

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: P400207

Luminaire Tested: **ARCH-L-PA3-250-727-U-T4W**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P400207
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-PA3-250-727-U-T4W
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 2700K, 1070mA LIGHT ENGINES WITH 24 LEDS AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27946 lumens
Efficiency: N/A
Efficacy: 111.3 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G5

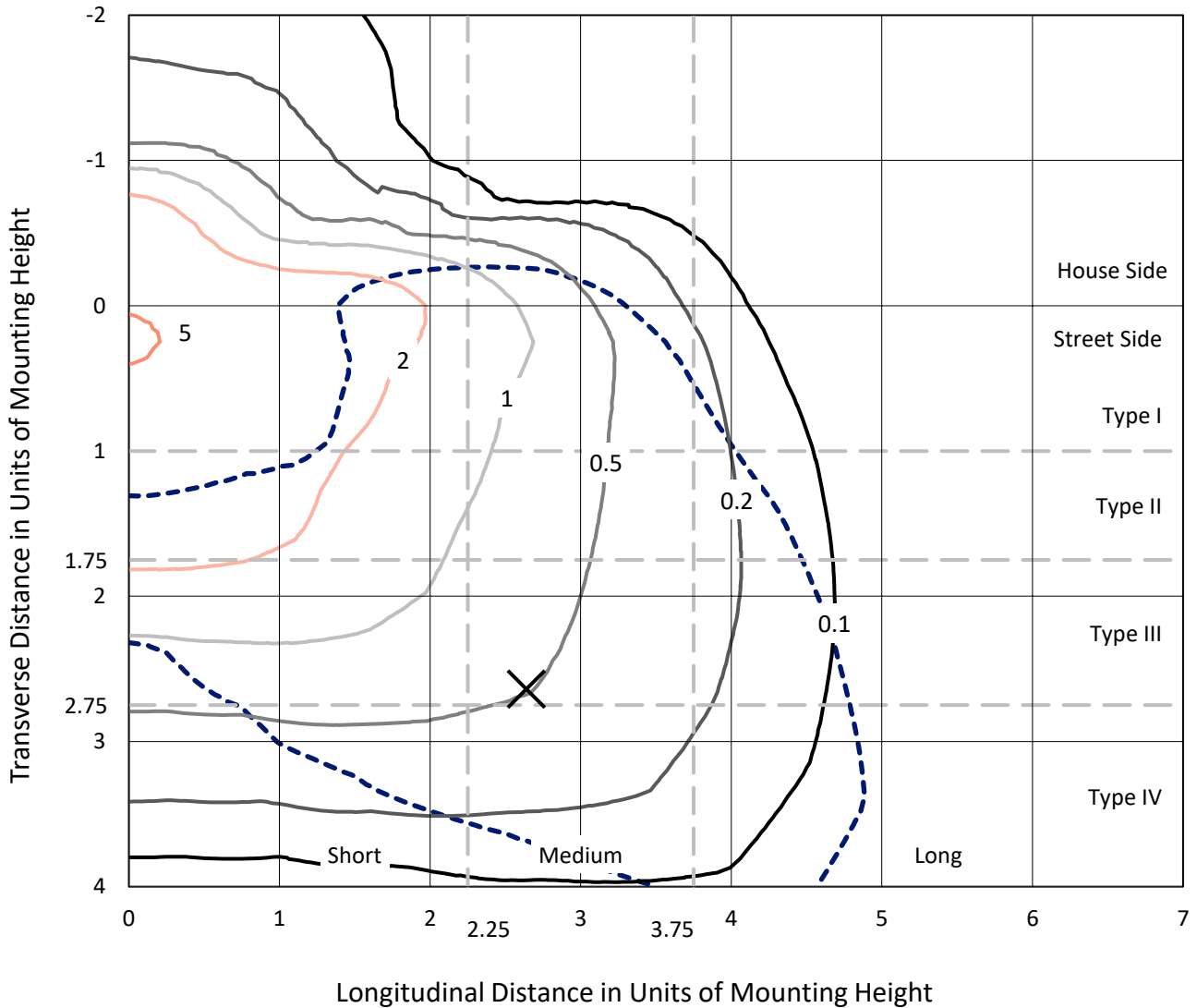
Input Watts (W): 251
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

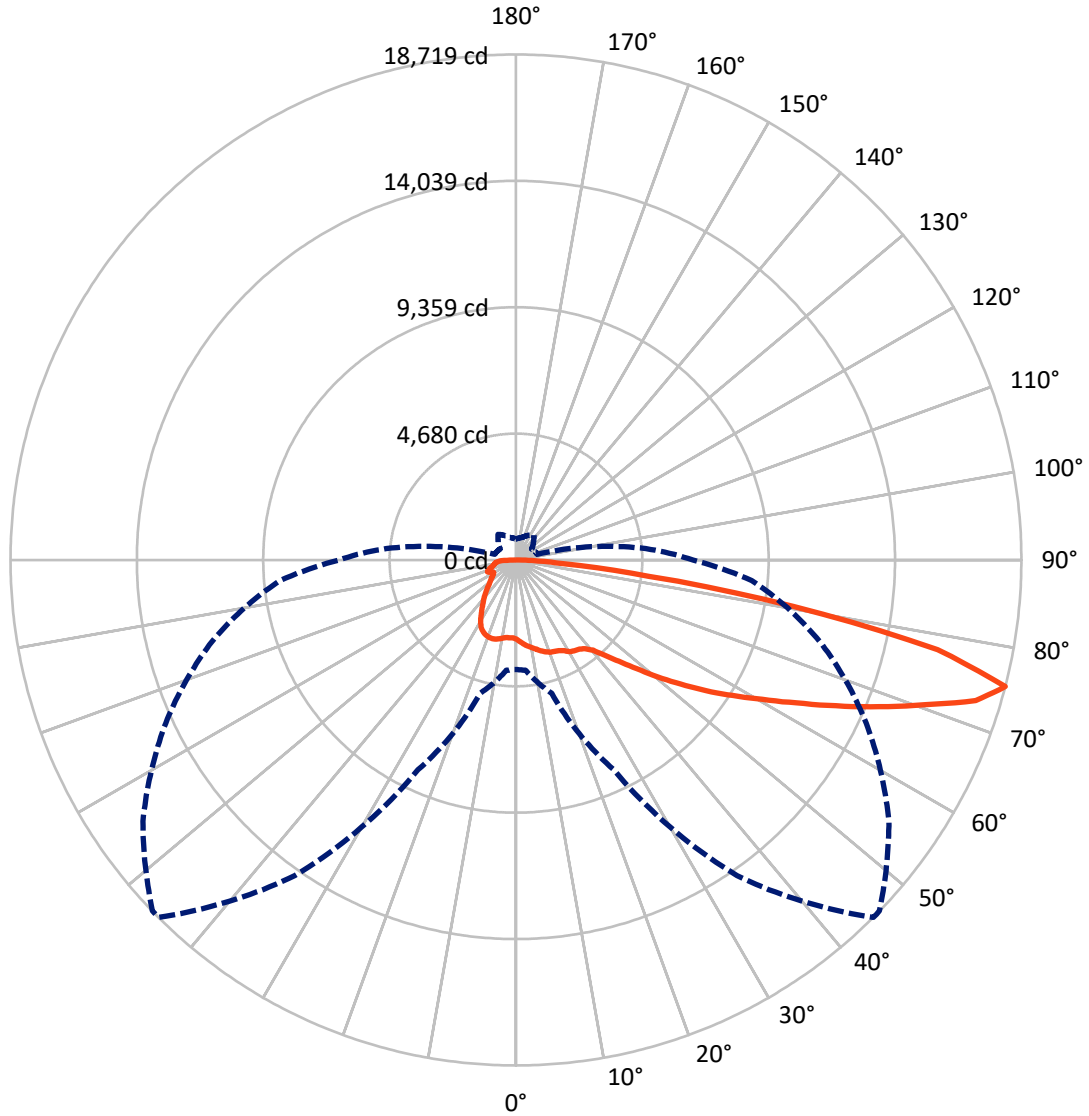
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.5 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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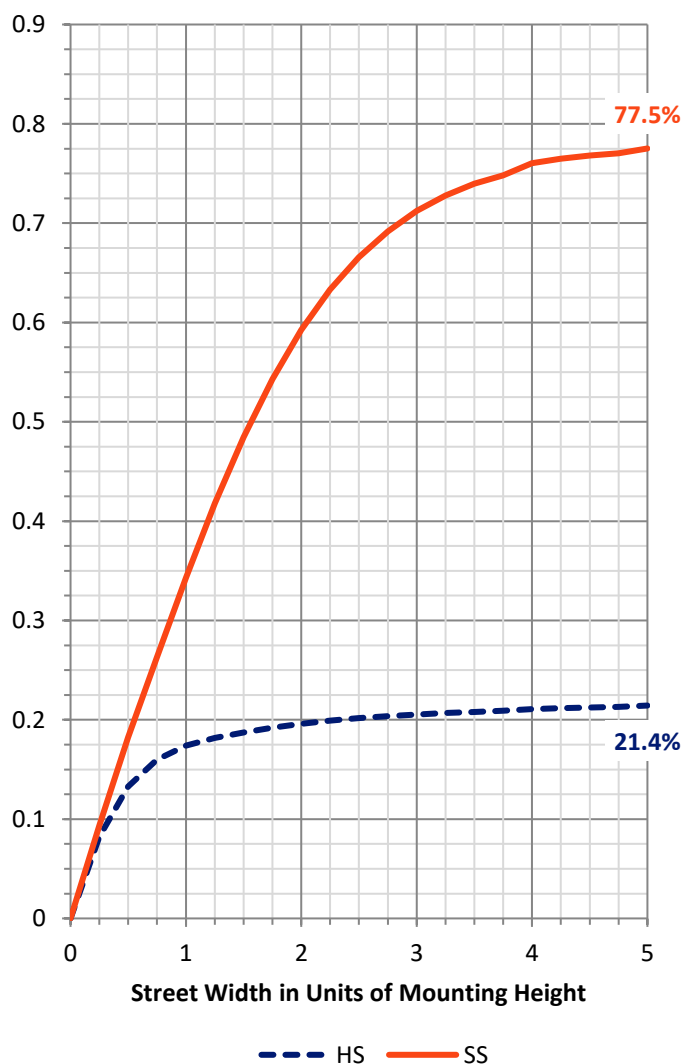
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6175.9	0.0	6175.9
	% Fixture	22.1	0.0	22.1
Street Side	Lumens	21770.1	0.0	21770.1
	% Fixture	77.9	0.0	77.9
Total	Lumens	27946.0	0.0	27946.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	290.3	1.0
10°-20°	923.7	3.3
20°-30°	1574.8	5.6
30°-40°	2206.5	7.9
40°-50°	3241.6	11.6
50°-60°	5159.1	18.5
60°-70°	7338.8	26.3
70°-80°	6144.8	22.0
80°-90°	1066.4	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°	27946.0	100.0
0°-180°	27946.0	100.0

Coefficient of Utilization

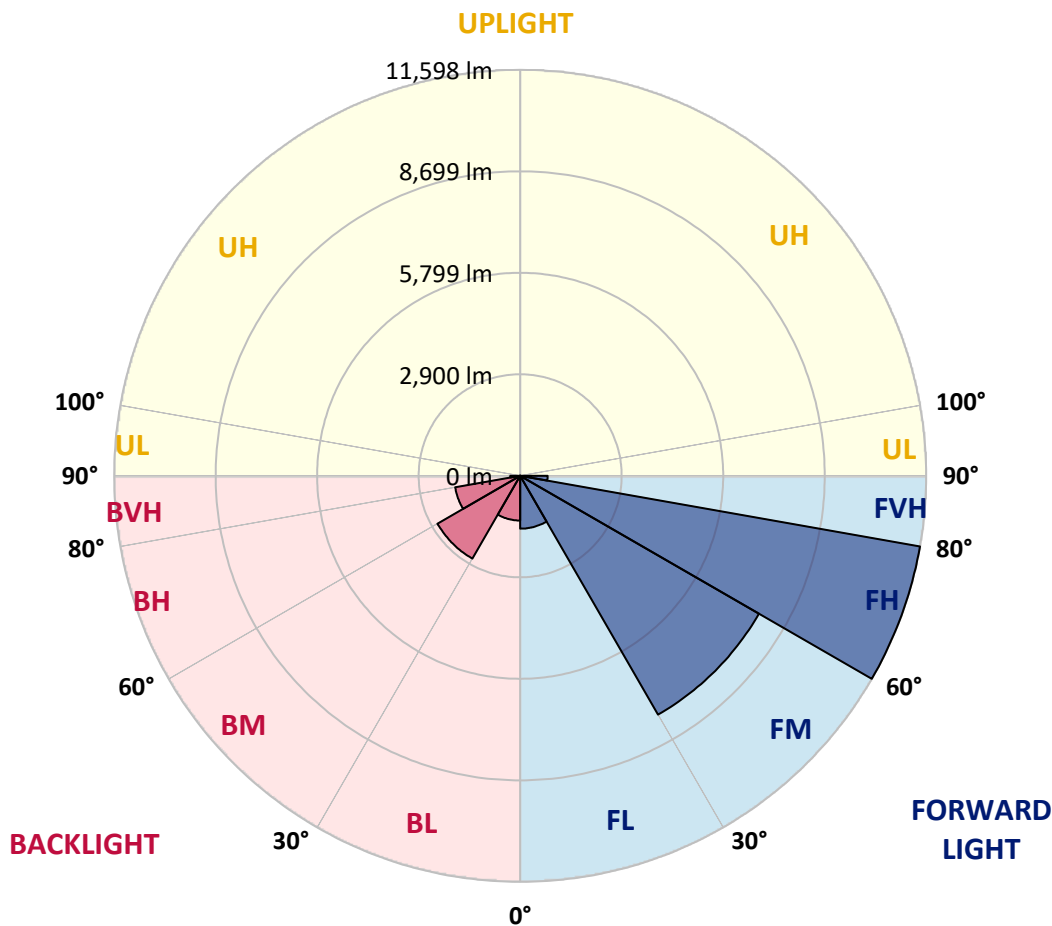


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1510.7	5.4			
FM (30°-60°)	7877.1	28.2			
FH (60°-80°)	11598.3	41.5			G4/12000
FVH (80°-90°)	784.0	2.8			G5
BL (0°-30°)	1278.2	4.6	B3/2500		
BM (30°-60°)	2730.0	9.8	B3/5000		
BH (60°-80°)	1885.3	6.7	B3/2500		G3/2500
BVH (80°-90°)	282.4	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-G5
 Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	2934.9	2934.9	2934.9	2934.9	2934.9	2934.9	2934.9	2934.9	2934.9	2934.9	2934.9
2.5°	3103.0	3088.0	3080.6	3080.6	3050.7	3032.0	3028.3	3002.2	2979.7	2957.3	2938.7
5°	3282.2	3271.0	3248.6	3229.9	3188.9	3136.6	3129.1	3073.1	3017.1	2964.8	2920.0
7.5°	3446.5	3424.1	3398.0	3360.6	3293.4	3222.5	3211.3	3132.8	3054.4	2976.0	2916.3
10°	3584.7	3562.3	3524.9	3472.6	3386.8	3300.9	3289.7	3207.5	3125.4	3032.0	2946.1
12.5°	3715.4	3696.7	3640.7	3569.7	3468.9	3390.5	3379.3	3308.3	3222.5	3117.9	3005.9
15°	3827.4	3808.7	3749.0	3666.8	3551.1	3491.3	3476.4	3409.2	3323.3	3211.3	3095.5
17.5°	3883.4	3883.4	3819.9	3730.3	3622.0	3577.2	3566.0	3483.8	3405.4	3297.1	3181.4
20°	3902.1	3909.5	3864.7	3756.4	3663.1	3644.4	3633.2	3566.0	3476.4	3371.8	3263.5
22.5°	3913.3	3928.2	3890.9	3767.6	3689.2	3678.0	3670.5	3625.7	3554.8	3454.0	3345.7
25°	3950.6	3950.6	3924.5	3786.3	3722.8	3719.1	3719.1	3692.9	3644.4	3558.5	3450.2
27.5°	4006.6	4002.9	3969.3	3827.4	3797.5	3808.7	3805.0	3801.2	3767.6	3681.7	3566.0
30°	4100.0	4100.0	4062.6	3909.5	3890.9	3939.4	3943.1	3950.6	3898.3	3763.9	3670.5
32.5°	4241.8	4226.9	4189.6	3991.7	3961.8	4006.6	4014.1	4010.3	3965.5	3838.6	3793.8
35°	4678.7	4645.1	4510.7	4174.6	4025.3	4051.4	4055.1	4073.8	4081.3	3980.5	3958.1
37.5°	5444.2	5399.4	5194.0	4607.8	4226.9	4163.4	4159.7	4208.2	4249.3	4159.7	4159.7
40°	6276.9	6239.6	6120.1	5354.6	4600.3	4391.2	4376.3	4421.1	4473.4	4409.9	4428.6
42.5°	6993.8	7023.7	7034.9	6146.2	5160.4	4816.9	4775.8	4712.3	4794.5	4738.5	4813.2
45°	7531.5	7516.6	7722.0	6956.5	5884.8	5350.9	5294.8	5123.1	5227.6	5223.9	5388.2
47.5°	8102.8	8076.7	8162.6	7718.2	6710.0	6004.3	5918.4	5664.5	5821.3	5929.6	6202.2
50°	8644.3	8651.7	8681.6	8319.4	7606.2	6799.7	6691.4	6351.6	6575.6	6803.4	7188.0
52.5°	9350.0	9297.7	9260.4	9021.4	8610.7	7628.6	7557.7	7169.3	7483.0	7751.8	8263.4
55°	9966.1	9932.5	9910.1	9898.9	9450.8	8543.4	8468.8	8065.5	8517.3	8707.7	9462.0
57.5°	10623.3	10604.6	10724.1	10914.5	10735.3	9473.2	9394.8	9006.5	9510.6	9645.0	10761.5
60°	11105.0	11116.2	11444.8	11930.2	11807.0	10481.4	10388.0	10044.5	10477.7	10597.2	12060.9
62.5°	11108.7	11220.7	11982.5	12852.5	12994.4	11642.7	11534.4	11161.0	11470.9	11470.9	13225.9
65°	10048.3	10175.2	11885.4	13080.3	14196.8	13024.3	12919.7	12333.5	12449.2	12292.4	14320.0
67.5°	8991.5	9140.9	10750.3	13099.0	15040.6	14502.9	14379.7	13506.0	13308.1	12912.2	15085.5
70°	8289.5	8394.1	9738.3	12856.2	15548.5	16048.8	15955.5	14618.7	13983.9	13431.3	14924.9
72.5°	6978.9	6941.5	8226.1	11702.4	15832.3	17803.8	17725.4	15828.5	14570.2	13184.8	12729.3
75°	4051.4	4096.2	5104.4	8573.3	14271.4	18718.7	18711.2	16862.8	14312.5	11646.4	8771.2
77.5°	1168.7	1202.4	1676.6	3767.6	9025.1	15966.7	16478.2	15421.5	12098.2	8300.7	4548.0
80°	511.6	537.7	728.1	1254.6	3887.1	10429.1	10877.2	10429.1	7296.3	3808.7	1784.9
82.5°	302.5	321.1	474.2	776.7	1863.3	4962.5	5567.4	4861.7	3147.8	1616.8	739.3
85°	171.8	179.2	272.6	492.9	1172.5	1736.3	1949.2	1825.9	1534.7	918.6	388.3
87.5°	78.4	82.1	134.4	231.5	657.2	586.2	608.6	806.5	888.7	560.1	194.2
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°	2934.9	2934.9	2934.9	2934.9	2934.9	2934.9	2934.9	2934.9	2934.9	2934.9	2934.9
2.5°	2931.2	2920.0	2897.6	2890.1	2878.9	2882.7	2886.4	2886.4	2890.1	2878.9	2878.9
5°	2901.3	2882.7	2860.3	2860.3	2860.3	2890.1	2916.3	2931.2	2938.7	2938.7	2931.2
7.5°	2890.1	2867.7	2841.6	2849.1	2856.5	2893.9	2942.4	2991.0	3005.9	3005.9	2998.4
10°	2912.5	2890.1	2871.5	2882.7	2901.3	2931.2	2968.5	3013.4	3050.7	3054.4	3050.7
12.5°	2964.8	2938.7	2920.0	2942.4	2964.8	2983.5	3002.2	3020.8	3069.4	3076.8	3076.8
15°	3050.7	3024.6	3002.2	3020.8	3028.3	3028.3	3028.3	3028.3	3076.8	3084.3	3084.3
17.5°	3136.6	3114.2	3091.8	3095.5	3073.1	3043.2	3032.0	3028.3	3054.4	3076.8	3080.6
20°	3218.7	3200.1	3177.7	3140.3	3084.3	3028.3	3009.6	3009.6	3024.6	3058.2	3058.2
22.5°	3308.3	3285.9	3248.6	3162.7	3069.4	2991.0	2972.3	2983.5	3002.2	3047.0	3043.2
25°	3409.2	3379.3	3315.8	3155.2	3020.8	2927.5	2931.2	2964.8	2998.4	3047.0	3047.0
27.5°	3521.2	3480.1	3353.2	3095.5	2912.5	2822.9	2856.5	2934.9	2983.5	3035.8	3043.2
30°	3644.4	3607.1	3383.0	2991.0	2737.0	2654.9	2737.0	2864.0	2938.7	2987.2	2998.4
32.5°	3793.8	3763.9	3409.2	2856.5	2509.3	2438.3	2557.8	2714.6	2834.1	2890.1	2901.3
35°	3980.5	3950.6	3442.8	2703.4	2296.4	2221.7	2330.0	2490.6	2647.4	2718.4	2740.8
37.5°	4223.2	4178.4	3472.6	2539.1	2117.2	2031.3	2083.6	2229.2	2371.1	2468.2	2494.3
40°	4533.1	4462.2	3498.8	2352.4	1960.4	1863.3	1881.9	1952.9	2035.0	2120.9	2154.5
42.5°	4970.0	4828.1	3502.5	2154.5	1799.8	1710.2	1702.7	1725.1	1725.1	1725.1	1736.3
45°	5578.6	5309.8	3510.0	1967.8	1635.5	1542.2	1519.7	1512.3	1456.3	1348.0	1340.5
47.5°	6347.8	5940.8	3543.6	1811.0	1463.7	1381.6	1351.7	1321.8	1217.3	1105.3	1082.9
50°	7333.6	6672.7	3610.8	1661.6	1318.1	1262.1	1224.8	1153.8	1038.1	952.2	929.8
52.5°	8468.8	7542.7	3674.3	1504.8	1209.8	1172.5	1127.7	1041.8	918.6	866.3	858.8
55°	9771.9	8513.6	3801.2	1366.7	1116.5	1090.3	1049.3	967.1	873.8	836.4	832.7
57.5°	11105.0	9600.2	3980.5	1243.4	1026.9	1011.9	1011.9	941.0	881.2	866.3	866.3
60°	12389.5	10533.7	3842.3	1127.7	944.7	952.2	1023.1	1004.5	959.6	978.3	989.5
62.5°	13386.5	11082.6	3117.9	1034.3	885.0	952.2	1135.1	1135.1	1082.9	1075.4	1075.4
65°	13812.1	11075.1	2191.9	963.4	862.6	1045.5	1265.8	1206.1	1067.9	1015.7	1004.5
67.5°	13703.9	10589.7	1512.3	914.8	855.1	1142.6	1325.6	1157.5	1000.7	955.9	922.3
70°	12751.7	9562.8	1165.0	870.0	843.9	1101.5	1306.9	1101.5	948.4	907.4	877.5
72.5°	10287.2	7669.7	967.1	825.2	799.1	1019.4	1243.4	1049.3	907.4	862.6	832.7
75°	6560.7	4824.4	817.8	765.5	713.2	914.8	1157.5	997.0	862.6	802.8	780.4
77.5°	3155.2	2079.9	713.2	694.5	642.3	847.6	1071.7	929.8	802.8	754.3	739.3
80°	1277.0	952.2	619.8	623.6	590.0	806.5	1011.9	866.3	743.1	690.8	664.7
82.5°	664.7	552.6	522.8	537.7	537.7	769.2	967.1	814.0	690.8	668.4	582.5
85°	358.5	343.5	403.3	433.1	466.8	694.5	899.9	758.0	631.0	541.4	522.8
87.5°	175.5	224.0	227.8	261.4	324.9	556.4	758.0	634.8	526.5	436.9	429.4
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)