

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: P399915

Luminaire Tested: **ARCH-L-PA3-210-727-U-T2U**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P399915
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-PA3-210-727-U-T2U
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 2700K, 900mA LIGHT ENGINES WITH 24 LEDS AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24932 lumens
Efficiency: N/A
Efficacy: 118.2 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G4

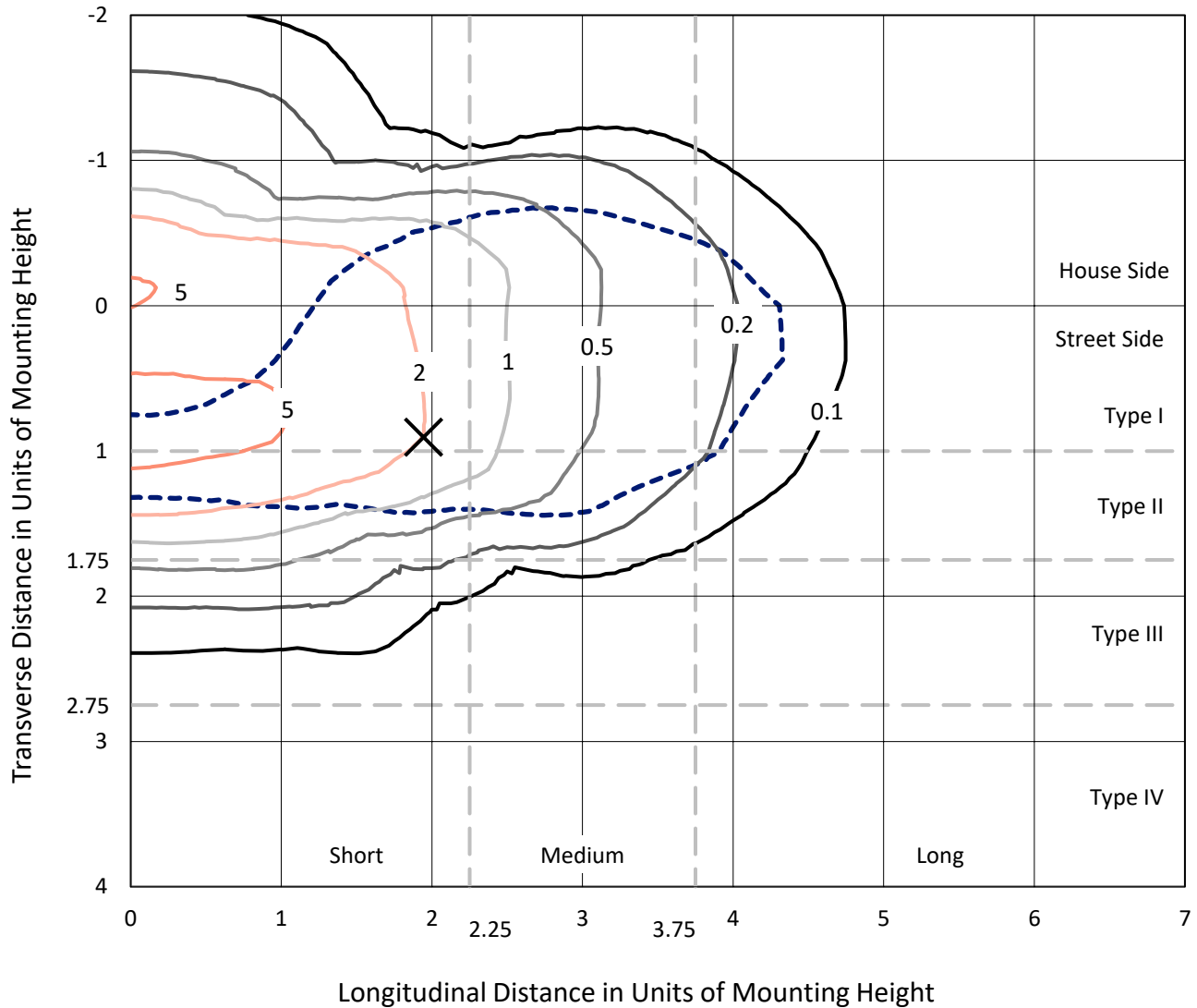
Input Watts (W): 211
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

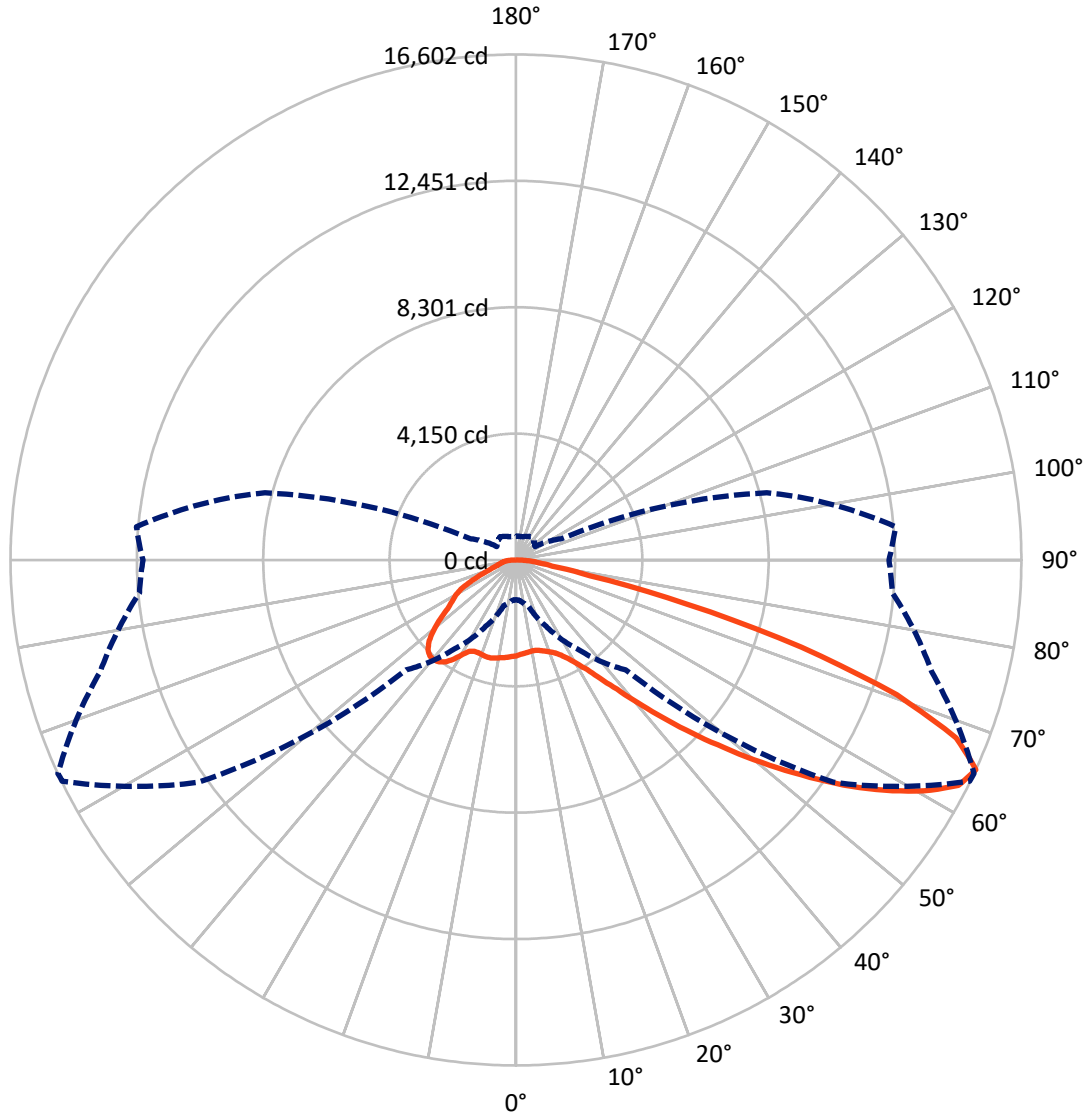
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.9 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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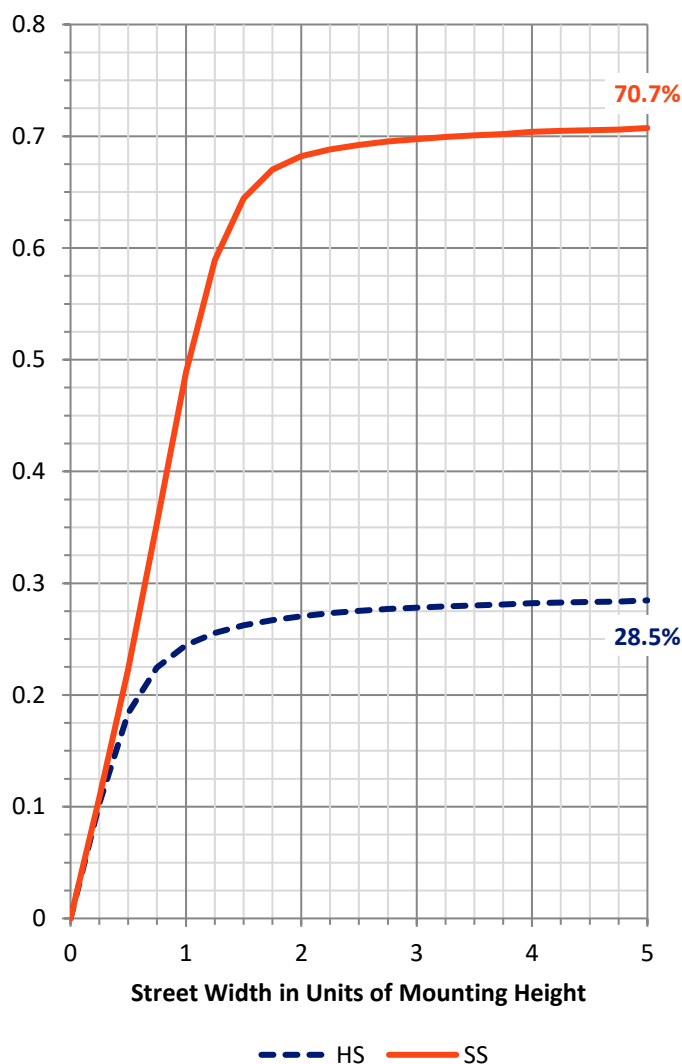
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7208.2	0.0	7208.2
	% Fixture	28.9	0.0	28.9
Street Side	Lumens	17723.8	0.0	17723.8
	% Fixture	71.1	0.0	71.1
Total	Lumens	24932.0	0.0	24932.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	300.1	1.2
10°-20°	896.1	3.6
20°-30°	1591.7	6.4
30°-40°	2692.8	10.8
40°-50°	4687.7	18.8
50°-60°	6058.0	24.3
60°-70°	5301.1	21.3
70°-80°	2883.4	11.6
80°-90°	521.0	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°	24932.0	100.0
0°-180°	24932.0	100.0

Coefficient of Utilization



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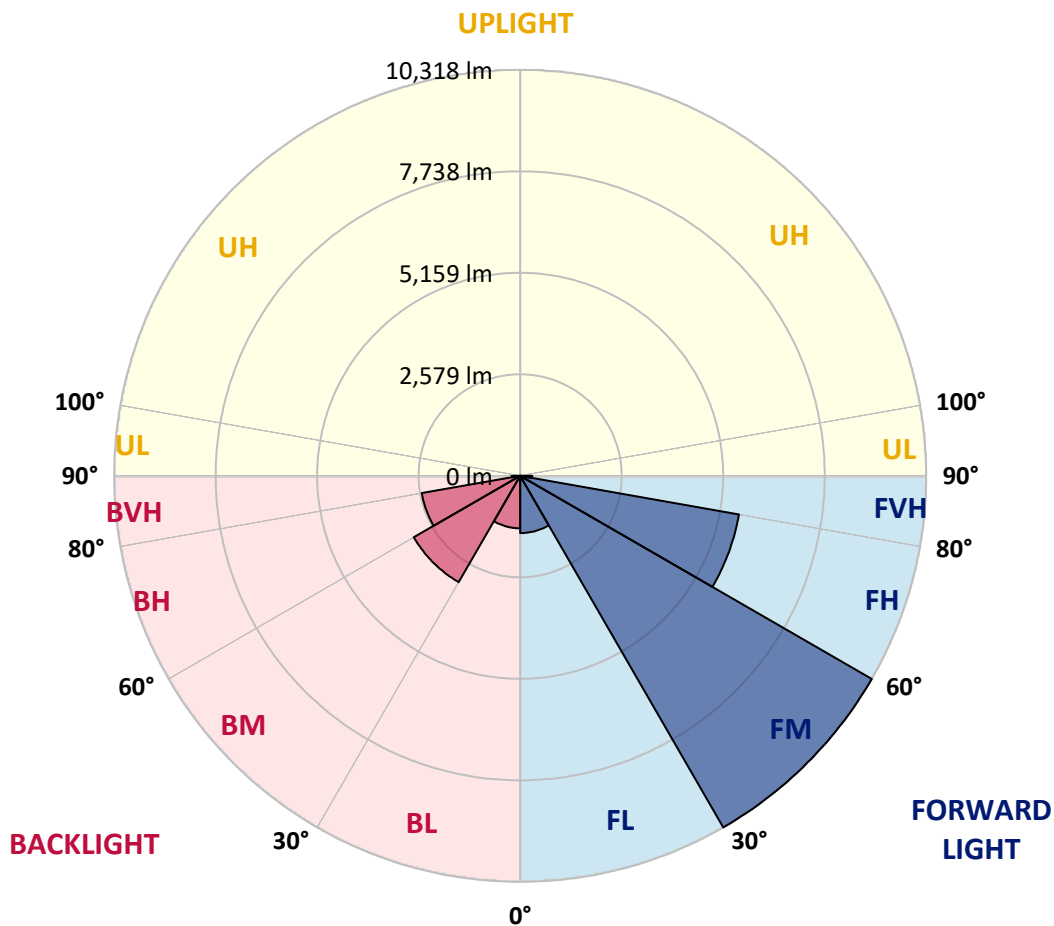
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1454.7	5.8			
FM (30°-60°)	10317.5	41.4			
FH (60°-80°)	5645.0	22.6			G3/7500
FVH (80°-90°)	306.6	1.2			G3/500
BL (0°-30°)	1333.3	5.3	B3/2500		
BM (30°-60°)	3121.0	12.5	B3/5000		
BH (60°-80°)	2539.5	10.2	B4/5000		G4/5000
BVH (80°-90°)	214.4	0.9			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	3150.4	3150.4	3150.4	3150.4	3150.4	3150.4	3150.4	3150.4	3150.4	3150.4	3150.4
2.5°	3094.6	3091.3	3084.8	3091.3	3094.6	3101.2	3097.9	3104.5	3101.2	3111.0	3127.4
5°	3015.9	3009.3	3006.0	3022.4	3032.3	3048.7	3055.2	3078.2	3074.9	3091.3	3117.6
7.5°	2927.2	2927.2	2924.0	2943.7	2956.8	2986.3	3009.3	3048.7	3051.9	3081.5	3111.0
10°	2858.3	2861.6	2858.3	2874.7	2894.4	2930.5	2969.9	3025.7	3029.0	3071.6	3101.2
12.5°	2832.1	2832.1	2832.1	2855.0	2881.3	2930.5	2976.5	3035.5	3042.1	3088.0	3114.3
15°	2868.2	2871.5	2864.9	2887.9	2917.4	2976.5	3019.1	3081.5	3088.0	3130.7	3147.1
17.5°	2996.2	3009.3	2992.9	3006.0	2999.4	3045.4	3084.8	3147.1	3150.4	3186.5	3193.1
20°	3248.8	3262.0	3235.7	3219.3	3160.2	3157.0	3173.4	3222.6	3222.6	3245.6	3229.2
22.5°	3639.4	3652.5	3606.5	3544.2	3403.1	3334.2	3298.1	3321.0	3317.8	3327.6	3284.9
25°	4157.9	4154.6	4098.8	3983.9	3757.5	3590.1	3501.5	3465.4	3465.4	3445.7	3393.2
27.5°	4801.1	4751.9	4653.4	4515.6	4200.5	3967.5	3777.2	3685.3	3668.9	3609.8	3511.4
30°	5486.9	5450.8	5309.7	5109.6	4745.3	4446.7	4131.6	3947.8	3938.0	3810.0	3662.3
32.5°	6294.2	6235.2	6077.6	5838.1	5401.6	4981.6	4587.8	4308.8	4292.4	4089.0	3885.5
35°	7331.2	7282.0	6976.8	6737.3	6176.1	5624.8	5158.8	4787.9	4774.8	4525.4	4266.2
37.5°	8575.0	8447.0	8151.7	7702.1	7111.4	6458.3	5867.6	5401.6	5385.2	5109.6	4781.4
40°	9684.2	9569.3	9306.8	8893.3	8260.0	7534.7	6734.0	6169.5	6153.1	5818.4	5404.9
42.5°	10504.6	10425.8	10255.2	10015.6	9562.8	9123.0	8399.9	7098.2	7068.7	6635.5	6120.3
45°	10980.5	10918.1	10819.6	10878.7	10872.2	10790.1	9159.1	8204.2	8109.0	7547.8	6917.7
47.5°	10865.6	10809.8	10849.2	11308.6	11942.0	12417.8	10694.9	9336.3	9208.4	8476.5	7767.7
50°	10035.3	10058.3	10265.0	11144.5	12565.5	13622.2	12398.1	10626.0	10455.4	9411.8	8575.0
52.5°	8522.5	8578.3	9080.4	10311.0	12496.6	14403.2	13937.2	11958.4	11732.0	10324.1	9310.1
55°	6770.1	6911.2	7561.0	8853.9	11597.4	14459.0	15098.9	13297.3	13047.9	11180.6	9950.0
57.5°	5007.8	5217.8	5969.3	7157.3	9874.5	13576.2	15679.8	14577.2	14275.2	12030.6	10626.0
60°	3176.7	3304.6	4171.0	5572.3	7557.7	11416.9	15604.3	15666.7	15404.1	12877.3	11331.6
62.5°	2028.1	2090.4	2526.9	3974.1	5283.5	8453.6	14780.6	16490.4	16313.2	13648.4	12001.0
65°	1302.8	1329.1	1552.2	2444.8	3596.7	5103.0	12729.6	16579.0	16601.9	14130.8	12414.5
67.5°	1060.0	1073.1	1155.1	1509.6	2543.3	2819.0	8867.1	15318.8	15597.8	14006.1	12273.4
70°	964.8	981.2	1066.5	1204.4	1969.0	1946.0	4292.4	12818.2	13274.3	13287.5	11646.6
72.5°	813.9	836.8	951.7	1138.7	1522.7	1535.8	1818.0	9129.6	9802.3	11876.3	10704.8
75°	679.3	692.4	790.9	1004.2	1289.7	1227.3	1276.6	4840.5	5811.8	9523.4	9703.9
77.5°	551.3	564.4	636.6	800.7	1145.3	955.0	1004.2	2005.1	2477.7	6464.9	7931.8
80°	393.8	406.9	489.0	623.5	866.4	859.8	744.9	1105.9	1201.1	3495.0	5152.2
82.5°	282.2	292.1	370.8	446.3	600.5	863.1	561.2	751.5	787.6	1548.9	2077.3
85°	190.3	190.3	256.0	295.3	387.2	544.8	452.9	508.7	531.6	735.1	561.2
87.5°	82.0	82.0	137.8	151.0	203.5	252.7	338.0	256.0	262.5	397.1	229.7
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°	3150.4	3150.4	3150.4	3150.4	3150.4	3150.4	3150.4	3150.4	3150.4	3150.4	3150.4
2.5°	3137.3	3140.6	3147.1	3166.8	3179.9	3199.6	3209.5	3222.6	3222.6	3216.0	3219.3
5°	3130.7	3140.6	3163.5	3199.6	3222.6	3258.7	3284.9	3304.6	3311.2	3304.6	3307.9
7.5°	3127.4	3143.8	3183.2	3235.7	3268.5	3314.5	3350.6	3373.6	3390.0	3383.4	3386.7
10°	3117.6	3143.8	3193.1	3258.7	3307.9	3353.9	3386.7	3396.5	3406.4	3399.8	3396.5
12.5°	3130.7	3160.2	3212.7	3291.5	3347.3	3383.4	3393.2	3376.8	3353.9	3340.7	3337.5
15°	3157.0	3186.5	3239.0	3321.0	3370.3	3383.4	3360.4	3307.9	3255.4	3225.9	3222.6
17.5°	3193.1	3212.7	3255.4	3327.6	3367.0	3350.6	3304.6	3242.3	3202.9	3179.9	3183.2
20°	3216.0	3216.0	3248.8	3304.6	3337.5	3324.3	3268.5	3199.6	3137.3	3107.7	3097.9
22.5°	3248.8	3232.4	3235.7	3284.9	3330.9	3311.2	3193.1	3071.6	2983.0	2950.2	2946.9
25°	3337.5	3291.5	3262.0	3291.5	3399.8	3239.0	3002.7	2861.6	2779.6	2750.0	2753.3
27.5°	3445.7	3383.4	3321.0	3370.3	3455.6	3074.9	2759.9	2599.1	2549.9	2526.9	2536.7
30°	3554.0	3472.0	3390.0	3567.2	3416.2	2819.0	2448.1	2290.6	2247.9	2231.5	2244.7
32.5°	3754.2	3619.7	3521.2	3829.7	3294.8	2526.9	2110.1	1965.7	1926.3	1906.6	1900.1
35°	4089.0	3918.3	3819.9	4059.4	3124.1	2202.0	1801.6	1699.9	1657.2	1614.6	1608.0
37.5°	4571.4	4364.6	4276.0	4190.7	2884.6	1880.4	1565.4	1496.4	1434.1	1368.5	1365.2
40°	5148.9	4879.8	4814.2	4249.8	2553.1	1578.5	1401.3	1335.6	1256.9	1194.5	1197.8
42.5°	5815.1	5470.5	5329.4	4233.3	2142.9	1417.7	1283.1	1210.9	1142.0	1086.2	1082.9
45°	6527.2	6136.7	5811.8	4118.5	1736.0	1306.1	1210.9	1125.6	1056.7	994.3	987.8
47.5°	7314.8	6878.4	6258.1	3895.3	1434.1	1227.3	1168.3	1046.9	984.5	945.1	945.1
50°	8109.0	7587.2	6668.3	3557.3	1256.9	1168.3	1105.9	1004.2	955.0	922.1	922.1
52.5°	8788.3	8325.6	7006.4	3153.7	1145.3	1119.0	1063.3	984.5	932.0	902.5	899.2
55°	9447.9	9011.5	7308.3	2753.3	1053.4	1053.4	1053.4	968.1	909.0	882.8	879.5
57.5°	10104.2	9733.4	7623.3	2490.8	971.4	997.6	1033.7	948.4	889.3	866.4	863.1
60°	10845.9	10599.8	7987.6	2307.0	899.2	938.6	1007.5	925.4	856.5	836.8	833.5
62.5°	11633.5	11633.5	8319.0	2047.8	833.5	889.3	968.1	895.9	827.0	810.6	807.3
65°	12250.5	12516.3	8532.3	1660.5	767.9	840.1	922.1	856.5	787.6	784.3	777.8
67.5°	12322.7	12739.4	8397.8	1253.6	708.8	787.6	876.2	813.9	748.2	748.2	738.4
70°	11804.1	12227.5	7977.7	938.6	666.2	735.1	817.1	761.3	699.0	705.6	689.1
72.5°	10937.8	11042.8	6934.2	741.7	617.0	679.3	744.9	702.3	646.5	646.5	623.5
75°	9795.8	9211.6	5037.4	620.2	557.9	613.7	672.7	636.6	587.4	571.0	557.9
77.5°	7797.2	6674.9	2927.2	534.9	508.7	551.3	590.7	564.4	521.8	485.7	485.7
80°	4751.9	3911.7	1293.0	462.7	449.6	482.4	508.7	479.1	443.0	406.9	397.1
82.5°	1808.2	1509.6	626.8	397.1	393.8	413.5	433.2	403.6	377.4	361.0	311.8
85°	495.5	456.2	429.9	331.4	324.9	321.6	344.6	331.4	295.3	242.8	216.6
87.5°	187.1	213.3	233.0	203.5	216.6	200.2	229.7	210.0	187.1	121.4	108.3
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)