

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: P399928

Luminaire Tested: **ARCH-L-PA3-210-730-U-T4W**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P399928
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-PA3-210-730-U-T4W
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 3000K, 900mA LIGHT ENGINES WITH 24 LEDS AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27122 lumens
Efficiency: N/A
Efficacy: 128.5 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

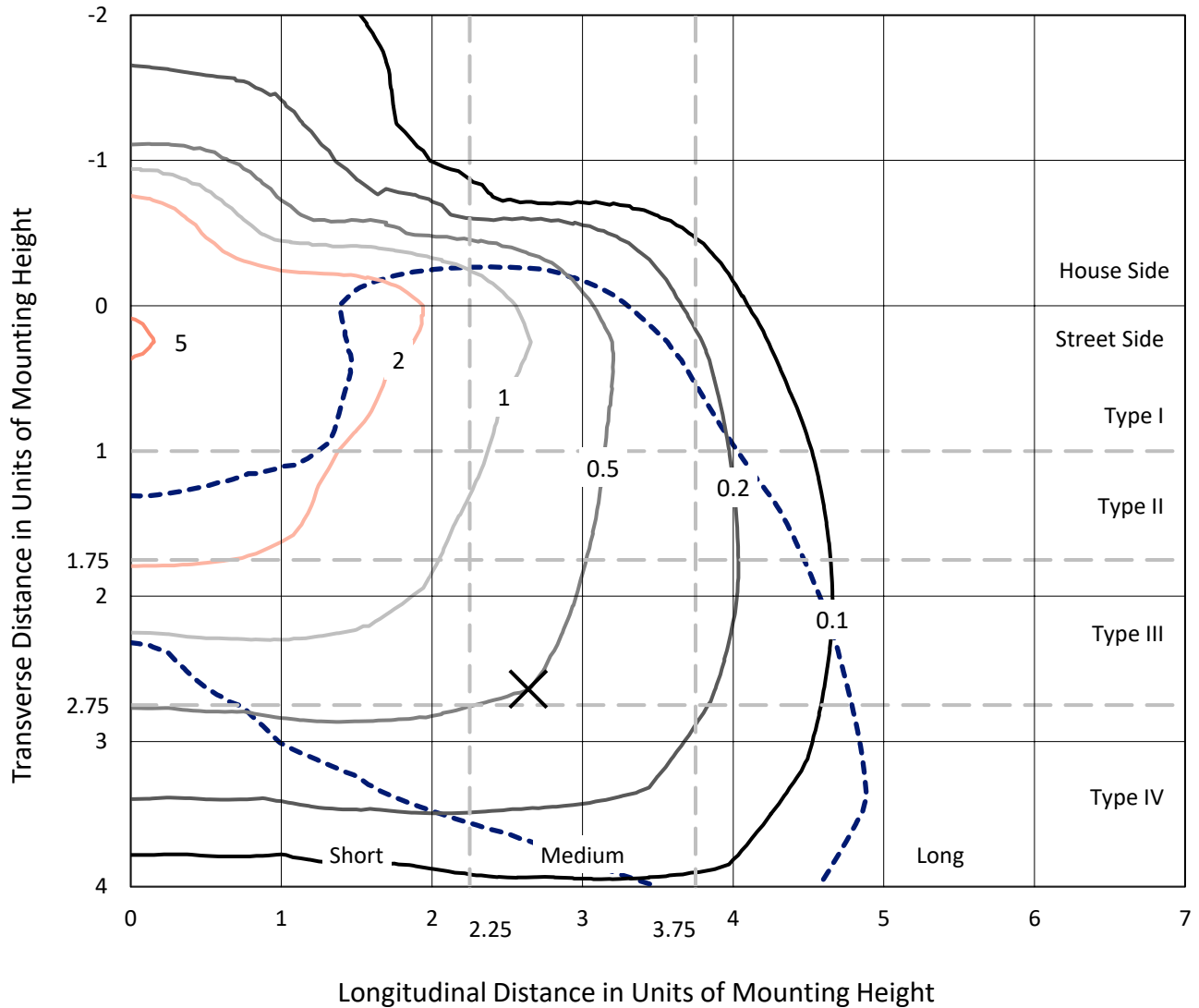
Input Watts (W): 211
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

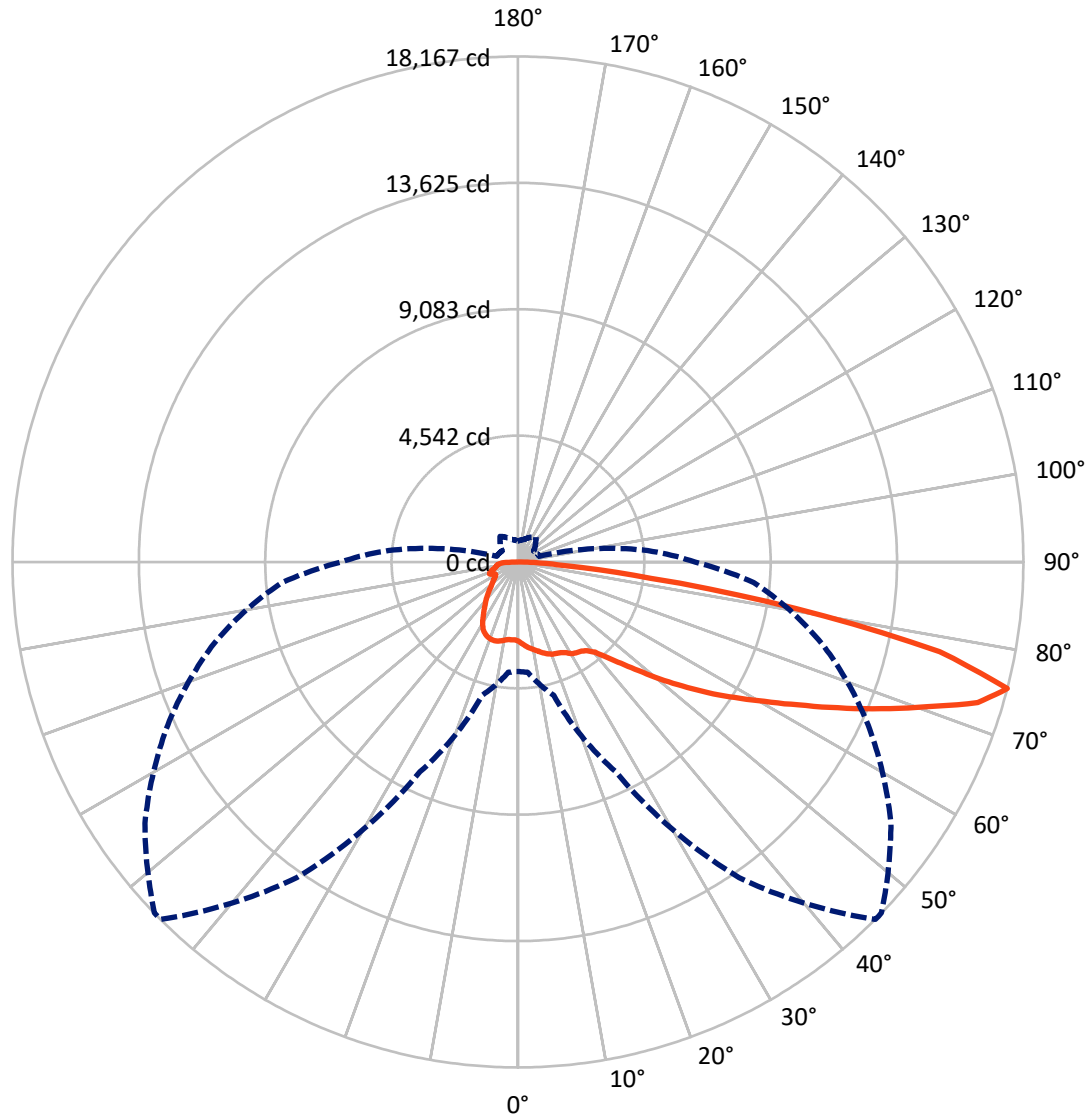
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.4 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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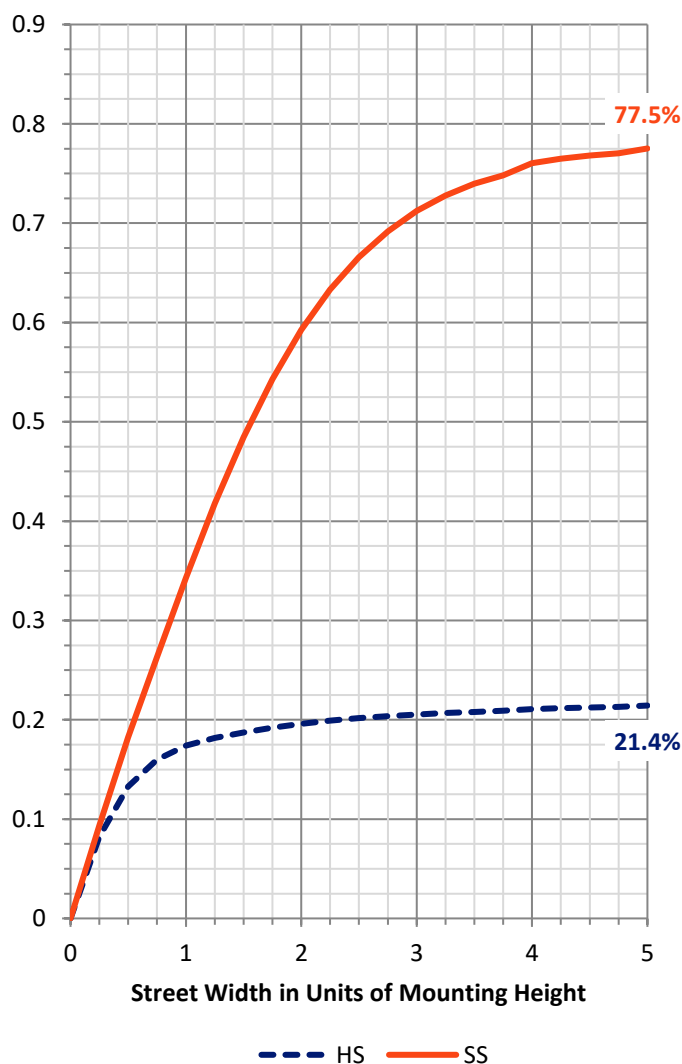
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5993.8	0.0	5993.8
	% Fixture	22.1	0.0	22.1
Street Side	Lumens	21128.2	0.0	21128.2
	% Fixture	77.9	0.0	77.9
Total	Lumens	27122.0	0.0	27122.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	281.8	1.0
10°-20°	896.5	3.3
20°-30°	1528.4	5.6
30°-40°	2141.4	7.9
40°-50°	3146.0	11.6
50°-60°	5007.0	18.5
60°-70°	7122.4	26.3
70°-80°	5963.6	22.0
80°-90°	1035.0	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°	27122.0	100.0
0°-180°	27122.0	100.0

Coefficient of Utilization

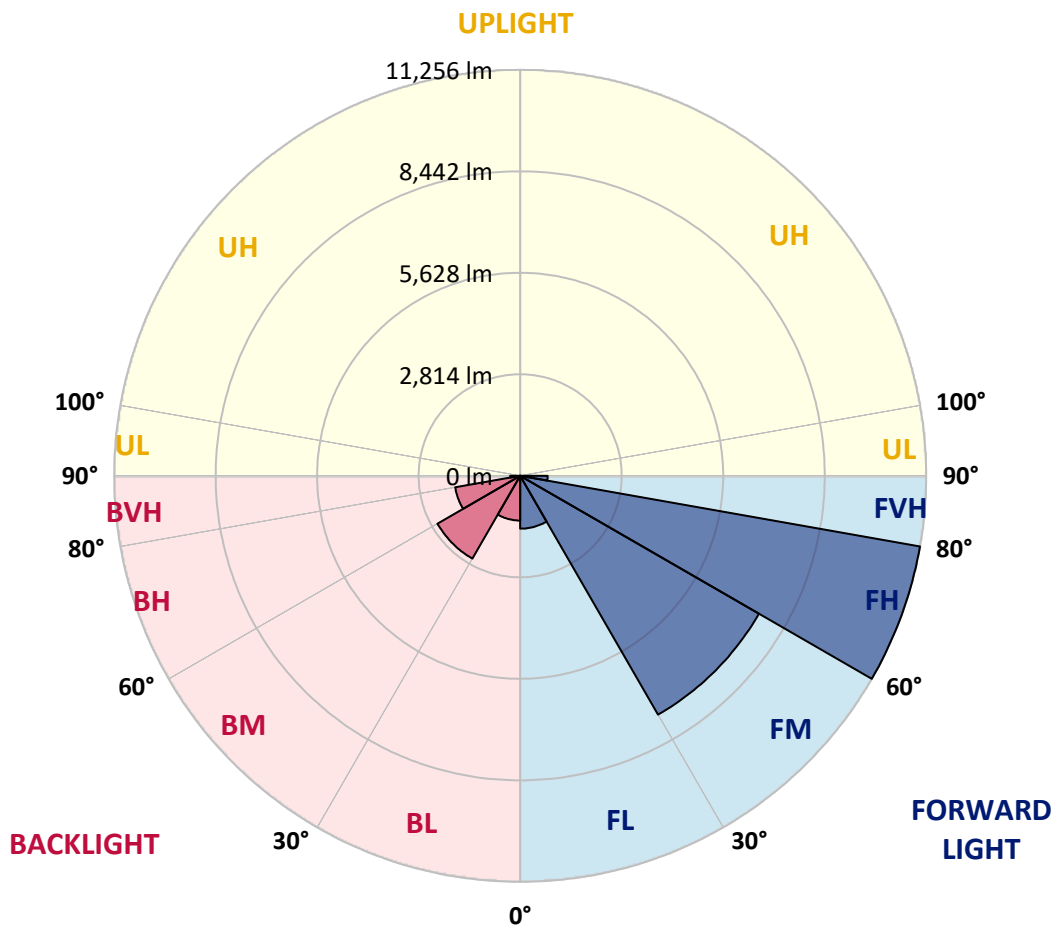


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1466.1	5.4			
FM (30°-60°)	7644.9	28.2			
FH (60°-80°)	11256.3	41.5			G4/12000
FVH (80°-90°)	760.9	2.8			G5
BL (0°-30°)	1240.5	4.6	B3/2500		
BM (30°-60°)	2649.6	9.8	B3/5000		
BH (60°-80°)	1829.7	6.7	B3/2500		G3/2500
BVH (80°-90°)	274.1	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°	2848.4	2848.4	2848.4	2848.4	2848.4	2848.4	2848.4	2848.4	2848.4	2848.4	2848.4
2.5°	3011.5	2997.0	2989.7	2989.7	2960.7	2942.6	2939.0	2913.6	2891.9	2870.1	2852.0
5°	3185.4	3174.6	3152.8	3134.7	3094.8	3044.1	3036.8	2982.5	2928.1	2877.4	2833.9
7.5°	3344.9	3323.1	3297.8	3261.5	3196.3	3127.4	3116.6	3040.5	2964.4	2888.3	2830.3
10°	3479.0	3457.2	3421.0	3370.2	3286.9	3203.5	3192.7	3112.9	3033.2	2942.6	2859.3
12.5°	3605.8	3587.7	3533.3	3464.5	3366.6	3290.5	3279.7	3210.8	3127.4	3026.0	2917.3
15°	3714.5	3696.4	3638.4	3558.7	3446.4	3388.4	3373.9	3308.6	3225.3	3116.6	3004.2
17.5°	3768.9	3768.9	3707.3	3620.3	3515.2	3471.7	3460.8	3381.1	3305.0	3199.9	3087.6
20°	3787.0	3794.2	3750.8	3645.7	3555.1	3536.9	3526.1	3460.8	3373.9	3272.4	3167.3
22.5°	3797.9	3812.4	3776.1	3656.5	3580.4	3569.6	3562.3	3518.8	3450.0	3352.1	3247.0
25°	3834.1	3834.1	3808.7	3674.7	3613.1	3609.4	3609.4	3584.1	3536.9	3453.6	3348.5
27.5°	3888.5	3884.8	3852.2	3714.5	3685.5	3696.4	3692.8	3689.2	3656.5	3573.2	3460.8
30°	3979.1	3979.1	3942.8	3794.2	3776.1	3823.2	3826.9	3834.1	3783.4	3652.9	3562.3
32.5°	4116.8	4102.3	4066.0	3874.0	3845.0	3888.5	3895.7	3892.1	3848.6	3725.4	3681.9
35°	4540.8	4508.2	4377.7	4051.5	3906.6	3932.0	3935.6	3953.7	3960.9	3863.1	3841.4
37.5°	5283.7	5240.2	5040.9	4471.9	4102.3	4040.7	4037.1	4084.2	4124.0	4037.1	4037.1
40°	6091.8	6055.6	5939.6	5196.7	4464.7	4261.7	4247.2	4290.7	4341.5	4279.9	4298.0
42.5°	6787.6	6816.6	6827.5	5965.0	5008.3	4674.9	4635.0	4573.4	4653.1	4598.8	4671.2
45°	7309.5	7295.0	7494.3	6751.4	5711.3	5193.1	5138.7	4972.0	5073.5	5069.9	5229.3
47.5°	7863.9	7838.5	7921.9	7490.6	6512.2	5827.3	5743.9	5497.5	5649.7	5754.8	6019.3
50°	8389.4	8396.6	8425.6	8074.1	7381.9	6599.2	6494.1	6164.3	6381.7	6602.8	6976.1
52.5°	9074.3	9023.6	8987.3	8755.4	8356.8	7403.7	7334.8	6957.9	7262.3	7523.3	8019.7
55°	9672.3	9639.6	9617.9	9607.0	9172.1	8291.5	8219.1	7827.7	8266.2	8451.0	9183.0
57.5°	10310.1	10291.9	10407.9	10592.7	10418.8	9193.9	9117.8	8740.9	9230.1	9360.6	10444.1
60°	10777.5	10788.4	11107.3	11578.4	11458.8	10172.4	10081.8	9748.4	10168.7	10284.7	11705.3
62.5°	10781.2	10889.9	11629.2	12473.5	12611.3	11299.4	11194.3	10831.9	11132.7	11132.7	12835.9
65°	9752.0	9875.2	11534.9	12694.6	13778.2	12640.2	12538.8	11969.8	12082.2	11930.0	13897.7
67.5°	8726.4	8871.4	10433.3	12712.7	14597.2	14075.3	13955.7	13107.7	12915.7	12531.5	14640.6
70°	8045.1	8146.6	9451.2	12477.2	15090.0	15575.6	15485.0	14187.7	13571.6	13035.3	14484.8
72.5°	6773.1	6736.9	7983.5	11357.4	15365.4	17278.9	17202.8	15361.8	14140.5	12796.1	12354.0
75°	3932.0	3975.4	4953.9	8320.5	13850.6	18166.7	18159.5	16365.6	13890.5	11303.0	8512.6
77.5°	1134.3	1166.9	1627.1	3656.5	8759.0	15495.9	15992.4	14966.8	11741.5	8056.0	4413.9
80°	496.5	521.8	706.7	1217.6	3772.5	10121.6	10556.5	10121.6	7081.1	3696.4	1732.2
82.5°	293.5	311.7	460.2	753.8	1808.3	4816.2	5403.3	4718.3	3055.0	1569.2	717.5
85°	166.7	173.9	264.5	478.4	1137.9	1685.1	1891.7	1772.1	1489.4	891.5	376.9
87.5°	76.1	79.7	130.5	224.7	637.8	569.0	590.7	782.8	862.5	543.6	188.4
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°	2848.4	2848.4	2848.4	2848.4	2848.4	2848.4	2848.4	2848.4	2848.4	2848.4	2848.4
2.5°	2844.8	2833.9	2812.2	2804.9	2794.0	2797.7	2801.3	2801.3	2804.9	2794.0	2794.0
5°	2815.8	2797.7	2775.9	2775.9	2775.9	2804.9	2830.3	2844.8	2852.0	2852.0	2844.8
7.5°	2804.9	2783.2	2757.8	2765.1	2772.3	2808.5	2855.7	2902.8	2917.3	2917.3	2910.0
10°	2826.7	2804.9	2786.8	2797.7	2815.8	2844.8	2881.0	2924.5	2960.7	2964.4	2960.7
12.5°	2877.4	2852.0	2833.9	2855.7	2877.4	2895.5	2913.6	2931.8	2978.9	2986.1	2986.1
15°	2960.7	2935.4	2913.6	2931.8	2939.0	2939.0	2939.0	2939.0	2986.1	2993.4	2993.4
17.5°	3044.1	3022.4	3000.6	3004.2	2982.5	2953.5	2942.6	2939.0	2964.4	2986.1	2989.7
20°	3123.8	3105.7	3084.0	3047.7	2993.4	2939.0	2920.9	2920.9	2935.4	2968.0	2968.0
22.5°	3210.8	3189.1	3152.8	3069.5	2978.9	2902.8	2884.6	2895.5	2913.6	2957.1	2953.5
25°	3308.6	3279.7	3218.0	3062.2	2931.8	2841.2	2844.8	2877.4	2910.0	2957.1	2957.1
27.5°	3417.4	3377.5	3254.3	3004.2	2826.7	2739.7	2772.3	2848.4	2895.5	2946.2	2953.5
30°	3536.9	3500.7	3283.3	2902.8	2656.3	2576.6	2656.3	2779.5	2852.0	2899.1	2910.0
32.5°	3681.9	3652.9	3308.6	2772.3	2435.3	2366.4	2482.4	2634.6	2750.6	2804.9	2815.8
35°	3863.1	3834.1	3341.3	2623.7	2228.7	2156.2	2261.3	2417.2	2569.4	2638.2	2660.0
37.5°	4098.7	4055.2	3370.2	2464.3	2054.8	1971.4	2022.1	2163.5	2301.2	2395.4	2420.8
40°	4399.4	4330.6	3395.6	2283.1	1902.6	1808.3	1826.5	1895.3	1975.0	2058.4	2091.0
42.5°	4823.4	4685.7	3399.2	2091.0	1746.7	1659.8	1652.5	1674.3	1674.3	1674.3	1685.1
45°	5414.1	5153.2	3406.5	1909.8	1587.3	1496.7	1474.9	1467.7	1413.3	1308.2	1301.0
47.5°	6160.7	5765.7	3439.1	1757.6	1420.6	1340.9	1311.9	1282.9	1181.4	1072.7	1050.9
50°	7117.4	6476.0	3504.3	1612.6	1279.2	1224.9	1188.6	1119.8	1007.5	924.1	902.4
52.5°	8219.1	7320.3	3565.9	1460.4	1174.2	1137.9	1094.4	1011.1	891.5	840.8	833.5
55°	9483.8	8262.5	3689.2	1326.4	1083.6	1058.2	1018.3	938.6	848.0	811.8	808.1
57.5°	10777.5	9317.1	3863.1	1206.8	996.6	982.1	982.1	913.2	855.2	840.8	840.8
60°	12024.2	10223.1	3729.0	1094.4	916.9	924.1	993.0	974.8	931.3	949.5	960.3
62.5°	12991.8	10755.8	3026.0	1003.8	858.9	924.1	1101.7	1101.7	1050.9	1043.7	1043.7
65°	13404.9	10748.6	2127.2	935.0	837.1	1014.7	1228.5	1170.5	1036.4	985.7	974.8
67.5°	13299.8	10277.4	1467.7	887.9	829.9	1108.9	1286.5	1123.4	971.2	927.7	895.1
70°	12375.7	9280.9	1130.7	844.4	819.0	1069.1	1268.4	1069.1	920.5	880.6	851.6
72.5°	9983.9	7443.5	938.6	800.9	775.5	989.3	1206.8	1018.3	880.6	837.1	808.1
75°	6367.2	4682.1	793.6	742.9	692.2	887.9	1123.4	967.6	837.1	779.1	757.4
77.5°	3062.2	2018.5	692.2	674.0	623.3	822.6	1040.1	902.4	779.1	732.0	717.5
80°	1239.4	924.1	601.6	605.2	572.6	782.8	982.1	840.8	721.2	670.4	645.1
82.5°	645.1	536.3	507.3	521.8	521.8	746.5	938.6	790.0	670.4	648.7	565.3
85°	347.9	333.4	391.4	420.4	453.0	674.0	873.4	735.7	612.4	525.5	507.3
87.5°	170.3	217.4	221.1	253.7	315.3	540.0	735.7	616.1	511.0	424.0	416.8
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)