

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: P400259

Luminaire Tested: **ARCH-L-PA3-250-830-U-T3**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P400259
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-PA3-250-830-U-T3
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 80 CRI, 3000K, 1070mA LIGHT ENGINES WITH 24 LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26666 lumens
Efficiency: N/A
Efficacy: 106.2 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

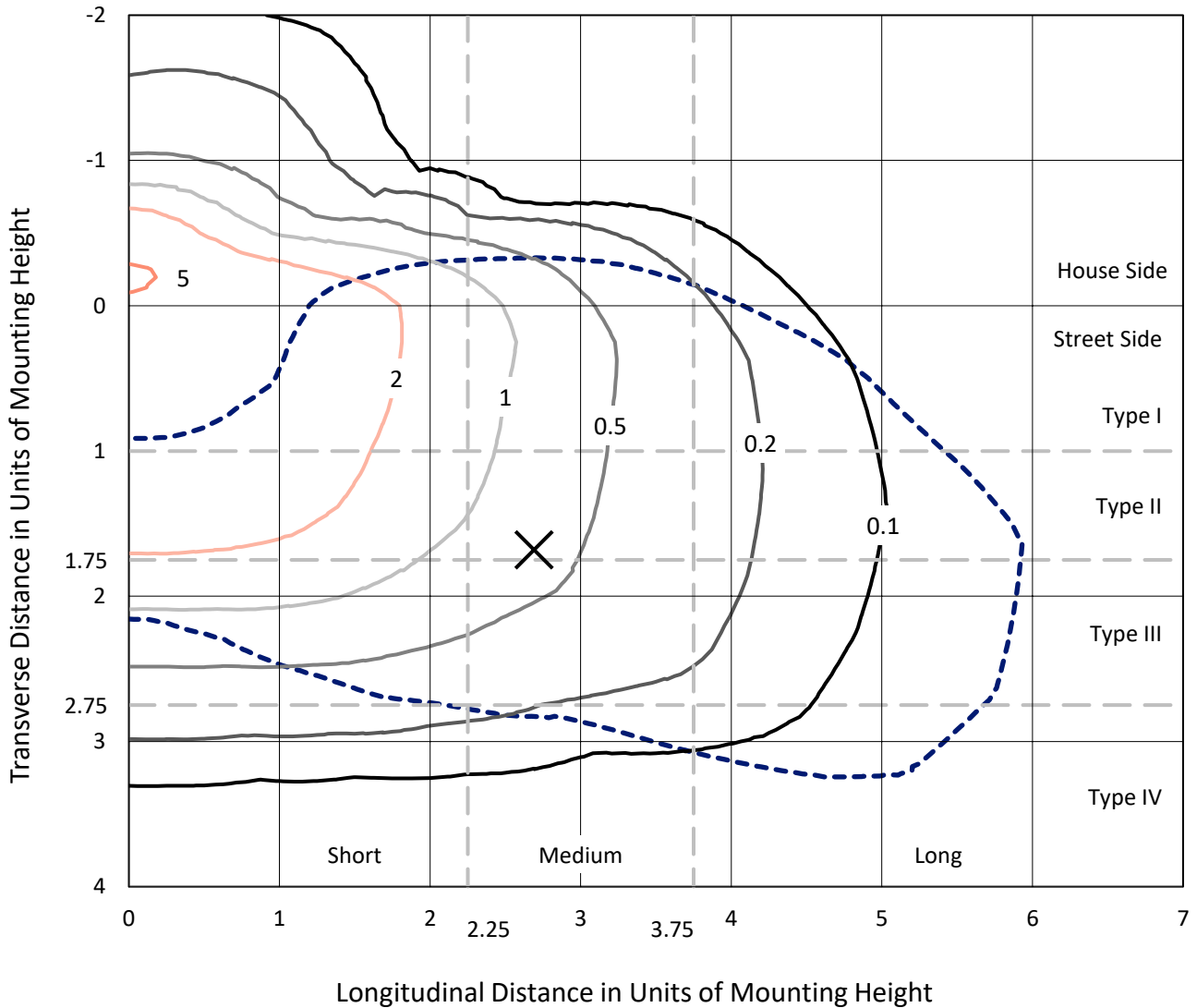
Input Watts (W): 251
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

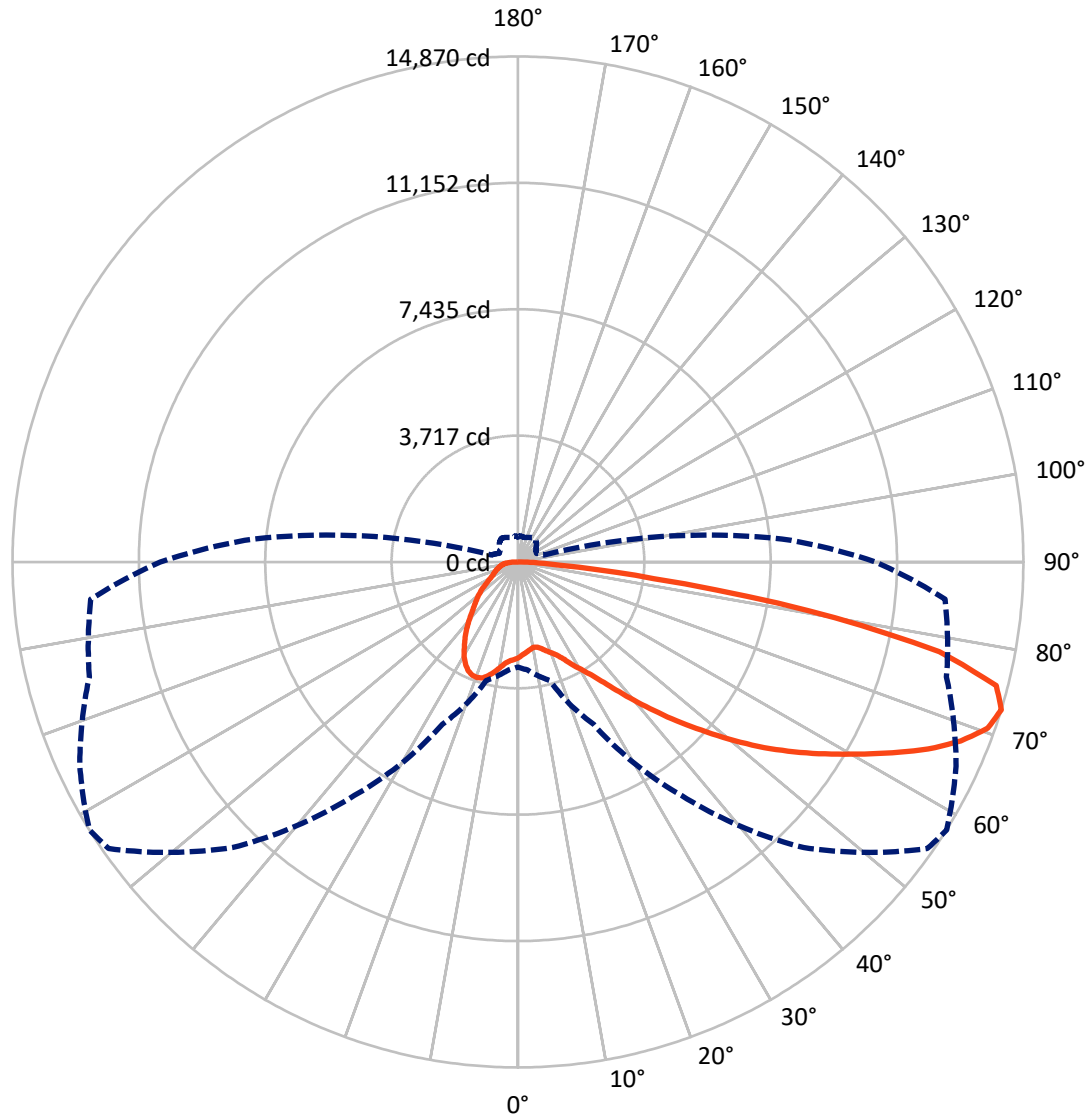
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.2 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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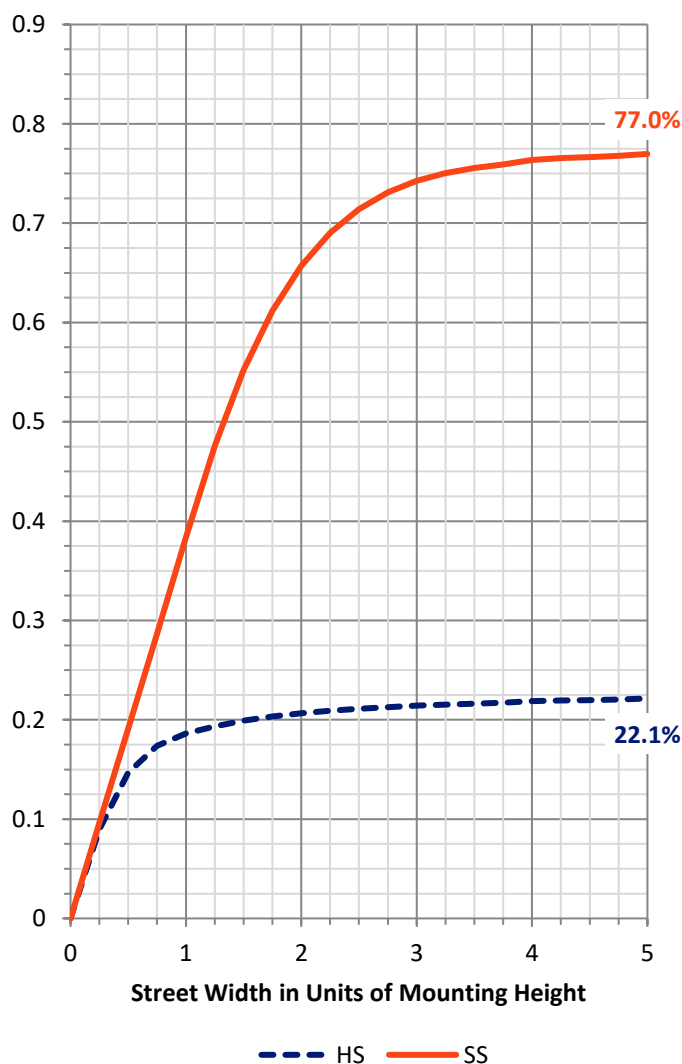
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6047.6	0.0	6047.6
	% Fixture	22.7	0.0	22.7
Street Side	Lumens	20618.5	0.0	20618.5
	% Fixture	77.3	0.0	77.3
Total	Lumens	26666.0	0.0	26666.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	271.0	1.0
10°-20°	860.5	3.2
20°-30°	1541.4	5.8
30°-40°	2318.7	8.7
40°-50°	3754.8	14.1
50°-60°	5652.1	21.2
60°-70°	6652.0	24.9
70°-80°	4716.8	17.7
80°-90°	898.8	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°	26666.0	100.0
0°-180°	26666.0	100.0

Coefficient of Utilization



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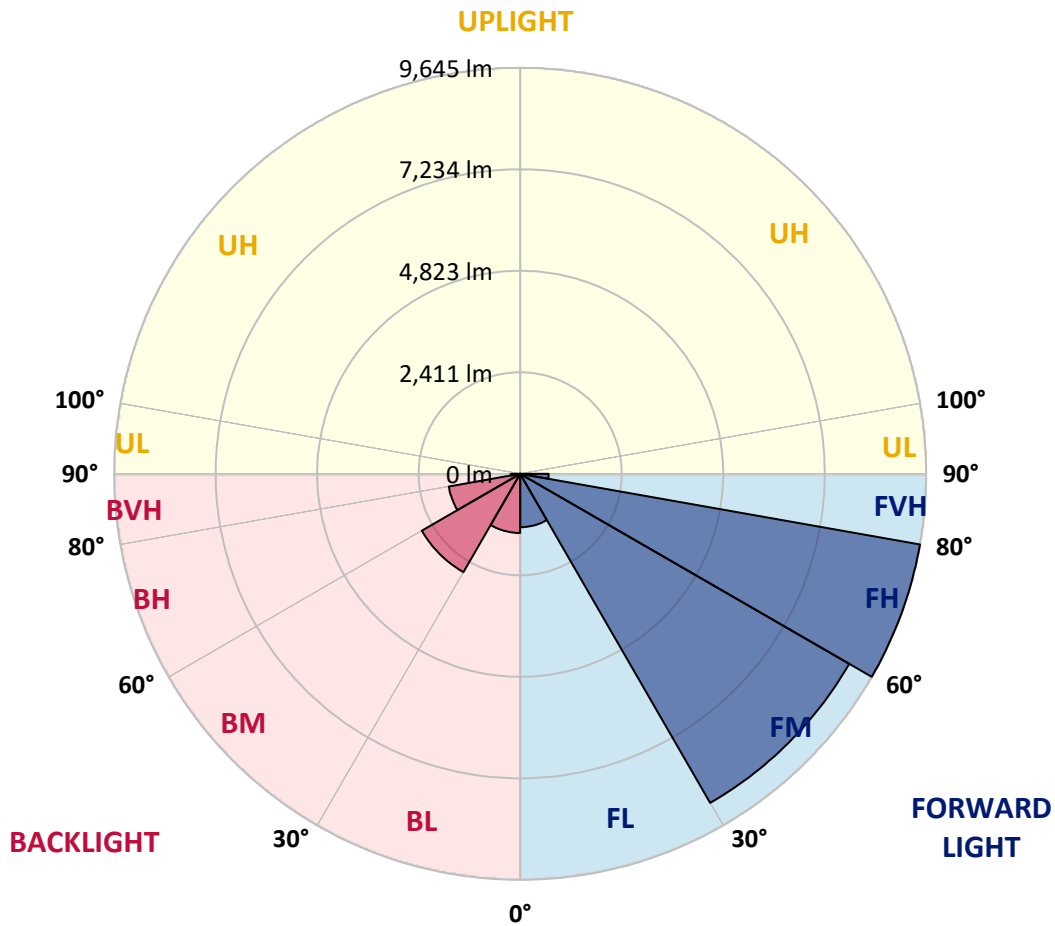
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1268.1	4.8			
FM (30°-60°)	9027.2	33.9			
FH (60°-80°)	9645.2	36.2			G4/12000
FVH (80°-90°)	678.0	2.5			G4/750
BL (0°-30°)	1404.7	5.3	B3/2500		
BM (30°-60°)	2698.4	10.1	B3/5000		
BH (60°-80°)	1723.6	6.5	B3/2500		G3/2500
BVH (80°-90°)	220.8	0.8			G2/225
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°	2812.7	2812.7	2812.7	2812.7	2812.7	2812.7	2812.7	2812.7	2812.7	2812.7	2812.7
2.5°	2707.1	2693.0	2696.5	2696.5	2710.6	2717.6	2721.2	2731.7	2738.8	2756.4	2781.0
5°	2580.4	2569.8	2573.3	2576.8	2601.5	2626.1	2647.2	2661.3	2682.4	2710.6	2745.8
7.5°	2488.8	2481.8	2485.3	2492.4	2513.5	2541.6	2576.8	2598.0	2629.6	2682.4	2742.3
10°	2421.9	2421.9	2425.5	2439.5	2460.7	2495.9	2524.0	2548.7	2612.0	2707.1	2798.6
12.5°	2369.1	2369.1	2379.7	2407.9	2443.1	2478.3	2545.2	2573.3	2657.8	2788.1	2897.2
15°	2365.6	2369.1	2372.7	2397.3	2436.0	2513.5	2612.0	2654.3	2756.4	2911.3	3038.0
17.5°	2421.9	2425.5	2411.4	2418.4	2464.2	2573.3	2703.6	2752.9	2883.1	3052.1	3182.3
20°	2594.4	2594.4	2552.2	2513.5	2545.2	2664.8	2812.7	2862.0	3006.3	3192.9	3323.1
22.5°	2946.5	2964.1	2865.5	2781.0	2731.7	2798.6	2932.4	2985.2	3147.1	3347.8	3478.0
25°	3372.4	3390.0	3256.3	3136.6	3045.0	3034.5	3122.5	3178.8	3312.6	3520.3	3629.4
27.5°	3784.3	3752.6	3629.4	3516.8	3400.6	3305.5	3372.4	3421.7	3576.6	3735.0	3801.9
30°	4108.2	4083.5	3963.8	3882.9	3773.7	3650.5	3611.8	3664.6	3791.3	3939.2	3974.4
32.5°	4467.2	4449.6	4329.9	4224.3	4132.8	4016.6	3932.1	3956.8	4027.2	4132.8	4153.9
35°	4924.9	4963.6	4836.9	4622.1	4520.0	4407.4	4347.5	4354.6	4407.4	4474.3	4439.1
37.5°	5407.1	5452.9	5459.9	5122.0	4984.7	4882.6	4819.3	4843.9	4907.3	4953.0	4843.9
40°	6301.3	6255.5	6072.5	5822.5	5611.3	5512.7	5424.7	5421.2	5467.0	5547.9	5350.8
42.5°	7487.6	7445.4	7075.7	6751.9	6417.5	6304.8	6132.3	6058.4	6079.5	6181.6	5907.0
45°	8624.7	8607.1	8311.4	7934.7	7533.4	7315.1	6920.9	6741.3	6723.7	6804.7	6477.3
47.5°	9635.0	9557.5	9342.8	9050.6	9008.4	8438.1	7712.9	7470.0	7385.5	7431.3	7065.2
50°	10715.7	10451.7	10156.0	9976.4	10282.7	9751.1	8512.0	8258.6	8050.9	8082.5	7702.4
52.5°	11289.5	10846.0	10652.3	10705.1	11117.0	10912.8	9381.5	9071.7	8737.3	8783.1	8336.0
55°	10796.7	10793.1	10877.6	11205.0	11778.8	11543.0	10208.8	9860.3	9494.2	9504.7	9064.7
57.5°	10120.8	10258.1	10694.6	11416.2	12599.0	12204.8	11022.0	10652.3	10317.9	10265.1	9892.0
60°	9504.7	9656.1	10289.8	11381.0	12884.2	12810.3	11796.4	11472.6	11201.5	11046.6	10761.5
62.5°	8568.3	8681.0	9578.7	11155.7	12644.8	13246.8	12581.4	12359.7	12155.5	11835.1	11697.9
65°	7466.5	7505.2	8452.2	10413.0	12345.6	13415.8	13362.9	13264.4	13067.2	12595.5	12623.7
67.5°	6273.1	6350.6	7181.4	9226.6	11690.8	13338.3	13968.4	14049.4	13817.1	13109.5	13215.1
70°	5002.3	5097.4	5727.5	7586.2	10578.4	13003.9	14528.2	14658.4	14211.3	13278.5	13324.2
72.5°	3094.3	3185.8	3608.3	5269.8	8385.3	11880.9	14700.6	14869.6	14221.9	13053.2	12613.1
75°	1070.2	1080.7	1411.6	2527.6	4977.7	8969.6	14137.4	14535.2	13774.8	12232.9	10976.2
77.5°	489.3	506.9	626.6	1042.0	2207.2	4840.4	11673.2	12669.5	12416.0	10951.6	8448.6
80°	337.9	345.0	433.0	623.1	1274.3	1703.8	7367.9	8666.9	9110.5	8480.3	5414.2
82.5°	253.5	260.5	334.4	422.4	918.8	827.3	2805.7	4027.2	5005.8	4914.3	2263.5
85°	242.9	239.4	260.5	281.6	612.5	492.8	908.2	1246.2	1953.8	1672.1	570.3
87.5°	105.6	116.2	267.5	158.4	320.3	228.8	394.3	461.2	594.9	517.5	204.2
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°	2812.7	2812.7	2812.7	2812.7	2812.7	2812.7	2812.7	2812.7	2812.7	2812.7	2812.7
2.5°	2791.6	2798.6	2819.7	2851.4	2869.0	2904.2	2928.9	2942.9	2953.5	2957.0	2957.0
5°	2766.9	2781.0	2826.8	2879.6	2928.9	3002.8	3069.7	3108.4	3136.6	3147.1	3150.6
7.5°	2774.0	2809.2	2876.1	2953.5	3016.9	3111.9	3192.9	3270.3	3333.7	3358.3	3358.3
10°	2840.9	2890.1	2981.7	3083.8	3164.7	3263.3	3347.8	3414.7	3488.6	3530.8	3537.9
12.5°	2942.9	3002.8	3122.5	3235.1	3326.7	3404.1	3481.5	3530.8	3566.0	3597.7	3604.8
15°	3087.3	3161.2	3280.9	3397.1	3478.0	3527.3	3548.4	3548.4	3544.9	3548.4	3555.5
17.5°	3231.6	3302.0	3421.7	3537.9	3576.6	3548.4	3523.8	3516.8	3513.2	3506.2	3509.7
20°	3372.4	3439.3	3541.4	3629.4	3597.7	3499.1	3467.5	3463.9	3453.4	3446.3	3439.3
22.5°	3513.2	3562.5	3647.0	3678.7	3552.0	3411.1	3372.4	3351.3	3337.2	3319.6	3302.0
25°	3675.2	3689.2	3752.6	3703.3	3439.3	3249.2	3192.9	3161.2	3147.1	3129.5	3115.4
27.5°	3826.5	3826.5	3837.1	3664.6	3273.9	3034.5	2950.0	2893.7	2890.1	2886.6	2883.1
30°	3963.8	3946.2	3911.0	3548.4	3059.1	2770.5	2643.7	2587.4	2608.5	2626.1	2629.6
32.5°	4125.8	4090.6	3992.0	3390.0	2802.1	2474.8	2319.9	2295.2	2319.9	2341.0	2326.9
35°	4379.2	4315.9	4076.5	3207.0	2555.7	2203.7	2055.8	2020.6	2013.6	2010.1	1981.9
37.5°	4741.8	4632.7	4143.4	3009.8	2312.8	1964.3	1855.2	1781.3	1714.4	1644.0	1633.4
40°	5185.4	4998.8	4189.1	2784.5	2055.8	1763.7	1647.5	1552.4	1439.8	1316.6	1302.5
42.5°	5671.2	5393.1	4210.2	2534.6	1830.5	1598.2	1453.9	1334.2	1207.5	1112.4	1094.8
45°	6195.7	5819.0	4192.6	2295.2	1647.5	1457.4	1295.5	1165.2	1063.1	996.2	982.2
47.5°	6706.1	6308.3	4143.4	2105.1	1506.7	1337.7	1172.3	1052.6	975.1	901.2	883.6
50°	7360.9	6776.5	4083.5	1957.3	1351.8	1218.0	1094.8	968.1	880.1	844.9	837.8
52.5°	8086.1	7244.7	4013.1	1770.7	1200.4	1123.0	1045.5	932.9	904.7	837.8	827.3
55°	8871.1	7800.9	3999.0	1534.8	1066.6	1056.1	996.2	964.6	971.6	837.8	820.2
57.5°	9698.3	8395.8	4030.7	1299.0	957.5	996.2	1017.4	992.7	982.2	855.4	820.2
60°	10560.8	8969.6	3935.7	1080.7	873.0	947.0	1042.0	978.6	901.2	848.4	823.7
62.5°	11398.6	9451.9	3523.8	925.8	809.7	932.9	1027.9	925.8	837.8	837.8	827.3
65°	12007.6	9666.7	2756.4	813.2	767.4	915.3	1003.3	890.6	820.2	844.9	830.8
67.5°	12078.0	9444.9	1851.7	725.2	732.2	883.6	947.0	858.9	802.6	866.0	844.9
70°	11645.1	8867.6	1133.5	658.3	686.5	827.3	897.7	827.3	778.0	848.4	816.7
72.5°	10522.1	7790.4	799.1	602.0	637.2	774.5	851.9	799.1	742.8	767.4	735.7
75°	8631.7	6037.3	633.6	549.2	587.9	725.2	813.2	756.9	700.5	690.0	668.9
77.5°	6114.7	3868.8	510.4	506.9	535.1	665.3	760.4	707.6	651.3	630.1	616.0
80°	3516.8	1897.4	440.0	457.6	485.8	605.5	697.0	651.3	598.4	566.8	545.6
82.5°	1344.7	661.8	387.2	397.8	429.5	542.1	633.6	594.9	542.1	570.3	478.8
85°	436.5	362.6	316.8	327.4	359.1	450.6	559.7	528.0	468.2	415.4	383.7
87.5°	193.6	197.1	169.0	186.6	225.3	299.2	408.4	387.2	341.5	285.1	274.6
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)