

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: P399944

Luminaire Tested: **ARCH-L-PA3-210-750-U-T3**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P399944
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-PA3-210-750-U-T3
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 5000K, 900mA LIGHT ENGINES WITH 24 LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29905 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

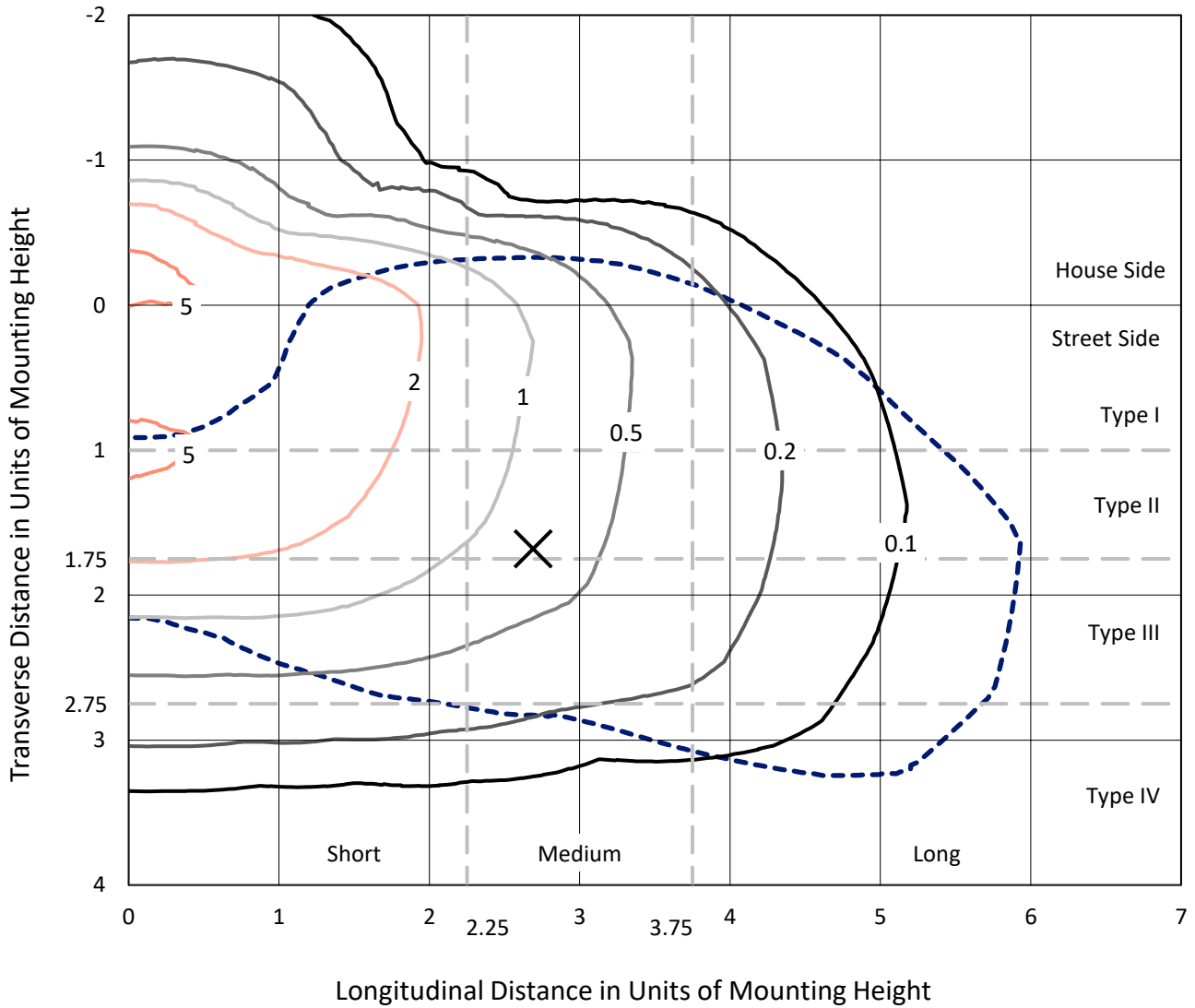
Input Watts (W): 211
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

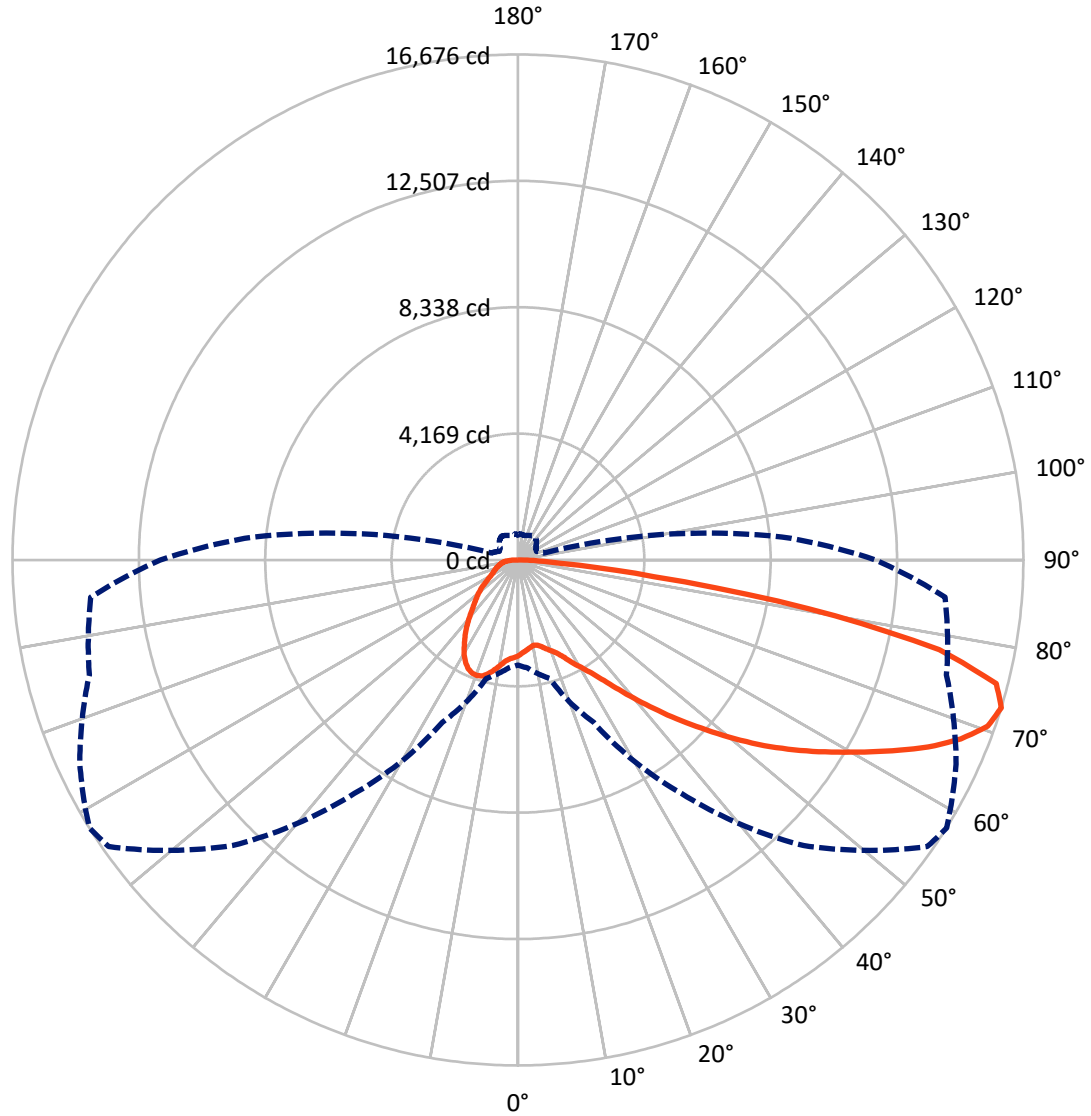
✕ Max cd
 - - - 1/2 Max cd



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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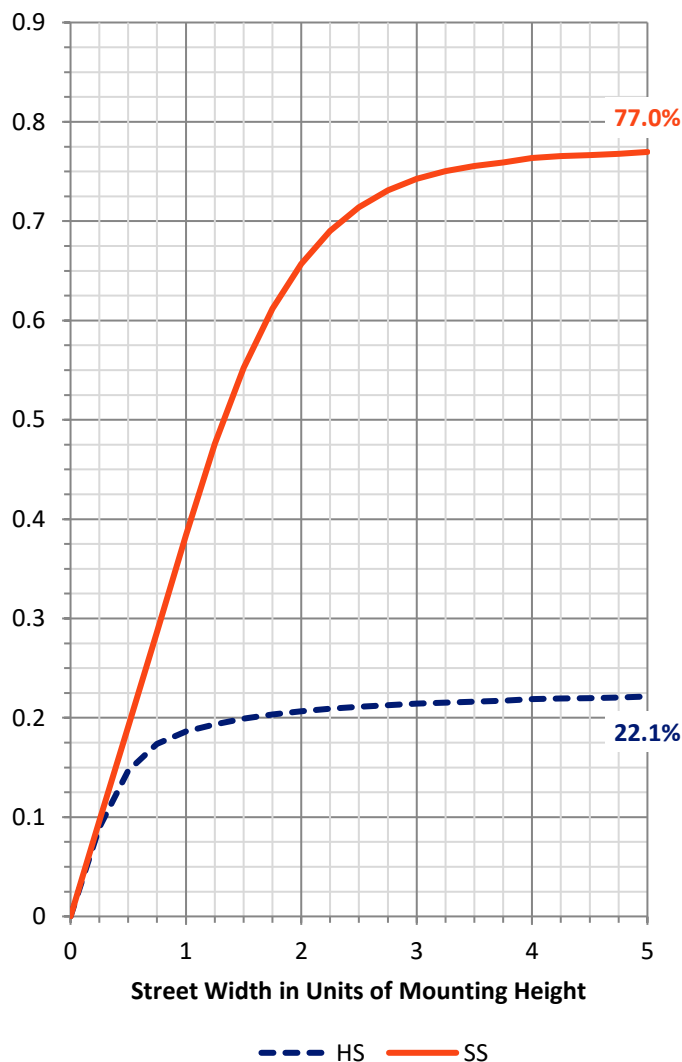
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6782.1	0.0	6782.1
	% Fixture	22.7	0.0	22.7
Street Side	Lumens	23122.9	0.0	23122.9
	% Fixture	77.3	0.0	77.3
Total	Lumens	29905.0	0.0	29905.0
	% 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°	1728.6	5.8
30°-40°	2600.3	8.7
40°-50°	4210.8	14.1
50°-60°	6338.7	21.2
60°-70°	7459.9	24.9
70°-80°	5289.8	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°	29905.0	100.0
0°-180°	29905.0	100.0

Coefficient of Utilization

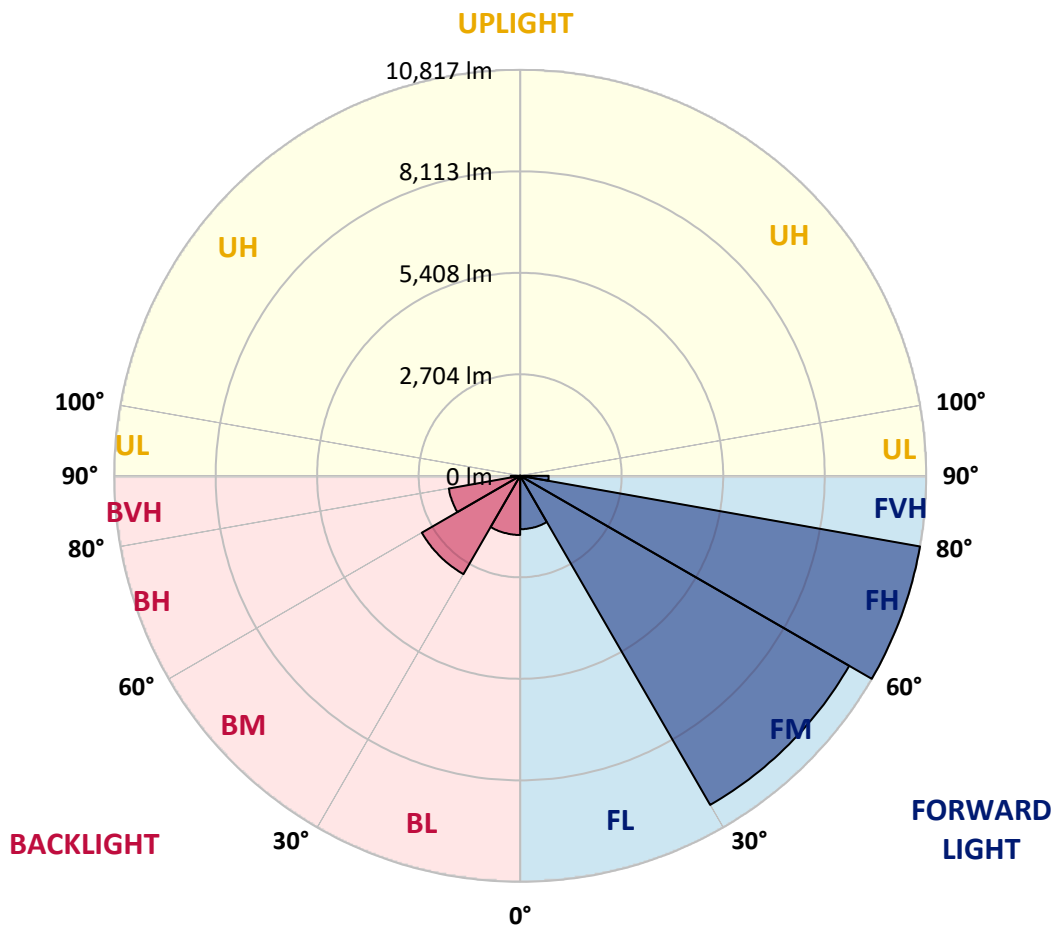


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1422.1	4.8			
FM (30°-60°)	10123.7	33.9			
FH (60°-80°)	10816.8	36.2			G4/12000
FVH (80°-90°)	760.3	2.5			G5
BL (0°-30°)	1575.4	5.3	B3/2500		
BM (30°-60°)	3026.1	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°	3154.3	3154.3	3154.3	3154.3	3154.3	3154.3	3154.3	3154.3	3154.3	3154.3	3154.3
2.5°	3035.9	3020.1	3024.1	3024.1	3039.9	3047.7	3051.7	3063.5	3071.4	3091.2	3118.8
5°	2893.8	2881.9	2885.9	2889.8	2917.5	2945.1	2968.8	2984.6	3008.3	3039.9	3079.3
7.5°	2791.1	2783.2	2787.2	2795.1	2818.8	2850.4	2889.8	2913.5	2949.1	3008.3	3075.4
10°	2716.1	2716.1	2720.1	2735.9	2759.6	2799.0	2830.6	2858.3	2929.3	3035.9	3138.6
12.5°	2656.9	2656.9	2668.8	2700.3	2739.8	2779.3	2854.3	2885.9	2980.6	3126.7	3249.1
15°	2653.0	2656.9	2660.9	2688.5	2731.9	2818.8	2929.3	2976.7	3091.2	3264.9	3407.0
17.5°	2716.1	2720.1	2704.3	2712.2	2763.5	2885.9	3032.0	3087.2	3233.3	3422.8	3568.9
20°	2909.6	2909.6	2862.2	2818.8	2854.3	2988.5	3154.3	3209.6	3371.5	3580.7	3726.8
22.5°	3304.4	3324.1	3213.6	3118.8	3063.5	3138.6	3288.6	3347.8	3529.4	3754.4	3900.5
25°	3782.1	3801.8	3651.8	3517.5	3414.9	3403.1	3501.8	3564.9	3714.9	3947.9	4070.2
27.5°	4244.0	4208.4	4070.2	3943.9	3813.6	3707.0	3782.1	3837.3	4011.0	4188.7	4263.7
30°	4607.2	4579.5	4445.3	4354.5	4232.1	4093.9	4050.5	4109.7	4251.8	4417.7	4457.1
32.5°	5009.8	4990.1	4855.9	4737.4	4634.8	4504.5	4409.8	4437.4	4516.4	4634.8	4658.5
35°	5523.1	5566.5	5424.4	5183.5	5069.1	4942.7	4875.6	4883.5	4942.7	5017.7	4978.3
37.5°	6063.9	6115.2	6123.1	5744.1	5590.2	5475.7	5404.6	5432.3	5503.3	5554.6	5432.3
40°	7066.7	7015.4	6810.1	6529.8	6292.9	6182.4	6083.7	6079.7	6131.0	6221.8	6000.8
42.5°	8397.1	8349.7	7935.2	7572.0	7197.0	7070.6	6877.2	6794.3	6818.0	6932.4	6624.5
45°	9672.3	9652.5	9320.9	8898.5	8448.4	8203.7	7761.5	7560.2	7540.4	7631.2	7264.1
47.5°	10805.3	10718.4	10477.6	10150.0	10102.6	9463.0	8649.8	8377.4	8282.6	8333.9	7923.4
50°	12017.3	11721.2	11389.6	11188.2	11531.7	10935.6	9545.9	9261.7	9028.8	9064.3	8637.9
52.5°	12660.8	12163.4	11946.2	12005.4	12467.3	12238.4	10521.1	10173.6	9798.6	9849.9	9348.5
55°	12108.1	12104.1	12198.9	12566.0	13209.5	12945.0	11448.8	11058.0	10647.4	10659.2	10165.7
57.5°	11350.1	11504.1	11993.6	12802.9	14129.4	13687.2	12360.8	11946.2	11571.2	11512.0	11093.5
60°	10659.2	10829.0	11539.6	12763.4	14449.2	14366.3	13229.3	12866.1	12562.1	12388.4	12068.6
62.5°	9609.1	9735.4	10742.1	12510.8	14180.7	14855.8	14109.7	13860.9	13632.0	13272.7	13118.7
65°	8373.4	8416.8	9478.8	11677.8	13845.2	15045.3	14986.1	14875.5	14654.5	14125.5	14157.0
67.5°	7035.1	7121.9	8053.6	10347.3	13110.8	14958.4	15665.1	15755.9	15495.4	14701.8	14820.3
70°	5609.9	5716.5	6423.2	8507.6	11863.3	14583.4	16292.8	16438.9	15937.5	14891.3	14942.7
72.5°	3470.2	3572.8	4046.6	5909.9	9403.8	13324.0	16486.3	16675.8	15949.4	14638.7	14145.2
75°	1200.2	1212.0	1583.1	2834.6	5582.3	10059.2	15854.6	16300.7	15448.0	13718.8	12309.4
77.5°	548.8	568.5	702.7	1168.6	2475.3	5428.3	13091.1	14208.4	13924.1	12281.8	9474.9
80°	379.0	386.9	485.6	698.8	1429.1	1910.8	8262.9	9719.6	10217.1	9510.4	6071.8
82.5°	284.2	292.1	375.0	473.7	1030.4	927.7	3146.4	4516.4	5613.9	5511.2	2538.5
85°	272.4	268.5	292.1	315.8	686.9	552.7	1018.5	1397.5	2191.1	1875.2	639.6
87.5°	118.4	130.3	300.0	177.7	359.3	256.6	442.2	517.2	667.2	580.3	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°	3154.3	3154.3	3154.3	3154.3	3154.3	3154.3	3154.3	3154.3	3154.3	3154.3	3154.3
2.5°	3130.7	3138.6	3162.2	3197.8	3217.5	3257.0	3284.6	3300.4	3312.3	3316.2	3316.2
5°	3103.0	3118.8	3170.1	3229.4	3284.6	3367.5	3442.5	3486.0	3517.5	3529.4	3533.3
7.5°	3110.9	3150.4	3225.4	3312.3	3383.3	3489.9	3580.7	3667.6	3738.6	3766.3	3766.3
10°	3185.9	3241.2	3343.8	3458.3	3549.1	3659.7	3754.4	3829.4	3912.3	3959.7	3967.6
12.5°	3300.4	3367.5	3501.8	3628.1	3730.7	3817.6	3904.4	3959.7	3999.2	4034.7	4042.6
15°	3462.3	3545.2	3679.4	3809.7	3900.5	3955.8	3979.4	3979.4	3975.5	3979.4	3987.3
17.5°	3624.1	3703.1	3837.3	3967.6	4011.0	3979.4	3951.8	3943.9	3940.0	3932.1	3936.0
20°	3782.1	3857.1	3971.5	4070.2	4034.7	3924.2	3888.6	3884.7	3872.9	3865.0	3857.1
22.5°	3940.0	3995.2	4090.0	4125.5	3983.4	3825.5	3782.1	3758.4	3742.6	3722.8	3703.1
25°	4121.6	4137.4	4208.4	4153.2	3857.1	3643.9	3580.7	3545.2	3529.4	3509.6	3493.9
27.5°	4291.3	4291.3	4303.2	4109.7	3671.5	3403.1	3308.3	3245.1	3241.2	3237.2	3233.3
30°	4445.3	4425.6	4386.1	3979.4	3430.7	3107.0	2964.8	2901.7	2925.4	2945.1	2949.1
32.5°	4626.9	4587.4	4476.9	3801.8	3142.5	2775.3	2601.6	2574.0	2601.6	2625.3	2609.5
35°	4911.1	4840.1	4571.6	3596.5	2866.1	2471.4	2305.6	2266.1	2258.2	2254.2	2222.6
37.5°	5317.8	5195.4	4646.6	3375.4	2593.7	2202.9	2080.5	1997.6	1922.6	1843.7	1831.8
40°	5815.2	5606.0	4698.0	3122.8	2305.6	1977.9	1847.6	1741.0	1614.7	1476.5	1460.7
42.5°	6360.0	6048.1	4721.6	2842.5	2052.9	1792.3	1630.5	1496.2	1354.1	1247.5	1227.8
45°	6948.2	6525.8	4701.9	2574.0	1847.6	1634.4	1452.8	1306.7	1192.3	1117.2	1101.5
47.5°	7520.7	7074.6	4646.6	2360.8	1689.7	1500.2	1314.6	1180.4	1093.6	1010.7	990.9
50°	8255.0	7599.6	4579.5	2195.0	1516.0	1366.0	1227.8	1085.7	987.0	947.5	939.6
52.5°	9068.2	8124.7	4500.6	1985.8	1346.2	1259.4	1172.5	1046.2	1014.6	939.6	927.7
55°	9948.6	8748.5	4484.8	1721.3	1196.2	1184.4	1117.2	1081.7	1089.6	939.6	919.9
57.5°	10876.4	9415.7	4520.3	1456.8	1073.8	1117.2	1140.9	1113.3	1101.5	959.3	919.9
60°	11843.6	10059.2	4413.7	1212.0	979.1	1062.0	1168.6	1097.5	1010.7	951.4	923.8
62.5°	12783.2	10600.0	3951.8	1038.3	908.0	1046.2	1152.8	1038.3	939.6	939.6	927.7
65°	13466.2	10840.8	3091.2	912.0	860.6	1026.4	1125.1	998.8	919.9	947.5	931.7
67.5°	13545.1	10592.1	2076.6	813.3	821.2	990.9	1062.0	963.3	900.1	971.2	947.5
70°	13059.5	9944.7	1271.2	738.3	769.8	927.7	1006.7	927.7	872.5	951.4	915.9
72.5°	11800.2	8736.6	896.2	675.1	714.6	868.5	955.4	896.2	833.0	860.6	825.1
75°	9680.2	6770.6	710.6	615.9	659.3	813.3	912.0	848.8	785.6	773.8	750.1
77.5°	6857.4	4338.7	572.4	568.5	600.1	746.1	852.7	793.5	730.4	706.7	690.9
80°	3943.9	2127.9	493.5	513.2	544.8	679.0	781.7	730.4	671.1	635.6	611.9
82.5°	1508.1	742.2	434.3	446.1	481.6	608.0	710.6	667.2	608.0	639.6	536.9
85°	489.5	406.6	355.3	367.2	402.7	505.3	627.7	592.2	525.1	465.8	430.3
87.5°	217.1	221.1	189.5	209.2	252.7	335.6	458.0	434.3	382.9	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)