

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: P399998

Luminaire Tested: **ARCH-L-PA3-220-730-U-T3**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P399998
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-PA3-220-730-U-T3
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 3000K, 945mA LIGHT ENGINES WITH 24 LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28189 lumens
Efficiency: N/A
Efficacy: 127.0 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

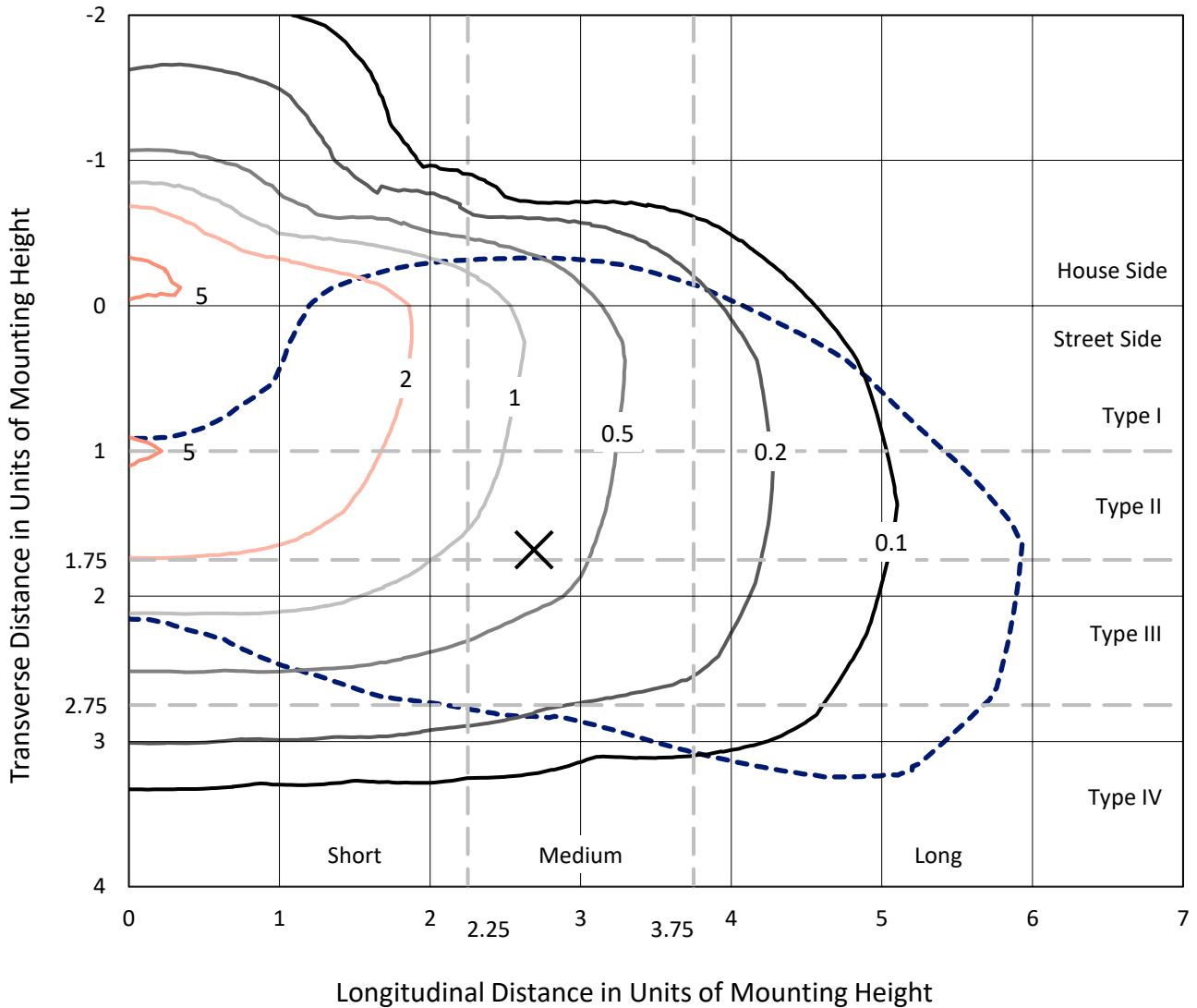
Input Watts (W): 222
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

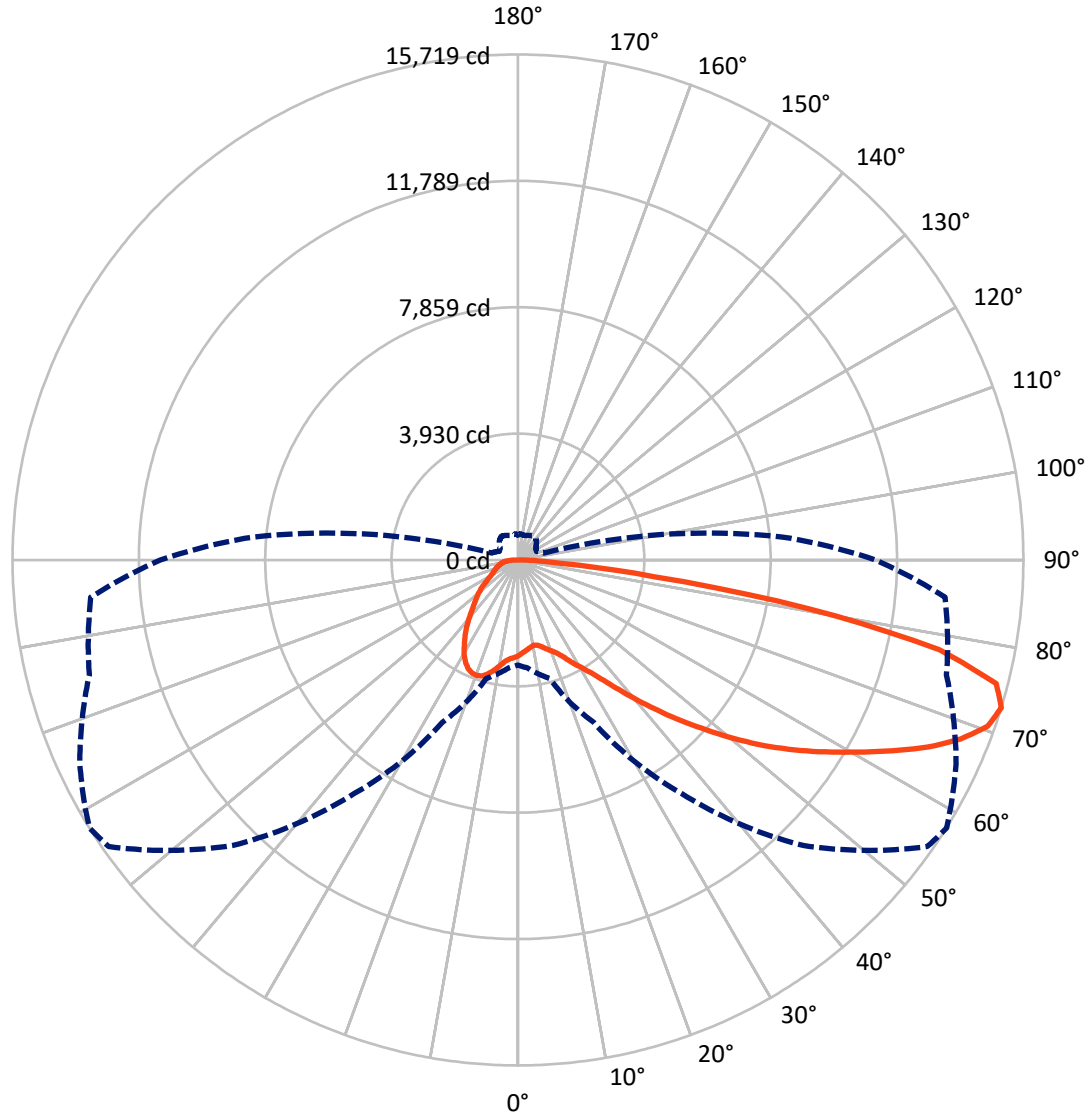
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.5 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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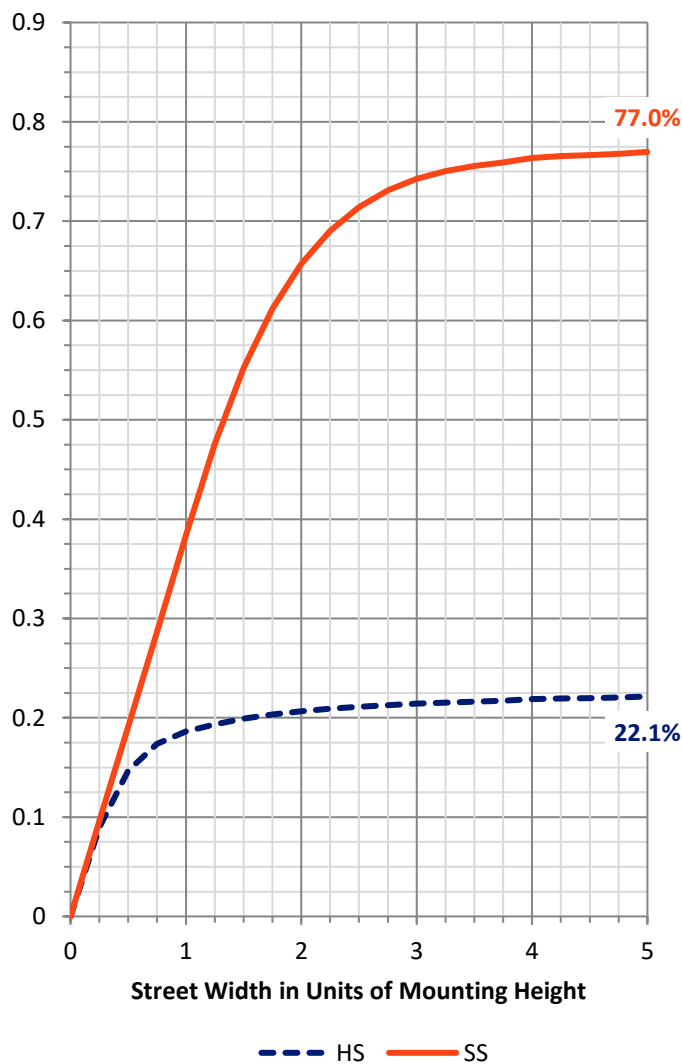
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6392.9	0.0	6392.9
	% Fixture	22.7	0.0	22.7
Street Side	Lumens	21796.1	0.0	21796.1
	% Fixture	77.3	0.0	77.3
Total	Lumens	28189.0	0.0	28189.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	286.4	1.0
10°-20°	909.6	3.2
20°-30°	1629.4	5.8
30°-40°	2451.1	8.7
40°-50°	3969.2	14.1
50°-60°	5975.0	21.2
60°-70°	7031.9	24.9
70°-80°	4986.2	17.7
80°-90°	950.1	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°	28189.0	100.0
0°-180°	28189.0	100.0



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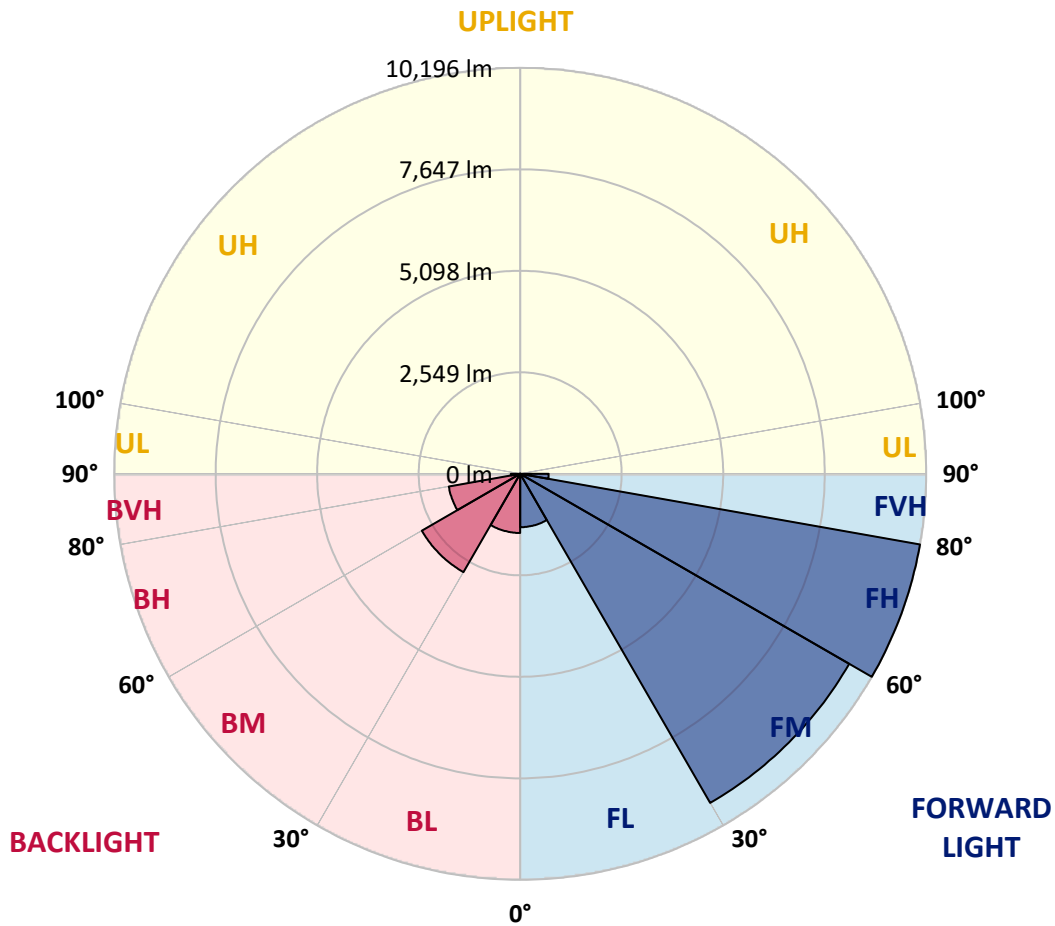
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1340.5	4.8			
FM (30°-60°)	9542.8	33.9			
FH (60°-80°)	10196.1	36.2			G4/12000
FVH (80°-90°)	716.7	2.5			G4/750
BL (0°-30°)	1485.0	5.3	B3/2500		
BM (30°-60°)	2852.5	10.1	B3/5000		
BH (60°-80°)	1822.0	6.5	B3/2500		G3/2500
BVH (80°-90°)	233.4	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-G4

Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	2973.3	2973.3	2973.3	2973.3	2973.3	2973.3	2973.3	2973.3	2973.3	2973.3	2973.3
2.5°	2861.7	2846.8	2850.5	2850.5	2865.4	2872.9	2876.6	2887.7	2895.2	2913.8	2939.8
5°	2727.7	2716.6	2720.3	2724.0	2750.1	2776.1	2798.4	2813.3	2835.7	2865.4	2902.6
7.5°	2631.0	2623.5	2627.3	2634.7	2657.0	2686.8	2724.0	2746.3	2779.8	2835.7	2898.9
10°	2560.3	2560.3	2564.0	2578.9	2601.2	2638.4	2668.2	2694.2	2761.2	2861.7	2958.5
12.5°	2504.5	2504.5	2515.6	2545.4	2582.6	2619.8	2690.5	2720.3	2809.6	2947.3	3062.7
15°	2500.7	2504.5	2508.2	2534.2	2575.2	2657.0	2761.2	2805.9	2913.8	3077.5	3211.5
17.5°	2560.3	2564.0	2549.1	2556.6	2604.9	2720.3	2858.0	2910.1	3047.8	3226.4	3364.1
20°	2742.6	2742.6	2698.0	2657.0	2690.5	2817.0	2973.3	3025.4	3178.0	3375.2	3512.9
22.5°	3114.8	3133.4	3029.2	2939.8	2887.7	2958.5	3099.9	3155.7	3326.9	3539.0	3676.7
25°	3565.0	3583.6	3442.2	3315.7	3218.9	3207.8	3300.8	3360.4	3501.8	3721.3	3836.7
27.5°	4000.4	3966.9	3836.7	3717.6	3594.8	3494.3	3565.0	3617.1	3780.9	3948.3	4019.0
30°	4342.8	4316.7	4190.2	4104.6	3989.3	3859.0	3818.1	3873.9	4007.9	4164.2	4201.4
32.5°	4722.4	4703.8	4577.2	4465.6	4368.8	4246.0	4156.7	4182.8	4257.2	4368.8	4391.2
35°	5206.1	5247.1	5113.1	4886.1	4778.2	4659.1	4595.8	4603.3	4659.1	4729.8	4692.6
37.5°	5716.0	5764.3	5771.8	5414.5	5269.4	5161.5	5094.5	5120.5	5187.5	5235.9	5120.5
40°	6661.2	6612.8	6419.3	6155.1	5931.8	5827.6	5734.6	5730.8	5779.2	5864.8	5656.4
42.5°	7915.3	7870.6	7479.9	7137.5	6784.0	6664.9	6482.6	6404.4	6426.7	6534.7	6244.4
45°	9117.3	9098.6	8786.1	8387.9	7963.6	7732.9	7316.1	7126.3	7107.7	7193.3	6847.2
47.5°	10185.3	10103.4	9876.4	9567.5	9522.9	8920.0	8153.4	7896.7	7807.3	7855.7	7468.7
50°	11327.7	11048.6	10736.0	10546.2	10870.0	10308.1	8998.2	8730.2	8510.7	8544.2	8142.3
52.5°	11934.3	11465.4	11260.7	11316.6	11752.0	11536.1	9917.3	9589.9	9236.3	9284.7	8812.1
55°	11413.3	11409.6	11498.9	11845.0	12451.6	12202.2	10791.8	10423.4	10036.4	10047.6	9582.4
57.5°	10698.8	10843.9	11305.4	12068.3	13318.6	12901.8	11651.5	11260.7	10907.2	10851.4	10456.9
60°	10047.6	10207.6	10877.4	12031.1	13620.1	13541.9	12470.2	12127.8	11841.3	11677.5	11376.1
62.5°	9057.7	9176.8	10125.7	11792.9	13367.0	14003.4	13300.0	13065.6	12849.7	12511.1	12366.0
65°	7892.9	7933.9	8934.9	11007.7	13050.7	14182.0	14126.2	14022.0	13813.6	13314.9	13344.7
67.5°	6631.4	6713.3	7591.5	9753.6	12358.5	14100.1	14766.2	14851.8	14606.2	13858.2	13969.9
70°	5288.0	5388.5	6054.6	8019.5	11182.6	13746.6	15357.9	15495.6	15023.0	14036.8	14085.2
72.5°	3271.0	3367.8	3814.4	5570.8	8864.2	12559.5	15540.3	15718.9	15034.2	13798.7	13333.5
75°	1131.3	1142.4	1492.3	2671.9	5262.0	9481.9	14944.8	15365.4	14561.6	12931.6	11603.1
77.5°	517.3	535.9	662.4	1101.5	2333.3	5116.8	12339.9	13393.1	13125.1	11577.0	8931.2
80°	357.2	364.7	457.7	658.7	1347.1	1801.1	7788.7	9161.9	9630.8	8964.7	5723.4
82.5°	267.9	275.4	353.5	446.6	971.3	874.5	2965.9	4257.2	5291.7	5195.0	2392.8
85°	256.8	253.1	275.4	297.7	647.5	521.0	960.1	1317.3	2065.3	1767.6	602.9
87.5°	111.6	122.8	282.8	167.5	338.6	241.9	416.8	487.5	628.9	547.0	215.8
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°	2973.3	2973.3	2973.3	2973.3	2973.3	2973.3	2973.3	2973.3	2973.3	2973.3	2973.3
2.5°	2951.0	2958.5	2980.8	3014.3	3032.9	3070.1	3096.1	3111.0	3122.2	3125.9	3125.9
5°	2925.0	2939.8	2988.2	3044.0	3096.1	3174.3	3245.0	3285.9	3315.7	3326.9	3330.6
7.5°	2932.4	2969.6	3040.3	3122.2	3189.2	3289.7	3375.2	3457.1	3524.1	3550.1	3550.1
10°	3003.1	3055.2	3152.0	3259.9	3345.5	3449.7	3539.0	3609.7	3687.8	3732.5	3739.9
12.5°	3111.0	3174.3	3300.8	3419.9	3516.7	3598.5	3680.4	3732.5	3769.7	3803.2	3810.6
15°	3263.6	3341.8	3468.3	3591.1	3676.7	3728.8	3751.1	3751.1	3747.4	3751.1	3758.5
17.5°	3416.2	3490.6	3617.1	3739.9	3780.9	3751.1	3725.0	3717.6	3713.9	3706.4	3710.2
20°	3565.0	3635.7	3743.7	3836.7	3803.2	3699.0	3665.5	3661.8	3650.6	3643.2	3635.7
22.5°	3713.9	3766.0	3855.3	3888.8	3754.8	3606.0	3565.0	3542.7	3527.8	3509.2	3490.6
25°	3885.1	3900.0	3966.9	3914.8	3635.7	3434.8	3375.2	3341.8	3326.9	3308.3	3293.4
27.5°	4045.1	4045.1	4056.2	3873.9	3460.8	3207.8	3118.5	3058.9	3055.2	3051.5	3047.8
30°	4190.2	4171.6	4134.4	3751.1	3233.8	2928.7	2794.7	2735.2	2757.5	2776.1	2779.8
32.5°	4361.4	4324.2	4220.0	3583.6	2962.2	2616.1	2452.4	2426.3	2452.4	2474.7	2459.8
35°	4629.3	4562.3	4309.3	3390.1	2701.7	2329.6	2173.3	2136.0	2128.6	2124.9	2095.1
37.5°	5012.6	4897.3	4380.0	3181.7	2444.9	2076.5	1961.1	1883.0	1812.3	1737.9	1726.7
40°	5481.5	5284.3	4428.4	2943.6	2173.3	1864.4	1741.6	1641.1	1522.0	1391.8	1376.9
42.5°	5995.1	5701.1	4450.7	2679.4	1935.1	1689.5	1536.9	1410.4	1276.4	1175.9	1157.3
45°	6549.5	6151.4	4432.1	2426.3	1741.6	1540.6	1369.4	1231.8	1123.8	1053.1	1038.3
47.5°	7089.1	6668.6	4380.0	2225.4	1592.7	1414.1	1239.2	1112.7	1030.8	952.7	934.1
50°	7781.3	7163.6	4316.7	2069.1	1429.0	1287.6	1157.3	1023.4	930.3	893.1	885.7
52.5°	8547.9	7658.5	4242.3	1871.8	1269.0	1187.1	1105.2	986.2	956.4	885.7	874.5
55°	9377.7	8246.5	4227.4	1622.5	1127.6	1116.4	1053.1	1019.6	1027.1	885.7	867.1
57.5°	10252.3	8875.4	4260.9	1373.2	1012.2	1053.1	1075.5	1049.4	1038.3	904.3	867.1
60°	11164.0	9481.9	4160.4	1142.4	922.9	1001.0	1101.5	1034.5	952.7	896.8	870.8
62.5°	12049.7	9991.8	3725.0	978.7	855.9	986.2	1086.6	978.7	885.7	885.7	874.5
65°	12693.4	10218.8	2913.8	859.6	811.2	967.5	1060.6	941.5	867.1	893.1	878.2
67.5°	12767.9	9984.3	1957.4	766.6	774.0	934.1	1001.0	908.0	848.5	915.4	893.1
70°	12310.1	9374.0	1198.3	695.9	725.7	874.5	948.9	874.5	822.4	896.8	863.3
72.5°	11123.0	8235.3	844.7	636.3	673.6	818.7	900.6	844.7	785.2	811.2	777.8
75°	9124.7	6382.1	669.8	580.5	621.5	766.6	859.6	800.1	740.5	729.4	707.1
77.5°	6463.9	4089.7	539.6	535.9	565.6	703.3	803.8	748.0	688.4	666.1	651.2
80°	3717.6	2005.8	465.2	483.8	513.5	640.1	736.8	688.4	632.6	599.1	576.8
82.5°	1421.5	699.6	409.3	420.5	454.0	573.1	669.8	628.9	573.1	602.9	506.1
85°	461.4	383.3	334.9	346.1	379.6	476.3	591.7	558.2	494.9	439.1	405.6
87.5°	204.7	208.4	178.6	197.2	238.2	316.3	431.7	409.3	361.0	301.4	290.3
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)