

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: P400176

Luminaire Tested: **ARCH-L-PA3-240-827-U-T2U**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P400176
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-PA3-240-827-U-T2U
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 80 CRI, 2700K, 1030mA LIGHT ENGINES WITH 24 LEDS AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24041 lumens
Efficiency: N/A
Efficacy: 99.3 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

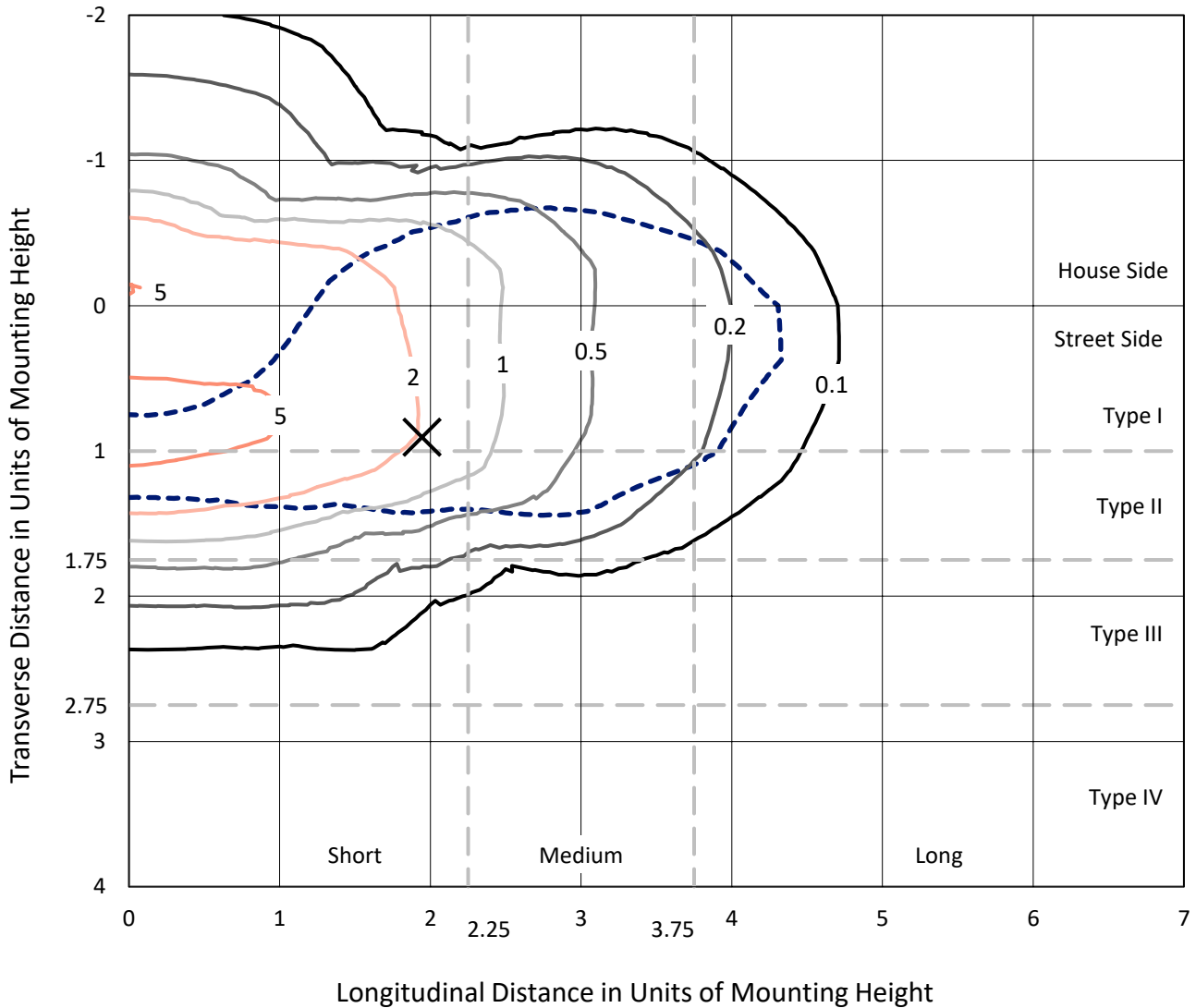
Input Watts (W): 242
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

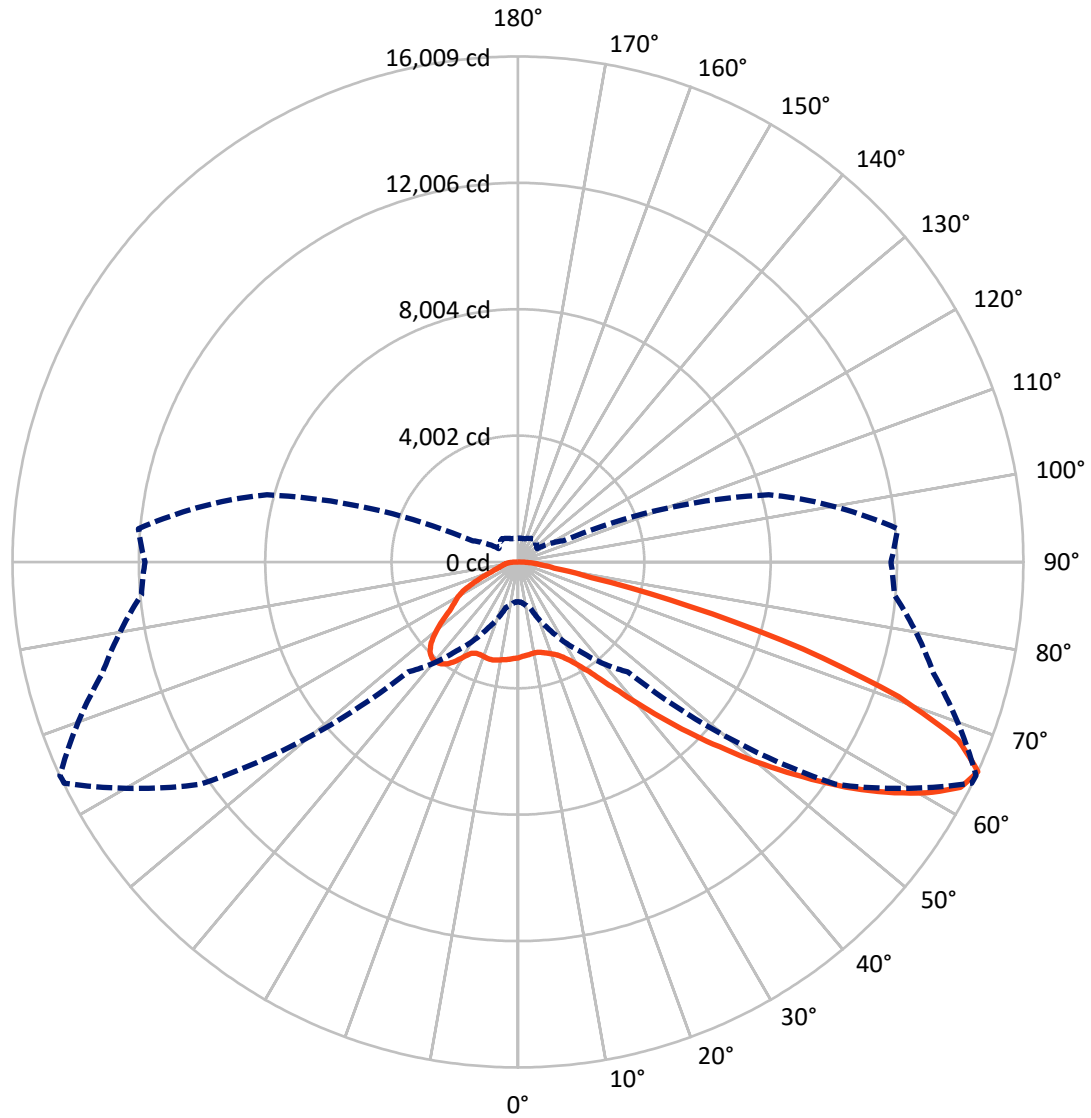
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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

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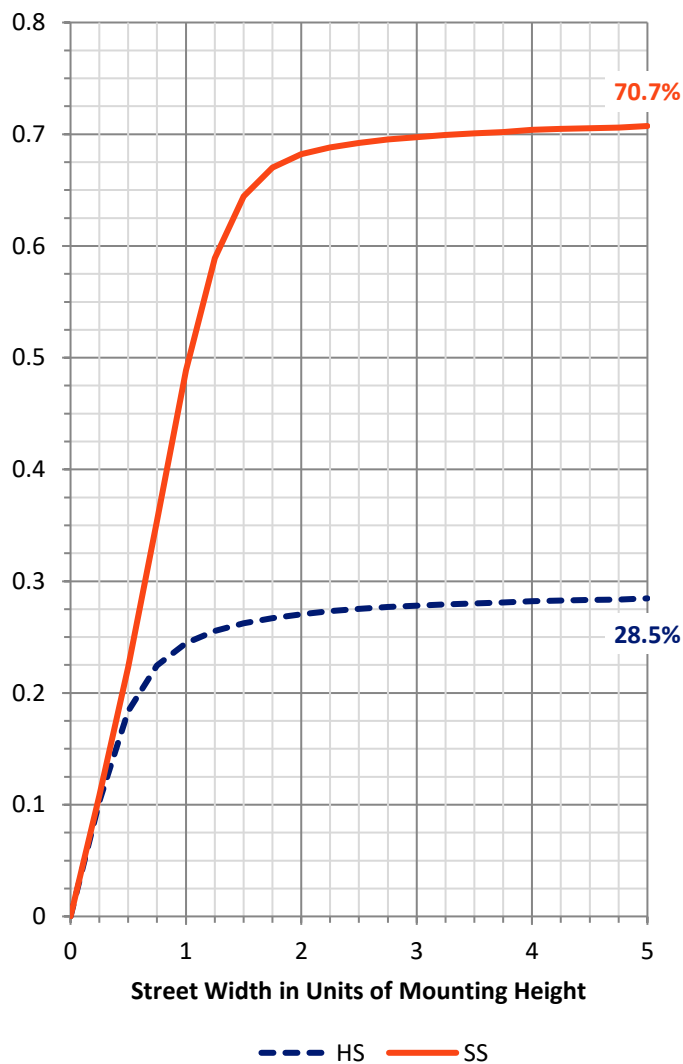
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6950.6	0.0	6950.6
	% Fixture	28.9	0.0	28.9
Street Side	Lumens	17090.4	0.0	17090.4
	% Fixture	71.1	0.0	71.1
Total	Lumens	24041.0	0.0	24041.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	289.4	1.2
10°-20°	864.1	3.6
20°-30°	1534.9	6.4
30°-40°	2596.6	10.8
40°-50°	4520.2	18.8
50°-60°	5841.5	24.3
60°-70°	5111.7	21.3
70°-80°	2780.4	11.6
80°-90°	502.4	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°	24041.0	100.0
0°-180°	24041.0	100.0

Coefficient of Utilization



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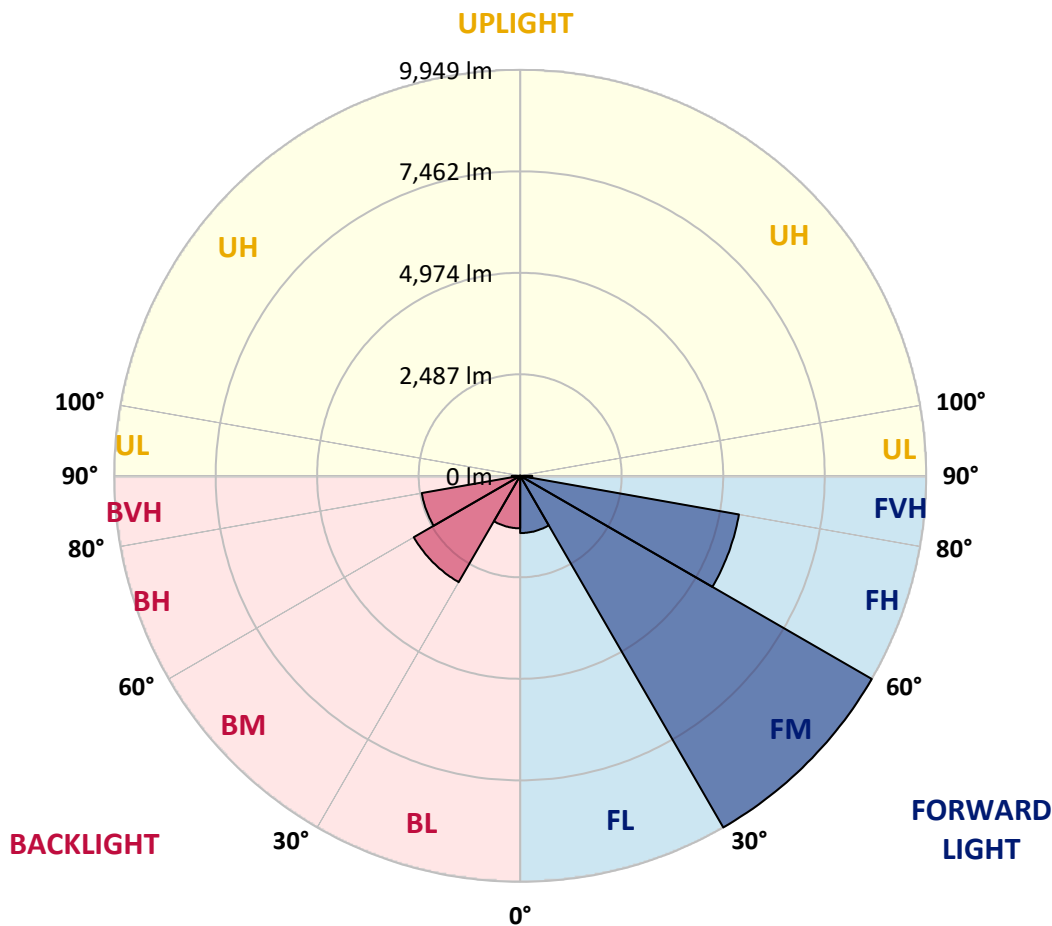
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1402.7	5.8			
FM (30°-60°)	9948.8	41.4			
FH (60°-80°)	5443.2	22.6			G3/7500
FVH (80°-90°)	295.6	1.2			G3/500
BL (0°-30°)	1285.6	5.3	B3/2500		
BM (30°-60°)	3009.5	12.5	B3/5000		
BH (60°-80°)	2448.8	10.2	B3/2500		G3/2500
BVH (80°-90°)	206.7	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	3037.8	3037.8	3037.8	3037.8	3037.8	3037.8	3037.8	3037.8	3037.8	3037.8	3037.8
2.5°	2984.0	2980.9	2974.5	2980.9	2984.0	2990.3	2987.2	2993.5	2990.3	2999.8	3015.7
5°	2908.1	2901.7	2898.6	2914.4	2923.9	2939.7	2946.0	2968.2	2965.0	2980.9	3006.2
7.5°	2822.6	2822.6	2819.5	2838.5	2851.1	2879.6	2901.7	2939.7	2942.9	2971.4	2999.8
10°	2756.2	2759.3	2756.2	2772.0	2791.0	2825.8	2863.8	2917.6	2920.7	2961.9	2990.3
12.5°	2730.9	2730.9	2730.9	2753.0	2778.3	2825.8	2870.1	2927.1	2933.4	2977.7	3003.0
15°	2765.7	2768.8	2762.5	2784.7	2813.1	2870.1	2911.2	2971.4	2977.7	3018.8	3034.6
17.5°	2889.1	2901.7	2885.9	2898.6	2892.3	2936.6	2974.5	3034.6	3037.8	3072.6	3078.9
20°	3132.7	3145.4	3120.1	3104.3	3047.3	3044.1	3060.0	3107.4	3107.4	3129.6	3113.8
22.5°	3509.3	3522.0	3477.7	3417.5	3281.5	3215.0	3180.2	3202.4	3199.2	3208.7	3167.6
25°	4009.3	4006.1	3952.3	3841.6	3623.2	3461.8	3376.4	3341.6	3341.6	3322.6	3272.0
27.5°	4629.5	4582.0	4487.1	4354.2	4050.4	3825.7	3642.2	3553.6	3537.8	3480.8	3385.9
30°	5290.9	5256.0	5120.0	4927.0	4575.7	4287.7	3984.0	3806.8	3797.3	3673.9	3531.5
32.5°	6069.3	6012.3	5860.4	5629.4	5208.6	4803.5	4423.8	4154.8	4139.0	3942.8	3746.6
35°	7069.2	7021.8	6727.5	6496.5	5955.4	5423.8	4974.4	4616.8	4604.2	4363.7	4113.7
37.5°	8268.5	8145.1	7860.3	7426.8	6857.2	6227.5	5657.9	5208.6	5192.8	4927.0	4610.5
40°	9338.1	9227.4	8974.2	8575.5	7964.8	7265.4	6493.3	5949.0	5933.2	5610.5	5211.7
42.5°	10129.2	10053.3	9888.7	9657.7	9221.0	8797.0	7559.7	6844.6	6816.1	6398.4	5901.6
45°	10588.0	10527.9	10433.0	10489.9	10483.6	10404.5	8831.8	7911.0	7819.2	7278.1	6670.5
47.5°	10477.3	10423.5	10461.5	10904.5	11515.2	11974.0	10312.7	9002.7	8879.3	8173.6	7490.1
50°	9676.7	9698.8	9898.2	10746.3	12116.4	13135.4	11955.1	10246.3	10081.7	9075.5	8268.5
52.5°	8217.9	8271.7	8755.9	9942.5	12050.0	13888.5	13439.2	11531.0	11312.7	9955.2	8977.4
55°	6528.1	6664.2	7290.7	8537.5	11182.9	13942.3	14559.3	12822.1	12581.6	10781.1	9594.4
57.5°	4828.9	5031.4	5756.0	6901.5	9521.6	13091.1	15119.4	14056.2	13765.1	11600.6	10246.3
60°	3063.1	3186.5	4021.9	5373.1	7287.6	11008.9	15046.7	15106.8	14853.6	12417.1	10926.6
62.5°	1955.6	2015.7	2436.6	3832.1	5094.7	8151.5	14252.4	15901.0	15730.2	13160.7	11572.2
65°	1256.3	1281.6	1496.8	2357.5	3468.2	4920.6	12274.7	15986.5	16008.6	13625.9	11970.9
67.5°	1022.1	1034.8	1113.9	1455.6	2452.4	2718.2	8550.2	14771.4	15040.3	13505.6	11834.8
70°	930.3	946.2	1028.4	1161.3	1898.6	1876.5	4139.0	12360.1	12799.9	12812.6	11230.4
72.5°	784.8	806.9	917.7	1098.0	1468.3	1480.9	1753.1	8803.3	9452.0	11451.9	10322.2
75°	655.0	667.7	762.6	968.3	1243.6	1183.5	1230.9	4667.5	5604.1	9183.1	9357.1
77.5°	531.6	544.3	613.9	772.1	1104.4	920.8	968.3	1933.4	2389.1	6233.8	7648.3
80°	379.7	392.4	471.5	601.2	835.4	829.1	718.3	1066.4	1158.2	3370.1	4968.1
82.5°	272.1	281.6	357.6	430.4	579.1	832.2	541.1	724.6	759.5	1493.6	2003.1
85°	183.5	183.5	246.8	284.8	373.4	525.3	436.7	490.5	512.6	708.8	541.1
87.5°	79.1	79.1	132.9	145.6	196.2	243.7	325.9	246.8	253.2	382.9	221.5
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°	3037.8	3037.8	3037.8	3037.8	3037.8	3037.8	3037.8	3037.8	3037.8	3037.8	3037.8
2.5°	3025.2	3028.3	3034.6	3053.6	3066.3	3085.3	3094.8	3107.4	3107.4	3101.1	3104.3
5°	3018.8	3028.3	3050.5	3085.3	3107.4	3142.2	3167.6	3186.5	3192.9	3186.5	3189.7
7.5°	3015.7	3031.5	3069.5	3120.1	3151.7	3196.0	3230.8	3253.0	3268.8	3262.5	3265.6
10°	3006.2	3031.5	3078.9	3142.2	3189.7	3234.0	3265.6	3275.1	3284.6	3278.3	3275.1
12.5°	3018.8	3047.3	3097.9	3173.9	3227.7	3262.5	3272.0	3256.2	3234.0	3221.3	3218.2
15°	3044.1	3072.6	3123.3	3202.4	3249.8	3262.5	3240.3	3189.7	3139.1	3110.6	3107.4
17.5°	3078.9	3097.9	3139.1	3208.7	3246.7	3230.8	3186.5	3126.4	3088.4	3066.3	3069.5
20°	3101.1	3101.1	3132.7	3186.5	3218.2	3205.5	3151.7	3085.3	3025.2	2996.7	2987.2
22.5°	3132.7	3116.9	3120.1	3167.6	3211.9	3192.9	3078.9	2961.9	2876.4	2844.8	2841.6
25°	3218.2	3173.9	3145.4	3173.9	3278.3	3123.3	2895.4	2759.3	2680.2	2651.8	2654.9
27.5°	3322.6	3262.5	3202.4	3249.8	3332.1	2965.0	2661.2	2506.2	2458.7	2436.6	2446.1
30°	3427.0	3347.9	3268.8	3439.7	3294.1	2718.2	2360.6	2208.7	2167.6	2151.8	2164.4
32.5°	3620.1	3490.3	3395.4	3692.8	3177.0	2436.6	2034.7	1895.5	1857.5	1838.5	1832.2
35°	3942.8	3778.3	3683.3	3914.3	3012.5	2123.3	1737.2	1639.2	1598.0	1556.9	1550.5
37.5°	4408.0	4208.6	4123.2	4040.9	2781.5	1813.2	1509.4	1443.0	1382.8	1319.5	1316.4
40°	4964.9	4705.4	4642.2	4097.9	2461.9	1522.1	1351.2	1287.9	1212.0	1151.8	1155.0
42.5°	5607.3	5275.0	5139.0	4082.1	2066.3	1367.0	1237.3	1167.7	1101.2	1047.4	1044.2
45°	6294.0	5917.4	5604.1	3971.3	1674.0	1259.4	1167.7	1085.4	1018.9	958.8	952.5
47.5°	7053.4	6632.6	6034.5	3756.1	1382.8	1183.5	1126.5	1009.4	949.3	911.3	911.3
50°	7819.2	7316.1	6430.0	3430.2	1212.0	1126.5	1066.4	968.3	920.8	889.2	889.2
52.5°	8474.2	8028.1	6756.0	3041.0	1104.4	1079.1	1025.3	949.3	898.7	870.2	867.0
55°	9110.3	8689.4	7047.1	2654.9	1015.8	1015.8	1015.8	933.5	876.5	851.2	848.1
57.5°	9743.1	9385.6	7350.9	2401.8	936.7	962.0	996.8	914.5	857.5	835.4	832.2
60°	10458.3	10221.0	7702.1	2224.6	867.0	905.0	971.5	892.4	825.9	806.9	803.8
62.5°	11217.8	11217.8	8021.7	1974.6	803.8	857.5	933.5	863.9	797.4	781.6	778.4
65°	11812.7	12069.0	8227.4	1601.2	740.5	810.1	889.2	825.9	759.5	756.3	750.0
67.5°	11882.3	12284.2	8097.7	1208.8	683.5	759.5	844.9	784.8	721.5	721.5	712.0
70°	11382.3	11790.5	7692.6	905.0	642.4	708.8	787.9	734.1	674.0	680.3	664.5
72.5°	10546.9	10648.2	6686.4	715.2	594.9	655.0	718.3	677.2	623.4	623.4	601.2
75°	9445.7	8882.4	4857.3	598.1	537.9	591.7	648.7	613.9	566.4	550.6	537.9
77.5°	7518.6	6436.4	2822.6	515.8	490.5	531.6	569.6	544.3	503.1	468.3	468.3
80°	4582.0	3771.9	1246.8	446.2	433.5	465.2	490.5	462.0	427.2	392.4	382.9
82.5°	1743.6	1455.6	604.4	382.9	379.7	398.7	417.7	389.2	363.9	348.1	300.6
85°	477.8	439.8	414.5	319.6	313.3	310.1	332.3	319.6	284.8	234.2	208.8
87.5°	180.4	205.7	224.7	196.2	208.8	193.0	221.5	202.5	180.4	117.1	104.4
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)