

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: P399935

Luminaire Tested: **ARCH-L-PA3-210-740-U-T3**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P399935
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-PA3-210-740-U-T3
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 4000K, 900mA LIGHT ENGINES WITH 24 LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29906 lumens
Efficiency: N/A
Efficacy: 141.7 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

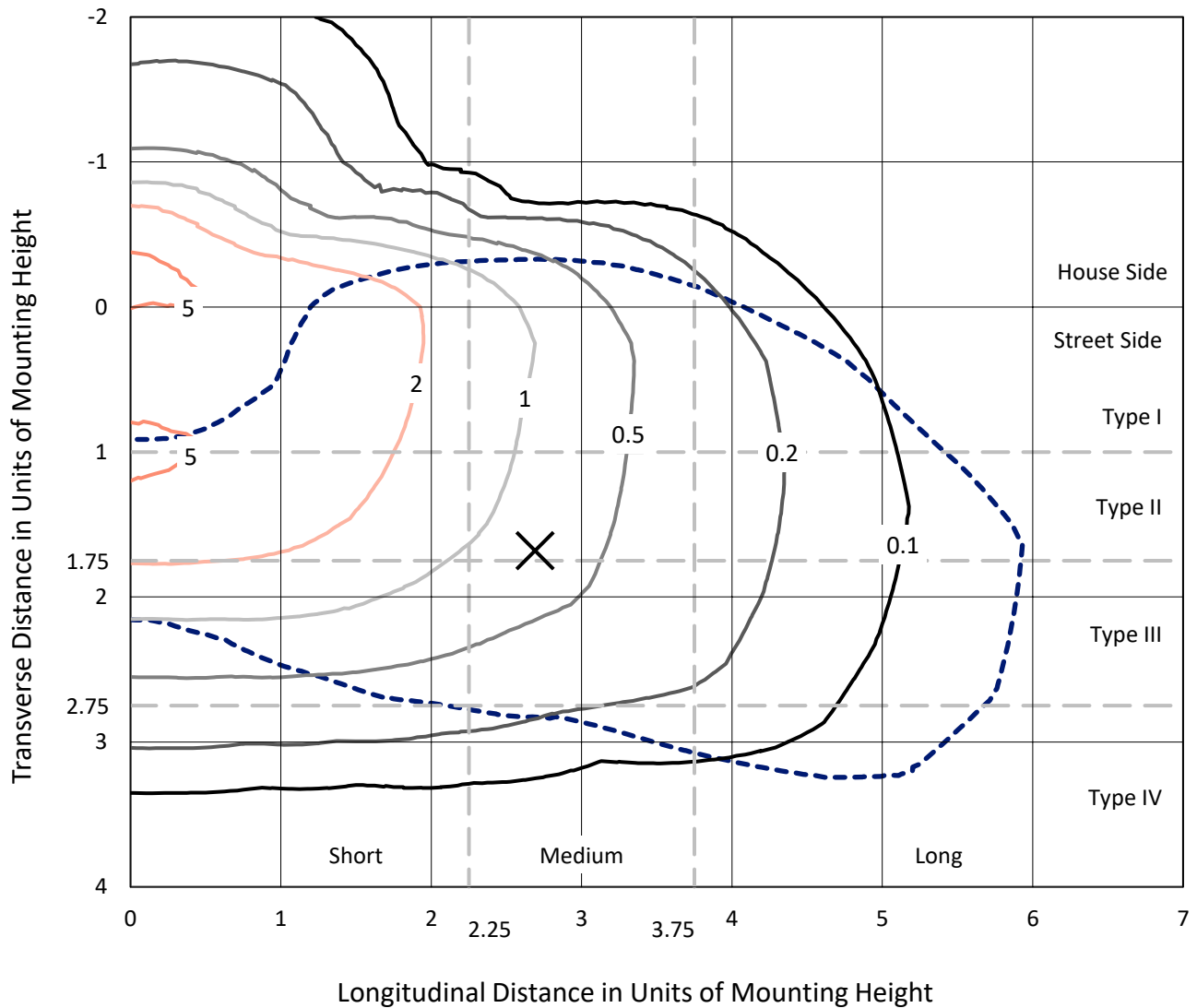
Input Watts (W): 211
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

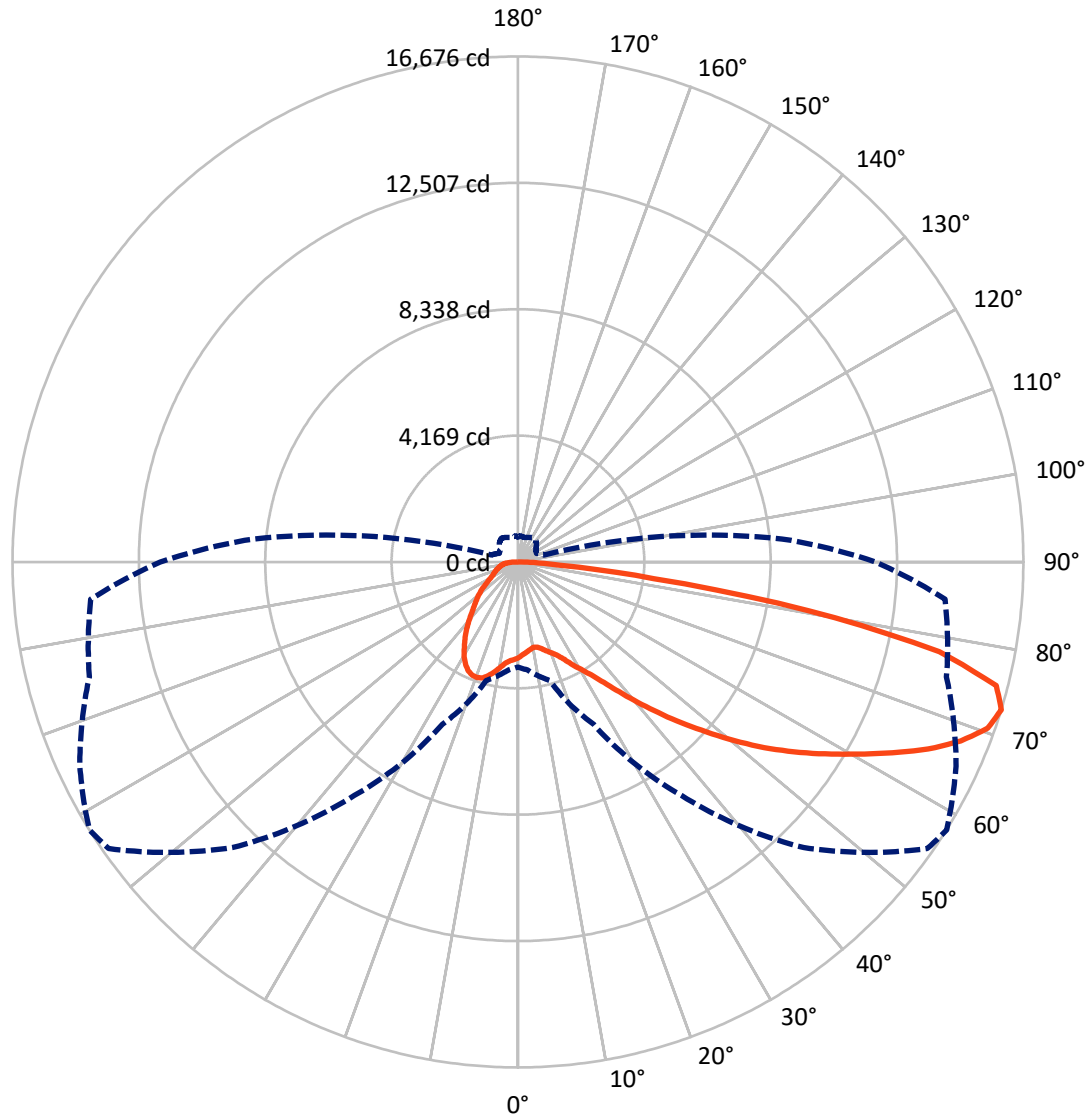
✕ Max cd
 - - - 1/2 Max cd



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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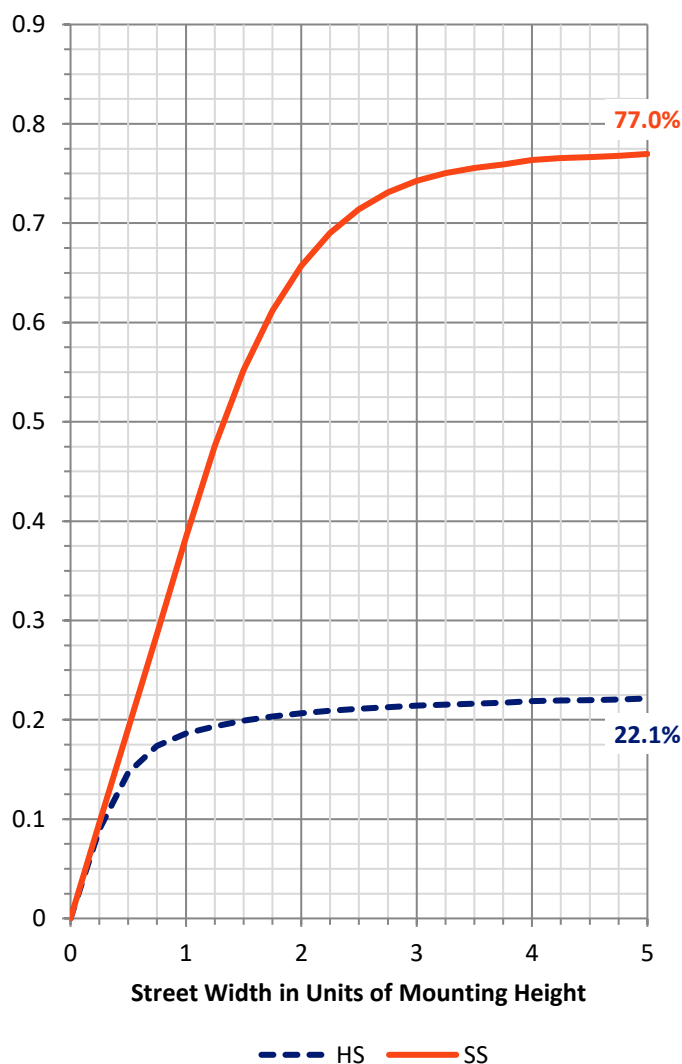
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6782.3	0.0	6782.3
	% Fixture	22.7	0.0	22.7
Street Side	Lumens	23123.7	0.0	23123.7
	% Fixture	77.3	0.0	77.3
Total	Lumens	29906.0	0.0	29906.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	303.9	1.0
10°-20°	965.0	3.2
20°-30°	1728.7	5.8
30°-40°	2600.4	8.7
40°-50°	4211.0	14.1
50°-60°	6338.9	21.2
60°-70°	7460.2	24.9
70°-80°	5290.0	17.7
80°-90°	1008.0	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°	29906.0	100.0
0°-180°	29906.0	100.0

Coefficient of Utilization

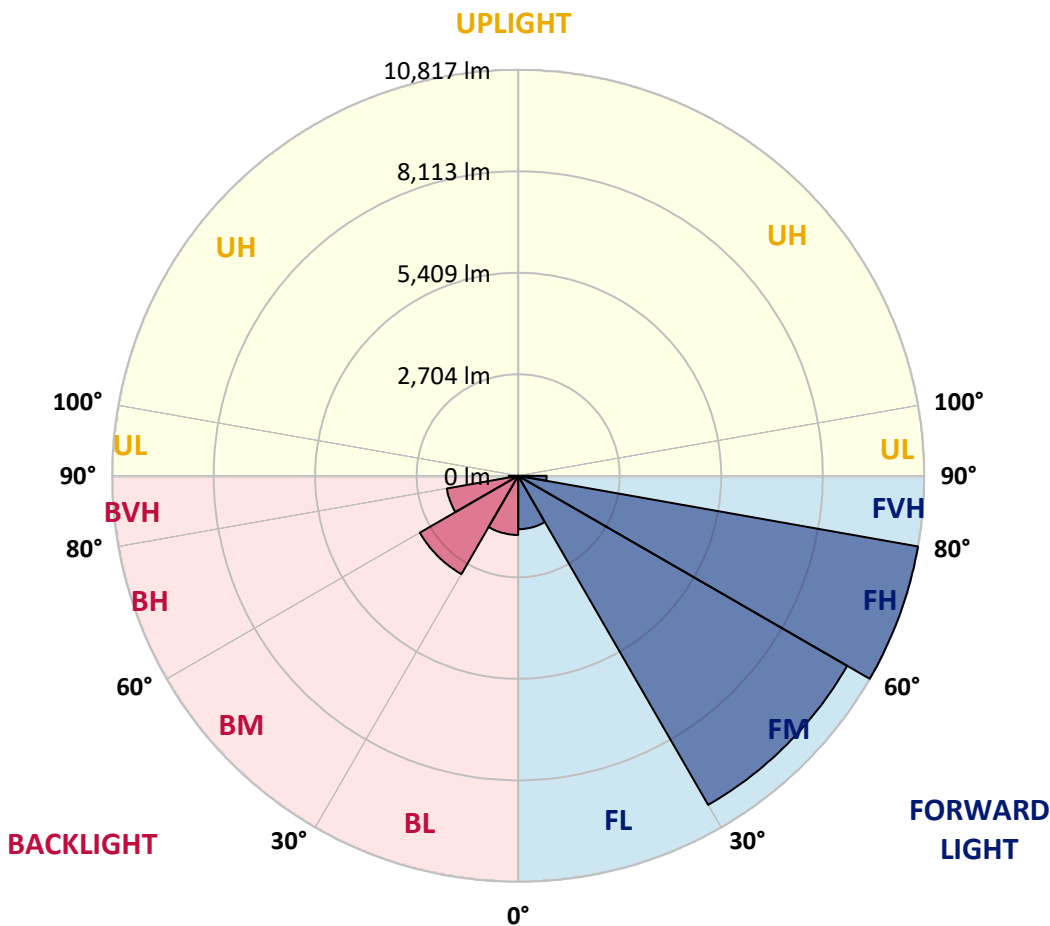


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1422.2	4.8			
FM (30°-60°)	10124.0	33.9			
FH (60°-80°)	10817.1	36.2			G4/12000
FVH (80°-90°)	760.3	2.5			G5
BL (0°-30°)	1575.4	5.3	B3/2500		
BM (30°-60°)	3026.2	10.1	B3/5000		
BH (60°-80°)	1933.0	6.5	B3/2500		G3/2500
BVH (80°-90°)	247.7	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°	3154.4	3154.4	3154.4	3154.4	3154.4	3154.4	3154.4	3154.4	3154.4	3154.4	3154.4
2.5°	3036.0	3020.2	3024.2	3024.2	3040.0	3047.9	3051.8	3063.6	3071.5	3091.3	3118.9
5°	2893.9	2882.0	2886.0	2889.9	2917.6	2945.2	2968.9	2984.7	3008.4	3040.0	3079.4
7.5°	2791.2	2783.3	2787.3	2795.2	2818.9	2850.5	2889.9	2913.6	2949.2	3008.4	3075.5
10°	2716.2	2716.2	2720.2	2736.0	2759.6	2799.1	2830.7	2858.3	2929.4	3036.0	3138.7
12.5°	2657.0	2657.0	2668.8	2700.4	2739.9	2779.4	2854.4	2886.0	2980.7	3126.8	3249.2
15°	2653.1	2657.0	2660.9	2688.6	2732.0	2818.9	2929.4	2976.8	3091.3	3265.0	3407.1
17.5°	2716.2	2720.2	2704.4	2712.3	2763.6	2886.0	3032.1	3087.3	3233.4	3422.9	3569.0
20°	2909.7	2909.7	2862.3	2818.9	2854.4	2988.6	3154.4	3209.7	3371.6	3580.8	3726.9
22.5°	3304.5	3324.2	3213.7	3118.9	3063.6	3138.7	3288.7	3347.9	3529.5	3754.5	3900.6
25°	3782.2	3801.9	3651.9	3517.7	3415.0	3403.2	3501.9	3565.0	3715.1	3948.0	4070.4
27.5°	4244.1	4208.6	4070.4	3944.0	3813.8	3707.2	3782.2	3837.5	4011.2	4188.8	4263.8
30°	4607.3	4579.7	4445.4	4354.6	4232.2	4094.1	4050.6	4109.9	4252.0	4417.8	4457.3
32.5°	5010.0	4990.3	4856.0	4737.6	4634.9	4504.7	4409.9	4437.5	4516.5	4634.9	4658.6
35°	5523.2	5566.7	5424.5	5183.7	5069.2	4942.9	4875.8	4883.7	4942.9	5017.9	4978.4
37.5°	6064.1	6115.4	6123.3	5744.3	5590.4	5475.9	5404.8	5432.4	5503.5	5554.8	5432.4
40°	7066.9	7015.6	6810.3	6530.0	6293.1	6182.6	6083.9	6079.9	6131.2	6222.0	6001.0
42.5°	8397.4	8350.0	7935.5	7572.3	7197.2	7070.9	6877.4	6794.5	6818.2	6932.7	6624.7
45°	9672.6	9652.8	9321.2	8898.8	8448.7	8203.9	7761.8	7560.4	7540.7	7631.5	7264.3
47.5°	10805.7	10718.8	10478.0	10150.3	10102.9	9463.3	8650.1	8377.6	8282.9	8334.2	7923.6
50°	12017.7	11721.6	11390.0	11188.6	11532.1	10935.9	9546.2	9262.0	9029.1	9064.6	8638.2
52.5°	12661.2	12163.8	11946.6	12005.8	12467.8	12238.8	10521.4	10174.0	9798.9	9850.2	9348.8
55°	12108.5	12104.5	12199.3	12566.5	13210.0	12945.5	11449.2	11058.3	10647.7	10659.6	10166.1
57.5°	11350.5	11504.5	11994.0	12803.3	14129.9	13687.7	12361.2	11946.6	11571.6	11512.4	11093.9
60°	10659.6	10829.3	11540.0	12763.9	14449.7	14366.8	13229.7	12866.5	12562.5	12388.8	12069.0
62.5°	9609.4	9735.8	10742.5	12511.2	14181.2	14856.3	14110.1	13861.4	13632.4	13273.2	13119.2
65°	8373.7	8417.1	9479.1	11678.2	13845.6	15045.8	14986.6	14876.0	14655.0	14125.9	14157.5
67.5°	7035.3	7122.2	8053.9	10347.7	13111.3	14958.9	15665.6	15756.4	15495.9	14702.3	14820.8
70°	5610.1	5716.7	6423.4	8507.9	11863.7	14583.9	16293.4	16439.4	15938.1	14891.8	14943.2
72.5°	3470.3	3572.9	4046.7	5910.1	9404.1	13324.5	16486.8	16676.3	15949.9	14639.2	14145.7
75°	1200.2	1212.0	1583.1	2834.7	5582.5	10059.5	15855.1	16301.3	15448.5	13719.3	12309.8
77.5°	548.8	568.5	702.7	1168.6	2475.4	5428.5	13091.5	14208.8	13924.6	12282.2	9475.2
80°	379.0	386.9	485.6	698.8	1429.2	1910.8	8263.2	9720.0	10217.4	9510.7	6072.0
82.5°	284.3	292.2	375.1	473.8	1030.4	927.8	3146.6	4516.5	5614.0	5511.4	2538.6
85°	272.4	268.5	292.2	315.8	687.0	552.7	1018.6	1397.6	2191.1	1875.3	639.6
87.5°	118.4	130.3	300.0	177.7	359.3	256.6	442.2	517.2	667.2	580.4	229.0
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°	3154.4	3154.4	3154.4	3154.4	3154.4	3154.4	3154.4	3154.4	3154.4	3154.4	3154.4
2.5°	3130.8	3138.7	3162.3	3197.9	3217.6	3257.1	3284.7	3300.5	3312.4	3316.3	3316.3
5°	3103.1	3118.9	3170.2	3229.5	3284.7	3367.6	3442.7	3486.1	3517.7	3529.5	3533.5
7.5°	3111.0	3150.5	3225.5	3312.4	3383.4	3490.0	3580.8	3667.7	3738.8	3766.4	3766.4
10°	3186.0	3241.3	3344.0	3458.4	3549.2	3659.8	3754.5	3829.6	3912.5	3959.8	3967.7
12.5°	3300.5	3367.6	3501.9	3628.2	3730.9	3817.7	3904.6	3959.8	3999.3	4034.8	4042.7
15°	3462.4	3545.3	3679.5	3809.8	3900.6	3955.9	3979.6	3979.6	3975.6	3979.6	3987.5
17.5°	3624.3	3703.2	3837.5	3967.7	4011.2	3979.6	3951.9	3944.0	3940.1	3932.2	3936.2
20°	3782.2	3857.2	3971.7	4070.4	4034.8	3924.3	3888.8	3884.8	3873.0	3865.1	3857.2
22.5°	3940.1	3995.4	4090.1	4125.7	3983.5	3825.6	3782.2	3758.5	3742.7	3723.0	3703.2
25°	4121.7	4137.5	4208.6	4153.3	3857.2	3644.0	3580.8	3545.3	3529.5	3509.8	3494.0
27.5°	4291.5	4291.5	4303.3	4109.9	3671.6	3403.2	3308.4	3245.3	3241.3	3237.4	3233.4
30°	4445.4	4425.7	4386.2	3979.6	3430.8	3107.1	2964.9	2901.8	2925.5	2945.2	2949.2
32.5°	4627.0	4587.6	4477.0	3801.9	3142.6	2775.4	2601.7	2574.1	2601.7	2625.4	2609.6
35°	4911.3	4840.2	4571.8	3596.6	2866.2	2471.4	2305.6	2266.1	2258.3	2254.3	2222.7
37.5°	5317.9	5195.6	4646.8	3375.5	2593.8	2203.0	2080.6	1997.7	1922.7	1843.7	1831.9
40°	5815.4	5606.2	4698.1	3122.9	2305.6	1977.9	1847.7	1741.1	1614.7	1476.5	1460.8
42.5°	6360.2	6048.3	4721.8	2842.6	2053.0	1792.4	1630.5	1496.3	1354.2	1247.6	1227.8
45°	6948.5	6526.0	4702.1	2574.1	1847.7	1634.5	1452.9	1306.8	1192.3	1117.3	1101.5
47.5°	7520.9	7074.8	4646.8	2360.9	1689.7	1500.2	1314.7	1180.5	1093.6	1010.7	990.9
50°	8255.3	7599.9	4579.7	2195.1	1516.0	1366.0	1227.8	1085.7	987.0	947.5	939.6
52.5°	9068.5	8125.0	4500.7	1985.8	1346.3	1259.4	1172.6	1046.2	1014.6	939.6	927.8
55°	9948.9	8748.8	4484.9	1721.3	1196.2	1184.4	1117.3	1081.8	1089.6	939.6	919.9
57.5°	10876.7	9416.0	4520.5	1456.8	1073.9	1117.3	1141.0	1113.3	1101.5	959.4	919.9
60°	11844.0	10059.5	4413.9	1212.0	979.1	1062.0	1168.6	1097.5	1010.7	951.5	923.8
62.5°	12783.6	10600.4	3951.9	1038.3	908.0	1046.2	1152.8	1038.3	939.6	939.6	927.8
65°	13466.6	10841.2	3091.3	912.0	860.7	1026.5	1125.2	998.8	919.9	947.5	931.7
67.5°	13545.6	10592.5	2076.6	813.3	821.2	990.9	1062.0	963.3	900.1	971.2	947.5
70°	13060.0	9945.0	1271.3	738.3	769.9	927.8	1006.7	927.8	872.5	951.5	915.9
72.5°	11800.6	8736.9	896.2	675.1	714.6	868.6	955.4	896.2	833.0	860.7	825.1
75°	9680.5	6770.8	710.6	615.9	659.3	813.3	912.0	848.8	785.7	773.8	750.1
77.5°	6857.7	4338.8	572.5	568.5	600.1	746.2	852.8	793.5	730.4	706.7	690.9
80°	3944.0	2128.0	493.5	513.2	544.8	679.1	781.7	730.4	671.2	635.6	611.9
82.5°	1508.1	742.2	434.3	446.1	481.7	608.0	710.6	667.2	608.0	639.6	536.9
85°	489.6	406.6	355.3	367.2	402.7	505.3	627.7	592.2	525.1	465.9	430.3
87.5°	217.1	221.1	189.5	209.2	252.7	335.6	458.0	434.3	383.0	319.8	307.9
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)