

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: P400142

Luminaire Tested: **ARCH-L-PA3-240-730-U-T3**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P400142
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-PA3-240-730-U-T3
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 3000K, 1030mA LIGHT ENGINES WITH 24 LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29874 lumens
Efficiency: N/A
Efficacy: 123.4 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G5

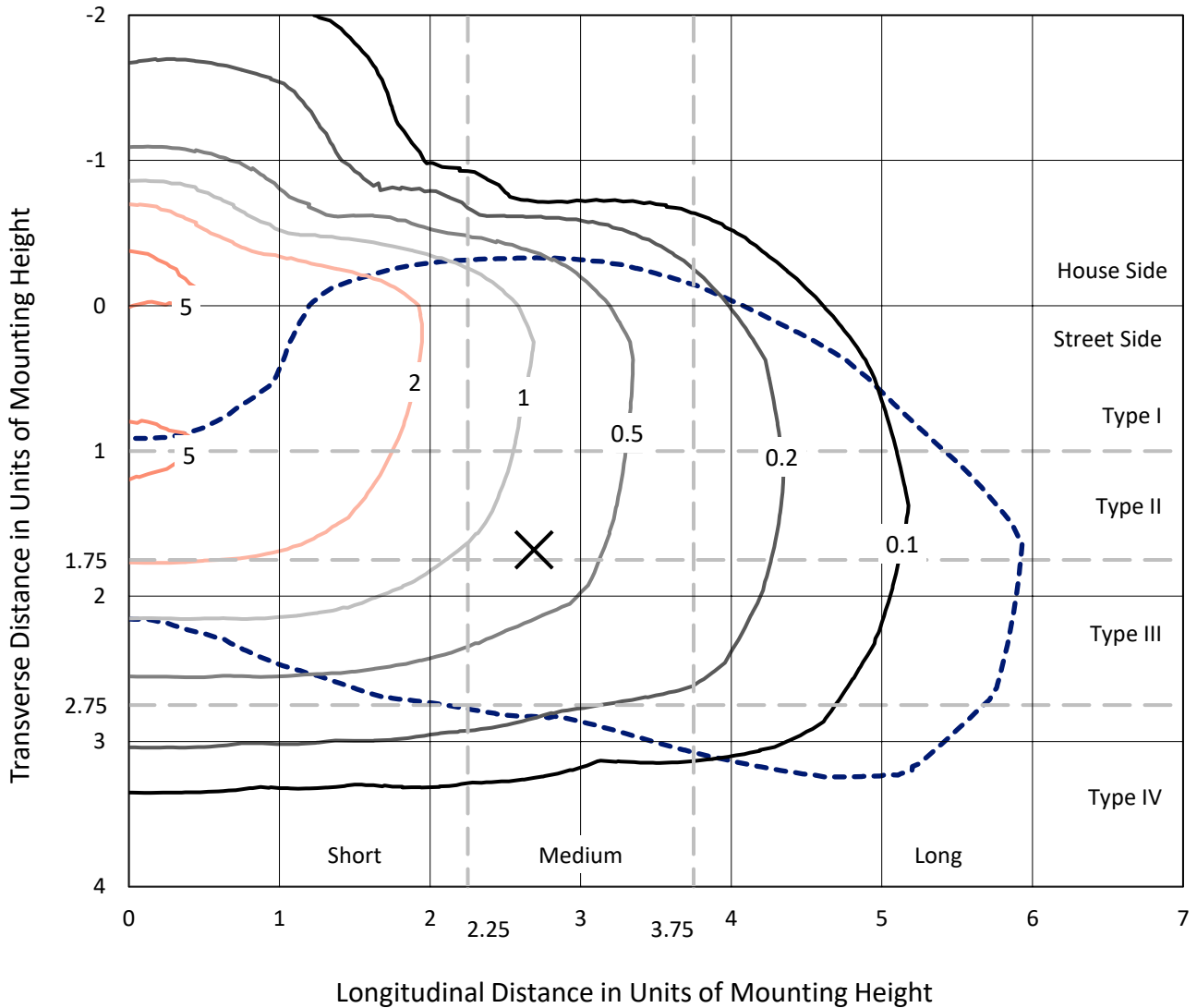
Input Watts (W): 242
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

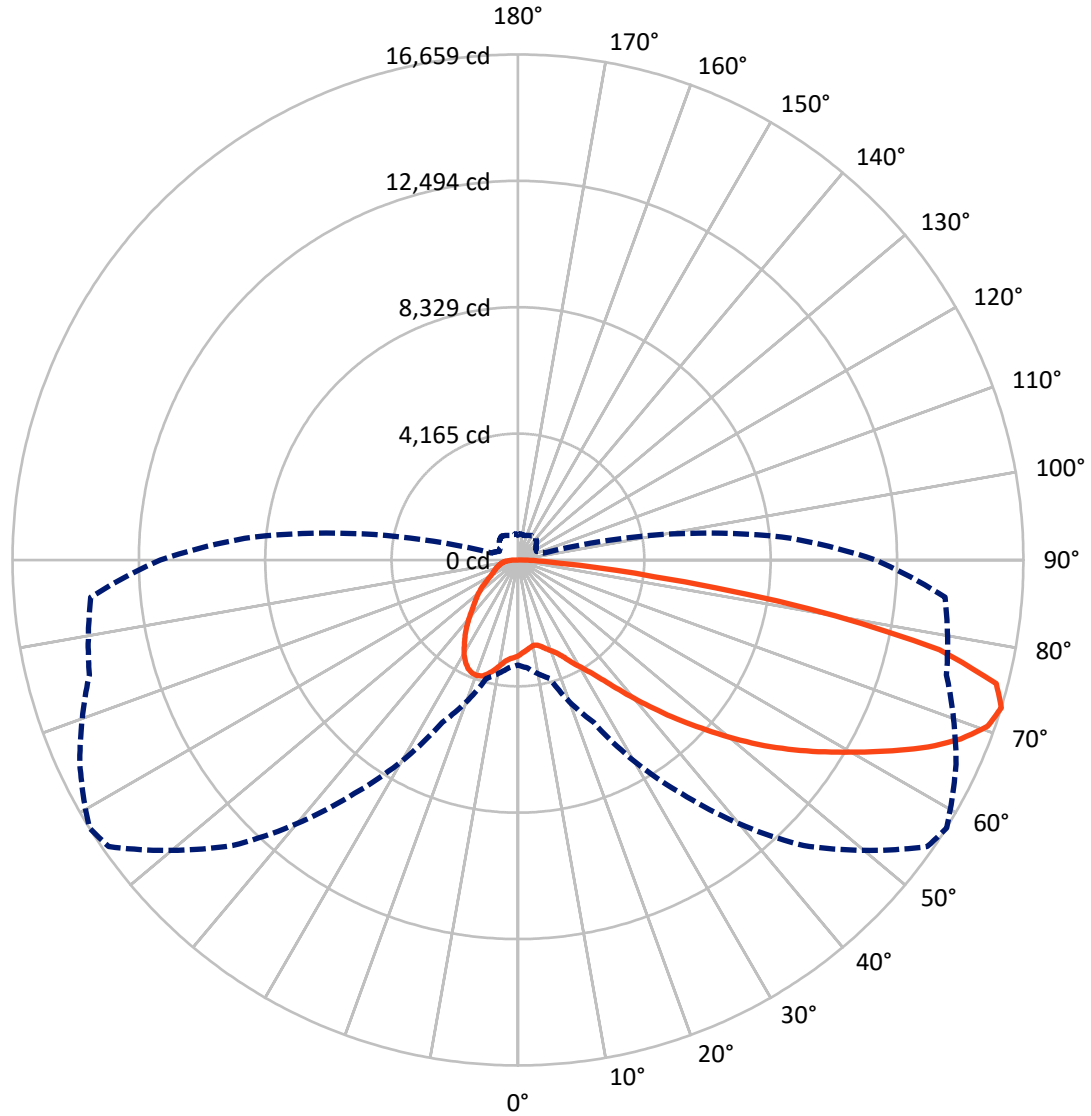
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.9 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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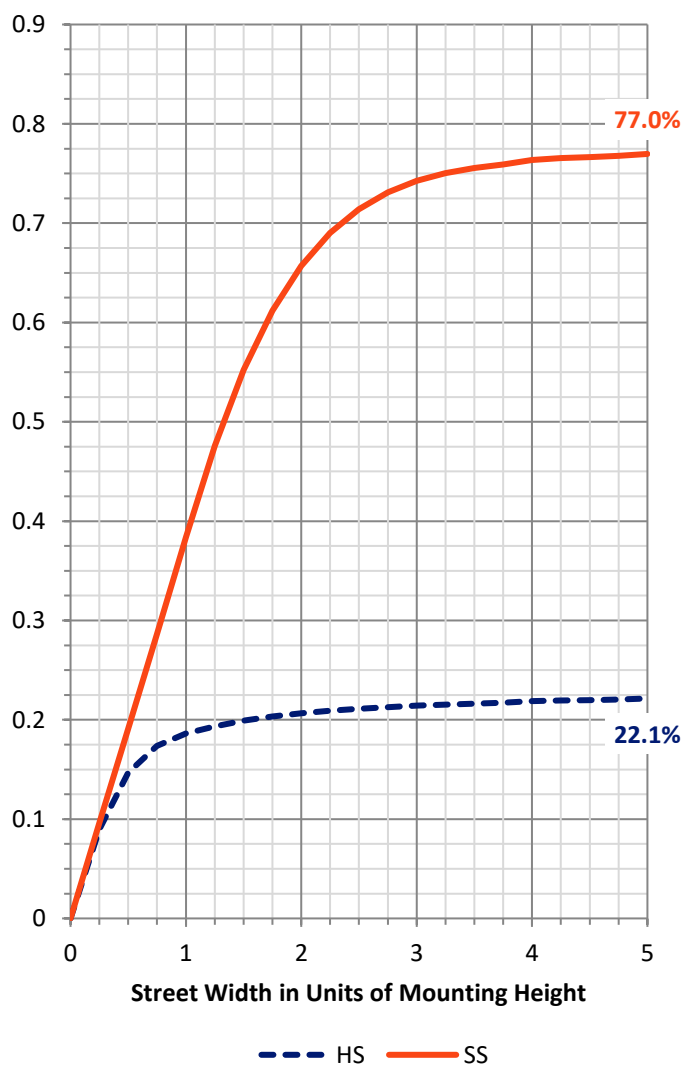
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6775.1	0.0	6775.1
	% Fixture	22.7	0.0	22.7
Street Side	Lumens	23098.9	0.0	23098.9
	% Fixture	77.3	0.0	77.3
Total	Lumens	29874.0	0.0	29874.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	303.5	1.0
10°-20°	964.0	3.2
20°-30°	1726.8	5.8
30°-40°	2597.6	8.7
40°-50°	4206.5	14.1
50°-60°	6332.1	21.2
60°-70°	7452.2	24.9
70°-80°	5284.3	17.7
80°-90°	1006.9	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°	29874.0	100.0
0°-180°	29874.0	100.0

Coefficient of Utilization



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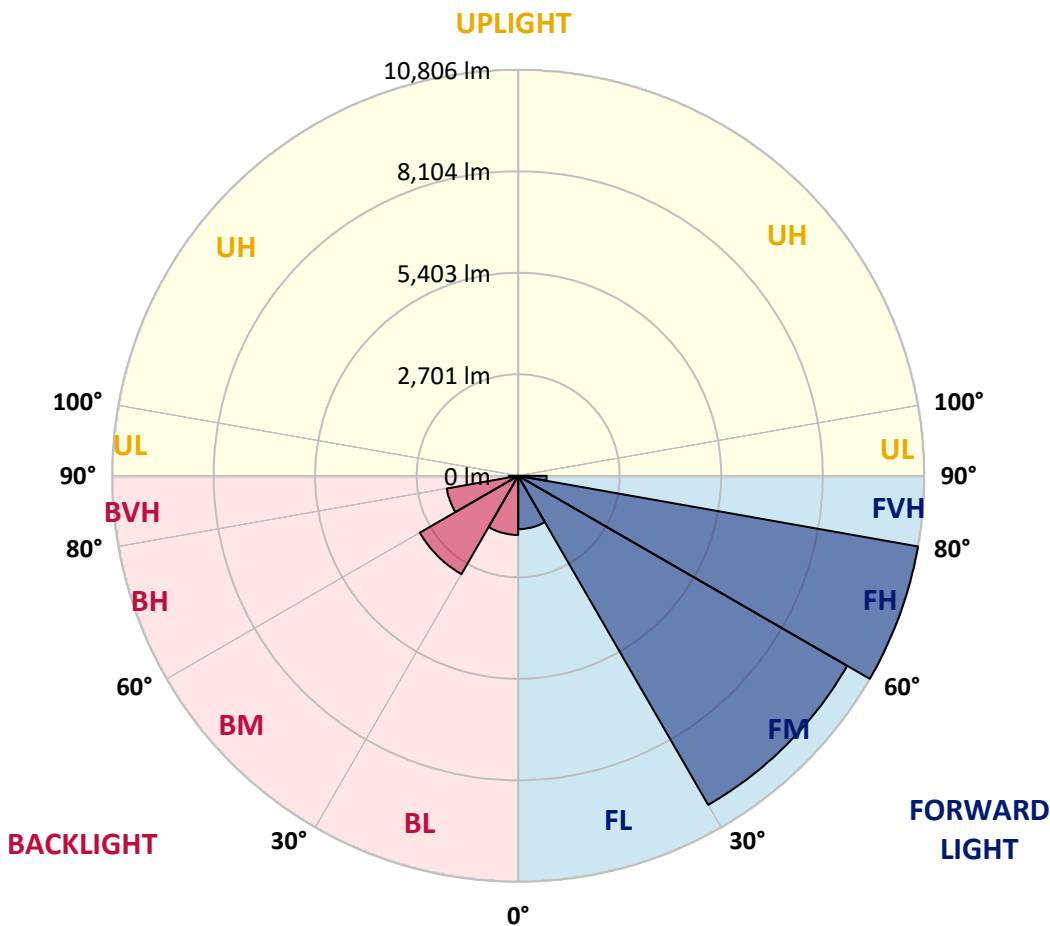
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1420.6	4.8			
FM (30°-60°)	10113.2	33.9			
FH (60°-80°)	10805.5	36.2			G4/12000
FVH (80°-90°)	759.5	2.5			G5
BL (0°-30°)	1573.7	5.3	B3/2500		
BM (30°-60°)	3023.0	10.1	B3/5000		
BH (60°-80°)	1931.0	6.5	B3/2500		G3/2500
BVH (80°-90°)	247.4	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-G5

Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	3151.1	3151.1	3151.1	3151.1	3151.1	3151.1	3151.1	3151.1	3151.1	3151.1	3151.1
2.5°	3032.8	3017.0	3020.9	3020.9	3036.7	3044.6	3048.5	3060.4	3068.3	3088.0	3115.6
5°	2890.8	2879.0	2882.9	2886.8	2914.4	2942.1	2965.7	2981.5	3005.2	3036.7	3076.1
7.5°	2788.2	2780.4	2784.3	2792.2	2815.9	2847.4	2886.8	2910.5	2946.0	3005.2	3072.2
10°	2713.3	2713.3	2717.3	2733.0	2756.7	2796.1	2827.7	2855.3	2926.3	3032.8	3135.3
12.5°	2654.2	2654.2	2666.0	2697.5	2737.0	2776.4	2851.3	2882.9	2977.5	3123.5	3245.7
15°	2650.2	2654.2	2658.1	2685.7	2729.1	2815.9	2926.3	2973.6	3088.0	3261.5	3403.5
17.5°	2713.3	2717.3	2701.5	2709.4	2760.6	2882.9	3028.8	3084.0	3229.9	3419.2	3565.2
20°	2906.6	2906.6	2859.2	2815.9	2851.3	2985.4	3151.1	3206.3	3368.0	3577.0	3722.9
22.5°	3300.9	3320.7	3210.2	3115.6	3060.4	3135.3	3285.2	3344.3	3525.7	3750.5	3896.4
25°	3778.1	3797.9	3648.0	3513.9	3411.4	3399.5	3498.1	3561.2	3711.1	3943.8	4066.0
27.5°	4239.6	4204.1	4066.0	3939.8	3809.7	3703.2	3778.1	3833.3	4006.9	4184.3	4259.3
30°	4602.4	4574.8	4440.7	4350.0	4227.7	4089.7	4046.3	4105.5	4247.4	4413.1	4452.5
32.5°	5004.6	4984.9	4850.8	4732.5	4630.0	4499.8	4405.2	4432.8	4511.7	4630.0	4653.6
35°	5517.3	5560.7	5418.7	5178.2	5063.8	4937.6	4870.6	4878.4	4937.6	5012.5	4973.1
37.5°	6057.6	6108.9	6116.8	5738.2	5584.4	5470.0	5399.0	5426.6	5497.6	5548.9	5426.6
40°	7059.3	7008.1	6803.0	6523.0	6286.4	6175.9	6077.3	6073.4	6124.7	6215.4	5994.5
42.5°	8388.4	8341.1	7927.0	7564.2	7189.5	7063.3	6870.0	6787.2	6810.9	6925.3	6617.6
45°	9662.2	9642.5	9311.2	8889.3	8439.7	8195.2	7753.5	7552.3	7532.6	7623.3	7256.5
47.5°	10794.1	10707.3	10466.8	10139.4	10092.1	9453.2	8640.8	8368.7	8274.0	8325.3	7915.1
50°	12004.8	11709.1	11377.8	11176.6	11519.8	10924.2	9536.0	9252.1	9019.4	9054.9	8629.0
52.5°	12647.7	12150.8	11933.8	11993.0	12454.4	12225.7	10510.1	10163.1	9788.4	9839.7	9338.8
55°	12095.5	12091.6	12186.2	12553.0	13195.9	12931.6	11436.9	11046.5	10636.3	10648.2	10155.2
57.5°	11338.3	11492.1	11981.2	12789.6	14114.8	13673.0	12347.9	11933.8	11559.2	11500.0	11082.0
60°	10648.2	10817.8	11527.6	12750.2	14434.2	14351.4	13215.6	12852.7	12549.1	12375.5	12056.1
62.5°	9599.1	9725.3	10731.0	12497.8	14166.0	14840.4	14095.0	13846.6	13617.8	13259.0	13105.1
65°	8364.7	8408.1	9469.0	11665.7	13830.8	15029.7	14970.5	14860.1	14639.3	14110.8	14142.4
67.5°	7027.8	7114.6	8045.3	10336.6	13097.3	14942.9	15648.9	15739.6	15479.3	14686.6	14804.9
70°	5604.1	5710.6	6416.5	8498.8	11851.0	14568.3	16275.9	16421.9	15921.0	14875.9	14927.2
72.5°	3466.6	3569.1	4042.4	5903.8	9394.1	13310.2	16469.2	16658.5	15932.8	14623.5	14130.5
75°	1198.9	1210.7	1581.5	2831.6	5576.5	10048.7	15838.2	16283.8	15432.0	13704.6	12296.7
77.5°	548.2	567.9	702.0	1167.4	2472.7	5422.7	13077.5	14193.6	13909.7	12269.1	9465.0
80°	378.6	386.5	485.1	698.0	1427.6	1908.8	8254.3	9709.6	10206.5	9500.5	6065.5
82.5°	284.0	291.8	374.7	473.3	1029.3	926.8	3143.2	4511.7	5608.0	5505.5	2535.8
85°	272.1	268.2	291.8	315.5	686.2	552.1	1017.5	1396.1	2188.8	1873.3	638.9
87.5°	118.3	130.1	299.7	177.5	358.9	256.3	441.7	516.6	666.5	579.7	228.7
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°	3151.1	3151.1	3151.1	3151.1	3151.1	3151.1	3151.1	3151.1	3151.1	3151.1	3151.1
2.5°	3127.4	3135.3	3159.0	3194.5	3214.2	3253.6	3281.2	3297.0	3308.8	3312.8	3312.8
5°	3099.8	3115.6	3166.8	3226.0	3281.2	3364.0	3439.0	3482.3	3513.9	3525.7	3529.7
7.5°	3107.7	3147.1	3222.1	3308.8	3379.8	3486.3	3577.0	3663.8	3734.7	3762.4	3762.4
10°	3182.6	3237.8	3340.4	3454.7	3545.4	3655.9	3750.5	3825.5	3908.3	3955.6	3963.5
12.5°	3297.0	3364.0	3498.1	3624.3	3726.9	3813.6	3900.4	3955.6	3995.0	4030.5	4038.4
15°	3458.7	3541.5	3675.6	3805.7	3896.4	3951.7	3975.3	3975.3	3971.4	3975.3	3983.2
17.5°	3620.4	3699.3	3833.3	3963.5	4006.9	3975.3	3947.7	3939.8	3935.9	3928.0	3931.9
20°	3778.1	3853.1	3967.4	4066.0	4030.5	3920.1	3884.6	3880.7	3868.8	3861.0	3853.1
22.5°	3935.9	3991.1	4085.7	4121.2	3979.3	3821.5	3778.1	3754.5	3738.7	3719.0	3699.3
25°	4117.3	4133.1	4204.1	4148.8	3853.1	3640.1	3577.0	3541.5	3525.7	3506.0	3490.2
27.5°	4286.9	4286.9	4298.7	4105.5	3667.7	3399.5	3304.9	3241.8	3237.8	3233.9	3229.9
30°	4440.7	4421.0	4381.5	3975.3	3427.1	3103.7	2961.8	2898.7	2922.3	2942.1	2946.0
32.5°	4622.1	4582.7	4472.2	3797.9	3139.2	2772.5	2598.9	2571.3	2598.9	2622.6	2606.8
35°	4906.0	4835.1	4566.9	3592.8	2863.2	2468.8	2303.2	2263.7	2255.8	2251.9	2220.3
37.5°	5312.3	5190.0	4641.8	3371.9	2591.1	2200.6	2078.4	1995.5	1920.6	1841.7	1829.9
40°	5809.2	5600.2	4693.1	3119.5	2303.2	1975.8	1845.7	1739.2	1613.0	1475.0	1459.2
42.5°	6353.4	6041.9	4716.7	2839.5	2050.8	1790.5	1628.8	1494.7	1352.7	1246.2	1226.5
45°	6941.0	6519.1	4697.0	2571.3	1845.7	1632.7	1451.3	1305.4	1191.0	1116.1	1100.3
47.5°	7512.9	7067.2	4641.8	2358.4	1687.9	1498.6	1313.3	1179.2	1092.4	1009.6	989.9
50°	8246.4	7591.8	4574.8	2192.7	1514.4	1364.5	1226.5	1084.5	985.9	946.5	938.6
52.5°	9058.8	8116.3	4495.9	1983.7	1344.8	1258.1	1171.3	1045.1	1013.5	938.6	926.8
55°	9938.3	8739.4	4480.1	1719.5	1195.0	1183.1	1116.1	1080.6	1088.5	938.6	918.9
57.5°	10865.1	9405.9	4515.6	1455.3	1072.7	1116.1	1139.7	1112.1	1100.3	958.3	918.9
60°	11831.3	10048.7	4409.1	1210.7	978.1	1060.9	1167.4	1096.4	1009.6	950.4	922.8
62.5°	12769.9	10589.0	3947.7	1037.2	907.1	1045.1	1151.6	1037.2	938.6	938.6	926.8
65°	13452.2	10829.6	3088.0	911.0	859.7	1025.4	1124.0	997.8	918.9	946.5	930.7
67.5°	13531.1	10581.1	2074.4	812.4	820.3	989.9	1060.9	962.3	899.2	970.2	946.5
70°	13046.0	9934.4	1269.9	737.5	769.0	926.8	1005.7	926.8	871.6	950.4	915.0
72.5°	11787.9	8727.6	895.2	674.4	713.8	867.6	954.4	895.2	832.1	859.7	824.2
75°	9670.1	6763.6	709.9	615.2	658.6	812.4	911.0	847.9	784.8	773.0	749.3
77.5°	6850.3	4334.2	571.8	567.9	599.5	745.4	851.9	792.7	729.6	705.9	690.2
80°	3939.8	2125.7	493.0	512.7	544.2	678.3	780.9	729.6	670.4	634.9	611.3
82.5°	1506.5	741.4	433.8	445.6	481.1	607.3	709.9	666.5	607.3	638.9	536.4
85°	489.0	406.2	354.9	366.8	402.3	504.8	627.1	591.6	524.5	465.4	429.9
87.5°	216.9	220.9	189.3	209.0	252.4	335.2	457.5	433.8	382.5	319.4	307.6
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)