

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: P399969

Luminaire Tested: **ARCH-L-PA3-210-830-U-T2U**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P399969
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-PA3-210-830-U-T2U
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 80 CRI, 3000K, 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: 23692 lumens
Efficiency: N/A
Efficacy: 112.3 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

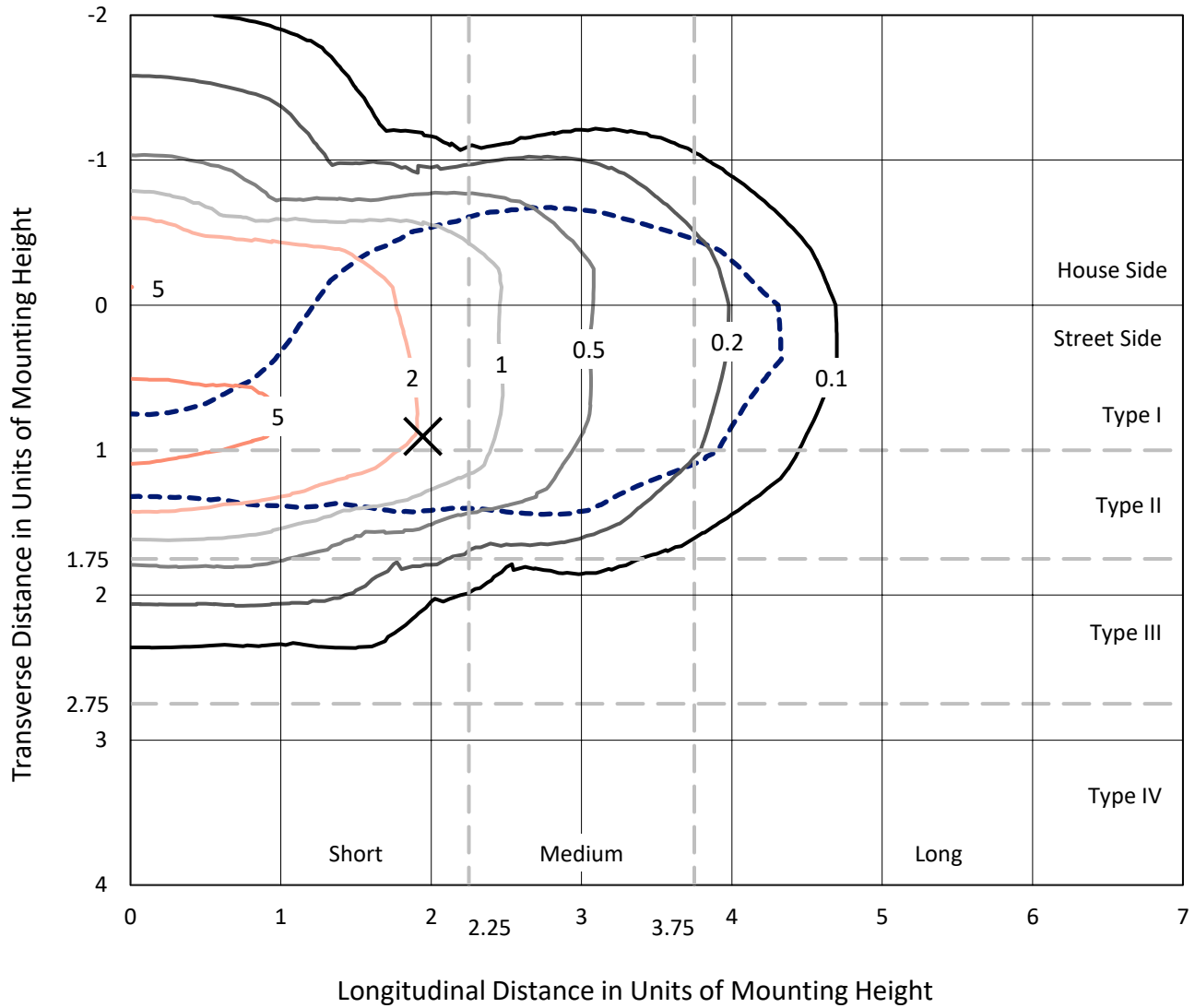
Input Watts (W): 211
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

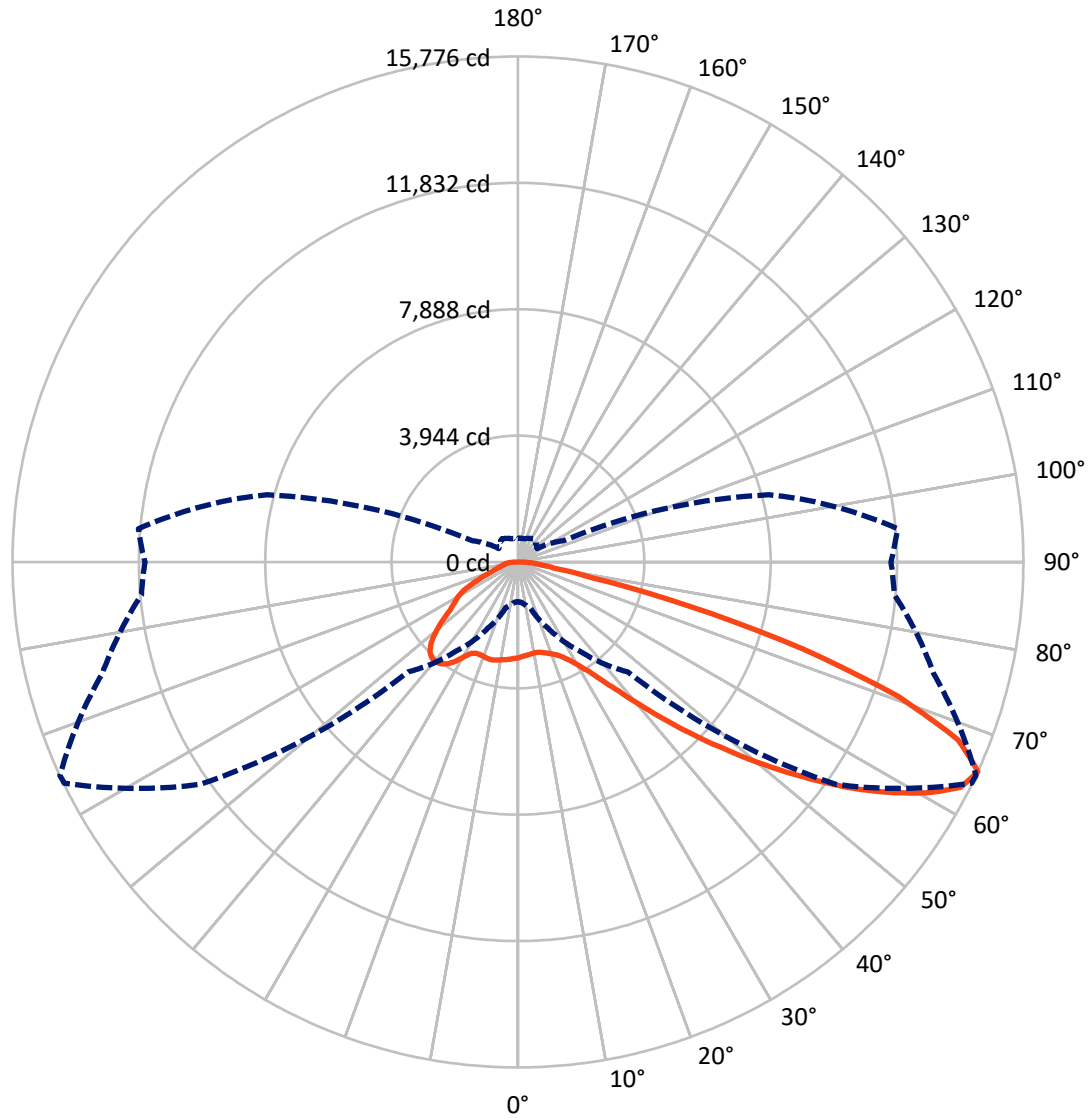
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.5 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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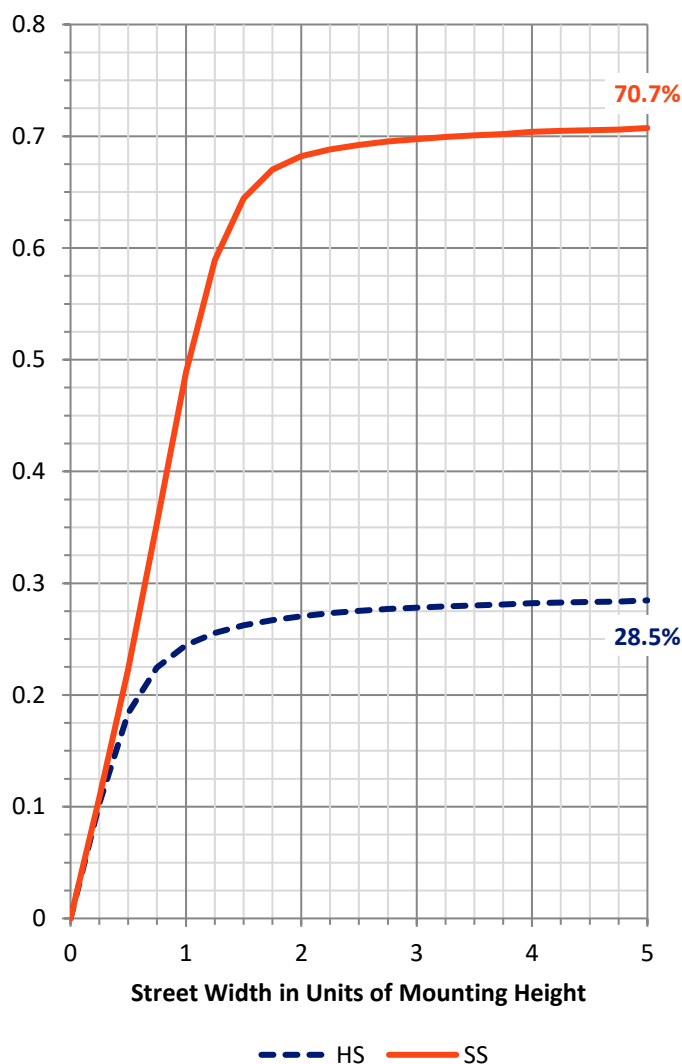
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6849.7	0.0	6849.7
	% Fixture	28.9	0.0	28.9
Street Side	Lumens	16842.3	0.0	16842.3
	% Fixture	71.1	0.0	71.1
Total	Lumens	23692.0	0.0	23692.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	285.2	1.2
10°-20°	851.5	3.6
20°-30°	1512.6	6.4
30°-40°	2558.9	10.8
40°-50°	4454.6	18.8
50°-60°	5756.7	24.3
60°-70°	5037.4	21.3
70°-80°	2740.0	11.6
80°-90°	495.1	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°	23692.0	100.0
0°-180°	23692.0	100.0

Coefficient of Utilization



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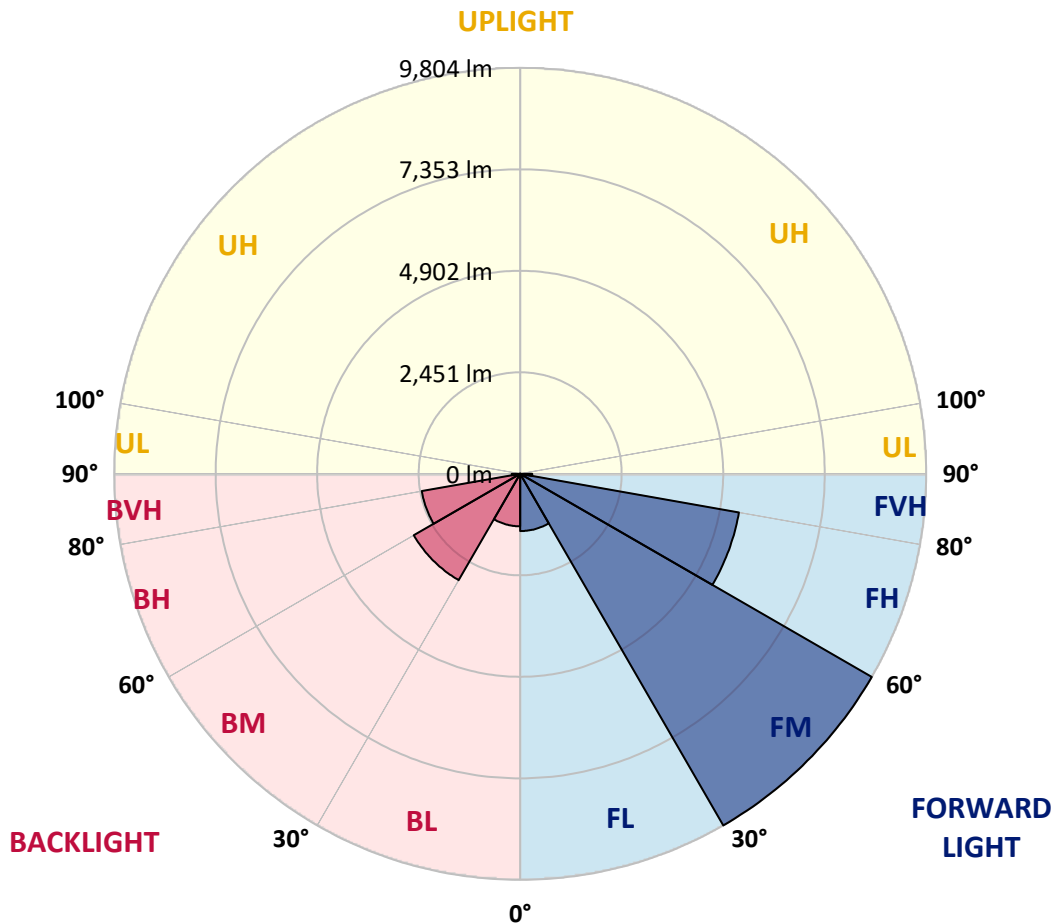
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1382.4	5.8			
FM (30°-60°)	9804.4	41.4			
FH (60°-80°)	5364.2	22.6			G3/7500
FVH (80°-90°)	291.3	1.2			G3/500
BL (0°-30°)	1267.0	5.3	B3/2500		
BM (30°-60°)	2965.8	12.5	B3/5000		
BH (60°-80°)	2413.2	10.2	B3/2500		G3/2500
BVH (80°-90°)	203.7	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°	2993.7	2993.7	2993.7	2993.7	2993.7	2993.7	2993.7	2993.7	2993.7	2993.7	2993.7
2.5°	2940.7	2937.6	2931.3	2937.6	2940.7	2946.9	2943.8	2950.1	2946.9	2956.3	2971.9
5°	2865.9	2859.6	2856.5	2872.1	2881.4	2897.0	2903.3	2925.1	2922.0	2937.6	2962.5
7.5°	2781.7	2781.7	2778.5	2797.3	2809.7	2837.8	2859.6	2897.0	2900.2	2928.2	2956.3
10°	2716.2	2719.3	2716.2	2731.8	2750.5	2784.8	2822.2	2875.2	2878.3	2918.9	2946.9
12.5°	2691.2	2691.2	2691.2	2713.1	2738.0	2784.8	2828.4	2884.6	2890.8	2934.5	2959.4
15°	2725.5	2728.6	2722.4	2744.2	2772.3	2828.4	2869.0	2928.2	2934.5	2975.0	2990.6
17.5°	2847.1	2859.6	2844.0	2856.5	2850.3	2893.9	2931.3	2990.6	2993.7	3028.0	3034.3
20°	3087.3	3099.7	3074.8	3059.2	3003.1	2999.9	3015.5	3062.3	3062.3	3084.1	3068.6
22.5°	3458.4	3470.8	3427.2	3367.9	3233.8	3168.3	3134.0	3155.9	3152.8	3162.1	3121.6
25°	3951.1	3948.0	3894.9	3785.8	3570.6	3411.6	3327.4	3293.1	3293.1	3274.4	3224.5
27.5°	4562.3	4515.5	4422.0	4291.0	3991.6	3770.2	3589.3	3502.0	3486.4	3430.3	3336.7
30°	5214.0	5179.7	5045.7	4855.4	4509.3	4225.5	3926.1	3751.5	3742.1	3620.5	3480.2
32.5°	5981.2	5925.1	5775.4	5547.7	5133.0	4733.8	4359.6	4094.5	4078.9	3885.6	3692.2
35°	6966.6	6919.8	6629.8	6402.2	5868.9	5345.0	4902.2	4549.8	4537.3	4300.3	4054.0
37.5°	8148.5	8026.9	7746.2	7319.0	6757.7	6137.1	5575.8	5133.0	5117.4	4855.4	4543.6
40°	9202.5	9093.4	8843.9	8451.0	7849.1	7160.0	6399.1	5862.7	5847.1	5529.0	5136.1
42.5°	9982.2	9907.3	9745.2	9517.5	9087.2	8669.3	7450.0	6745.2	6717.1	6305.5	5815.9
45°	10434.3	10375.1	10281.5	10337.7	10331.4	10253.5	8703.6	7796.1	7705.7	7172.4	6573.7
47.5°	10325.2	10272.2	10309.6	10746.2	11348.0	11800.2	10163.0	8872.0	8750.4	8055.0	7381.4
50°	9536.2	9558.1	9754.5	10590.3	11940.5	12944.7	11781.5	10097.5	9935.4	8943.7	8148.5
52.5°	8098.6	8151.6	8628.8	9798.2	11875.1	13686.9	13244.1	11363.6	11148.5	9810.6	8847.0
55°	6433.4	6567.5	7184.9	8413.6	11020.6	13739.9	14348.0	12636.0	12399.0	10624.6	9455.1
57.5°	4758.8	4958.3	5672.5	6801.3	9383.4	12901.0	14900.0	13852.2	13565.3	11432.2	10097.5
60°	3018.7	3140.3	3963.6	5295.1	7181.8	10849.1	14828.2	14887.5	14638.0	12236.8	10768.0
62.5°	1927.2	1986.5	2401.2	3776.4	5020.7	8033.1	14045.5	15670.2	15501.8	12969.6	11404.2
65°	1238.0	1263.0	1475.0	2323.2	3417.8	4849.2	12096.5	15754.4	15776.2	13428.0	11797.1
67.5°	1007.3	1019.7	1097.7	1434.5	2416.8	2678.7	8426.1	14556.9	14822.0	13309.5	11663.0
70°	916.8	932.4	1013.5	1144.5	1871.1	1849.2	4078.9	12180.7	12614.1	12626.6	11067.4
72.5°	773.4	795.2	904.4	1082.1	1447.0	1459.4	1727.6	8675.5	9314.8	11285.7	10172.4
75°	645.5	658.0	751.5	954.2	1225.6	1166.3	1213.1	4599.7	5522.8	9049.7	9221.3
77.5°	523.9	536.4	605.0	760.9	1088.3	907.5	954.2	1905.4	2354.4	6143.3	7537.3
80°	374.2	386.7	464.6	592.5	823.3	817.0	707.9	1050.9	1141.4	3321.1	4896.0
82.5°	268.2	277.5	352.4	424.1	570.7	820.2	533.3	714.1	748.4	1471.9	1974.0
85°	180.9	180.9	243.2	280.7	368.0	517.7	430.3	483.4	505.2	698.5	533.3
87.5°	78.0	78.0	131.0	143.4	193.3	240.1	321.2	243.2	249.5	377.3	218.3
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°	2993.7	2993.7	2993.7	2993.7	2993.7	2993.7	2993.7	2993.7	2993.7	2993.7	2993.7
2.5°	2981.2	2984.4	2990.6	3009.3	3021.8	3040.5	3049.8	3062.3	3062.3	3056.1	3059.2
5°	2975.0	2984.4	3006.2	3040.5	3062.3	3096.6	3121.6	3140.3	3146.5	3140.3	3143.4
7.5°	2971.9	2987.5	3024.9	3074.8	3106.0	3149.6	3183.9	3205.8	3221.4	3215.1	3218.2
10°	2962.5	2987.5	3034.3	3096.6	3143.4	3187.1	3218.2	3227.6	3237.0	3230.7	3227.6
12.5°	2975.0	3003.1	3053.0	3127.8	3180.8	3215.1	3224.5	3208.9	3187.1	3174.6	3171.5
15°	2999.9	3028.0	3077.9	3155.9	3202.6	3215.1	3193.3	3143.4	3093.5	3065.4	3062.3
17.5°	3034.3	3053.0	3093.5	3162.1	3199.5	3183.9	3140.3	3081.0	3043.6	3021.8	3024.9
20°	3056.1	3056.1	3087.3	3140.3	3171.5	3159.0	3106.0	3040.5	2981.2	2953.2	2943.8
22.5°	3087.3	3071.7	3074.8	3121.6	3165.2	3146.5	3034.3	2918.9	2834.7	2803.5	2800.4
25°	3171.5	3127.8	3099.7	3127.8	3230.7	3077.9	2853.4	2719.3	2641.3	2613.3	2616.4
27.5°	3274.4	3215.1	3155.9	3202.6	3283.7	2922.0	2622.6	2469.8	2423.0	2401.2	2410.6
30°	3377.3	3299.3	3221.4	3389.8	3246.3	2678.7	2326.4	2176.7	2136.1	2120.5	2133.0
32.5°	3567.5	3439.7	3346.1	3639.2	3130.9	2401.2	2005.2	1868.0	1830.5	1811.8	1805.6
35°	3885.6	3723.4	3629.9	3857.5	2968.8	2092.5	1712.0	1615.4	1574.8	1534.3	1528.0
37.5°	4344.0	4147.5	4063.3	3982.3	2741.1	1786.9	1487.5	1422.0	1362.8	1300.4	1297.3
40°	4892.8	4637.1	4574.8	4038.4	2426.2	1500.0	1331.6	1269.2	1194.4	1135.1	1138.2
42.5°	5525.9	5198.5	5064.4	4022.8	2036.3	1347.2	1219.3	1150.7	1085.2	1032.2	1029.1
45°	6202.6	5831.5	5522.8	3913.7	1649.7	1241.1	1150.7	1069.6	1004.1	944.9	938.7
47.5°	6951.0	6536.3	5946.9	3701.6	1362.8	1166.3	1110.2	994.8	935.5	898.1	898.1
50°	7705.7	7209.9	6336.7	3380.4	1194.4	1110.2	1050.9	954.2	907.5	876.3	876.3
52.5°	8351.2	7911.5	6657.9	2996.8	1088.3	1063.4	1010.4	935.5	885.6	857.6	854.5
55°	8978.0	8563.3	6944.8	2616.4	1001.0	1001.0	1001.0	919.9	863.8	838.9	835.7
57.5°	9601.7	9249.3	7244.2	2366.9	923.1	948.0	982.3	901.2	845.1	823.3	820.2
60°	10306.5	10072.6	7590.3	2192.3	854.5	891.9	957.4	879.4	813.9	795.2	792.1
62.5°	11054.9	11054.9	7905.3	1945.9	792.1	845.1	919.9	851.3	785.8	770.3	767.1
65°	11641.2	11893.8	8108.0	1577.9	729.7	798.3	876.3	813.9	748.4	745.3	739.1
67.5°	11709.8	12105.8	7980.1	1191.2	673.6	748.4	832.6	773.4	711.0	711.0	701.7
70°	11217.1	11619.3	7581.0	891.9	633.0	698.5	776.5	723.5	664.2	670.5	654.9
72.5°	10393.8	10493.6	6589.3	704.8	586.3	645.5	707.9	667.3	614.3	614.3	592.5
75°	9308.6	8753.5	4786.8	589.4	530.1	583.2	639.3	605.0	558.2	542.6	530.1
77.5°	7409.4	6342.9	2781.7	508.3	483.4	523.9	561.3	536.4	495.8	461.5	461.5
80°	4515.5	3717.2	1228.7	439.7	427.2	458.4	483.4	455.3	421.0	386.7	377.3
82.5°	1718.3	1434.5	595.6	377.3	374.2	392.9	411.6	383.6	358.6	343.0	296.3
85°	470.9	433.5	408.5	315.0	308.7	305.6	327.4	315.0	280.7	230.8	205.8
87.5°	177.8	202.7	221.4	193.3	205.8	190.2	218.3	199.6	177.8	115.4	102.9
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)