

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: P399771

Luminaire Tested: **ARCH-L-PA3-190-727-U-T2U**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P399771
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-12)
Test Lab: INNOVATION CENTER
Issue Date: 5/19/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-L-PA3-190-727-U-T2U
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 2700K, 810mA LIGHT ENGINES WITH 24 LEDS AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23075 lumens
Efficiency: N/A
Efficacy: 122.1 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

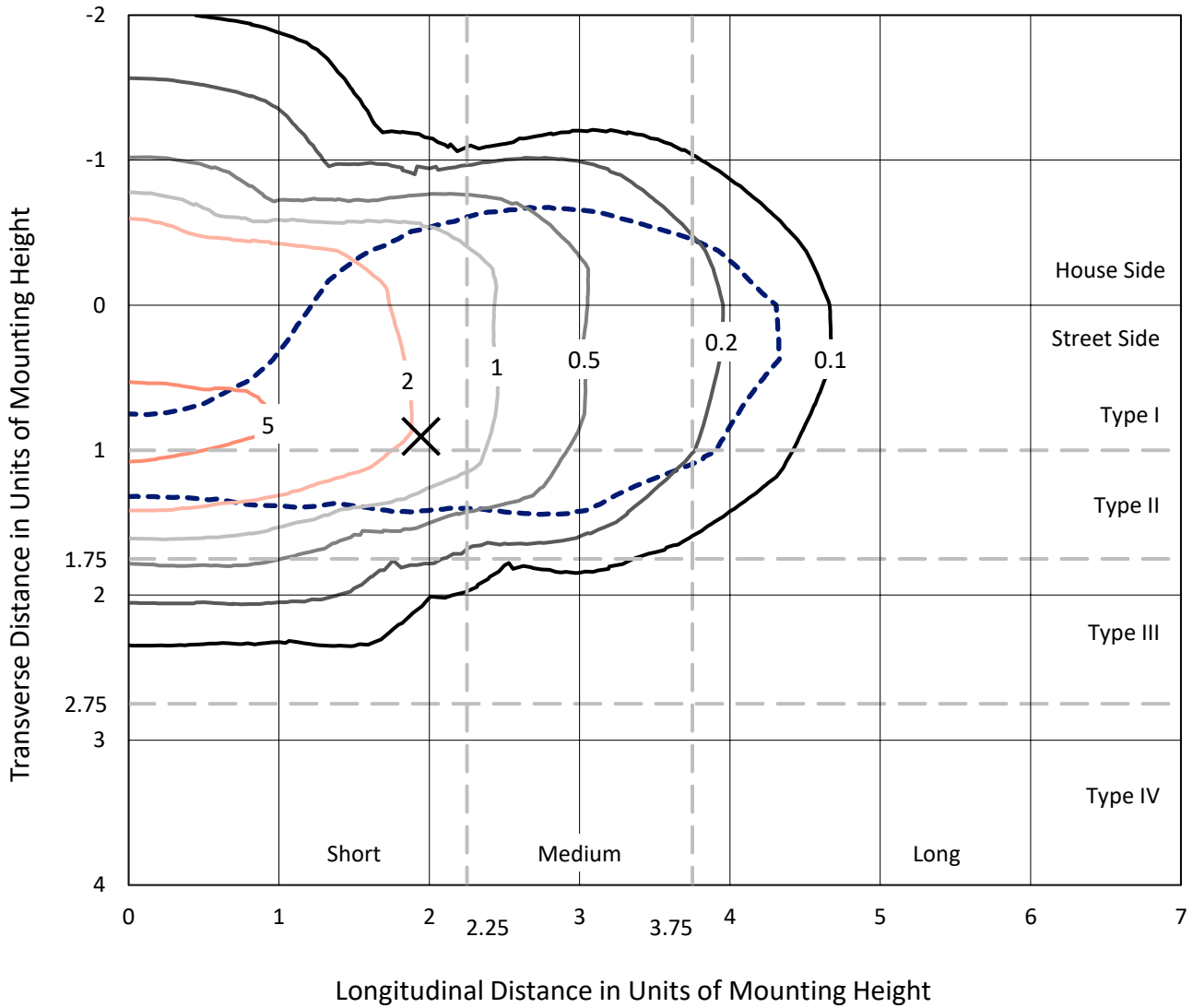
Input Watts (W): 189
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P399771
 CATALOG NUMBER: ARCH-L-PA3-190-727-U-T2U

Iso-Footcandle Lines of Horizontal Illumination

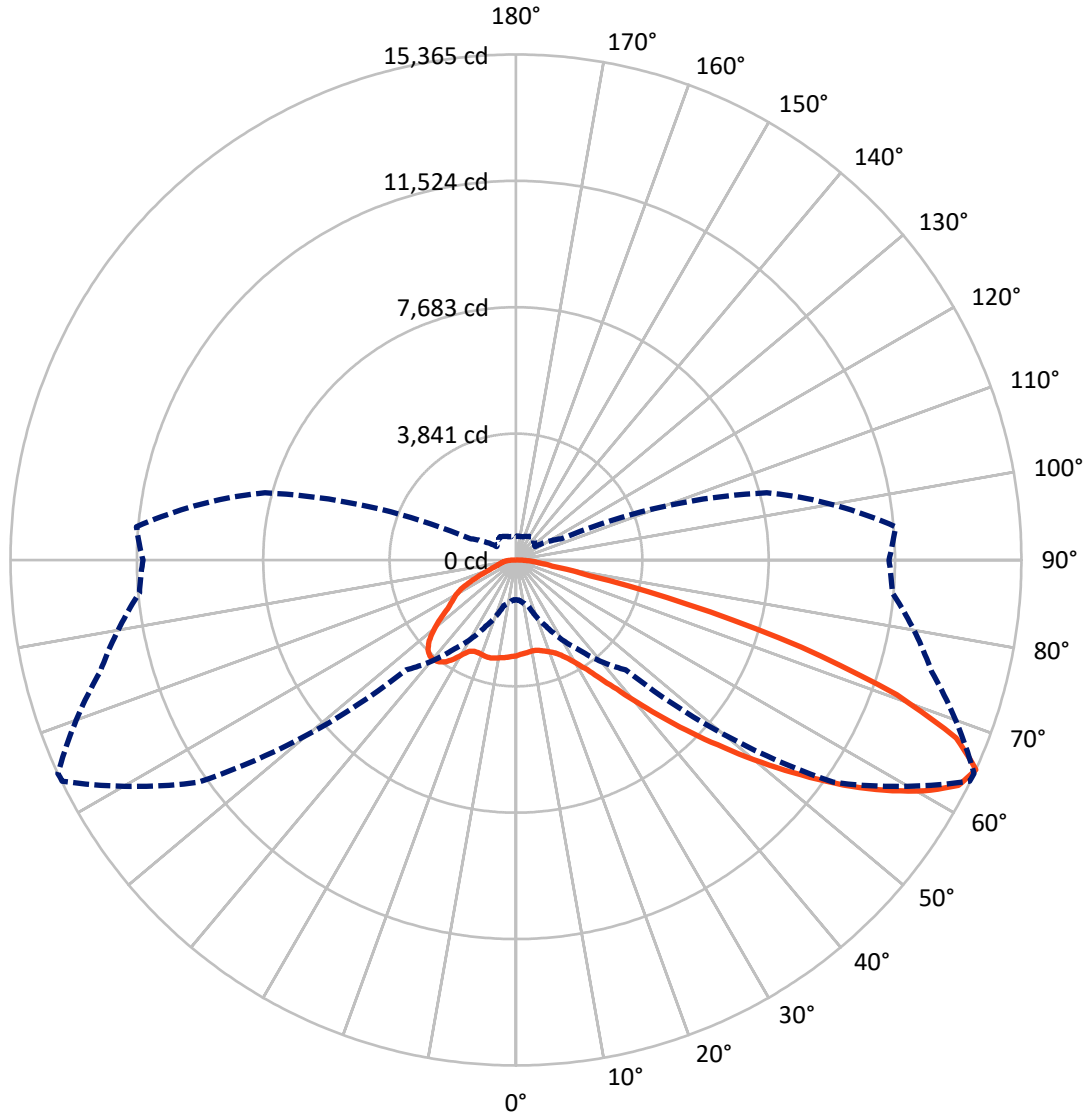
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.4 fc
 Type II - Short - N/A

REPORT NUMBER: P399771
CATALOG NUMBER: ARCH-L-PA3-190-727-U-T2U

Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

REPORT NUMBER: P399771
 CATALOG NUMBER: ARCH-L-PA3-190-727-U-T2U

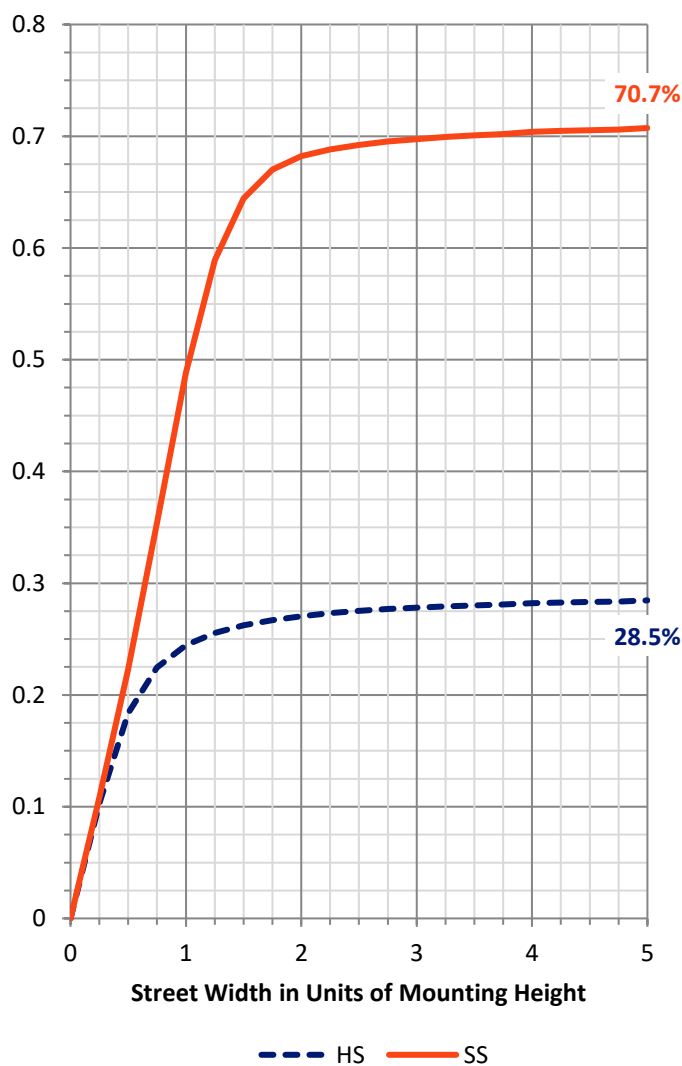
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6671.3	0.0	6671.3
	% Fixture	28.9	0.0	28.9
Street Side	Lumens	16403.7	0.0	16403.7
	% Fixture	71.1	0.0	71.1
Total	Lumens	23075.0	0.0	23075.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	277.8	1.2
10°-20°	829.4	3.6
20°-30°	1473.2	6.4
30°-40°	2492.3	10.8
40°-50°	4338.6	18.8
50°-60°	5606.8	24.3
60°-70°	4906.2	21.3
70°-80°	2668.7	11.6
80°-90°	482.2	2.1
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°	23075.0	100.0
0°-180°	23075.0	100.0

Coefficient of Utilization



REPORT NUMBER: P399771

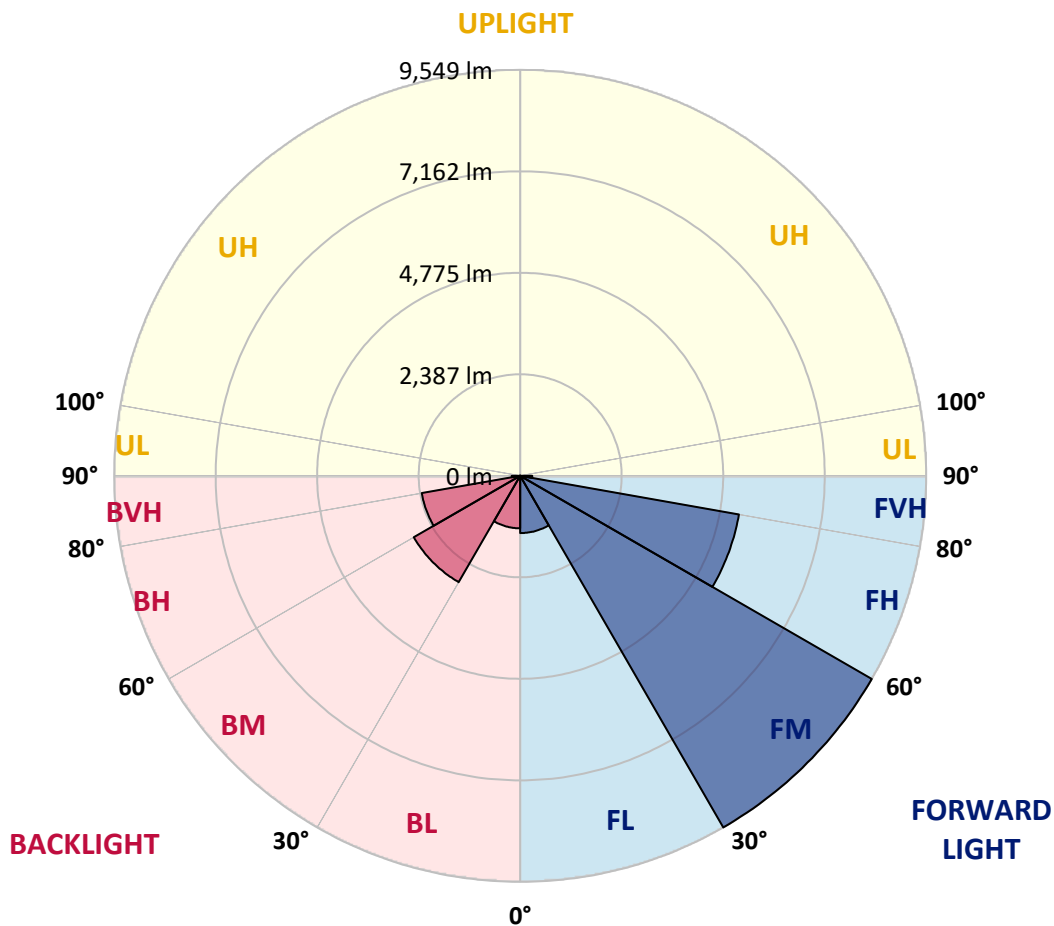
CATALOG NUMBER: ARCH-L-PA3-190-727-U-T2U

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1346.4	5.8			
FM (30°-60°)	9549.1	41.4			
FH (60°-80°)	5224.5	22.6			G3/7500
FVH (80°-90°)	283.7	1.2			G3/500
BL (0°-30°)	1234.0	5.3	B3/2500		
BM (30°-60°)	2888.5	12.5	B3/5000		
BH (60°-80°)	2350.4	10.2	B3/2500		G3/2500
BVH (80°-90°)	198.4	0.9			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Short





REPORT NUMBER: P399771

CATALOG NUMBER: ARCH-L-PA3-190-727-U-T2U

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	2915.7	2915.7	2915.7	2915.7	2915.7	2915.7	2915.7	2915.7	2915.7	2915.7	2915.7
2.5°	2864.1	2861.1	2855.0	2861.1	2864.1	2870.2	2867.2	2873.2	2870.2	2879.3	2894.5
5°	2791.2	2785.1	2782.1	2797.3	2806.4	2821.6	2827.7	2848.9	2845.9	2861.1	2885.4
7.5°	2709.2	2709.2	2706.2	2724.4	2736.6	2763.9	2785.1	2821.6	2824.6	2852.0	2879.3
10°	2645.4	2648.5	2645.4	2660.6	2678.8	2712.3	2748.7	2800.3	2803.4	2842.9	2870.2
12.5°	2621.1	2621.1	2621.1	2642.4	2666.7	2712.3	2754.8	2809.4	2815.5	2858.0	2882.3
15°	2654.5	2657.6	2651.5	2672.8	2700.1	2754.8	2794.3	2852.0	2858.0	2897.5	2912.7
17.5°	2773.0	2785.1	2770.0	2782.1	2776.0	2818.6	2855.0	2912.7	2915.7	2949.2	2955.2
20°	3006.9	3019.0	2994.7	2979.5	2924.9	2921.8	2937.0	2982.6	2982.6	3003.8	2988.6
22.5°	3368.3	3380.4	3337.9	3280.2	3149.6	3085.8	3052.4	3073.7	3070.6	3079.8	3040.3
25°	3848.2	3845.1	3793.5	3687.2	3477.6	3322.7	3240.7	3207.3	3207.3	3189.1	3140.5
27.5°	4443.5	4397.9	4306.8	4179.2	3887.7	3672.0	3495.9	3410.8	3395.6	3341.0	3249.8
30°	5078.3	5044.9	4914.3	4729.0	4391.8	4115.5	3823.9	3653.8	3644.7	3526.2	3389.6
32.5°	5825.4	5770.8	5625.0	5403.2	4999.3	4610.5	4246.1	3987.9	3972.7	3784.4	3596.1
35°	6785.2	6739.6	6457.2	6235.4	5716.1	5205.8	4774.5	4431.3	4419.2	4188.4	3948.4
37.5°	7936.3	7817.9	7544.5	7128.4	6581.7	5977.3	5430.6	4999.3	4984.1	4729.0	4425.3
40°	8962.9	8856.6	8613.6	8230.9	7644.7	6973.5	6232.4	5710.0	5694.8	5385.0	5002.3
42.5°	9722.2	9649.3	9491.4	9269.7	8850.5	8443.5	7256.0	6569.5	6542.2	6141.3	5664.4
45°	10162.6	10104.9	10013.8	10068.4	10062.4	9986.4	8476.9	7593.1	7505.0	6985.6	6402.5
47.5°	10056.3	10004.7	10041.1	10466.3	11052.5	11492.9	9898.4	8640.9	8522.5	7845.2	7189.1
50°	9287.9	9309.1	9500.5	10314.5	11629.6	12607.6	11474.7	9834.6	9676.6	8710.8	7936.3
52.5°	7887.7	7939.3	8404.0	9543.0	11565.8	13330.4	12899.1	11067.7	10858.1	9555.2	8616.6
55°	6265.8	6396.4	6997.8	8194.5	10733.6	13382.1	13974.3	12306.9	12076.1	10347.9	9208.9
57.5°	4634.8	4829.2	5524.7	6624.2	9139.0	12565.1	14511.9	13491.4	13212.0	11134.5	9834.6
60°	2940.0	3058.5	3860.3	5157.2	6994.8	10566.6	14442.1	14499.8	14256.8	11918.1	10487.6
62.5°	1877.0	1934.7	2338.7	3678.1	4890.0	7823.9	13679.7	15262.1	15098.1	12631.9	11107.2
65°	1205.8	1230.1	1436.6	2262.7	3328.8	4722.9	11781.4	15344.1	15365.4	13078.3	11489.9
67.5°	981.0	993.2	1069.1	1397.1	2353.9	2609.0	8206.6	14177.8	14436.0	12962.9	11359.3
70°	892.9	908.1	987.1	1114.7	1822.3	1801.1	3972.7	11863.5	12285.6	12297.8	10779.2
72.5°	753.2	774.5	880.8	1053.9	1409.3	1421.4	1682.6	8449.6	9072.2	10991.8	9907.5
75°	628.7	640.9	732.0	929.4	1193.6	1135.9	1181.5	4479.9	5378.9	8814.1	8981.1
77.5°	510.3	522.4	589.2	741.1	1060.0	883.8	929.4	1855.8	2293.1	5983.4	7341.0
80°	364.5	376.6	452.5	577.1	801.8	795.8	689.5	1023.5	1111.6	3234.7	4768.5
82.5°	261.2	270.3	343.2	413.1	555.8	798.8	519.4	695.5	728.9	1433.6	1922.6
85°	176.2	176.2	236.9	273.4	358.4	504.2	419.1	470.8	492.0	680.3	519.4
87.5°	75.9	75.9	127.6	139.7	188.3	233.9	312.8	236.9	243.0	367.5	212.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P399771

CATALOG NUMBER: ARCH-L-PA3-190-727-U-T2U

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2915.7	2915.7	2915.7	2915.7	2915.7	2915.7	2915.7	2915.7	2915.7	2915.7	2915.7
2.5°	2903.6	2906.6	2912.7	2930.9	2943.1	2961.3	2970.4	2982.6	2982.6	2976.5	2979.5
5°	2897.5	2906.6	2927.9	2961.3	2982.6	3016.0	3040.3	3058.5	3064.6	3058.5	3061.5
7.5°	2894.5	2909.7	2946.1	2994.7	3025.1	3067.6	3101.0	3122.3	3137.5	3131.4	3134.4
10°	2885.4	2909.7	2955.2	3016.0	3061.5	3104.1	3134.4	3143.5	3152.7	3146.6	3143.5
12.5°	2897.5	2924.9	2973.5	3046.3	3098.0	3131.4	3140.5	3125.3	3104.1	3091.9	3088.9
15°	2921.8	2949.2	2997.8	3073.7	3119.2	3131.4	3110.1	3061.5	3012.9	2985.6	2982.6
17.5°	2955.2	2973.5	3012.9	3079.8	3116.2	3101.0	3058.5	3000.8	2964.3	2943.1	2946.1
20°	2976.5	2976.5	3006.9	3058.5	3088.9	3076.7	3025.1	2961.3	2903.6	2876.3	2867.2
22.5°	3006.9	2991.7	2994.7	3040.3	3082.8	3064.6	2955.2	2842.9	2760.8	2730.5	2727.4
25°	3088.9	3046.3	3019.0	3046.3	3146.6	2997.8	2779.1	2648.5	2572.5	2545.2	2548.2
27.5°	3189.1	3131.4	3073.7	3119.2	3198.2	2845.9	2554.3	2405.5	2359.9	2338.7	2347.8
30°	3289.3	3213.4	3137.5	3301.5	3161.8	2609.0	2265.8	2120.0	2080.5	2065.3	2077.5
32.5°	3474.6	3350.1	3259.0	3544.5	3049.4	2338.7	1952.9	1819.3	1782.9	1764.6	1758.6
35°	3784.4	3626.5	3535.3	3757.1	2891.5	2038.0	1667.4	1573.3	1533.8	1494.3	1488.2
37.5°	4230.9	4039.5	3957.5	3878.6	2669.7	1740.3	1448.8	1385.0	1327.3	1266.5	1263.5
40°	4765.4	4516.4	4455.6	3933.2	2363.0	1460.9	1296.9	1236.2	1163.3	1105.6	1108.6
42.5°	5382.0	5063.1	4932.5	3918.0	1983.3	1312.1	1187.6	1120.7	1057.0	1005.3	1002.3
45°	6041.1	5679.6	5378.9	3811.7	1606.7	1208.8	1120.7	1041.8	978.0	920.3	914.2
47.5°	6770.0	6366.1	5792.0	3605.2	1327.3	1135.9	1081.3	968.9	911.2	874.7	874.7
50°	7505.0	7022.1	6171.7	3292.4	1163.3	1081.3	1023.5	929.4	883.8	853.5	853.5
52.5°	8133.7	7705.5	6484.5	2918.8	1060.0	1035.7	984.1	911.2	862.6	835.2	832.2
55°	8744.2	8340.3	6763.9	2548.2	975.0	975.0	975.0	896.0	841.3	817.0	814.0
57.5°	9351.7	9008.4	7055.5	2305.3	899.0	923.3	956.7	877.8	823.1	801.8	798.8
60°	10038.1	9810.3	7392.6	2135.2	832.2	868.7	932.4	856.5	792.7	774.5	771.5
62.5°	10767.0	10767.0	7699.4	1895.2	771.5	823.1	896.0	829.2	765.4	750.2	747.2
65°	11338.0	11584.0	7896.8	1536.8	710.7	777.5	853.5	792.7	728.9	725.9	719.8
67.5°	11404.8	11790.6	7772.3	1160.2	656.0	728.9	810.9	753.2	692.5	692.5	683.4
70°	10924.9	11316.7	7383.5	868.7	616.6	680.3	756.3	704.6	646.9	653.0	637.8
72.5°	10123.1	10220.3	6417.7	686.4	571.0	628.7	689.5	650.0	598.3	598.3	577.1
75°	9066.2	8525.5	4662.2	574.0	516.3	568.0	622.6	589.2	543.7	528.5	516.3
77.5°	7216.5	6177.7	2709.2	495.1	470.8	510.3	546.7	522.4	482.9	449.5	449.5
80°	4397.9	3620.4	1196.7	428.3	416.1	446.5	470.8	443.4	410.0	376.6	367.5
82.5°	1673.5	1397.1	580.1	367.5	364.5	382.7	400.9	373.6	349.3	334.1	288.5
85°	458.6	422.2	397.9	306.8	300.7	297.6	318.9	306.8	273.4	224.8	200.5
87.5°	173.1	197.4	215.6	188.3	200.5	185.3	212.6	194.4	173.1	112.4	100.2
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)