

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: P400070

Luminaire Tested: **ARCH-L-PA3-230-730-U-T3**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P400070
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-10)
Test Lab: INNOVATION CENTER
Issue Date: 5/19/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-L-PA3-230-730-U-T3
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 3000K, 980mA LIGHT ENGINES WITH 24 LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28896 lumens
Efficiency: N/A
Efficacy: 126.2 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

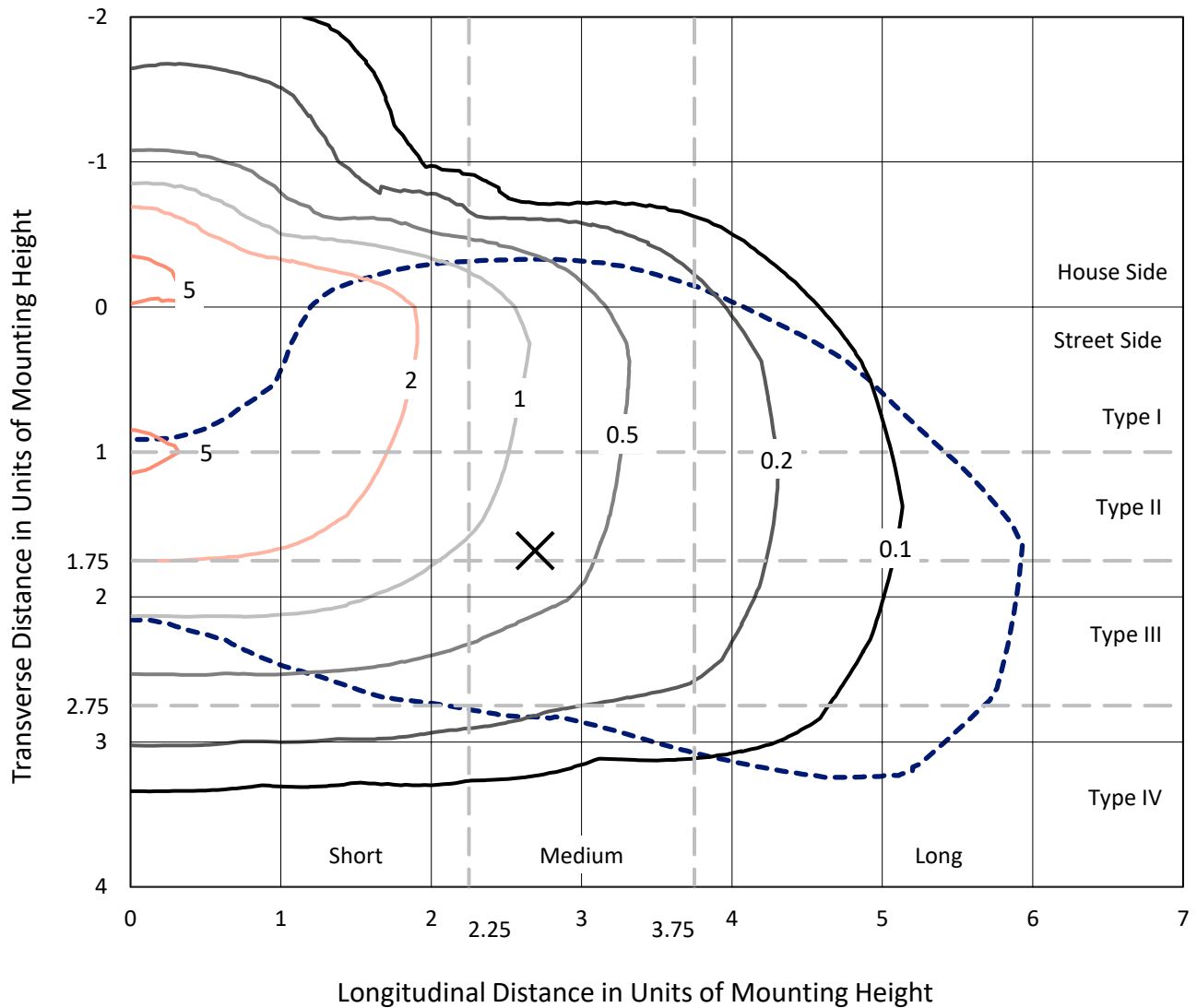
Input Watts (W): 229
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

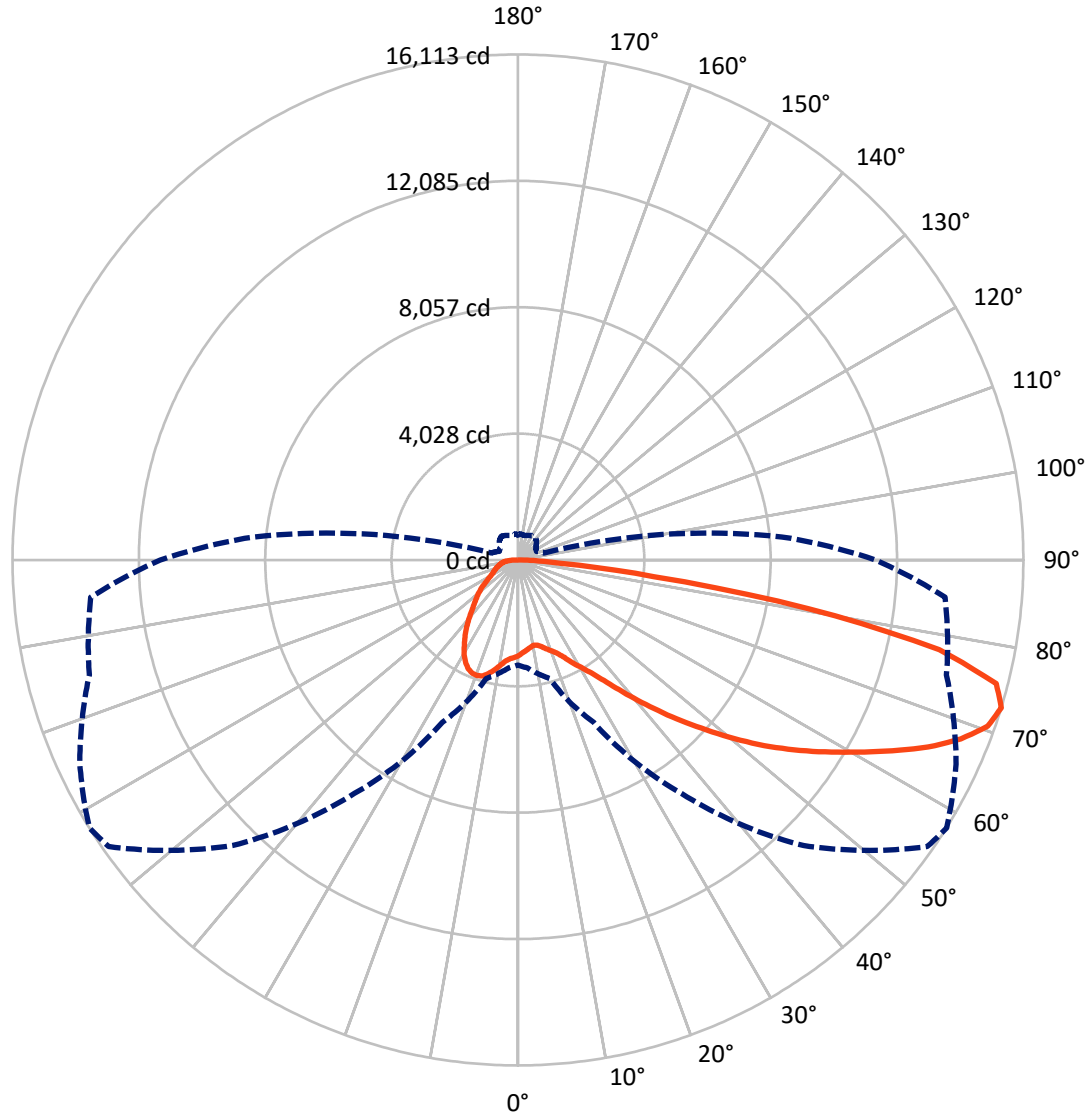
✕ Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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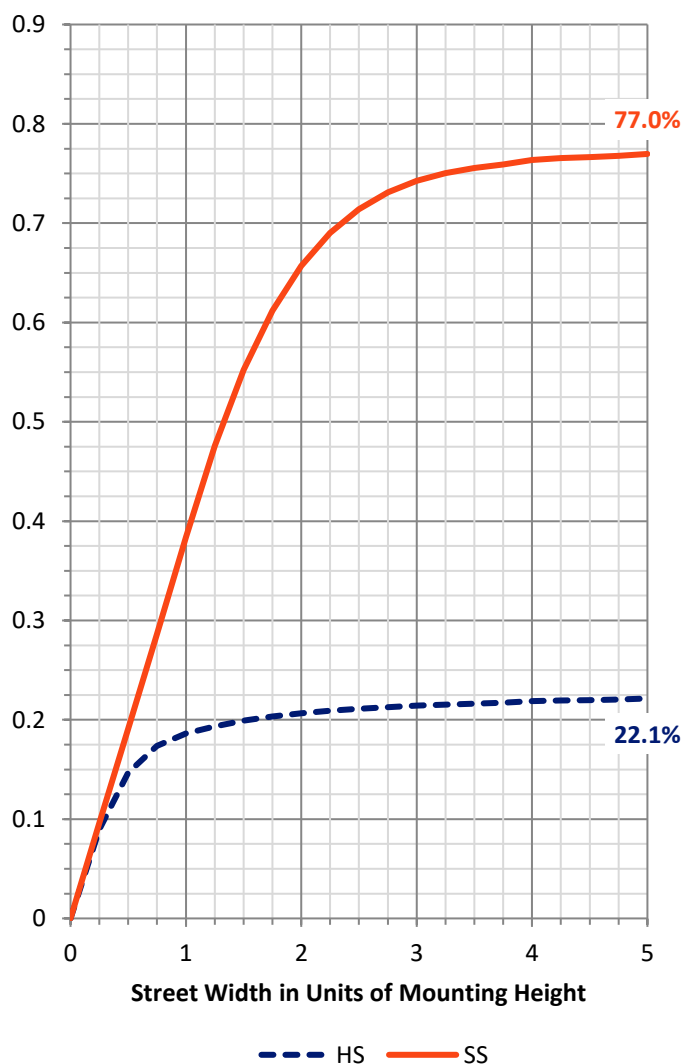
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6553.3	0.0	6553.3
	% Fixture	22.7	0.0	22.7
Street Side	Lumens	22342.7	0.0	22342.7
	% Fixture	77.3	0.0	77.3
Total	Lumens	28896.0	0.0	28896.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	293.6	1.0
10°-20°	932.4	3.2
20°-30°	1670.3	5.8
30°-40°	2512.6	8.7
40°-50°	4068.8	14.1
50°-60°	6124.8	21.2
60°-70°	7208.2	24.9
70°-80°	5111.3	17.7
80°-90°	974.0	3.4
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°	28896.0	100.0
0°-180°	28896.0	100.0

Coefficient of Utilization

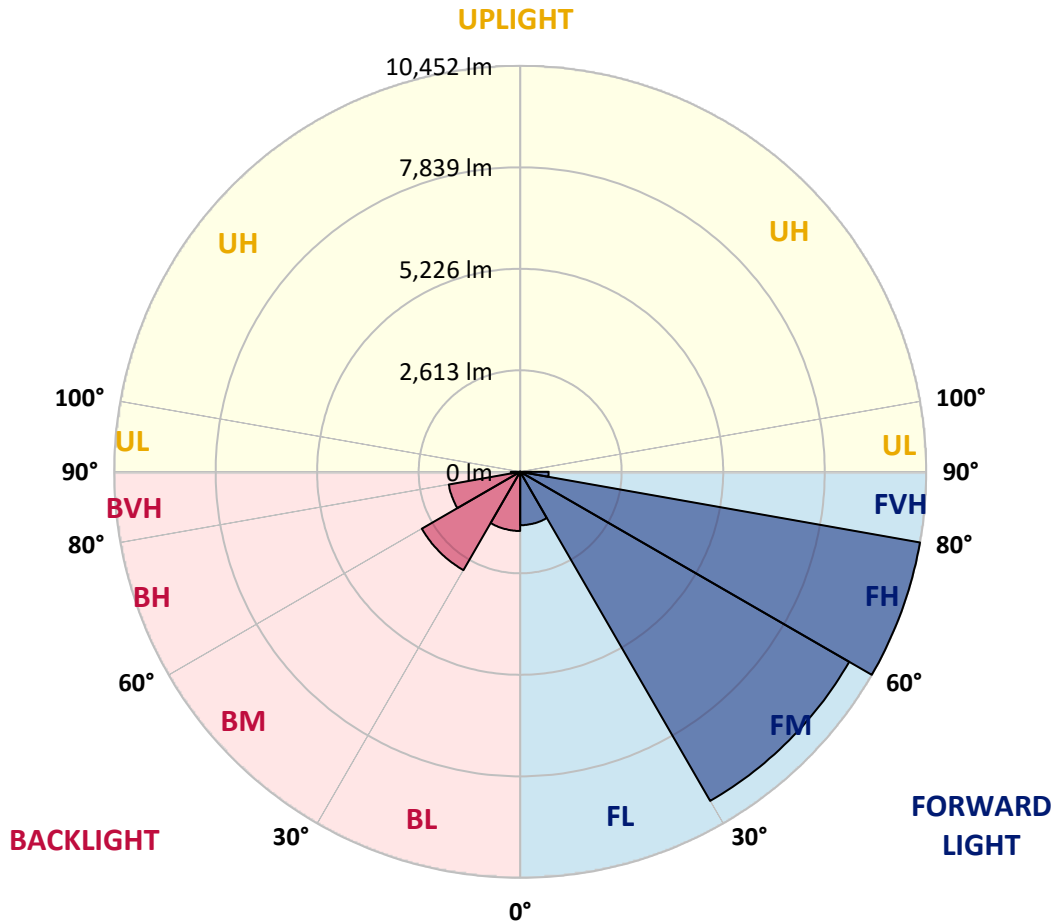


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1374.1	4.8			
FM (30°-60°)	9782.1	33.9			
FH (60°-80°)	10451.8	36.2			G4/12000
FVH (80°-90°)	734.7	2.5			G4/750
BL (0°-30°)	1522.2	5.3	B3/2500		
BM (30°-60°)	2924.0	10.1	B3/5000		
BH (60°-80°)	1867.7	6.5	B3/2500		G3/2500
BVH (80°-90°)	239.3	0.8			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°	55°	58°	65°	75°	85°
0°	3047.9	3047.9	3047.9	3047.9	3047.9	3047.9	3047.9	3047.9	3047.9	3047.9	3047.9
2.5°	2933.5	2918.2	2922.0	2922.0	2937.3	2944.9	2948.7	2960.2	2967.8	2986.9	3013.6
5°	2796.1	2784.7	2788.5	2792.3	2819.0	2845.7	2868.6	2883.9	2906.8	2937.3	2975.4
7.5°	2697.0	2689.3	2693.2	2700.8	2723.7	2754.2	2792.3	2815.2	2849.6	2906.8	2971.6
10°	2624.5	2624.5	2628.3	2643.6	2666.4	2704.6	2735.1	2761.8	2830.5	2933.5	3032.7
12.5°	2567.3	2567.3	2578.7	2609.2	2647.4	2685.5	2758.0	2788.5	2880.1	3021.2	3139.5
15°	2563.5	2567.3	2571.1	2597.8	2639.7	2723.7	2830.5	2876.3	2986.9	3154.7	3292.1
17.5°	2624.5	2628.3	2613.0	2620.7	2670.3	2788.5	2929.7	2983.1	3124.2	3307.3	3448.5
20°	2811.4	2811.4	2765.6	2723.7	2758.0	2887.7	3047.9	3101.3	3257.7	3459.9	3601.0
22.5°	3192.9	3211.9	3105.1	3013.6	2960.2	3032.7	3177.6	3234.8	3410.3	3627.7	3768.9
25°	3654.4	3673.5	3528.6	3398.9	3299.7	3288.2	3383.6	3444.6	3589.6	3814.7	3932.9
27.5°	4100.8	4066.4	3932.9	3810.8	3685.0	3582.0	3654.4	3707.8	3875.7	4047.4	4119.8
30°	4451.7	4425.0	4295.3	4207.6	4089.3	3955.8	3913.8	3971.1	4108.4	4268.6	4306.8
32.5°	4840.8	4821.7	4692.0	4577.6	4478.4	4352.5	4261.0	4287.7	4364.0	4478.4	4501.3
35°	5336.7	5378.7	5241.3	5008.6	4898.0	4776.0	4711.1	4718.7	4776.0	4848.4	4810.3
37.5°	5859.3	5908.9	5916.5	5550.3	5401.6	5290.9	5222.3	5249.0	5317.6	5367.2	5249.0
40°	6828.2	6778.7	6580.3	6309.4	6080.6	5973.8	5878.4	5874.6	5924.2	6011.9	5798.3
42.5°	8113.8	8068.0	7667.5	7316.5	6954.1	6832.1	6645.1	6565.0	6587.9	6698.5	6401.0
45°	9345.9	9326.8	9006.4	8598.2	8163.4	7926.9	7499.6	7305.1	7286.0	7373.7	7019.0
47.5°	10440.7	10356.8	10124.1	9807.5	9761.7	9143.7	8357.9	8094.7	8003.2	8052.7	7656.0
50°	11611.8	11325.7	11005.3	10810.7	11142.6	10566.6	9223.8	8949.2	8724.1	8758.5	8346.5
52.5°	12233.6	11753.0	11543.2	11600.4	12046.7	11825.4	10166.1	9830.4	9468.0	9517.6	9033.1
55°	11699.6	11695.7	11787.3	12142.1	12763.9	12508.3	11062.5	10684.9	10288.1	10299.6	9822.8
57.5°	10967.1	11115.9	11588.9	12370.9	13652.7	13225.4	11943.7	11543.2	11180.8	11123.5	10719.2
60°	10299.6	10463.6	11150.3	12332.8	13961.7	13881.5	12782.9	12432.0	12138.2	11970.4	11661.4
62.5°	9284.9	9407.0	10379.7	12088.7	13702.3	14354.6	13633.6	13393.3	13172.0	12824.9	12676.1
65°	8090.9	8132.9	9159.0	11283.8	13378.0	14537.7	14480.5	14373.6	14160.0	13648.9	13679.4
67.5°	6797.7	6881.6	7781.9	9998.2	12668.5	14453.7	15136.6	15224.3	14972.5	14205.8	14320.2
70°	5420.6	5523.6	6206.5	8220.6	11463.1	14091.4	15743.1	15884.2	15399.8	14388.9	14438.5
72.5°	3353.1	3452.3	3910.0	5710.5	9086.5	12874.5	15930.0	16113.1	15411.2	14144.8	13667.9
75°	1159.7	1171.1	1529.7	2738.9	5393.9	9719.8	15319.7	15750.7	14926.8	13255.9	11894.1
77.5°	530.2	549.3	679.0	1129.1	2391.8	5245.2	12649.4	13729.0	13454.3	11867.4	9155.2
80°	366.2	373.8	469.2	675.2	1380.9	1846.3	7984.1	9391.7	9872.3	9189.5	5866.9
82.5°	274.7	282.3	362.4	457.8	995.6	896.4	3040.3	4364.0	5424.4	5325.3	2452.8
85°	263.2	259.4	282.3	305.2	663.8	534.1	984.2	1350.4	2117.1	1812.0	618.0
87.5°	114.4	125.9	289.9	171.7	347.1	248.0	427.2	499.7	644.7	560.8	221.3
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°	3047.9	3047.9	3047.9	3047.9	3047.9	3047.9	3047.9	3047.9	3047.9	3047.9	3047.9
2.5°	3025.0	3032.7	3055.5	3089.9	3108.9	3147.1	3173.8	3189.1	3200.5	3204.3	3204.3
5°	2998.3	3013.6	3063.2	3120.4	3173.8	3253.9	3326.4	3368.3	3398.9	3410.3	3414.1
7.5°	3006.0	3044.1	3116.6	3200.5	3269.2	3372.2	3459.9	3543.8	3612.5	3639.2	3639.2
10°	3078.4	3131.8	3231.0	3341.6	3429.4	3536.2	3627.7	3700.2	3780.3	3826.1	3833.7
12.5°	3189.1	3253.9	3383.6	3505.7	3604.9	3688.8	3772.7	3826.1	3864.3	3898.6	3906.2
15°	3345.5	3425.6	3555.3	3681.1	3768.9	3822.3	3845.2	3845.2	3841.4	3845.2	3852.8
17.5°	3501.9	3578.2	3707.8	3833.7	3875.7	3845.2	3818.5	3810.8	3807.0	3799.4	3803.2
20°	3654.4	3726.9	3837.5	3932.9	3898.6	3791.8	3757.4	3753.6	3742.2	3734.6	3726.9
22.5°	3807.0	3860.4	3952.0	3986.3	3849.0	3696.4	3654.4	3631.6	3616.3	3597.2	3578.2
25°	3982.5	3997.8	4066.4	4013.0	3726.9	3520.9	3459.9	3425.6	3410.3	3391.2	3376.0
27.5°	4146.5	4146.5	4158.0	3971.1	3547.6	3288.2	3196.7	3135.7	3131.8	3128.0	3124.2
30°	4295.3	4276.2	4238.1	3845.2	3314.9	3002.1	2864.8	2803.8	2826.7	2845.7	2849.6
32.5°	4470.8	4432.6	4325.8	3673.5	3036.5	2681.7	2513.9	2487.2	2513.9	2536.7	2521.5
35°	4745.4	4676.8	4417.4	3475.2	2769.4	2388.0	2227.8	2189.6	2182.0	2178.2	2147.7
37.5°	5138.3	5020.1	4489.9	3261.5	2506.2	2128.6	2010.3	1930.2	1857.7	1781.4	1770.0
40°	5619.0	5416.8	4539.4	3017.4	2227.8	1911.1	1785.3	1682.3	1560.2	1426.7	1411.4
42.5°	6145.4	5844.1	4562.3	2746.6	1983.6	1731.9	1575.5	1445.8	1308.4	1205.4	1186.4
45°	6713.8	6305.6	4543.3	2487.2	1785.3	1579.3	1403.8	1262.7	1152.0	1079.5	1064.3
47.5°	7266.9	6835.9	4489.9	2281.2	1632.7	1449.6	1270.3	1140.6	1056.7	976.6	957.5
50°	7976.5	7343.2	4425.0	2121.0	1464.8	1319.9	1186.4	1049.0	953.7	915.5	907.9
52.5°	8762.3	7850.6	4348.7	1918.8	1300.8	1216.9	1133.0	1010.9	980.4	907.9	896.4
55°	9612.9	8453.3	4333.5	1663.2	1155.8	1144.4	1079.5	1045.2	1052.8	907.9	888.8
57.5°	10509.4	9098.0	4367.8	1407.6	1037.6	1079.5	1102.4	1075.7	1064.3	927.0	888.8
60°	11444.0	9719.8	4264.8	1171.1	946.0	1026.1	1129.1	1060.5	976.6	919.3	892.6
62.5°	12351.9	10242.4	3818.5	1003.3	877.4	1010.9	1113.9	1003.3	907.9	907.9	896.4
65°	13011.8	10475.1	2986.9	881.2	831.6	991.8	1087.2	965.1	888.8	915.5	900.3
67.5°	13088.1	10234.7	2006.5	785.8	793.4	957.5	1026.1	930.8	869.7	938.4	915.5
70°	12618.9	9609.1	1228.3	713.3	743.9	896.4	972.7	896.4	843.0	919.3	885.0
72.5°	11402.0	8441.8	865.9	652.3	690.5	839.2	923.1	865.9	804.9	831.6	797.3
75°	9353.5	6542.1	686.6	595.1	637.0	785.8	881.2	820.2	759.1	747.7	724.8
77.5°	6626.1	4192.3	553.1	549.3	579.8	721.0	824.0	766.7	705.7	682.8	667.6
80°	3810.8	2056.1	476.8	495.9	526.4	656.1	755.3	705.7	648.5	614.2	591.3
82.5°	1457.2	717.2	419.6	431.1	465.4	587.5	686.6	644.7	587.5	618.0	518.8
85°	473.0	392.9	343.3	354.8	389.1	488.3	606.5	572.2	507.3	450.1	415.8
87.5°	209.8	213.6	183.1	202.2	244.1	324.2	442.5	419.6	370.0	309.0	297.5
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)