

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: P399996

Luminaire Tested: **ARCH-L-PA3-220-730-U-T2U**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P399996
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-PA3-220-730-U-T2U
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 3000K, 945mA LIGHT ENGINES WITH 24 LEDS AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28103 lumens
Efficiency: N/A
Efficacy: 126.6 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

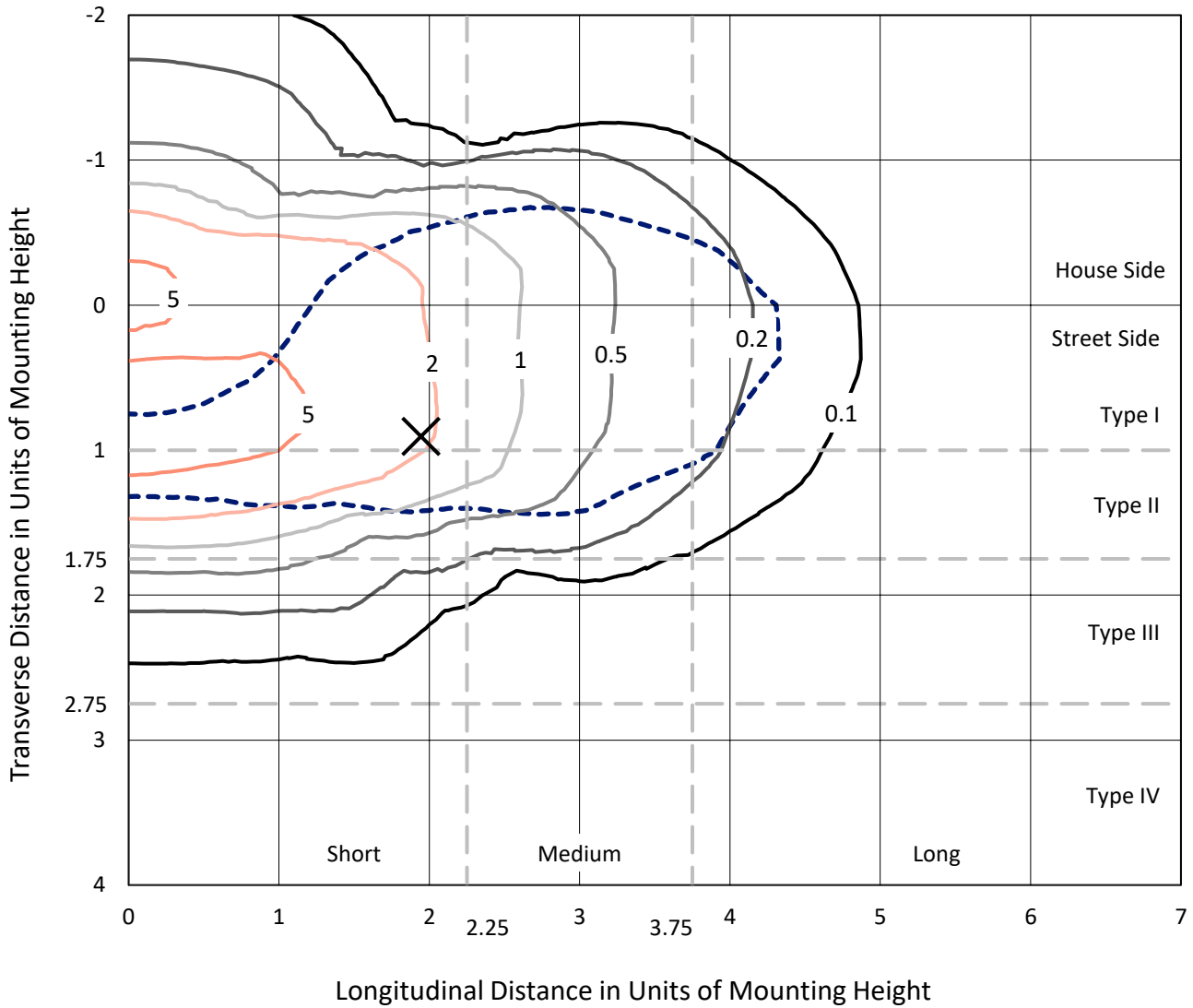
Input Watts (W): 222
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

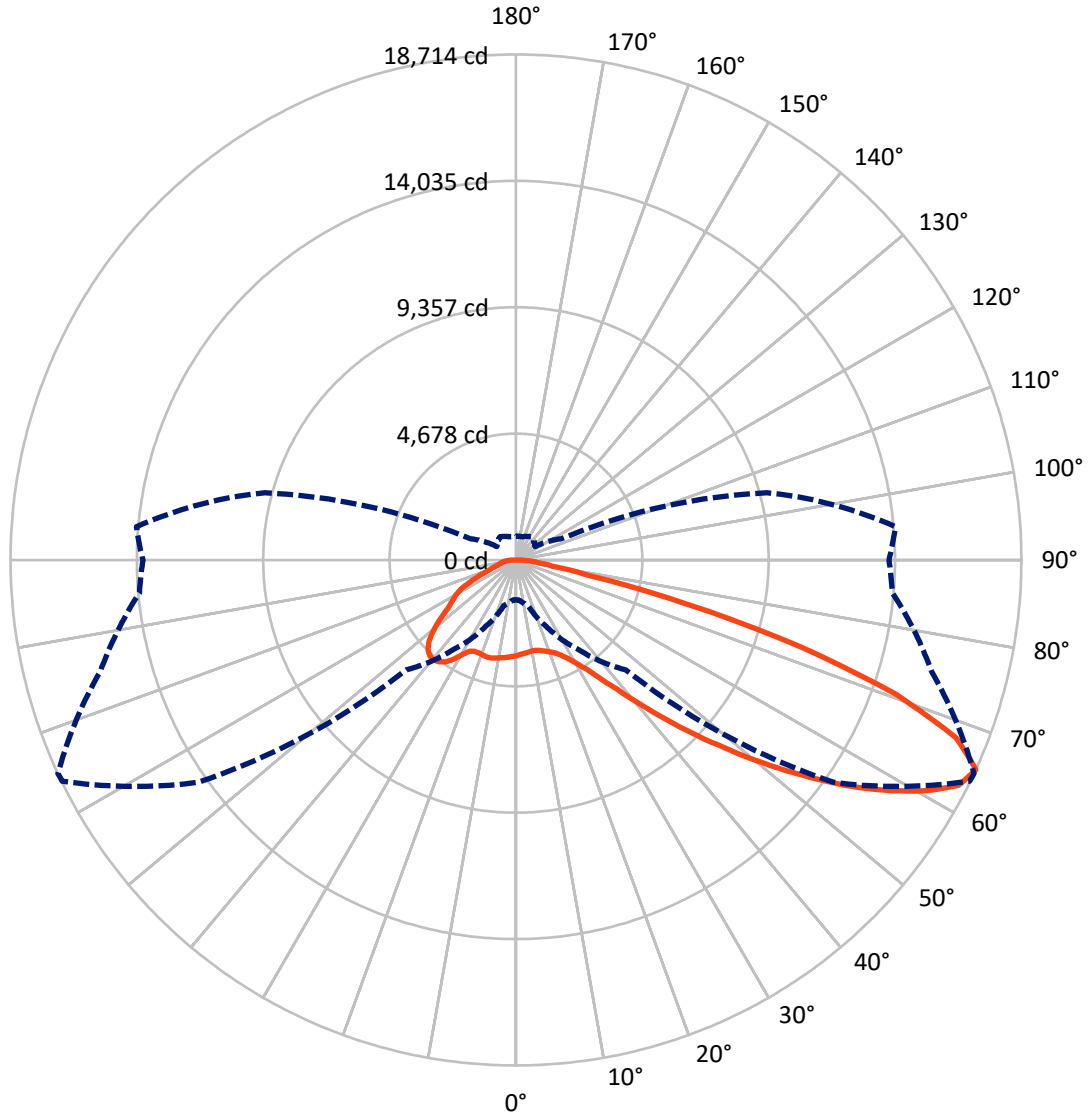
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.7 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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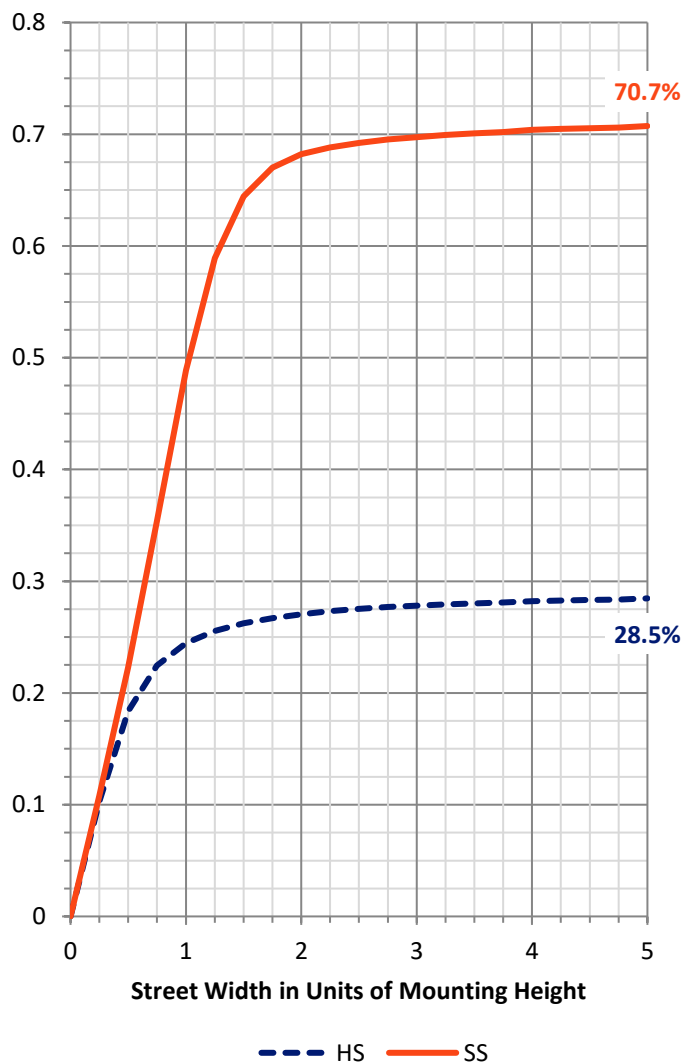
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8125.0	0.0	8125.0
	% Fixture	28.9	0.0	28.9
Street Side	Lumens	19978.0	0.0	19978.0
	% Fixture	71.1	0.0	71.1
Total	Lumens	28103.0	0.0	28103.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	338.3	1.2
10°-20°	1010.1	3.6
20°-30°	1794.2	6.4
30°-40°	3035.3	10.8
40°-50°	5283.9	18.8
50°-60°	6828.5	24.3
60°-70°	5975.3	21.3
70°-80°	3250.1	11.6
80°-90°	587.2	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°	28103.0	100.0
0°-180°	28103.0	100.0

Coefficient of Utilization



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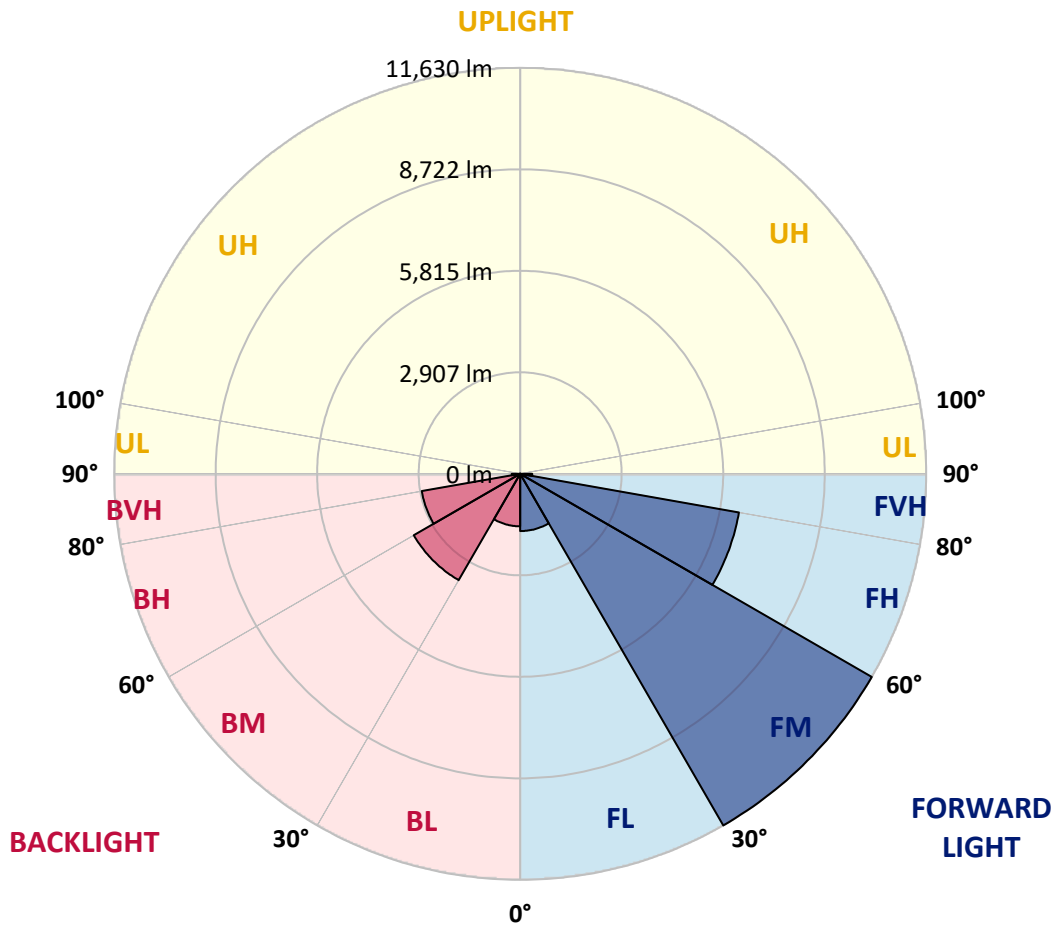
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1639.7	5.8			
FM (30°-60°)	11629.8	41.4			
FH (60°-80°)	6362.9	22.6			G3/7500
FVH (80°-90°)	345.6	1.2			G3/500
BL (0°-30°)	1502.8	5.3	B3/2500		
BM (30°-60°)	3517.9	12.5	B3/5000		
BH (60°-80°)	2862.5	10.2	B4/5000		G4/5000
BVH (80°-90°)	241.7	0.9			G3/500
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°	3551.1	3551.1	3551.1	3551.1	3551.1	3551.1	3551.1	3551.1	3551.1	3551.1	3551.1
2.5°	3488.2	3484.5	3477.1	3484.5	3488.2	3495.6	3491.9	3499.3	3495.6	3506.7	3525.2
5°	3399.4	3392.0	3388.3	3406.8	3417.9	3436.4	3443.8	3469.7	3466.0	3484.5	3514.1
7.5°	3299.5	3299.5	3295.9	3318.0	3332.8	3366.1	3392.0	3436.4	3440.1	3473.4	3506.7
10°	3221.9	3225.6	3221.9	3240.4	3262.6	3303.2	3347.6	3410.5	3414.2	3462.3	3495.6
12.5°	3192.3	3192.3	3192.3	3218.2	3247.8	3303.2	3355.0	3421.6	3429.0	3480.8	3510.4
15°	3233.0	3236.7	3229.3	3255.2	3288.5	3355.0	3403.1	3473.4	3480.8	3528.9	3547.4
17.5°	3377.2	3392.0	3373.5	3388.3	3380.9	3432.7	3477.1	3547.4	3551.1	3591.8	3599.2
20°	3662.1	3676.9	3647.3	3628.8	3562.2	3558.5	3577.0	3632.5	3632.5	3658.4	3639.9
22.5°	4102.2	4117.0	4065.3	3995.0	3835.9	3758.2	3717.5	3743.4	3739.7	3750.8	3702.7
25°	4686.7	4683.0	4620.1	4490.6	4235.4	4046.8	3946.9	3906.2	3906.2	3884.0	3824.8
27.5°	5411.7	5356.2	5245.2	5089.9	4734.8	4472.1	4257.6	4154.0	4135.5	4069.0	3958.0
30°	6184.8	6144.1	5985.1	5759.4	5348.8	5012.2	4657.1	4450.0	4438.9	4294.6	4128.1
32.5°	7094.8	7028.2	6850.6	6580.6	6088.6	5615.2	5171.3	4856.8	4838.4	4609.0	4379.7
35°	8263.7	8208.2	7864.2	7594.1	6961.6	6340.2	5814.9	5396.9	5382.1	5101.0	4808.8
37.5°	9665.6	9521.3	9188.4	8681.7	8015.8	7279.7	6613.9	6088.6	6070.1	5759.4	5389.5
40°	10915.9	10786.4	10490.5	10024.4	9310.5	8493.0	7590.4	6954.2	6935.7	6558.4	6092.3
42.5°	11840.6	11751.9	11559.5	11289.5	10779.0	10283.3	8837.0	8001.0	7967.7	7479.5	6898.7
45°	12377.0	12306.7	12195.8	12262.3	12254.9	12162.5	10324.0	9247.6	9140.3	8507.8	7797.6
47.5°	12247.5	12184.7	12229.0	12746.9	13460.8	13997.2	12055.2	10523.8	10379.5	9554.6	8755.6
50°	11311.7	11337.6	11570.6	12562.0	14163.6	15354.7	13975.0	11977.5	11785.2	10608.9	9665.6
52.5°	9606.4	9669.3	10235.3	11622.4	14086.0	16235.1	15709.9	13479.3	13224.1	11637.2	10494.2
55°	7631.1	7790.2	8522.6	9980.0	13072.4	16298.0	17019.3	14988.5	14707.4	12602.7	11215.5
57.5°	5644.7	5881.5	6728.6	8067.6	11130.4	15303.0	17674.0	16431.2	16090.9	13560.7	11977.5
60°	3580.7	3724.9	4701.5	6281.0	8518.9	12869.0	17589.0	17659.2	17363.3	14515.1	12772.8
62.5°	2286.0	2356.3	2848.3	4479.5	5955.5	9528.7	16660.5	18587.7	18388.0	15384.3	13527.4
65°	1468.5	1498.1	1749.6	2755.8	4054.2	5752.0	14348.6	18687.6	18713.5	15928.1	13993.5
67.5°	1194.8	1209.6	1302.1	1701.6	2866.8	3177.5	9994.8	17267.1	17581.6	15787.5	13834.4
70°	1087.5	1106.0	1202.2	1357.6	2219.4	2193.5	4838.4	14448.5	14962.6	14977.4	13127.9
72.5°	917.4	943.3	1072.7	1283.6	1716.4	1731.2	2049.3	10290.7	11049.1	13386.8	12066.3
75°	765.7	780.5	891.5	1131.9	1453.7	1383.4	1438.9	5456.1	6551.0	10734.6	10938.1
77.5°	621.4	636.2	717.6	902.6	1291.0	1076.4	1131.9	2260.1	2792.8	7287.1	8940.6
80°	443.9	458.7	551.2	702.8	976.5	969.2	839.7	1246.6	1353.9	3939.5	5807.5
82.5°	318.1	329.2	418.0	503.1	676.9	972.8	632.5	847.1	887.8	1746.0	2341.5
85°	214.5	214.5	288.5	332.9	436.5	614.0	510.5	573.4	599.2	828.6	632.5
87.5°	92.5	92.5	155.4	170.2	229.3	284.8	381.0	288.5	295.9	447.6	258.9
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°	3551.1	3551.1	3551.1	3551.1	3551.1	3551.1	3551.1	3551.1	3551.1	3551.1	3551.1
2.5°	3536.3	3540.0	3547.4	3569.6	3584.4	3606.6	3617.7	3632.5	3632.5	3625.1	3628.8
5°	3528.9	3540.0	3565.9	3606.6	3632.5	3673.2	3702.7	3724.9	3732.3	3724.9	3728.6
7.5°	3525.2	3543.7	3588.1	3647.3	3684.3	3736.0	3776.7	3802.6	3821.1	3813.7	3817.4
10°	3514.1	3543.7	3599.2	3673.2	3728.6	3780.4	3817.4	3828.5	3839.6	3832.2	3828.5
12.5°	3528.9	3562.2	3621.4	3710.1	3773.0	3813.7	3824.8	3806.3	3780.4	3765.6	3761.9
15°	3558.5	3591.8	3651.0	3743.4	3798.9	3813.7	3787.8	3728.6	3669.5	3636.2	3632.5
17.5°	3599.2	3621.4	3669.5	3750.8	3795.2	3776.7	3724.9	3654.7	3610.3	3584.4	3588.1
20°	3625.1	3625.1	3662.1	3724.9	3761.9	3747.1	3684.3	3606.6	3536.3	3503.0	3491.9
22.5°	3662.1	3643.6	3647.3	3702.7	3754.5	3732.3	3599.2	3462.3	3362.4	3325.4	3321.7
25°	3761.9	3710.1	3676.9	3710.1	3832.2	3651.0	3384.6	3225.6	3133.1	3099.8	3103.5
27.5°	3884.0	3813.7	3743.4	3798.9	3895.1	3466.0	3110.9	2929.6	2874.2	2848.3	2859.4
30°	4006.1	3913.6	3821.1	4020.9	3850.7	3177.5	2759.5	2581.9	2533.8	2515.4	2530.1
32.5°	4231.7	4080.0	3969.1	4316.8	3713.8	2848.3	2378.5	2215.7	2171.3	2149.1	2141.7
35°	4609.0	4416.7	4305.7	4575.7	3521.5	2482.1	2030.8	1916.1	1868.0	1819.9	1812.5
37.5°	5152.8	4919.7	4819.9	4723.7	3251.5	2119.6	1764.4	1686.8	1616.5	1542.5	1538.8
40°	5803.8	5500.5	5426.5	4790.3	2877.9	1779.2	1579.5	1505.5	1416.7	1346.5	1350.2
42.5°	6554.7	6166.3	6007.3	4771.8	2415.5	1598.0	1446.3	1364.9	1287.3	1224.4	1220.7
45°	7357.4	6917.2	6551.0	4642.3	1956.8	1472.2	1364.9	1268.8	1191.1	1120.8	1113.4
47.5°	8245.2	7753.2	7054.1	4390.8	1616.5	1383.4	1316.9	1180.0	1109.7	1065.3	1065.3
50°	9140.3	8552.2	7516.5	4009.8	1416.7	1316.9	1246.6	1131.9	1076.4	1039.4	1039.4
52.5°	9906.0	9384.5	7897.5	3554.8	1291.0	1261.4	1198.5	1109.7	1050.5	1017.2	1013.5
55°	10649.6	10157.6	8237.8	3103.5	1187.4	1187.4	1187.4	1091.2	1024.6	995.0	991.3
57.5°	11389.4	10971.4	8592.9	2807.6	1094.9	1124.5	1165.2	1069.0	1002.4	976.5	972.8
60°	12225.3	11947.9	9003.5	2600.4	1013.5	1057.9	1135.6	1043.1	965.5	943.3	939.6
62.5°	13113.1	13113.1	9377.1	2308.2	939.6	1002.4	1091.2	1009.8	932.2	913.7	910.0
65°	13808.5	14108.2	9617.5	1871.7	865.6	947.0	1039.4	965.5	887.8	884.1	876.7
67.5°	13889.9	14359.7	9465.9	1413.0	799.0	887.8	987.6	917.4	843.4	843.4	832.3
70°	13305.5	13782.6	8992.4	1057.9	750.9	828.6	921.1	858.2	787.9	795.3	776.8
72.5°	12328.9	12447.3	7816.1	836.0	695.4	765.7	839.7	791.6	728.7	728.7	702.8
75°	11041.7	10383.2	5678.0	699.1	628.8	691.7	758.3	717.6	662.1	643.6	628.8
77.5°	8788.9	7523.9	3299.5	602.9	573.4	621.4	665.8	636.2	588.1	547.5	547.5
80°	5356.2	4409.3	1457.4	521.6	506.8	543.8	573.4	540.1	499.4	458.7	447.6
82.5°	2038.2	1701.6	706.5	447.6	443.9	466.1	488.3	455.0	425.4	406.9	351.4
85°	558.6	514.2	484.6	373.6	366.2	362.5	388.4	373.6	332.9	273.7	244.1
87.5°	210.8	240.4	262.6	229.3	244.1	225.6	258.9	236.7	210.8	136.9	122.1
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)