

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: P399991

Luminaire Tested: **ARCH-L-PA3-220-727-U-T4W**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P399991
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-11)
Test Lab: INNOVATION CENTER
Issue Date: 5/19/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-L-PA3-220-727-U-T4W
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 2700K, 945mA LIGHT ENGINES WITH 24 LEDS AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25779 lumens
Efficiency: N/A
Efficacy: 116.1 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

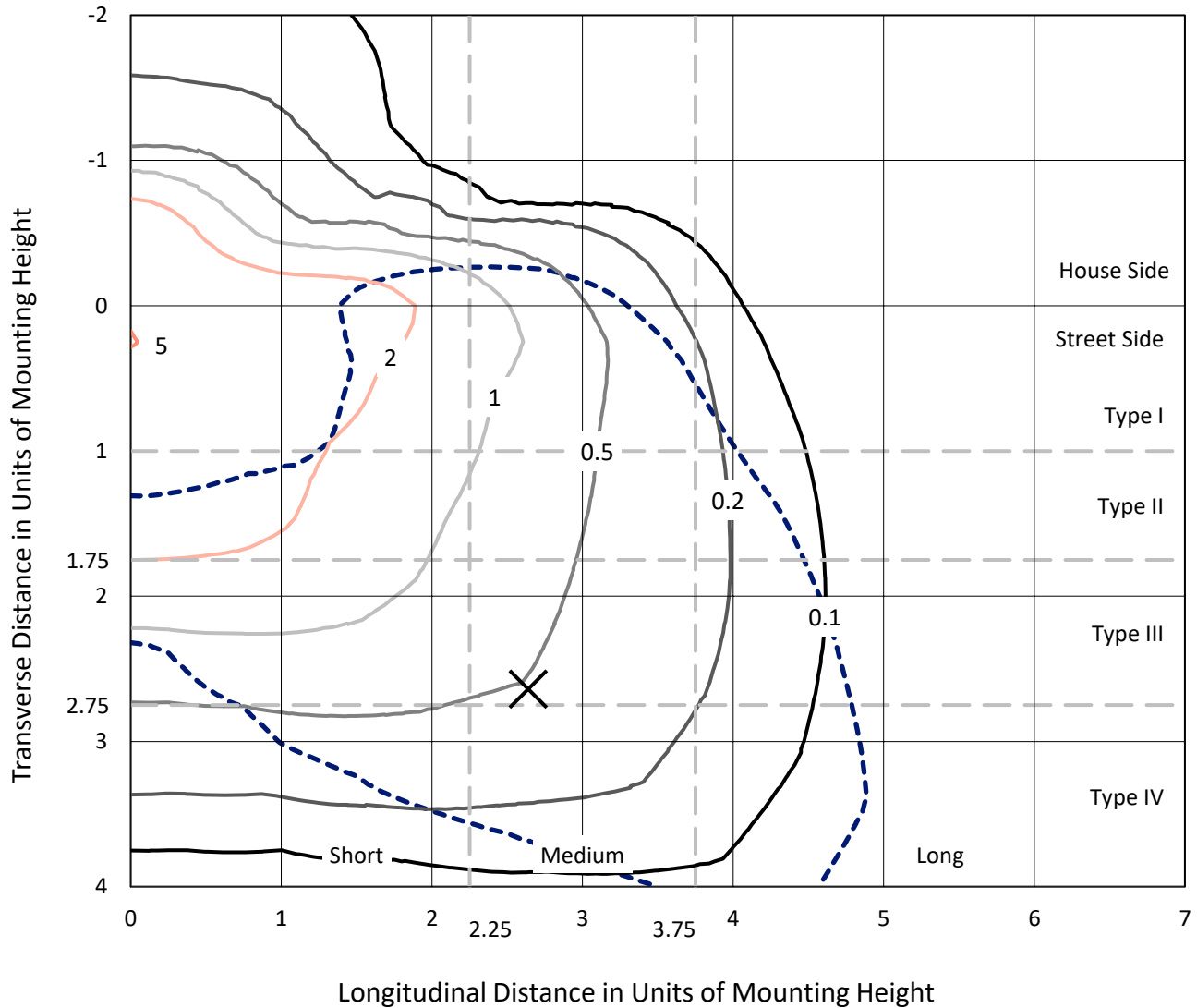
Input Watts (W): 222
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

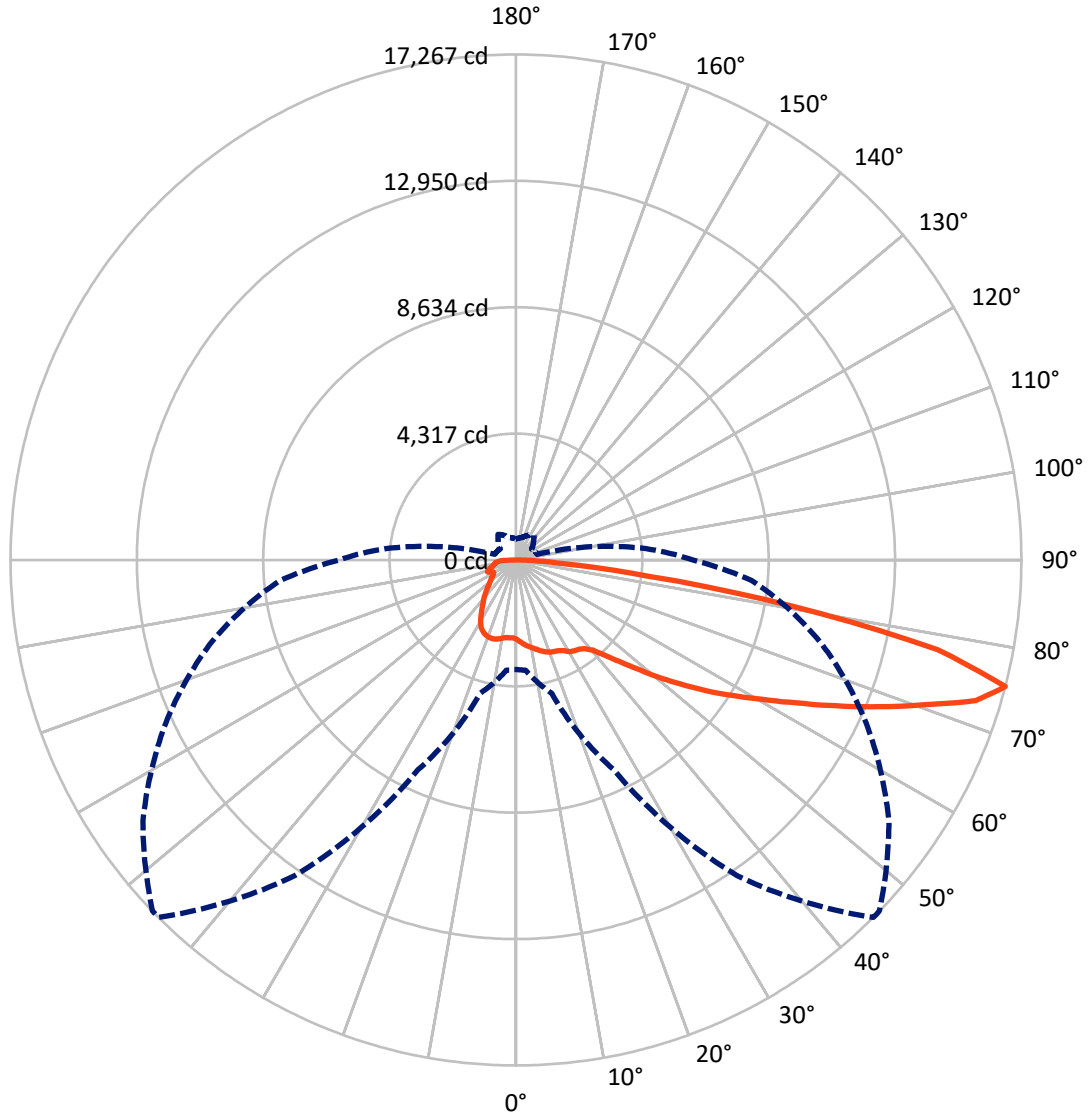
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.1 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical



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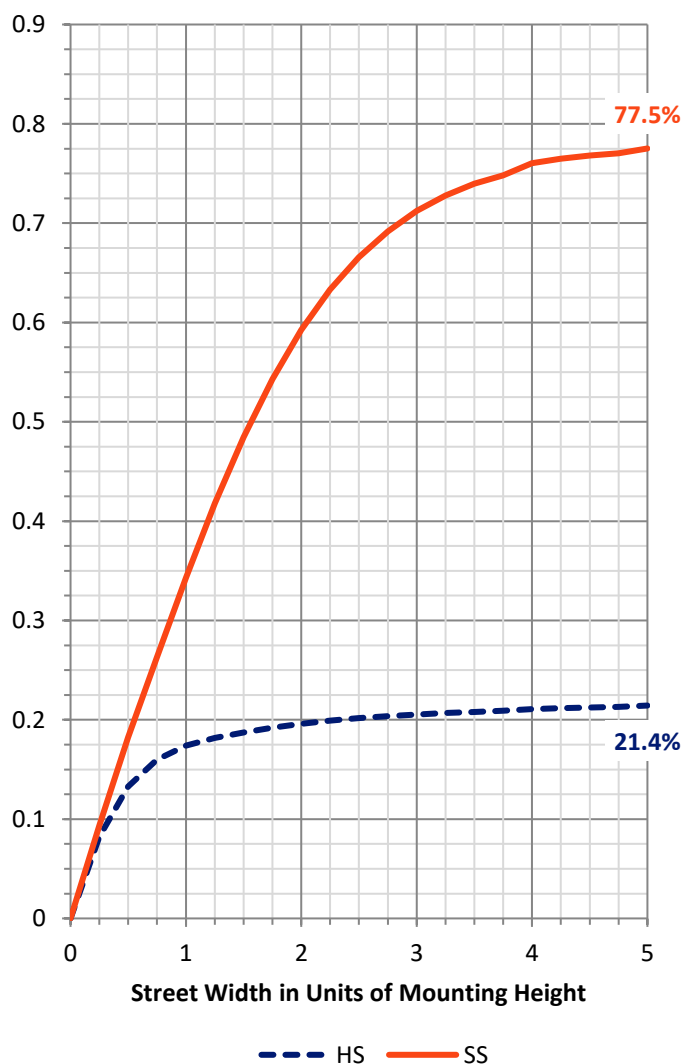
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5697.0	0.0	5697.0
	% Fixture	22.1	0.0	22.1
Street Side	Lumens	20082.0	0.0	20082.0
	% Fixture	77.9	0.0	77.9
Total	Lumens	25779.0	0.0	25779.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	267.8	1.0
10°-20°	852.1	3.3
20°-30°	1452.7	5.6
30°-40°	2035.4	7.9
40°-50°	2990.3	11.6
50°-60°	4759.0	18.5
60°-70°	6769.7	26.3
70°-80°	5668.3	22.0
80°-90°	983.7	3.8
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°	25779.0	100.0
0°-180°	25779.0	100.0

Coefficient of Utilization

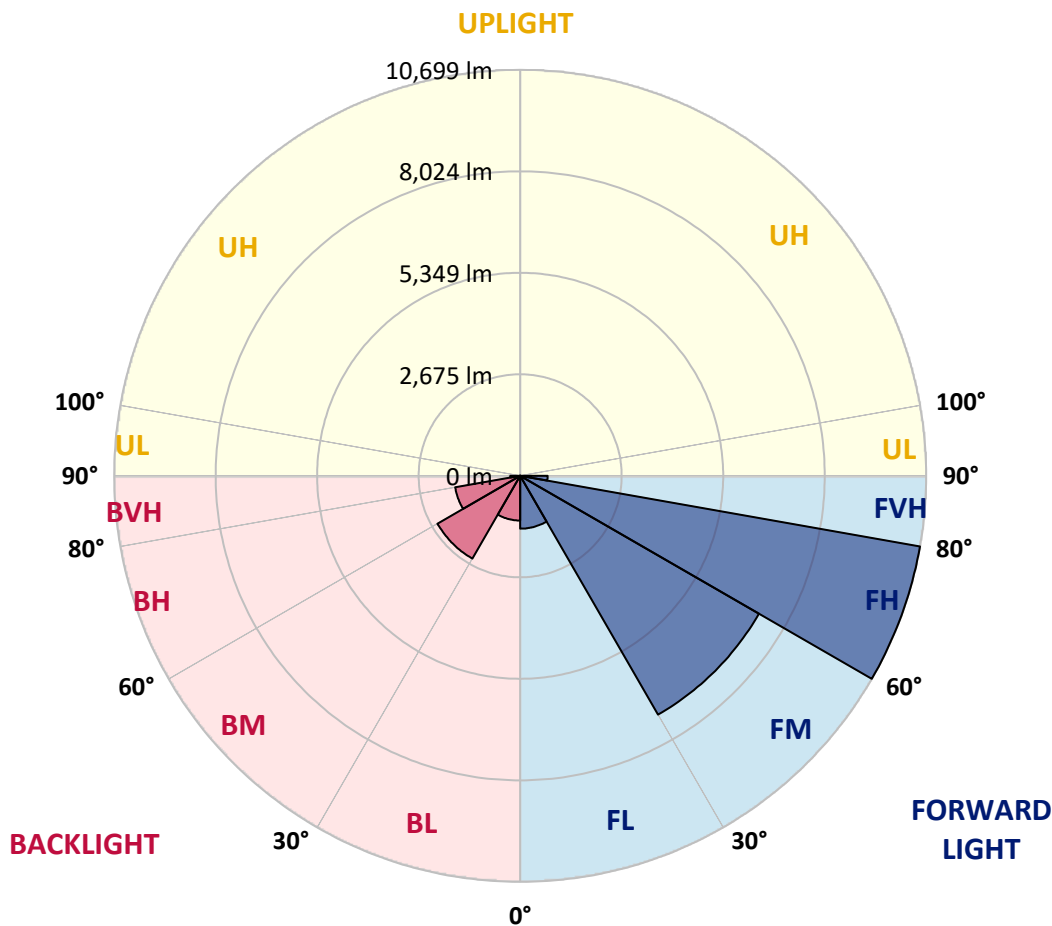


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1393.5	5.4			
FM (30°-60°)	7266.3	28.2			
FH (60°-80°)	10698.9	41.5			G4/12000
FVH (80°-90°)	723.2	2.8			G4/750
BL (0°-30°)	1179.1	4.6	B3/2500		
BM (30°-60°)	2518.4	9.8	B3/5000		
BH (60°-80°)	1739.1	6.7	B3/2500		G3/2500
BVH (80°-90°)	260.5	1.0			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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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	2707.4	2707.4	2707.4	2707.4	2707.4	2707.4	2707.4	2707.4	2707.4	2707.4	2707.4
2.5°	2862.4	2848.6	2841.7	2841.7	2814.1	2796.9	2793.5	2769.4	2748.7	2728.0	2710.8
5°	3027.7	3017.4	2996.7	2979.5	2941.6	2893.4	2886.5	2834.8	2783.1	2734.9	2693.6
7.5°	3179.3	3158.6	3134.5	3100.0	3038.0	2972.6	2962.3	2889.9	2817.6	2745.2	2690.1
10°	3306.7	3286.0	3251.6	3203.4	3124.1	3044.9	3034.6	2958.8	2883.0	2796.9	2717.7
12.5°	3427.3	3410.0	3358.4	3292.9	3199.9	3127.6	3117.3	3051.8	2972.6	2876.1	2772.8
15°	3530.6	3513.4	3458.3	3382.5	3275.7	3220.6	3206.8	3144.8	3065.6	2962.3	2855.5
17.5°	3582.3	3582.3	3523.7	3441.0	3341.1	3299.8	3289.5	3213.7	3141.4	3041.5	2934.7
20°	3599.5	3606.4	3565.0	3465.1	3379.0	3361.8	3351.5	3289.5	3206.8	3110.4	3010.5
22.5°	3609.8	3623.6	3589.1	3475.5	3403.1	3392.8	3385.9	3344.6	3279.1	3186.1	3086.3
25°	3644.3	3644.3	3620.1	3492.7	3434.1	3430.7	3430.7	3406.6	3361.8	3282.6	3182.7
27.5°	3695.9	3692.5	3661.5	3530.6	3503.0	3513.4	3509.9	3506.5	3475.5	3396.3	3289.5
30°	3782.0	3782.0	3747.6	3606.4	3589.1	3633.9	3637.4	3644.3	3596.0	3472.0	3385.9
32.5°	3912.9	3899.1	3864.7	3682.1	3654.6	3695.9	3702.8	3699.4	3658.0	3540.9	3499.6
35°	4315.9	4284.9	4160.9	3850.9	3713.1	3737.3	3740.7	3757.9	3764.8	3671.8	3651.1
37.5°	5022.0	4980.7	4791.3	4250.5	3899.1	3840.6	3837.1	3881.9	3919.8	3837.1	3837.1
40°	5790.2	5755.7	5645.5	4939.4	4243.6	4050.7	4036.9	4078.3	4126.5	4067.9	4085.1
42.5°	6451.5	6479.1	6489.4	5669.6	4760.3	4443.4	4405.5	4346.9	4422.7	4371.0	4439.9
45°	6947.5	6933.7	7123.2	6417.1	5428.5	4935.9	4884.3	4725.8	4822.3	4818.8	4970.4
47.5°	7474.5	7450.4	7529.6	7119.7	6189.7	5538.7	5459.5	5225.3	5369.9	5469.8	5721.3
50°	7974.0	7980.9	8008.4	7674.3	7016.4	6272.4	6172.5	5859.1	6065.7	6275.8	6630.6
52.5°	8625.0	8576.7	8542.3	8321.9	7943.0	7037.1	6971.6	6613.4	6902.7	7150.7	7622.6
55°	9193.3	9162.3	9141.6	9131.3	8718.0	7881.0	7812.1	7440.1	7856.9	8032.5	8728.3
57.5°	9799.5	9782.3	9892.5	10068.2	9902.9	8738.6	8666.3	8308.1	8773.1	8897.1	9927.0
60°	10243.9	10254.2	10557.3	11005.1	10891.4	9668.6	9582.5	9265.6	9665.2	9775.4	11125.7
62.5°	10247.3	10350.7	11053.3	11855.9	11986.8	10739.9	10640.0	10295.5	10581.4	10581.4	12200.3
65°	9269.1	9386.2	10963.8	12066.0	13095.9	12014.3	11917.9	11377.1	11483.9	11339.2	13209.6
67.5°	8294.3	8432.1	9916.6	12083.2	13874.4	13378.3	13264.7	12458.7	12276.1	11911.0	13915.7
70°	7646.7	7743.2	8983.2	11859.3	14342.8	14804.4	14718.3	13485.1	12899.6	12389.8	13767.6
72.5°	6437.7	6403.3	7588.2	10795.0	14604.6	16423.3	16350.9	14601.1	13440.4	12162.4	11742.2
75°	3737.3	3778.6	4708.6	7908.5	13164.8	17267.2	17260.3	15555.3	13202.7	10743.3	8091.1
77.5°	1078.1	1109.1	1546.6	3475.5	8325.3	14728.6	15200.5	14225.7	11160.1	7657.1	4195.4
80°	471.9	496.0	671.7	1157.3	3585.7	9620.4	10033.8	9620.4	6730.5	3513.4	1646.5
82.5°	279.0	296.2	437.4	716.5	1718.8	4577.7	5135.7	4484.7	2903.7	1491.5	682.0
85°	158.4	165.3	251.4	454.7	1081.6	1601.7	1798.0	1684.3	1415.7	847.3	358.2
87.5°	72.3	75.8	124.0	213.6	606.2	540.8	561.4	744.0	819.8	516.7	179.1
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°	2707.4	2707.4	2707.4	2707.4	2707.4	2707.4	2707.4	2707.4	2707.4	2707.4	2707.4
2.5°	2703.9	2693.6	2672.9	2666.0	2655.7	2659.1	2662.6	2662.6	2666.0	2655.7	2655.7
5°	2676.4	2659.1	2638.5	2638.5	2638.5	2666.0	2690.1	2703.9	2710.8	2710.8	2703.9
7.5°	2666.0	2645.4	2621.2	2628.1	2635.0	2669.5	2714.2	2759.0	2772.8	2772.8	2765.9
10°	2686.7	2666.0	2648.8	2659.1	2676.4	2703.9	2738.4	2779.7	2814.1	2817.6	2814.1
12.5°	2734.9	2710.8	2693.6	2714.2	2734.9	2752.1	2769.4	2786.6	2831.4	2838.2	2838.2
15°	2814.1	2790.0	2769.4	2786.6	2793.5	2793.5	2793.5	2793.5	2838.2	2845.1	2845.1
17.5°	2893.4	2872.7	2852.0	2855.5	2834.8	2807.2	2796.9	2793.5	2817.6	2838.2	2841.7
20°	2969.1	2951.9	2931.3	2896.8	2845.1	2793.5	2776.2	2776.2	2790.0	2821.0	2821.0
22.5°	3051.8	3031.1	2996.7	2917.5	2831.4	2759.0	2741.8	2752.1	2769.4	2810.7	2807.2
25°	3144.8	3117.3	3058.7	2910.6	2786.6	2700.5	2703.9	2734.9	2765.9	2810.7	2810.7
27.5°	3248.1	3210.3	3093.1	2855.5	2686.7	2604.0	2635.0	2707.4	2752.1	2800.4	2807.2
30°	3361.8	3327.4	3120.7	2759.0	2524.8	2449.0	2524.8	2641.9	2710.8	2755.6	2765.9
32.5°	3499.6	3472.0	3144.8	2635.0	2314.7	2249.2	2359.5	2504.1	2614.4	2666.0	2676.4
35°	3671.8	3644.3	3175.8	2493.8	2118.4	2049.5	2149.4	2297.5	2442.1	2507.6	2528.2
37.5°	3895.7	3854.4	3203.4	2342.2	1953.0	1873.8	1922.0	2056.4	2187.2	2276.8	2300.9
40°	4181.6	4116.2	3227.5	2170.0	1808.4	1718.8	1736.0	1801.5	1877.2	1956.5	1987.5
42.5°	4584.6	4453.7	3230.9	1987.5	1660.2	1577.6	1570.7	1591.3	1591.3	1591.3	1601.7
45°	5146.0	4898.0	3237.8	1815.2	1508.7	1422.6	1401.9	1395.0	1343.3	1243.5	1236.6
47.5°	5855.6	5480.2	3268.8	1670.6	1350.2	1274.5	1246.9	1219.3	1122.9	1019.6	998.9
50°	6765.0	6155.3	3330.8	1532.8	1215.9	1164.2	1129.8	1064.3	957.6	878.3	857.7
52.5°	7812.1	6957.8	3389.4	1388.1	1116.0	1081.6	1040.2	961.0	847.3	799.1	792.2
55°	9014.2	7853.4	3506.5	1260.7	1029.9	1005.8	967.9	892.1	806.0	771.6	768.1
57.5°	10243.9	8855.8	3671.8	1147.0	947.2	933.5	933.5	868.0	812.9	799.1	799.1
60°	11428.8	9716.9	3544.4	1040.2	871.5	878.3	943.8	926.6	885.2	902.5	912.8
62.5°	12348.5	10223.2	2876.1	954.1	816.3	878.3	1047.1	1047.1	998.9	992.0	992.0
65°	12741.1	10216.3	2021.9	888.7	795.7	964.5	1167.7	1112.6	985.1	936.9	926.6
67.5°	12641.2	9768.5	1395.0	843.9	788.8	1054.0	1222.8	1067.8	923.1	881.8	850.8
70°	11762.9	8821.3	1074.7	802.6	778.5	1016.1	1205.6	1016.1	874.9	837.0	809.5
72.5°	9489.5	7075.0	892.1	761.2	737.1	940.3	1147.0	967.9	837.0	795.7	768.1
75°	6051.9	4450.3	754.3	706.1	657.9	843.9	1067.8	919.7	795.7	740.6	719.9
77.5°	2910.6	1918.6	657.9	640.7	592.5	781.9	988.6	857.7	740.6	695.8	682.0
80°	1178.0	878.3	571.8	575.2	544.2	744.0	933.5	799.1	685.5	637.2	613.1
82.5°	613.1	509.8	482.2	496.0	496.0	709.6	892.1	750.9	637.2	616.6	537.3
85°	330.7	316.9	372.0	399.6	430.6	640.7	830.1	699.2	582.1	499.4	482.2
87.5°	161.9	206.7	210.1	241.1	299.7	513.2	699.2	585.6	485.7	403.0	396.1
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)