

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: P400349

Luminaire Tested: **ARCH-L-PA3-270-727-U-T3**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P400349
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-PA3-270-727-U-T3
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 2700K, 1155mA LIGHT ENGINES WITH 24 LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29515 lumens
Efficiency: N/A
Efficacy: 108.1 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

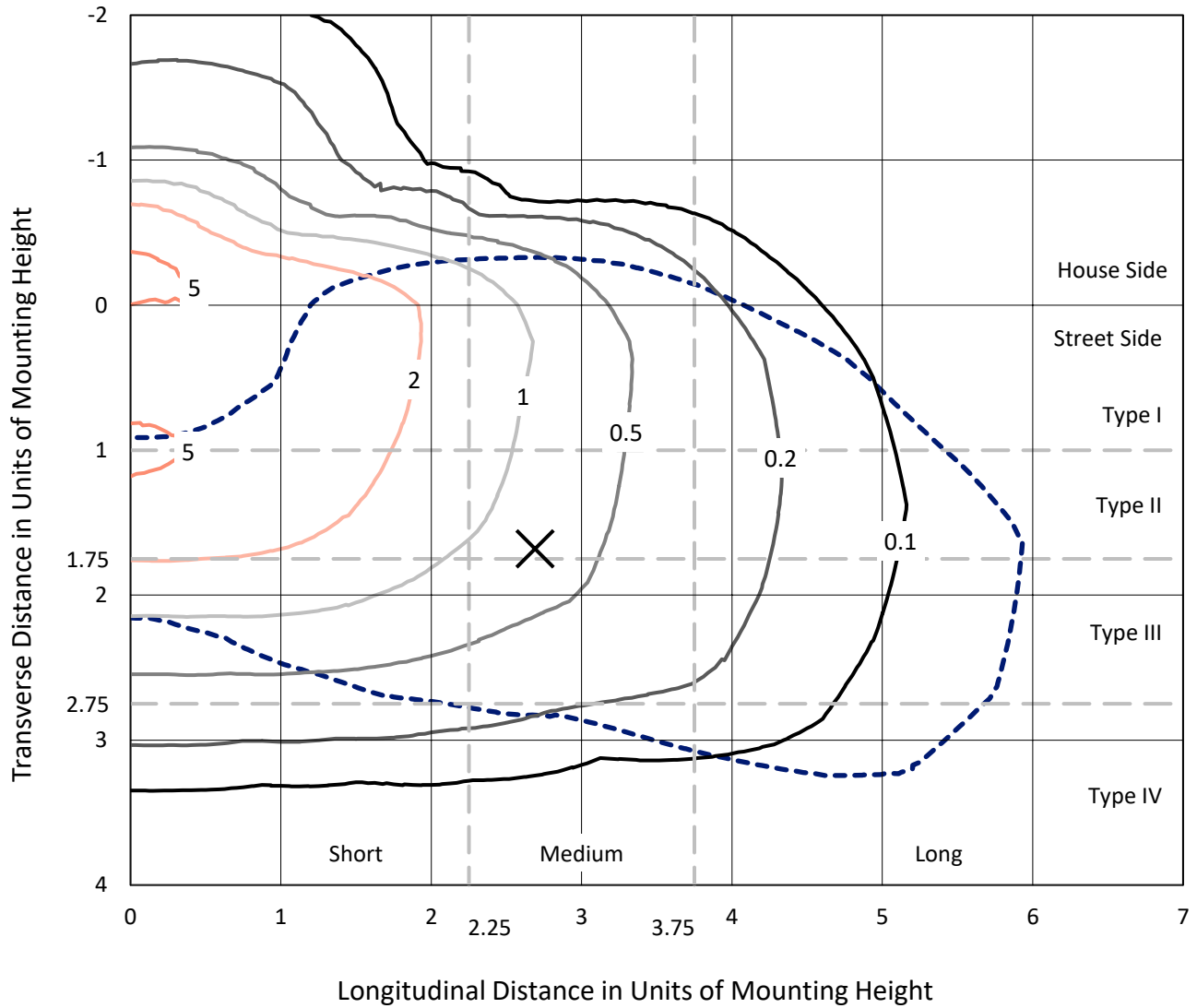
Input Watts (W): 273
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P400349
 CATALOG NUMBER: ARCH-L-PA3-270-727-U-T3

Iso-Footcandle Lines of Horizontal Illumination

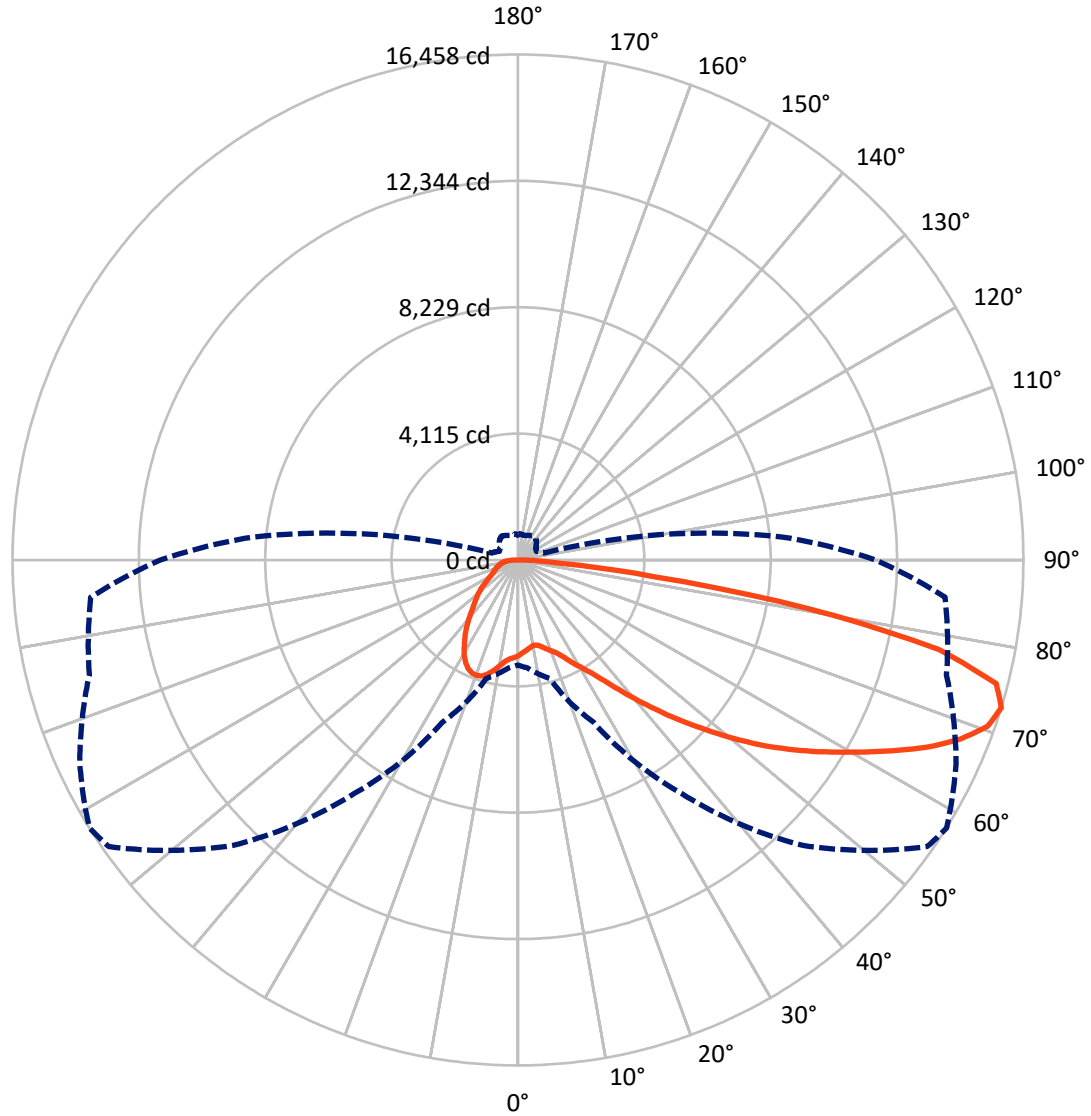
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.8 fc
 Type IV - Medium - N/A

REPORT NUMBER: P400349
CATALOG NUMBER: ARCH-L-PA3-270-727-U-T3

Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

REPORT NUMBER: P400349
 CATALOG NUMBER: ARCH-L-PA3-270-727-U-T3

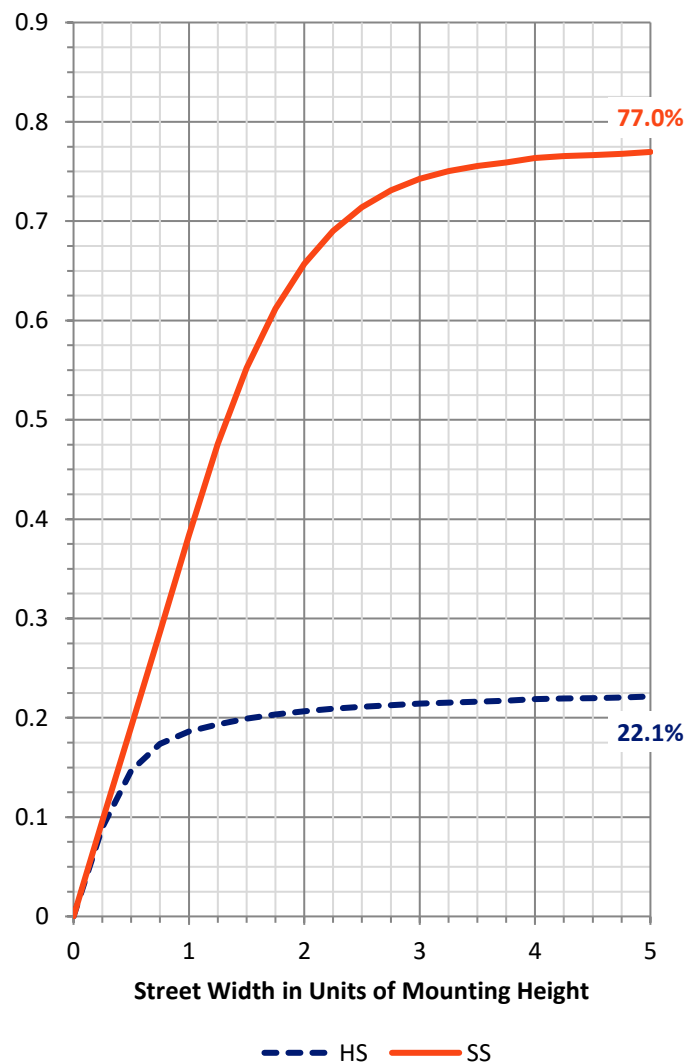
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6693.7	0.0	6693.7
	% Fixture	22.7	0.0	22.7
Street Side	Lumens	22821.3	0.0	22821.3
	% Fixture	77.3	0.0	77.3
Total	Lumens	29515.0	0.0	29515.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	299.9	1.0
10°-20°	952.4	3.2
20°-30°	1706.1	5.8
30°-40°	2566.4	8.7
40°-50°	4155.9	14.1
50°-60°	6256.0	21.2
60°-70°	7362.7	24.9
70°-80°	5220.8	17.7
80°-90°	994.8	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°	29515.0	100.0
0°-180°	29515.0	100.0



REPORT NUMBER: P400349

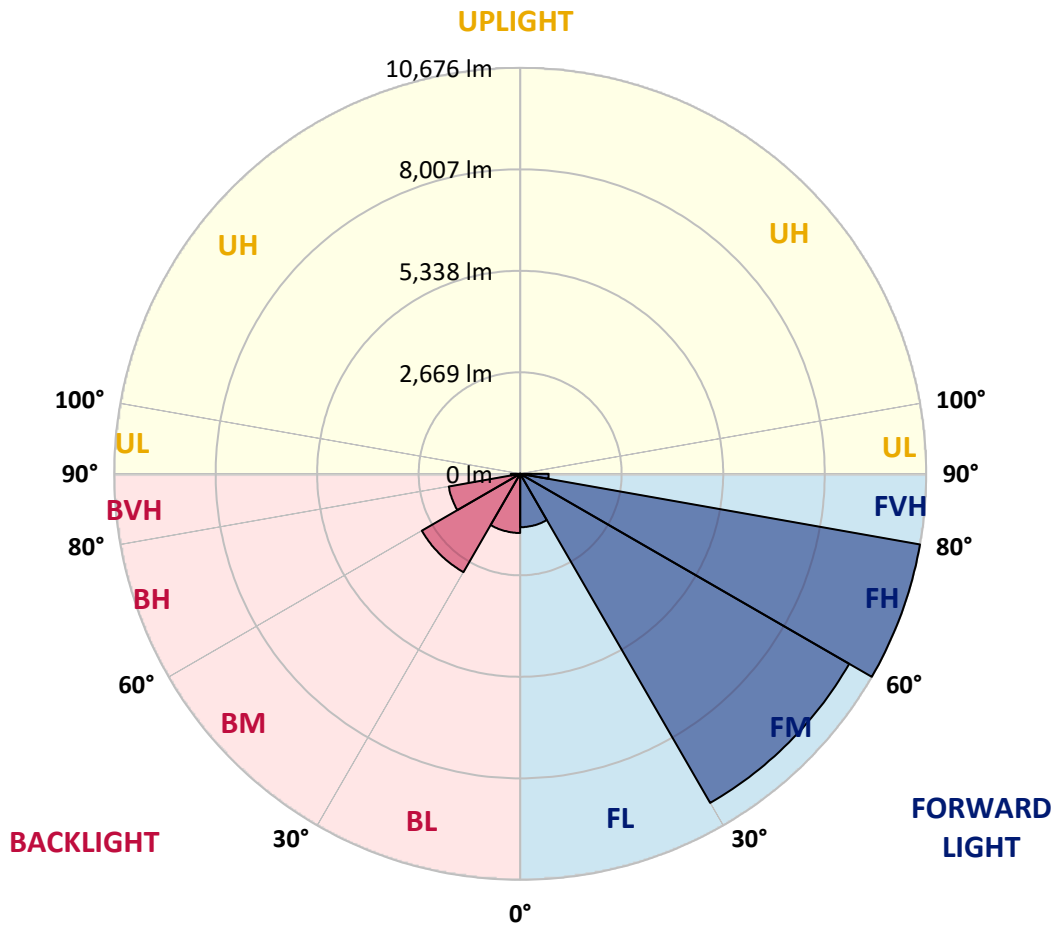
CATALOG NUMBER: ARCH-L-PA3-270-727-U-T3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1403.6	4.8			
FM (30°-60°)	9991.7	33.9			
FH (60°-80°)	10675.7	36.2			G4/12000
FVH (80°-90°)	750.4	2.5			G5
BL (0°-30°)	1554.8	5.3	B3/2500		
BM (30°-60°)	2986.7	10.1	B3/5000		
BH (60°-80°)	1907.8	6.5	B3/2500		G3/2500
BVH (80°-90°)	244.4	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





REPORT NUMBER: P400349

CATALOG NUMBER: ARCH-L-PA3-270-727-U-T3

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	3113.2	3113.2	3113.2	3113.2	3113.2	3113.2	3113.2	3113.2	3113.2	3113.2	3113.2
2.5°	2996.3	2980.7	2984.6	2984.6	3000.2	3008.0	3011.9	3023.6	3031.4	3050.9	3078.1
5°	2856.0	2844.4	2848.3	2852.1	2879.4	2906.7	2930.1	2945.7	2969.0	3000.2	3039.2
7.5°	2754.7	2746.9	2750.8	2758.6	2782.0	2813.2	2852.1	2875.5	2910.6	2969.0	3035.3
10°	2680.7	2680.7	2684.6	2700.2	2723.6	2762.5	2793.7	2821.0	2891.1	2996.3	3097.6
12.5°	2622.3	2622.3	2634.0	2665.1	2704.1	2743.0	2817.1	2848.3	2941.8	3085.9	3206.7
15°	2618.4	2622.3	2626.2	2653.4	2696.3	2782.0	2891.1	2937.9	3050.9	3222.3	3362.6
17.5°	2680.7	2684.6	2669.0	2676.8	2727.5	2848.3	2992.4	3047.0	3191.1	3378.2	3522.3
20°	2871.6	2871.6	2824.9	2782.0	2817.1	2949.6	3113.2	3167.8	3327.5	3534.0	3678.2
22.5°	3261.3	3280.7	3171.7	3078.1	3023.6	3097.6	3245.7	3304.1	3483.4	3705.5	3849.6
25°	3732.7	3752.2	3604.1	3471.7	3370.4	3358.7	3456.1	3518.4	3666.5	3896.4	4017.2
27.5°	4188.6	4153.5	4017.2	3892.5	3763.9	3658.7	3732.7	3787.3	3958.7	4134.1	4208.1
30°	4547.1	4519.8	4387.3	4297.7	4176.9	4040.5	3997.7	4056.1	4196.4	4360.0	4399.0
32.5°	4944.5	4925.0	4792.5	4675.7	4574.3	4445.8	4352.3	4379.5	4457.5	4574.3	4597.7
35°	5451.0	5493.9	5353.6	5115.9	5002.9	4878.3	4812.0	4819.8	4878.3	4952.3	4913.3
37.5°	5984.8	6035.5	6043.3	5669.2	5517.3	5404.3	5334.1	5361.4	5431.5	5482.2	5361.4
40°	6974.5	6923.9	6721.2	6444.6	6210.8	6101.7	6004.3	6000.4	6051.1	6140.7	5922.5
42.5°	8287.6	8240.8	7831.7	7473.3	7103.1	6978.4	6787.5	6705.7	6729.0	6842.0	6538.1
45°	9546.1	9526.6	9199.3	8782.4	8338.2	8096.7	7660.3	7461.6	7442.1	7531.7	7169.3
47.5°	10664.4	10578.7	10341.0	10017.6	9970.8	9339.6	8537.0	8268.1	8174.6	8225.3	7820.0
50°	11860.6	11568.3	11241.0	11042.3	11381.3	10793.0	9421.4	9140.9	8911.0	8946.1	8525.3
52.5°	12495.7	12004.7	11790.4	11848.9	12304.8	12078.8	10383.8	10041.0	9670.8	9721.5	9226.6
55°	11950.2	11946.3	12039.8	12402.2	13037.3	12776.2	11299.5	10913.8	10508.5	10520.2	10033.2
57.5°	11202.1	11354.0	11837.2	12635.9	13945.1	13508.7	12199.6	11790.4	11420.3	11361.8	10948.8
60°	10520.2	10687.8	11389.1	12597.0	14260.7	14178.9	13056.8	12698.3	12398.3	12226.8	11911.2
62.5°	9483.8	9608.5	10602.0	12347.6	13995.8	14662.1	13925.7	13680.2	13454.2	13099.6	12947.7
65°	8264.2	8307.1	9355.2	11525.5	13664.6	14849.1	14790.6	14681.5	14463.4	13941.2	13972.4
67.5°	6943.3	7029.1	7948.6	10212.4	12939.9	14763.4	15460.8	15550.4	15293.3	14510.1	14627.0
70°	5536.8	5642.0	6339.4	8396.7	11708.6	14393.2	16080.3	16224.5	15729.7	14697.1	14747.8
72.5°	3424.9	3526.2	3993.8	5832.9	9281.2	13150.3	16271.3	16458.3	15741.4	14447.8	13960.7
75°	1184.5	1196.2	1562.4	2797.6	5509.5	9928.0	15647.8	16088.1	15246.5	13539.9	12148.9
77.5°	541.6	561.1	693.6	1153.3	2443.0	5357.5	12920.4	14023.1	13742.5	12121.6	9351.3
80°	374.1	381.8	479.3	689.7	1410.5	1885.8	8155.1	9592.9	10083.8	9386.4	5992.6
82.5°	280.5	288.3	370.2	467.6	1017.0	915.6	3105.4	4457.5	5540.6	5439.3	2505.4
85°	268.8	265.0	288.3	311.7	678.0	545.5	1005.3	1379.3	2162.5	1850.8	631.2
87.5°	116.9	128.6	296.1	175.3	354.6	253.3	436.4	510.4	658.5	572.8	226.0
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: P400349
 CATALOG NUMBER: ARCH-L-PA3-270-727-U-T3

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3113.2	3113.2	3113.2	3113.2	3113.2	3113.2	3113.2	3113.2	3113.2	3113.2	3113.2
2.5°	3089.8	3097.6	3121.0	3156.1	3175.5	3214.5	3241.8	3257.4	3269.1	3273.0	3273.0
5°	3062.6	3078.1	3128.8	3187.2	3241.8	3323.6	3397.6	3440.5	3471.7	3483.4	3487.3
7.5°	3070.3	3109.3	3183.3	3269.1	3339.2	3444.4	3534.0	3619.7	3689.9	3717.1	3717.1
10°	3144.4	3198.9	3300.2	3413.2	3502.8	3611.9	3705.5	3779.5	3861.3	3908.1	3915.9
12.5°	3257.4	3323.6	3456.1	3580.8	3682.1	3767.8	3853.5	3908.1	3947.0	3982.1	3989.9
15°	3417.1	3498.9	3631.4	3760.0	3849.6	3904.2	3927.5	3927.5	3923.7	3927.5	3935.3
17.5°	3576.9	3654.8	3787.3	3915.9	3958.7	3927.5	3900.3	3892.5	3888.6	3880.8	3884.7
20°	3732.7	3806.8	3919.8	4017.2	3982.1	3873.0	3837.9	3834.0	3822.3	3814.6	3806.8
22.5°	3888.6	3943.1	4036.6	4071.7	3931.4	3775.6	3732.7	3709.4	3693.8	3674.3	3654.8
25°	4067.8	4083.4	4153.5	4099.0	3806.8	3596.4	3534.0	3498.9	3483.4	3463.9	3448.3
27.5°	4235.4	4235.4	4247.1	4056.1	3623.6	3358.7	3265.2	3202.8	3198.9	3195.0	3191.1
30°	4387.3	4367.8	4328.9	3927.5	3386.0	3066.4	2926.2	2863.8	2887.2	2906.7	2910.6
32.5°	4566.6	4527.6	4418.5	3752.2	3101.5	2739.2	2567.7	2540.4	2567.7	2591.1	2575.5
35°	4847.1	4777.0	4512.0	3549.6	2828.8	2439.1	2275.5	2236.5	2228.7	2224.8	2193.7
37.5°	5248.4	5127.6	4586.0	3331.4	2559.9	2174.2	2053.4	1971.6	1897.5	1819.6	1807.9
40°	5739.4	5532.9	4636.7	3082.0	2275.5	1952.1	1823.5	1718.3	1593.6	1457.2	1441.7
42.5°	6277.1	5969.2	4660.1	2805.4	2026.1	1769.0	1609.2	1476.7	1336.5	1231.3	1211.8
45°	6857.6	6440.7	4640.6	2540.4	1823.5	1613.1	1433.9	1289.7	1176.7	1102.7	1087.1
47.5°	7422.6	6982.3	4586.0	2330.0	1667.6	1480.6	1297.5	1165.0	1079.3	997.5	978.0
50°	8147.3	7500.5	4519.8	2166.4	1496.2	1348.1	1211.8	1071.5	974.1	935.1	927.3
52.5°	8950.0	8018.7	4441.9	1959.9	1328.7	1242.9	1157.2	1032.5	1001.4	927.3	915.6
55°	9818.9	8634.4	4426.3	1698.8	1180.6	1168.9	1102.7	1067.6	1075.4	927.3	907.9
57.5°	10734.5	9292.9	4461.4	1437.8	1059.8	1102.7	1126.1	1098.8	1087.1	946.8	907.9
60°	11689.1	9928.0	4356.1	1196.2	966.3	1048.1	1153.3	1083.2	997.5	939.0	911.8
62.5°	12616.5	10461.8	3900.3	1024.7	896.2	1032.5	1137.7	1024.7	927.3	927.3	915.6
65°	13290.5	10699.5	3050.9	900.1	849.4	1013.1	1110.5	985.8	907.9	935.1	919.5
67.5°	13368.5	10454.0	2049.5	802.7	810.4	978.0	1048.1	950.7	888.4	958.5	935.1
70°	12889.2	9815.0	1254.6	728.6	759.8	915.6	993.6	915.6	861.1	939.0	904.0
72.5°	11646.3	8622.7	884.5	666.3	705.2	857.2	942.9	884.5	822.1	849.4	814.3
75°	9553.9	6682.3	701.3	607.8	650.7	802.7	900.1	837.7	775.4	763.7	740.3
77.5°	6768.0	4282.1	565.0	561.1	592.2	736.4	841.6	783.2	720.8	697.5	681.9
80°	3892.5	2100.1	487.0	506.5	537.7	670.2	771.5	720.8	662.4	627.3	603.9
82.5°	1488.4	732.5	428.6	440.3	475.4	600.0	701.3	658.5	600.0	631.2	529.9
85°	483.2	401.3	350.7	362.4	397.4	498.7	619.5	584.5	518.2	459.8	424.7
87.5°	214.3	218.2	187.0	206.5	249.4	331.2	452.0	428.6	377.9	315.6	303.9
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)