

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: P400403

Luminaire Tested: **ARCH-L-PA3-270-830-U-T3**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P400403
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-PA3-270-830-U-T3
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 80 CRI, 3000K, 1155mA LIGHT ENGINES WITH 24 LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28046 lumens
Efficiency: N/A
Efficacy: 102.7 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

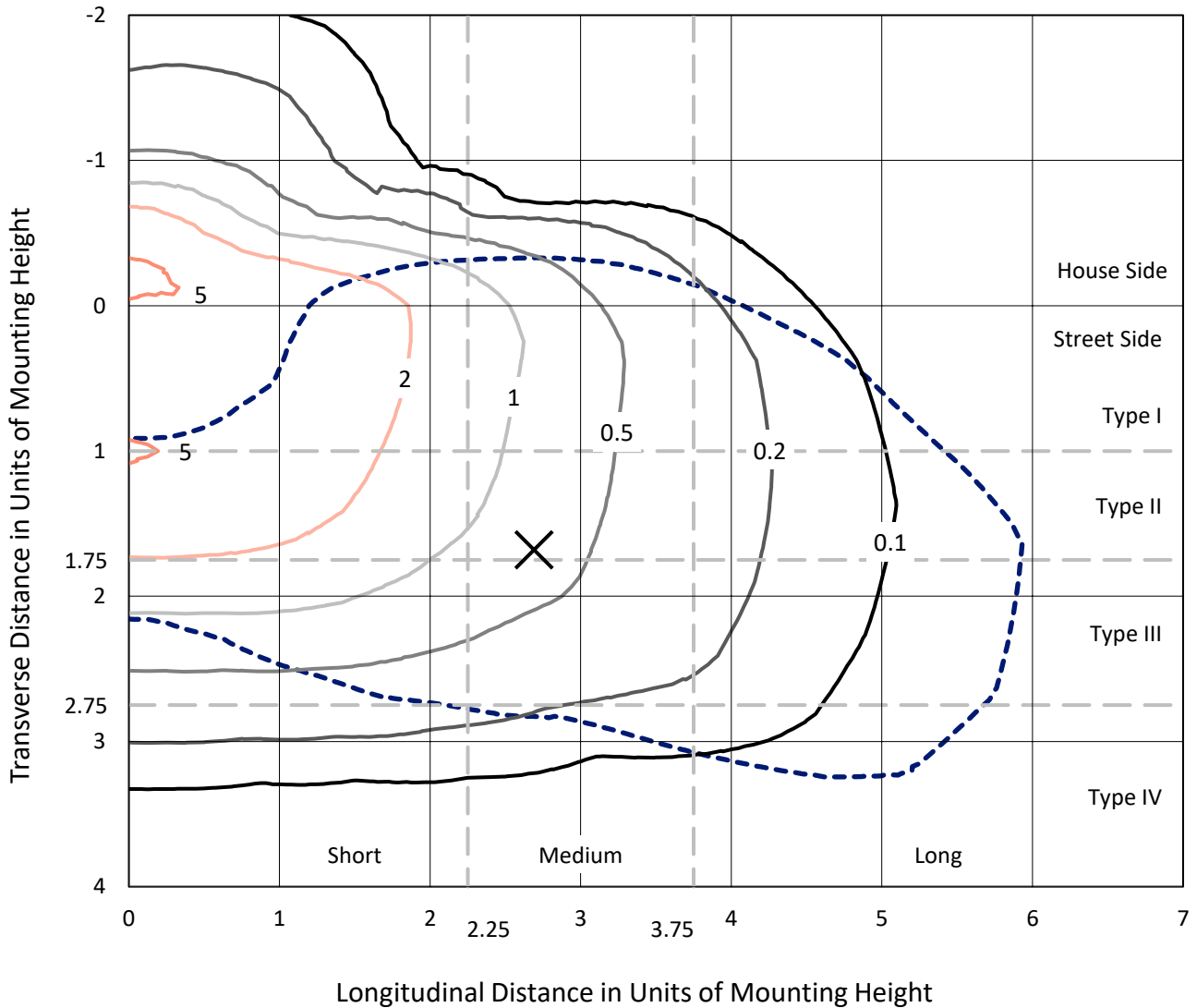
Input Watts (W): 273
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

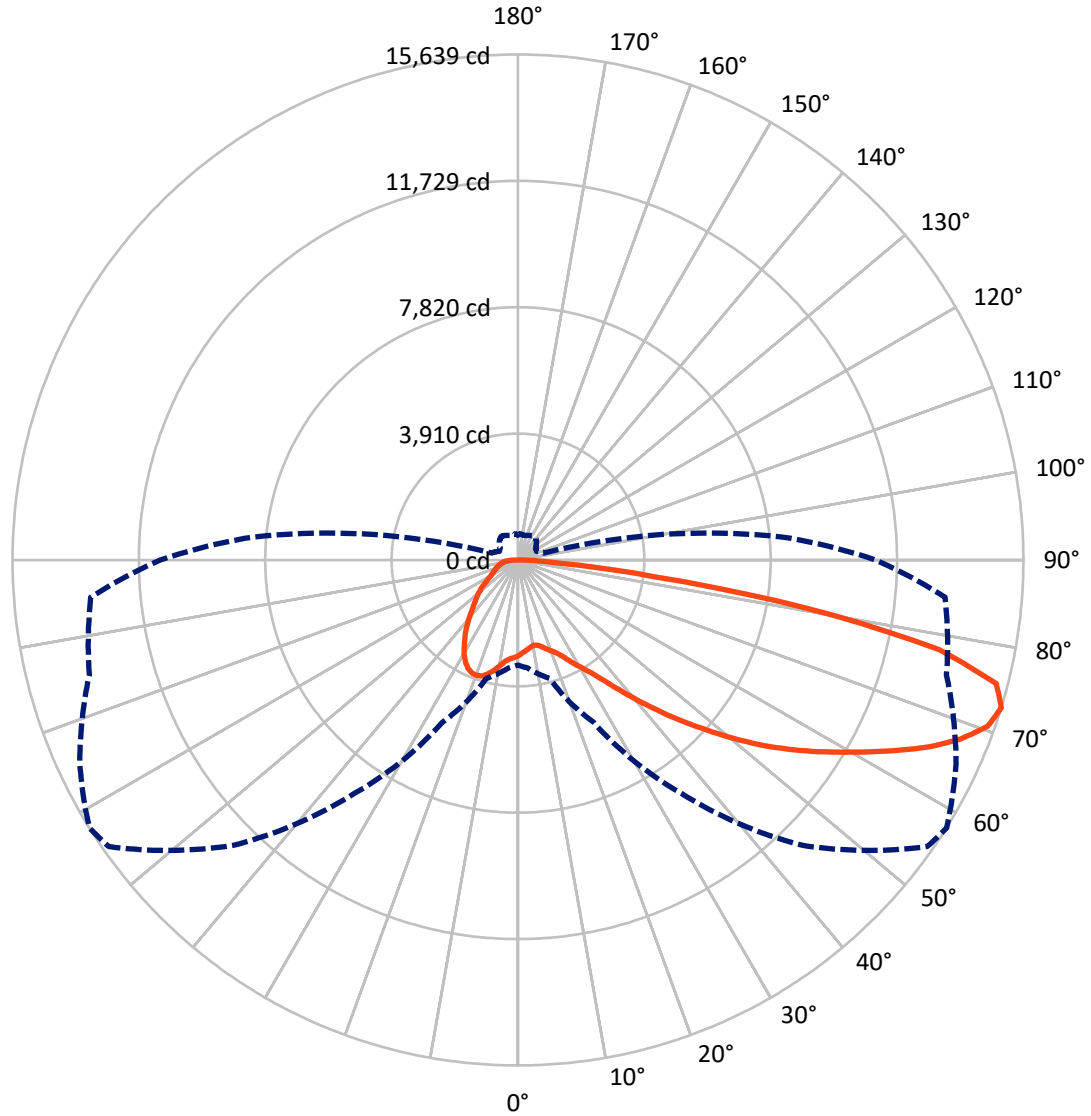
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.5 fc
 Type IV - Medium - N/A

REPORT NUMBER: P400403
CATALOG NUMBER: ARCH-L-PA3-270-830-U-T3

Luminous Intensity Polar Plot



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

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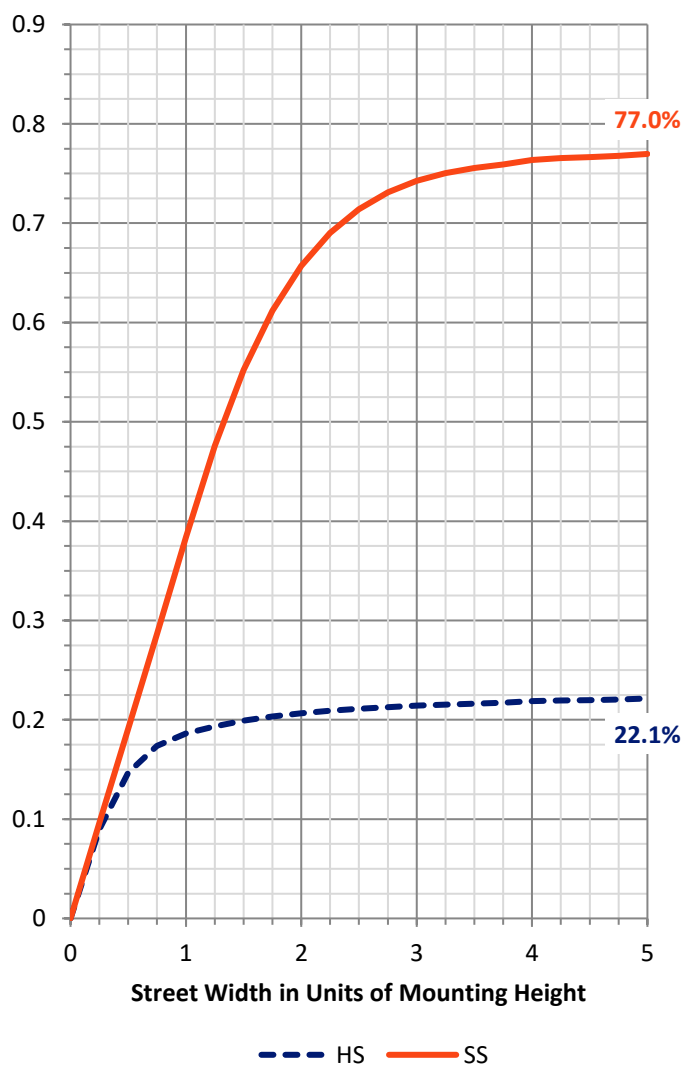
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6360.5	0.0	6360.5
	% Fixture	22.7	0.0	22.7
Street Side	Lumens	21685.5	0.0	21685.5
	% Fixture	77.3	0.0	77.3
Total	Lumens	28046.0	0.0	28046.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	285.0	1.0
10°-20°	905.0	3.2
20°-30°	1621.2	5.8
30°-40°	2438.7	8.7
40°-50°	3949.1	14.1
50°-60°	5944.6	21.2
60°-70°	6996.2	24.9
70°-80°	4960.9	17.7
80°-90°	945.3	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°	28046.0	100.0
0°-180°	28046.0	100.0

Coefficient of Utilization

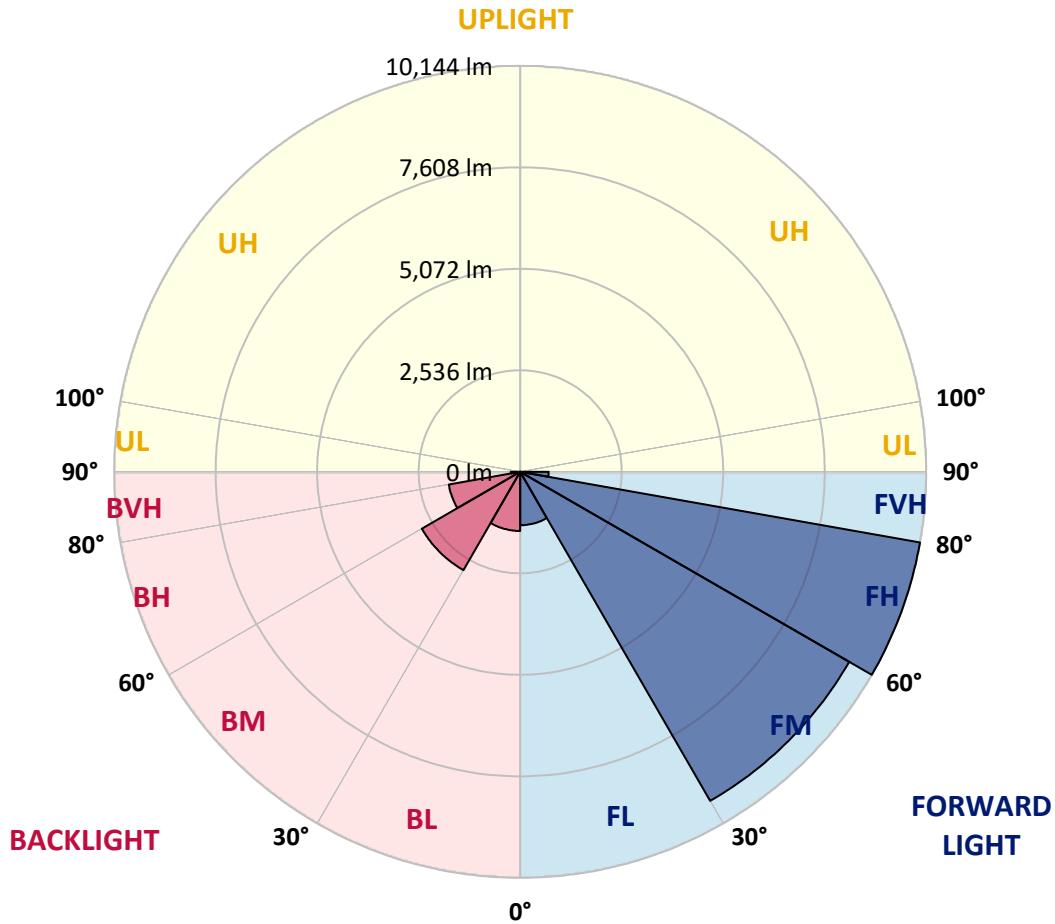


REPORT NUMBER: P400403
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1333.7	4.8			
FM (30°-60°)	9494.4	33.9			
FH (60°-80°)	10144.4	36.2			G4/12000
FVH (80°-90°)	713.0	2.5			G4/750
BL (0°-30°)	1477.4	5.3	B3/2500		
BM (30°-60°)	2838.0	10.1	B3/5000		
BH (60°-80°)	1812.8	6.5	B3/2500		G3/2500
BVH (80°-90°)	232.3	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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CATALOG NUMBER: ARCH-L-PA3-270-830-U-T3

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	2958.3	2958.3	2958.3	2958.3	2958.3	2958.3	2958.3	2958.3	2958.3	2958.3	2958.3
2.5°	2847.2	2832.4	2836.1	2836.1	2850.9	2858.3	2862.0	2873.1	2880.5	2899.0	2924.9
5°	2713.9	2702.8	2706.5	2710.2	2736.1	2762.0	2784.2	2799.1	2821.3	2850.9	2887.9
7.5°	2617.6	2610.2	2613.9	2621.3	2643.5	2673.2	2710.2	2732.4	2765.7	2821.3	2884.2
10°	2547.3	2547.3	2551.0	2565.8	2588.0	2625.0	2654.7	2680.6	2747.2	2847.2	2943.4
12.5°	2491.7	2491.7	2502.9	2532.5	2569.5	2606.5	2676.9	2706.5	2795.3	2932.3	3047.1
15°	2488.0	2491.7	2495.5	2521.4	2562.1	2643.5	2747.2	2791.6	2899.0	3061.9	3195.2
17.5°	2547.3	2551.0	2536.2	2543.6	2591.7	2706.5	2843.5	2895.3	3032.3	3210.0	3347.0
20°	2728.7	2728.7	2684.3	2643.5	2676.9	2802.8	2958.3	3010.1	3161.9	3358.1	3495.1
22.5°	3098.9	3117.5	3013.8	2924.9	2873.1	2943.4	3084.1	3139.7	3310.0	3521.0	3658.0
25°	3546.9	3565.5	3424.8	3298.9	3202.6	3191.5	3284.1	3343.3	3484.0	3702.4	3817.2
27.5°	3980.1	3946.8	3817.2	3698.7	3576.6	3476.6	3546.9	3598.8	3761.7	3928.3	3998.6
30°	4320.8	4294.8	4169.0	4083.8	3969.0	3839.4	3798.7	3854.2	3987.5	4143.0	4180.1
32.5°	4698.4	4679.9	4554.0	4442.9	4346.7	4224.5	4135.6	4161.6	4235.6	4346.7	4368.9
35°	5179.7	5220.5	5087.2	4861.3	4753.9	4635.5	4572.5	4579.9	4635.5	4705.8	4668.8
37.5°	5687.0	5735.1	5742.5	5387.1	5242.7	5135.3	5068.7	5094.6	5161.2	5209.3	5094.6
40°	6627.4	6579.3	6386.7	6123.9	5901.7	5798.0	5705.5	5701.8	5749.9	5835.1	5627.7
42.5°	7875.1	7830.7	7441.9	7101.3	6749.6	6631.1	6449.7	6371.9	6394.1	6501.5	6212.7
45°	9071.0	9052.5	8741.5	8345.3	7923.2	7693.7	7279.0	7090.2	7071.7	7156.8	6812.5
47.5°	10133.6	10052.1	9826.3	9519.0	9474.6	8874.8	8112.1	7856.6	7767.7	7815.9	7430.8
50°	11270.3	10992.6	10681.6	10492.7	10814.9	10255.8	8952.5	8685.9	8467.5	8500.8	8101.0
52.5°	11873.8	11407.2	11203.6	11259.1	11692.3	11477.6	9867.0	9541.2	9189.5	9237.6	8767.4
55°	11355.4	11351.7	11440.6	11784.9	12388.4	12140.3	10737.1	10370.6	9985.5	9996.6	9533.8
57.5°	10644.5	10788.9	11248.0	12007.0	13251.1	12836.4	11592.4	11203.6	10851.9	10796.3	10403.9
60°	9996.6	10155.8	10822.3	11970.0	13551.0	13473.2	12406.9	12066.3	11781.2	11618.3	11318.4
62.5°	9011.8	9130.2	10074.4	11733.1	13299.2	13932.3	13232.6	12999.3	12784.6	12447.6	12303.2
65°	7852.9	7893.6	8889.6	10951.8	12984.5	14110.0	14054.5	13950.8	13743.5	13247.4	13277.0
67.5°	6597.8	6679.2	7553.0	9704.1	12295.8	14028.6	14691.3	14776.5	14532.1	13787.9	13899.0
70°	5261.2	5361.1	6023.9	7978.8	11125.9	13676.8	15280.0	15417.0	14946.8	13965.6	14013.8
72.5°	3254.5	3350.7	3795.0	5542.6	8819.2	12495.8	15461.4	15639.1	14957.9	13728.7	13265.9
75°	1125.5	1136.7	1484.7	2658.4	5235.3	9433.8	14869.0	15287.4	14487.7	12866.0	11544.2
77.5°	514.6	533.2	659.0	1095.9	2321.4	5090.9	12277.3	13325.1	13058.5	11518.3	8885.9
80°	355.4	362.8	455.4	655.3	1340.3	1792.0	7749.2	9115.4	9581.9	8919.2	5694.4
82.5°	266.6	274.0	351.7	444.3	966.3	870.1	2950.9	4235.6	5264.9	5168.6	2380.7
85°	255.5	251.8	274.0	296.2	644.2	518.3	955.2	1310.7	2054.9	1758.7	599.8
87.5°	111.1	122.2	281.4	166.6	336.9	240.7	414.7	485.0	625.7	544.3	214.7
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°	2958.3	2958.3	2958.3	2958.3	2958.3	2958.3	2958.3	2958.3	2958.3	2958.3	2958.3
2.5°	2936.0	2943.4	2965.7	2999.0	3017.5	3054.5	3080.4	3095.2	3106.4	3110.1	3110.1
5°	2910.1	2924.9	2973.1	3028.6	3080.4	3158.2	3228.5	3269.3	3298.9	3310.0	3313.7
7.5°	2917.5	2954.6	3024.9	3106.4	3173.0	3273.0	3358.1	3439.6	3506.2	3532.1	3532.1
10°	2987.9	3039.7	3136.0	3243.3	3328.5	3432.2	3521.0	3591.4	3669.1	3713.6	3721.0
12.5°	3095.2	3158.2	3284.1	3402.6	3498.8	3580.3	3661.7	3713.6	3750.6	3783.9	3791.3
15°	3247.0	3324.8	3450.7	3572.9	3658.0	3709.9	3732.1	3732.1	3728.4	3732.1	3739.5
17.5°	3398.8	3472.9	3598.8	3721.0	3761.7	3732.1	3706.2	3698.7	3695.0	3687.6	3691.3
20°	3546.9	3617.3	3724.7	3817.2	3783.9	3680.2	3646.9	3643.2	3632.1	3624.7	3617.3
22.5°	3695.0	3746.9	3835.7	3869.1	3735.8	3587.7	3546.9	3524.7	3509.9	3491.4	3472.9
25°	3865.4	3880.2	3946.8	3895.0	3617.3	3417.4	3358.1	3324.8	3310.0	3291.5	3276.7
27.5°	4024.6	4024.6	4035.7	3854.2	3443.3	3191.5	3102.7	3043.4	3039.7	3036.0	3032.3
30°	4169.0	4150.4	4113.4	3732.1	3217.4	2913.8	2780.5	2721.3	2743.5	2762.0	2765.7
32.5°	4339.3	4302.2	4198.6	3565.5	2947.1	2602.8	2439.9	2414.0	2439.9	2462.1	2447.3
35°	4605.8	4539.2	4287.4	3372.9	2688.0	2317.7	2162.2	2125.2	2117.8	2114.1	2084.5
37.5°	4987.2	4872.4	4357.8	3165.6	2432.5	2066.0	1951.2	1873.4	1803.1	1729.0	1717.9
40°	5453.7	5257.5	4405.9	2928.6	2162.2	1854.9	1732.7	1632.8	1514.3	1384.7	1369.9
42.5°	5964.6	5672.2	4428.1	2665.8	1925.3	1680.9	1529.1	1403.2	1269.9	1170.0	1151.5
45°	6516.3	6120.1	4409.6	2414.0	1732.7	1532.8	1362.5	1225.5	1118.1	1047.8	1033.0
47.5°	7053.2	6634.8	4357.8	2214.1	1584.6	1406.9	1232.9	1107.0	1025.6	947.8	929.3
50°	7741.8	7127.2	4294.8	2058.6	1421.7	1281.0	1151.5	1018.2	925.6	888.6	881.2
52.5°	8504.5	7619.6	4220.8	1862.3	1262.5	1181.1	1099.6	981.1	951.5	881.2	870.1
55°	9330.2	8204.6	4206.0	1614.3	1121.8	1110.7	1047.8	1014.5	1021.9	881.2	862.7
57.5°	10200.2	8830.3	4239.3	1366.2	1007.1	1047.8	1070.0	1044.1	1033.0	899.7	862.7
60°	11107.3	9433.8	4139.3	1136.7	918.2	996.0	1095.9	1029.3	947.8	892.3	866.4
62.5°	11988.5	9941.1	3706.2	973.7	851.6	981.1	1081.1	973.7	881.2	881.2	870.1
65°	12629.1	10166.9	2899.0	855.3	807.1	962.6	1055.2	936.7	862.7	888.6	873.8
67.5°	12703.1	9933.7	1947.5	762.7	770.1	929.3	996.0	903.4	844.2	910.8	888.6
70°	12247.7	9326.5	1192.2	692.4	722.0	870.1	944.1	870.1	818.2	892.3	859.0
72.5°	11066.6	8193.5	840.5	633.1	670.1	814.5	896.0	840.5	781.2	807.1	773.8
75°	9078.4	6349.7	666.4	577.6	618.3	762.7	855.3	796.0	736.8	725.7	703.5
77.5°	6431.2	4069.0	536.9	533.2	562.8	699.8	799.7	744.2	685.0	662.7	647.9
80°	3698.7	1995.6	462.8	481.3	510.9	636.8	733.1	685.0	629.4	596.1	573.9
82.5°	1414.3	696.1	407.3	418.4	451.7	570.2	666.4	625.7	570.2	599.8	503.5
85°	459.1	381.4	333.2	344.3	377.6	473.9	588.7	555.4	492.4	436.9	403.6
87.5°	203.6	207.3	177.7	196.2	237.0	314.7	429.5	407.3	359.1	299.9	288.8
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)