

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: P400133

Luminaire Tested: **ARCH-L-PA3-240-727-U-T3**

Issue Date: 5/19/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P400133  
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-PA3-240-727-U-T3  
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE  
(3) 70 CRI, 2700K, 1030mA LIGHT ENGINES WITH 24 LEDS AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 27434 lumens  
Efficiency: N/A  
Efficacy: 113.4 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

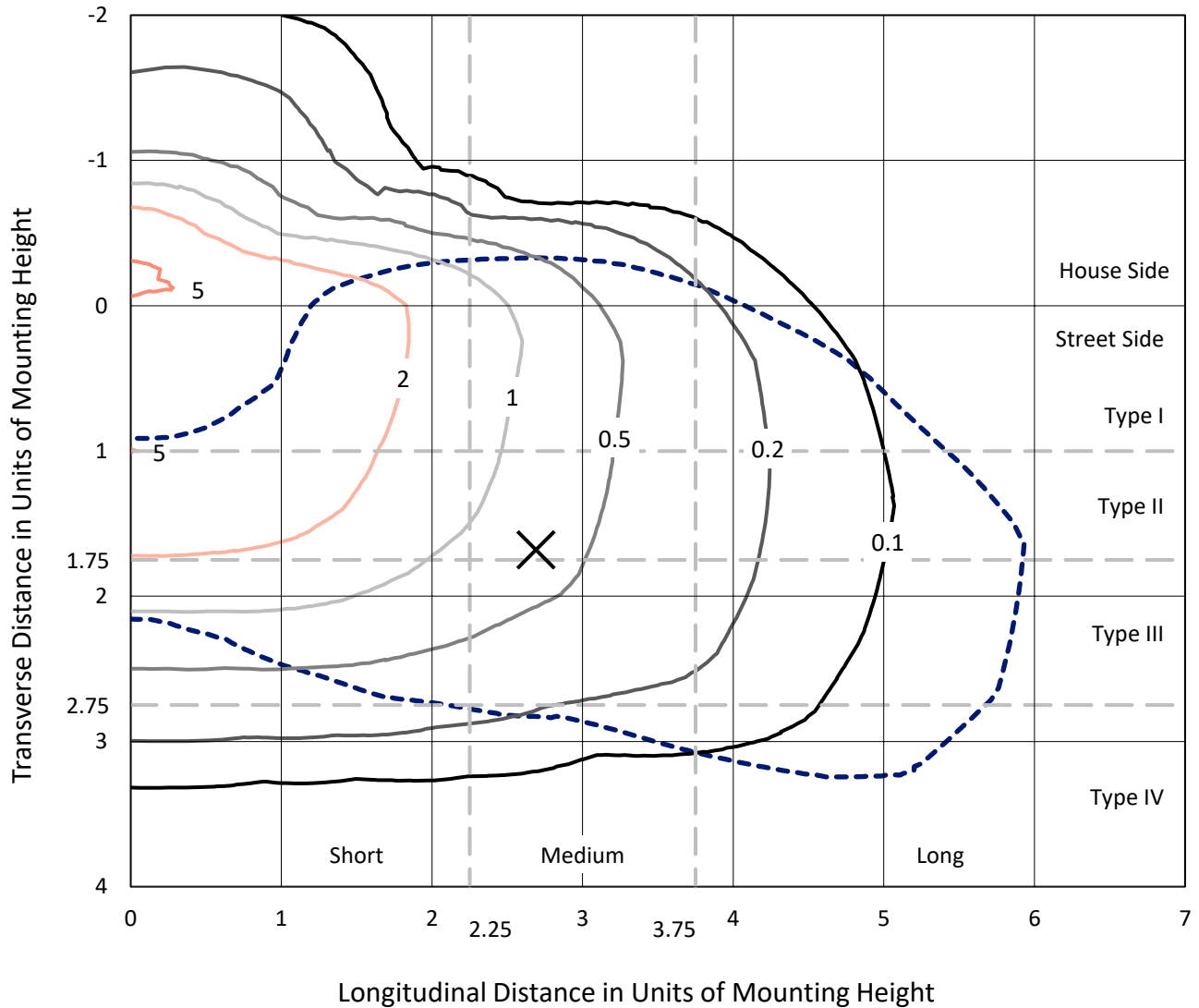
Input Watts (W): 242  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

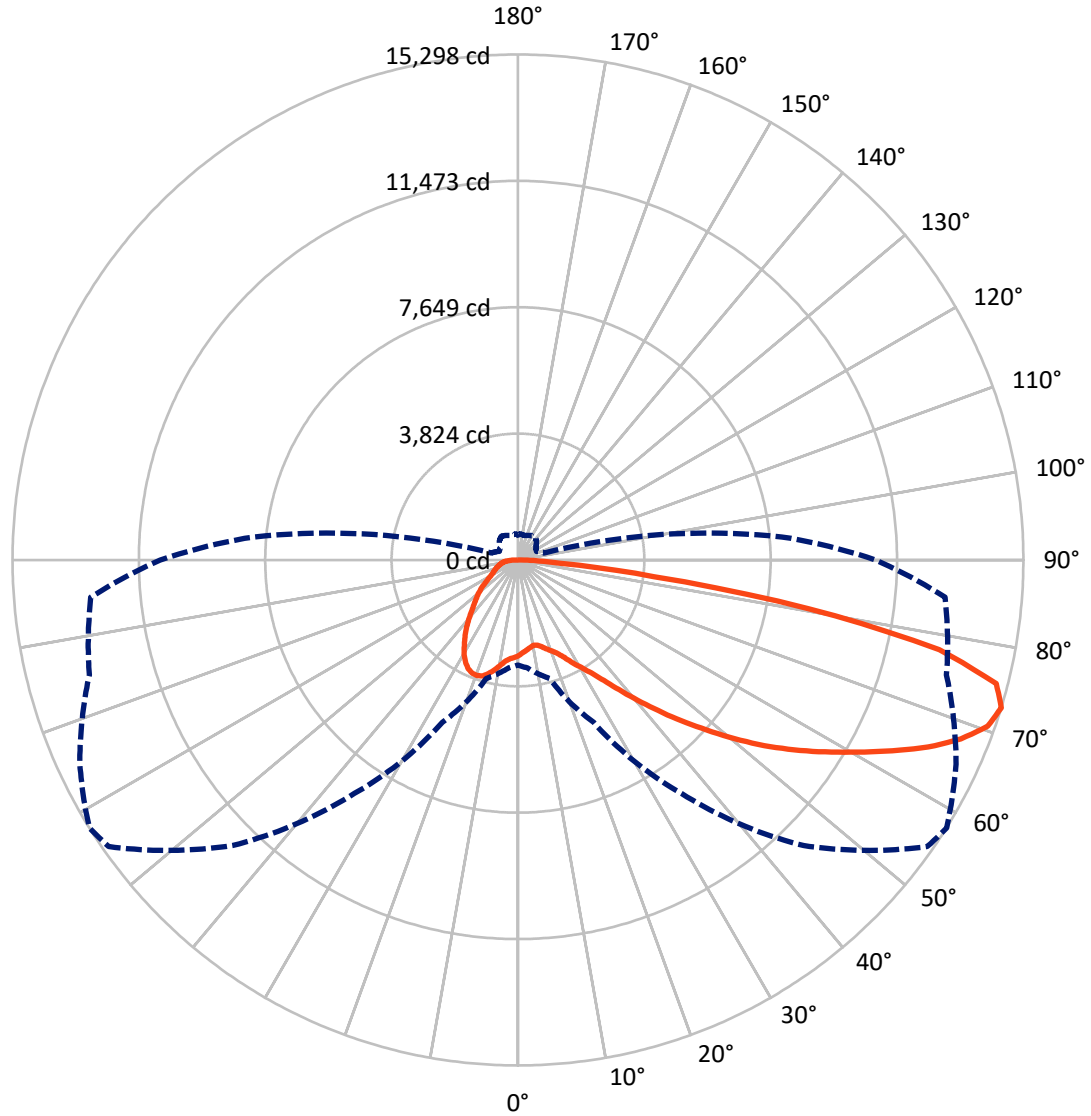
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.4 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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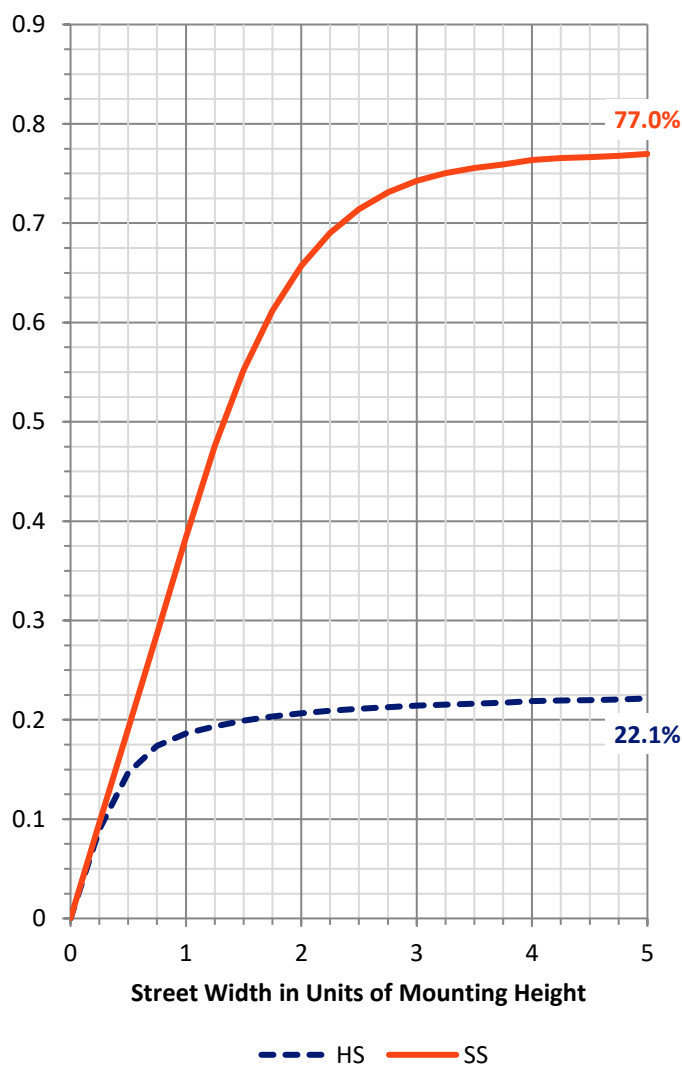
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6221.7	0.0	6221.7
	% Fixture	22.7	0.0	22.7
<b>Street Side</b>	Lumens	21212.3	0.0	21212.3
	% Fixture	77.3	0.0	77.3
<b>Total</b>	Lumens	27434.0	0.0	27434.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	278.8	1.0
10°-20°	885.3	3.2
20°-30°	1585.8	5.8
30°-40°	2385.5	8.7
40°-50°	3862.9	14.1
50°-60°	5814.9	21.2
60°-70°	6843.5	24.9
70°-80°	4852.7	17.7
80°-90°	924.7	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°	27434.0	100.0
0°-180°	27434.0	100.0

**Coefficient of Utilization**



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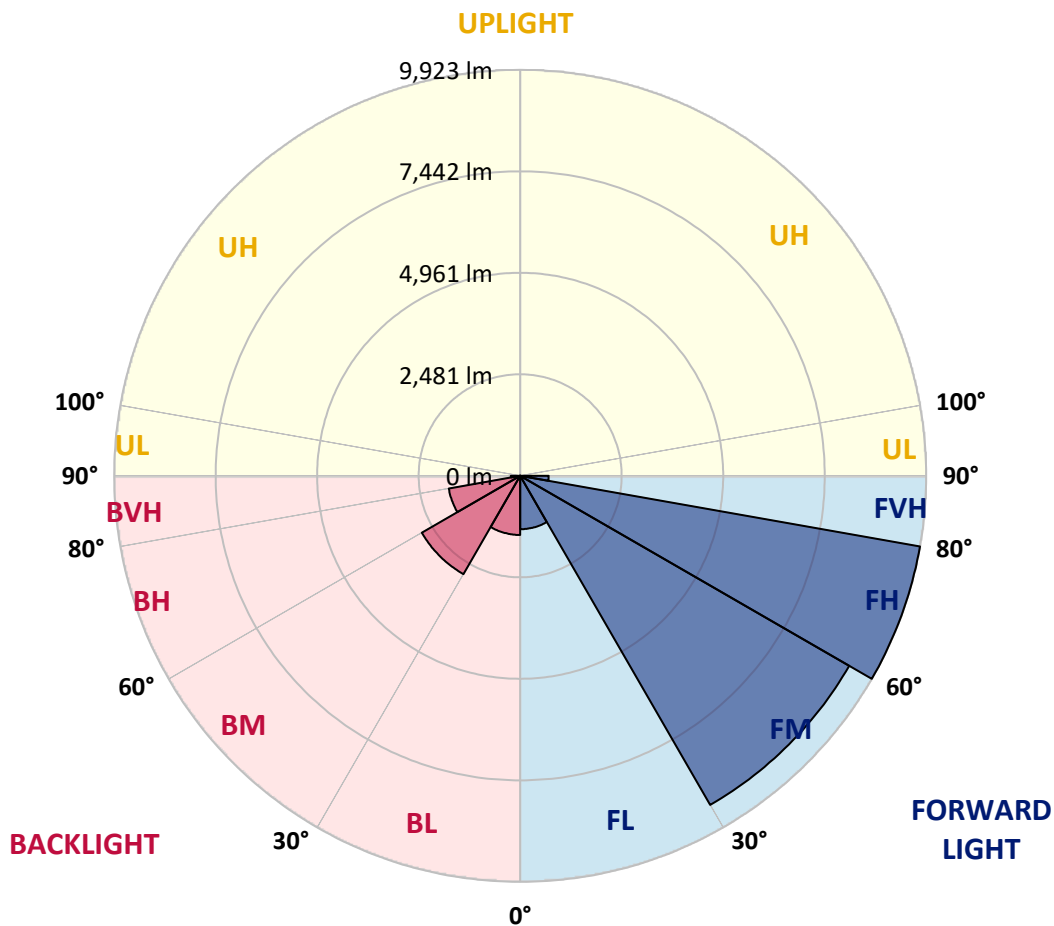
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1304.6	4.8			
FM (30°-60°)	9287.2	33.9			
FH (60°-80°)	9923.0	36.2			G4/12000
FVH (80°-90°)	697.5	2.5			G4/750
BL (0°-30°)	1445.2	5.3	B3/2500		
BM (30°-60°)	2776.1	10.1	B3/5000		
BH (60°-80°)	1773.2	6.5	B3/2500		G3/2500
BVH (80°-90°)	227.2	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°	2893.7	2893.7	2893.7	2893.7	2893.7	2893.7	2893.7	2893.7	2893.7	2893.7	2893.7
2.5°	2785.1	2770.6	2774.2	2774.2	2788.7	2795.9	2799.5	2810.4	2817.6	2835.8	2861.1
5°	2654.7	2643.8	2647.4	2651.1	2676.4	2701.8	2723.5	2738.0	2759.7	2788.7	2824.9
7.5°	2560.5	2553.3	2556.9	2564.1	2585.9	2614.8	2651.1	2672.8	2705.4	2759.7	2821.3
10°	2491.7	2491.7	2495.3	2509.8	2531.5	2567.8	2596.7	2622.1	2687.3	2785.1	2879.2
12.5°	2437.4	2437.4	2448.2	2477.2	2513.4	2549.6	2618.5	2647.4	2734.4	2868.4	2980.6
15°	2433.8	2437.4	2441.0	2466.3	2506.2	2585.9	2687.3	2730.7	2835.8	2995.1	3125.5
17.5°	2491.7	2495.3	2480.8	2488.1	2535.2	2647.4	2781.4	2832.1	2966.1	3140.0	3274.0
20°	2669.2	2669.2	2625.7	2585.9	2618.5	2741.6	2893.7	2944.4	3092.9	3284.8	3418.8
22.5°	3031.3	3049.4	2948.0	2861.1	2810.4	2879.2	3016.8	3071.2	3237.8	3444.2	3578.2
25°	3469.5	3487.7	3350.0	3226.9	3132.7	3121.9	3212.4	3270.4	3408.0	3621.7	3733.9
27.5°	3893.3	3860.7	3733.9	3618.0	3498.5	3400.7	3469.5	3520.3	3679.6	3842.6	3911.4
30°	4226.5	4201.1	4078.0	3994.7	3882.4	3755.7	3715.8	3770.1	3900.5	4052.6	4088.9
32.5°	4595.9	4577.8	4454.6	4346.0	4251.8	4132.3	4045.4	4070.7	4143.2	4251.8	4273.6
35°	5066.7	5106.5	4976.2	4755.2	4650.2	4534.3	4472.7	4480.0	4534.3	4603.1	4566.9
37.5°	5562.9	5609.9	5617.2	5269.5	5128.3	5023.2	4958.0	4983.4	5048.6	5095.7	4983.4
40°	6482.8	6435.7	6247.4	5990.2	5772.9	5671.5	5581.0	5577.4	5624.4	5707.7	5504.9
42.5°	7703.3	7659.8	7279.5	6946.3	6602.3	6486.4	6308.9	6232.9	6254.6	6359.6	6077.1
45°	8873.1	8855.0	8550.7	8163.2	7750.3	7525.8	7120.2	6935.5	6917.4	7000.7	6663.8
47.5°	9912.5	9832.8	9611.9	9311.3	9267.8	8681.1	7935.1	7685.2	7598.2	7645.3	7268.7
50°	11024.3	10752.7	10448.5	10263.8	10578.9	10032.0	8757.2	8496.4	8282.7	8315.3	7924.2
52.5°	11614.7	11158.3	10959.1	11013.5	11437.2	11227.1	9651.7	9333.0	8989.0	9036.0	8576.1
55°	11107.6	11104.0	11190.9	11527.7	12118.1	11875.4	10502.8	10144.3	9767.6	9778.5	9325.8
57.5°	10412.3	10553.5	11002.6	11745.0	12961.9	12556.3	11339.4	10959.1	10615.1	10560.8	10176.9
60°	9778.5	9934.2	10586.1	11708.8	13255.3	13179.2	12136.2	11803.0	11524.1	11364.8	11071.4
62.5°	8815.1	8931.0	9854.5	11477.0	13009.0	13628.3	12943.8	12715.6	12505.6	12176.0	12034.8
65°	7681.5	7721.4	8695.6	10712.9	12701.2	13802.1	13747.8	13646.4	13443.6	12958.3	12987.3
67.5°	6453.8	6533.5	7388.2	9492.4	12027.5	13722.5	14370.7	14454.0	14215.0	13487.0	13595.7
70°	5146.4	5244.2	5892.4	7804.7	10883.1	13378.4	14946.6	15080.6	14620.6	13660.9	13708.0
72.5°	3183.4	3277.6	3712.2	5421.6	8626.8	12223.1	15124.0	15297.9	14631.5	13429.1	12976.4
75°	1101.0	1111.8	1452.3	2600.3	5121.0	9228.0	14544.6	14953.8	14171.5	12585.3	11292.3
77.5°	503.4	521.5	644.7	1072.0	2270.8	4979.8	12009.4	13034.3	12773.6	11267.0	8692.0
80°	347.7	354.9	445.5	641.0	1311.0	1752.9	7580.1	8916.5	9372.8	8724.6	5570.1
82.5°	260.8	268.0	344.1	434.6	945.3	851.1	2886.5	4143.2	5150.0	5055.8	2328.7
85°	249.9	246.3	268.0	289.7	630.2	507.0	934.4	1282.1	2010.0	1720.3	586.7
87.5°	108.6	119.5	275.2	163.0	329.6	235.4	405.6	474.4	612.1	532.4	210.1
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°	2893.7	2893.7	2893.7	2893.7	2893.7	2893.7	2893.7	2893.7	2893.7	2893.7	2893.7
2.5°	2872.0	2879.2	2900.9	2933.5	2951.7	2987.9	3013.2	3027.7	3038.6	3042.2	3042.2
5°	2846.6	2861.1	2908.2	2962.5	3013.2	3089.3	3158.1	3197.9	3226.9	3237.8	3241.4
7.5°	2853.9	2890.1	2958.9	3038.6	3103.8	3201.5	3284.8	3364.5	3429.7	3455.1	3455.1
10°	2922.7	2973.4	3067.5	3172.6	3255.9	3357.3	3444.2	3513.0	3589.1	3632.5	3639.8
12.5°	3027.7	3089.3	3212.4	3328.3	3422.5	3502.1	3581.8	3632.5	3668.7	3701.3	3708.6
15°	3176.2	3252.2	3375.4	3494.9	3578.2	3628.9	3650.6	3650.6	3647.0	3650.6	3657.9
17.5°	3324.7	3397.1	3520.3	3639.8	3679.6	3650.6	3625.3	3618.0	3614.4	3607.2	3610.8
20°	3469.5	3538.4	3643.4	3733.9	3701.3	3599.9	3567.3	3563.7	3552.8	3545.6	3538.4
22.5°	3614.4	3665.1	3752.0	3784.6	3654.3	3509.4	3469.5	3447.8	3433.3	3415.2	3397.1
25°	3781.0	3795.5	3860.7	3810.0	3538.4	3342.8	3284.8	3252.2	3237.8	3219.7	3205.2
27.5°	3936.7	3936.7	3947.6	3770.1	3368.1	3121.9	3034.9	2977.0	2973.4	2969.8	2966.1
30°	4078.0	4059.9	4023.7	3650.6	3147.2	2850.2	2719.9	2661.9	2683.6	2701.8	2705.4
32.5°	4244.6	4208.4	4107.0	3487.7	2882.8	2546.0	2386.7	2361.3	2386.7	2408.4	2393.9
35°	4505.3	4440.2	4193.9	3299.3	2629.3	2267.2	2115.0	2078.8	2071.6	2068.0	2039.0
37.5°	4878.4	4766.1	4262.7	3096.5	2379.4	2020.9	1908.6	1832.6	1763.7	1691.3	1680.4
40°	5334.7	5142.8	4309.8	2864.7	2115.0	1814.5	1694.9	1597.2	1481.3	1354.5	1340.0
42.5°	5834.5	5548.4	4331.5	2607.6	1883.3	1644.2	1495.7	1372.6	1242.2	1144.4	1126.3
45°	6374.1	5986.6	4313.4	2361.3	1694.9	1499.4	1332.8	1198.8	1093.7	1024.9	1010.4
47.5°	6899.3	6490.0	4262.7	2165.8	1550.1	1376.2	1206.0	1082.9	1003.2	927.1	909.0
50°	7572.9	6971.7	4201.1	2013.6	1390.7	1253.1	1126.3	996.0	905.4	869.2	862.0
52.5°	8318.9	7453.4	4128.7	1821.7	1235.0	1155.3	1075.6	959.7	930.8	862.0	851.1
55°	9126.6	8025.6	4114.2	1579.0	1097.4	1086.5	1024.9	992.3	999.6	862.0	843.8
57.5°	9977.7	8637.7	4146.8	1336.4	985.1	1024.9	1046.7	1021.3	1010.4	880.1	843.8
60°	10865.0	9228.0	4049.0	1111.8	898.2	974.2	1072.0	1006.8	927.1	872.8	847.5
62.5°	11726.9	9724.1	3625.3	952.5	833.0	959.7	1057.5	952.5	862.0	862.0	851.1
65°	12353.5	9945.1	2835.8	836.6	789.5	941.6	1032.2	916.3	843.8	869.2	854.7
67.5°	12425.9	9716.9	1905.0	746.1	753.3	909.0	974.2	883.7	825.7	890.9	869.2
70°	11980.4	9123.0	1166.2	677.2	706.2	851.1	923.5	851.1	800.4	872.8	840.2
72.5°	10825.1	8014.7	822.1	619.3	655.5	796.8	876.4	822.1	764.2	789.5	756.9
75°	8880.3	6211.1	651.9	565.0	604.8	746.1	836.6	778.7	720.7	709.8	688.1
77.5°	6290.8	3980.2	525.1	521.5	550.5	684.5	782.3	728.0	670.0	648.3	633.8
80°	3618.0	1952.1	452.7	470.8	499.8	622.9	717.1	670.0	615.7	583.1	561.4
82.5°	1383.5	680.9	398.4	409.2	441.8	557.7	651.9	612.1	557.7	586.7	492.5
85°	449.1	373.0	325.9	336.8	369.4	463.6	575.8	543.2	481.7	427.4	394.8
87.5°	199.2	202.8	173.8	191.9	231.8	307.8	420.1	398.4	351.3	293.4	282.5
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)