K, 810mA LIGHT ENGINES WITH 24 LEDS AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21926 lumens
Efficiency: N/A
Efficacy: 116.0 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

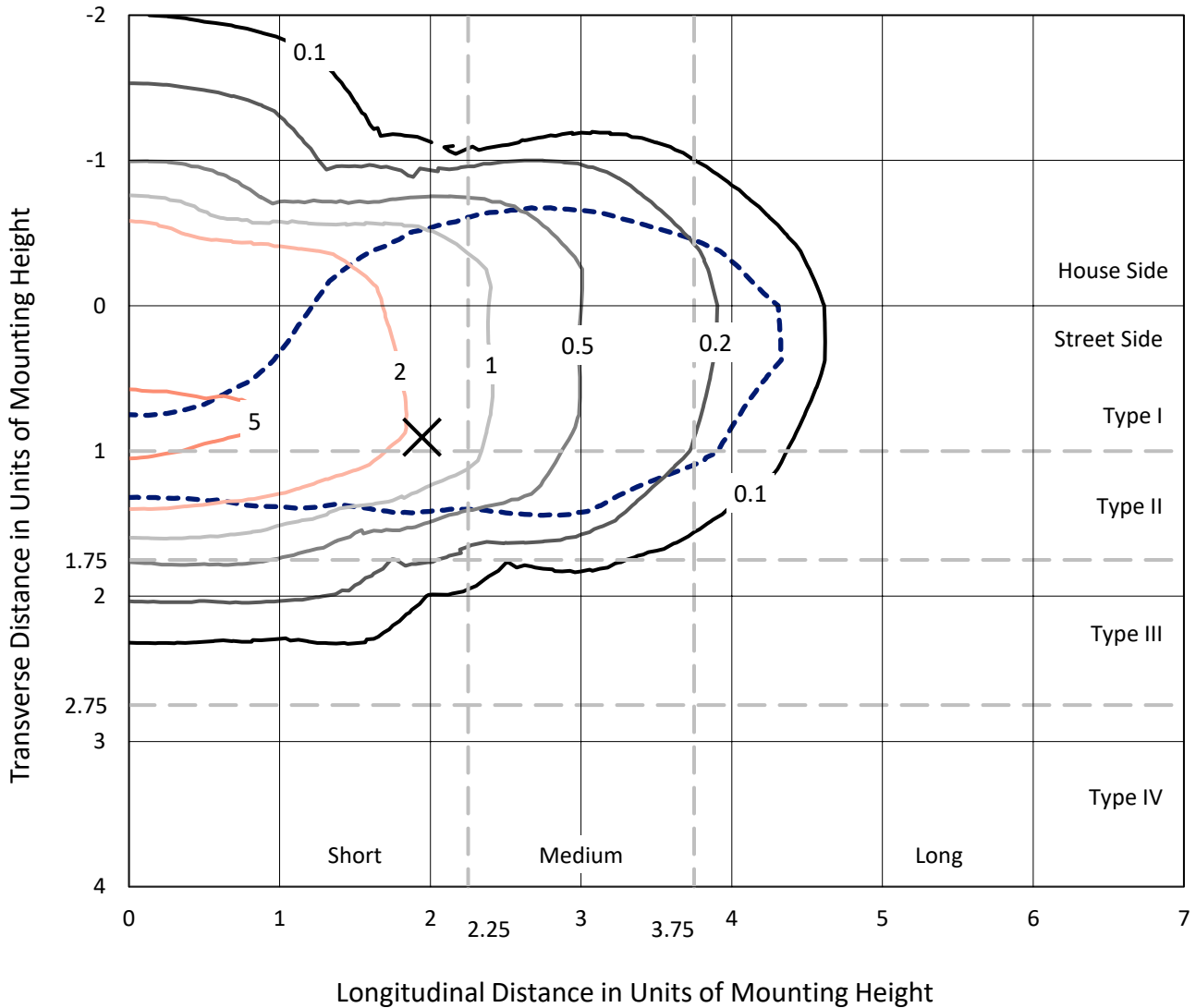
Input Watts (W): 189
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

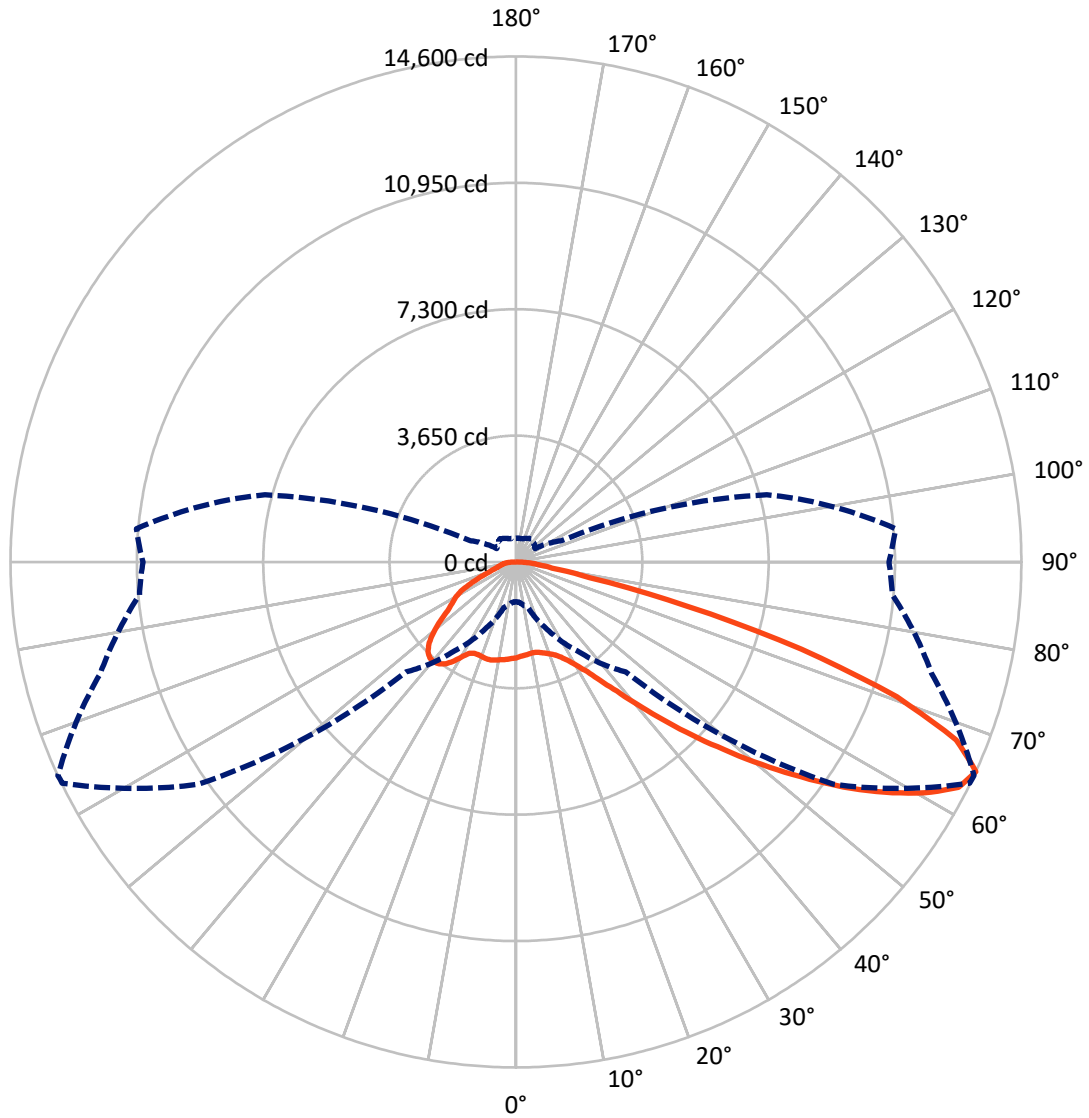
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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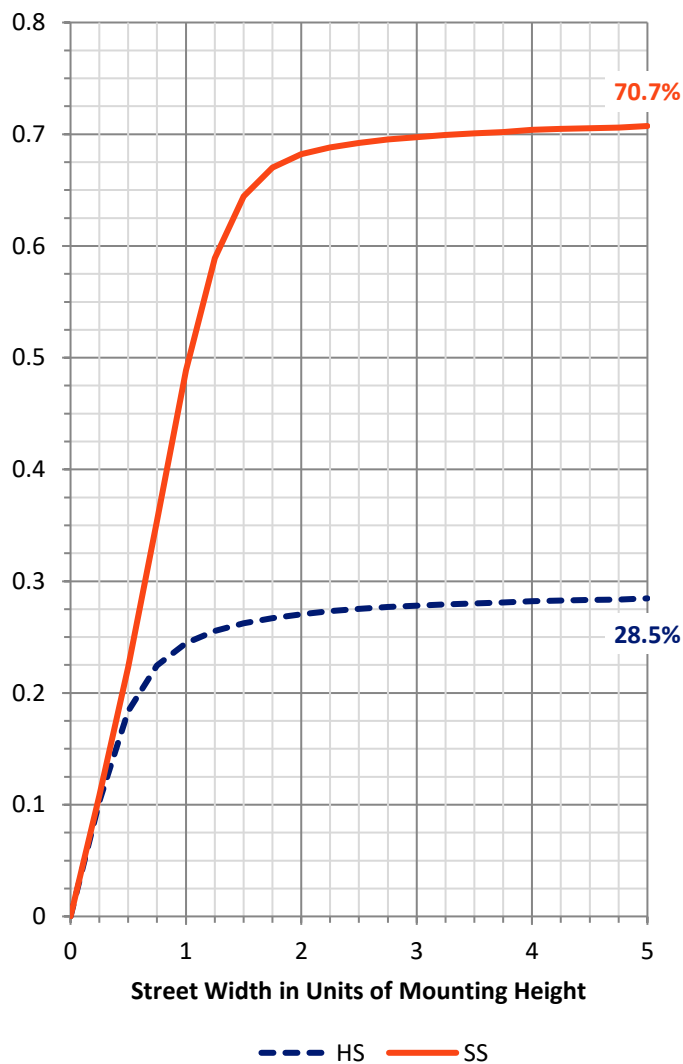
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6339.1	0.0	6339.1
	% Fixture	28.9	0.0	28.9
Street Side	Lumens	15586.9	0.0	15586.9
	% Fixture	71.1	0.0	71.1
Total	Lumens	21926.0	0.0	21926.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	263.9	1.2
10°-20°	788.1	3.6
20°-30°	1399.8	6.4
30°-40°	2368.2	10.8
40°-50°	4122.5	18.8
50°-60°	5327.6	24.3
60°-70°	4662.0	21.3
70°-80°	2535.8	11.6
80°-90°	458.2	2.1
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°	21926.0	100.0
0°-180°	21926.0	100.0

Coefficient of Utilization



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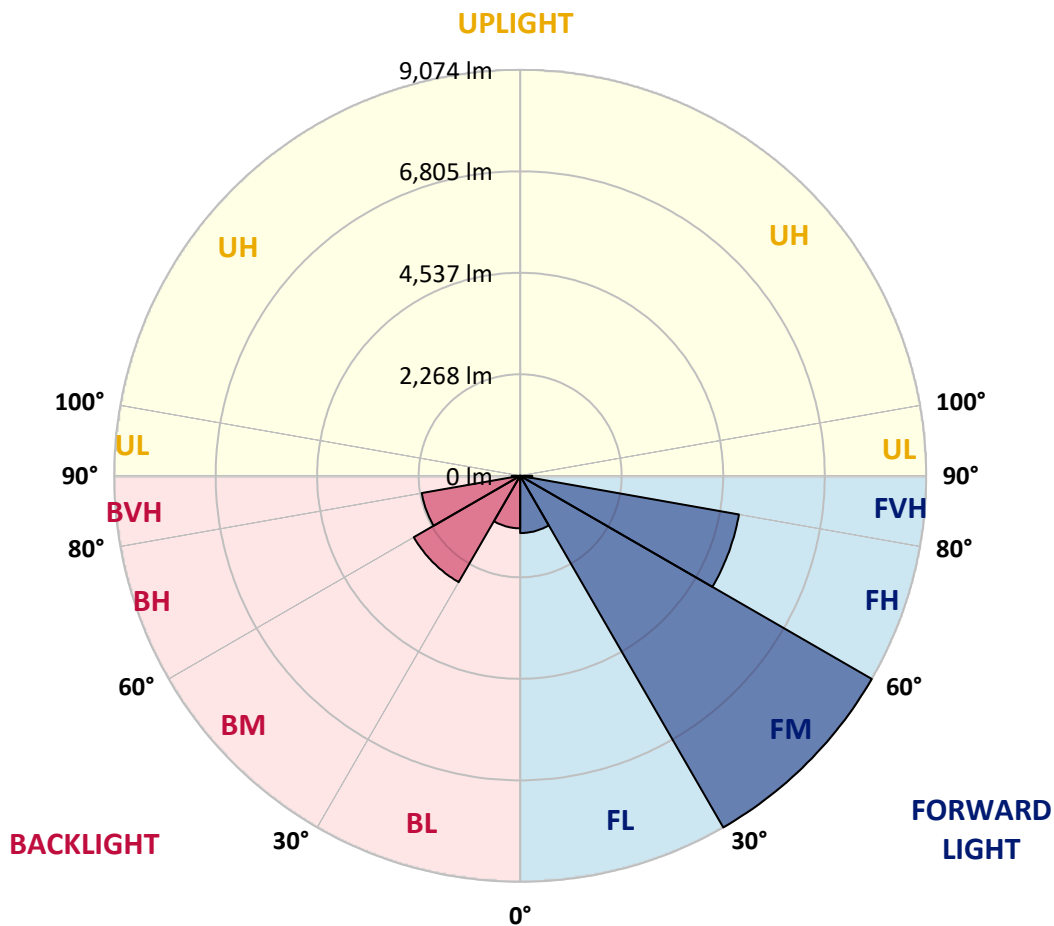
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1279.3	5.8			
FM (30°-60°)	9073.6	41.4			
FH (60°-80°)	4964.4	22.6			G2/5000
FVH (80°-90°)	269.6	1.2			G3/500
BL (0°-30°)	1172.5	5.3	B3/2500		
BM (30°-60°)	2744.7	12.5	B3/5000		
BH (60°-80°)	2233.4	10.2	B3/2500		G3/2500
BVH (80°-90°)	188.6	0.9			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	2770.6	2770.6	2770.6	2770.6	2770.6	2770.6	2770.6	2770.6	2770.6	2770.6	2770.6
2.5°	2721.5	2718.6	2712.8	2718.6	2721.5	2727.3	2724.4	2730.2	2727.3	2735.9	2750.4
5°	2652.2	2646.5	2643.6	2658.0	2666.7	2681.1	2686.9	2707.1	2704.2	2718.6	2741.7
7.5°	2574.3	2574.3	2571.4	2588.7	2600.3	2626.3	2646.5	2681.1	2684.0	2710.0	2735.9
10°	2513.7	2516.6	2513.7	2528.1	2545.5	2577.2	2611.8	2660.9	2663.8	2701.3	2727.3
12.5°	2490.6	2490.6	2490.6	2510.8	2533.9	2577.2	2617.6	2669.6	2675.3	2715.7	2738.8
15°	2522.4	2525.3	2519.5	2539.7	2565.7	2617.6	2655.1	2710.0	2715.7	2753.2	2767.7
17.5°	2634.9	2646.5	2632.0	2643.6	2637.8	2678.2	2712.8	2767.7	2770.6	2802.3	2808.1
20°	2857.1	2868.7	2845.6	2831.2	2779.2	2776.3	2790.8	2834.1	2834.1	2854.3	2839.8
22.5°	3200.6	3212.1	3171.7	3116.9	2992.8	2932.2	2900.4	2920.6	2917.7	2926.4	2888.9
25°	3656.6	3653.7	3604.6	3503.6	3304.5	3157.3	3079.4	3047.6	3047.6	3030.3	2984.1
27.5°	4222.2	4178.9	4092.3	3971.1	3694.1	3489.2	3321.8	3241.0	3226.5	3174.6	3088.0
30°	4825.4	4793.6	4669.6	4493.5	4173.2	3910.5	3633.5	3471.9	3463.2	3350.6	3220.8
32.5°	5535.4	5483.4	5344.9	5134.2	4750.4	4381.0	4034.6	3789.3	3774.9	3596.0	3417.0
35°	6447.3	6404.0	6135.6	5925.0	5431.5	4946.6	4536.8	4210.7	4199.1	3979.8	3751.8
37.5°	7541.1	7428.6	7168.8	6773.4	6254.0	5679.7	5160.2	4750.4	4735.9	4493.5	4204.9
40°	8516.6	8415.6	8184.7	7821.1	7264.1	6626.3	5922.1	5425.7	5411.3	5116.9	4753.2
42.5°	9238.1	9168.8	9018.8	8808.1	8409.8	8023.1	6894.7	6242.4	6216.4	5835.5	5382.4
45°	9656.6	9601.7	9515.1	9567.1	9561.3	9489.2	8054.8	7215.0	7131.3	6637.8	6083.7
47.5°	9555.6	9506.5	9541.1	9945.2	10502.2	10920.6	9405.5	8210.7	8098.1	7454.5	6831.2
50°	8825.4	8845.6	9027.4	9800.9	11050.5	11979.8	10903.3	9344.9	9194.8	8277.1	7541.1
52.5°	7494.9	7544.0	7985.6	9067.8	10989.9	12666.7	12256.8	10516.6	10317.5	9079.4	8187.6
55°	5953.8	6077.9	6649.3	7786.4	10199.1	12715.7	13278.5	11694.1	11474.7	9832.6	8750.4
57.5°	4404.0	4588.7	5249.6	6294.4	8684.0	11939.4	13789.3	12819.6	12554.1	10580.1	9344.9
60°	2793.6	2906.2	3668.1	4900.4	6646.5	10040.4	13722.9	13777.8	13546.9	11324.7	9965.4
62.5°	1783.5	1838.4	2222.2	3494.9	4646.5	7434.3	12998.6	14502.2	14346.3	12002.9	10554.1
65°	1145.7	1168.8	1365.1	2150.1	3163.1	4487.7	11194.8	14580.1	14600.3	12427.1	10917.7
67.5°	932.2	943.7	1015.9	1327.6	2236.7	2479.1	7798.0	13471.9	13717.2	12317.5	10793.6
70°	848.5	862.9	938.0	1059.2	1731.6	1711.4	3774.9	11272.7	11673.9	11685.4	10242.4
72.5°	715.7	735.9	836.9	1001.4	1339.1	1350.6	1598.8	8028.9	8620.5	10444.4	9414.1
75°	597.4	608.9	695.5	883.1	1134.2	1079.4	1122.7	4256.9	5111.1	8375.2	8533.9
77.5°	484.8	496.4	559.9	704.2	1007.2	839.8	883.1	1763.3	2178.9	5685.4	6975.5
80°	346.3	357.9	430.0	548.3	761.9	756.1	655.1	972.6	1056.3	3073.6	4531.0
82.5°	248.2	256.9	326.1	392.5	528.1	759.0	493.5	660.9	692.6	1362.2	1826.8
85°	167.4	167.4	225.1	259.7	340.5	479.1	398.3	447.3	467.5	646.5	493.5
87.5°	72.2	72.2	121.2	132.8	178.9	222.2	297.3	225.1	230.9	349.2	202.0
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°	2770.6	2770.6	2770.6	2770.6	2770.6	2770.6	2770.6	2770.6	2770.6	2770.6	2770.6
2.5°	2759.0	2761.9	2767.7	2785.0	2796.5	2813.9	2822.5	2834.1	2834.1	2828.3	2831.2
5°	2753.2	2761.9	2782.1	2813.9	2834.1	2865.8	2888.9	2906.2	2912.0	2906.2	2909.1
7.5°	2750.4	2764.8	2799.4	2845.6	2874.5	2914.9	2946.6	2966.8	2981.2	2975.5	2978.4
10°	2741.7	2764.8	2808.1	2865.8	2909.1	2949.5	2978.4	2987.0	2995.7	2989.9	2987.0
12.5°	2753.2	2779.2	2825.4	2894.7	2943.7	2975.5	2984.1	2969.7	2949.5	2937.9	2935.1
15°	2776.3	2802.3	2848.5	2920.6	2963.9	2975.5	2955.3	2909.1	2862.9	2836.9	2834.1
17.5°	2808.1	2825.4	2862.9	2926.4	2961.0	2946.6	2906.2	2851.4	2816.7	2796.5	2799.4
20°	2828.3	2828.3	2857.1	2906.2	2935.1	2923.5	2874.5	2813.9	2759.0	2733.0	2724.4
22.5°	2857.1	2842.7	2845.6	2888.9	2929.3	2912.0	2808.1	2701.3	2623.4	2594.5	2591.6
25°	2935.1	2894.7	2868.7	2894.7	2989.9	2848.5	2640.7	2516.6	2444.4	2418.5	2421.4
27.5°	3030.3	2975.5	2920.6	2963.9	3039.0	2704.2	2427.1	2285.7	2242.4	2222.2	2230.9
30°	3125.5	3053.4	2981.2	3137.1	3004.3	2479.1	2153.0	2014.4	1976.9	1962.5	1974.0
32.5°	3301.6	3183.3	3096.7	3368.0	2897.5	2222.2	1855.7	1728.7	1694.1	1676.8	1671.0
35°	3596.0	3445.9	3359.3	3570.0	2747.5	1936.5	1584.4	1494.9	1457.4	1419.9	1414.1
37.5°	4020.2	3838.4	3760.5	3685.4	2536.8	1653.7	1376.6	1316.0	1261.2	1203.5	1200.6
40°	4528.1	4291.5	4233.8	3737.4	2245.3	1388.2	1232.3	1174.6	1105.3	1050.5	1053.4
42.5°	5114.0	4811.0	4686.9	3722.9	1884.6	1246.8	1128.4	1064.9	1004.3	955.3	952.4
45°	5740.3	5396.8	5111.1	3621.9	1526.7	1148.6	1064.9	989.9	929.3	874.5	868.7
47.5°	6432.9	6049.1	5503.6	3425.7	1261.2	1079.4	1027.4	920.6	865.8	831.2	831.2
50°	7131.3	6672.4	5864.4	3128.4	1105.3	1027.4	972.6	883.1	839.8	811.0	811.0
52.5°	7728.7	7321.8	6161.6	2773.4	1007.2	984.1	935.1	865.8	819.6	793.7	790.8
55°	8308.8	7925.0	6427.1	2421.4	926.4	926.4	926.4	851.4	799.4	776.3	773.4
57.5°	8886.0	8559.9	6704.2	2190.5	854.3	877.3	909.1	834.1	782.1	761.9	759.0
60°	9538.2	9321.8	7024.5	2028.9	790.8	825.4	886.0	813.9	753.2	735.9	733.0
62.5°	10230.9	10230.9	7316.0	1800.9	733.0	782.1	851.4	787.9	727.3	712.8	710.0
65°	10773.4	11007.2	7503.6	1460.3	675.3	738.8	811.0	753.2	692.6	689.8	684.0
67.5°	10836.9	11203.5	7385.3	1102.5	623.4	692.6	770.6	715.7	658.0	658.0	649.4
70°	10380.9	10753.2	7015.9	825.4	585.9	646.5	718.6	669.6	614.7	620.5	606.1
72.5°	9619.0	9711.4	6098.1	652.2	542.6	597.4	655.1	617.6	568.5	568.5	548.3
75°	8614.7	8101.0	4430.0	545.5	490.6	539.7	591.6	559.9	516.6	502.2	490.6
77.5°	6857.1	5870.1	2574.3	470.4	447.3	484.8	519.5	496.4	458.9	427.1	427.1
80°	4178.9	3440.1	1137.1	406.9	395.4	424.2	447.3	421.4	389.6	357.9	349.2
82.5°	1590.2	1327.6	551.2	349.2	346.3	363.6	381.0	355.0	331.9	317.5	274.2
85°	435.8	401.2	378.1	291.5	285.7	282.8	303.0	291.5	259.7	213.6	190.5
87.5°	164.5	187.6	204.9	178.9	190.5	176.0	202.0	184.7	164.5	106.8	95.2
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)