

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: P399807

Luminaire Tested: **ARCH-L-PA3-190-760-U-T2U**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P399807
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-PA3-190-760-U-T2U
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 5700K, 810mA LIGHT ENGINES WITH 24 LEDS AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27591 lumens
Efficiency: N/A
Efficacy: 146.0 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

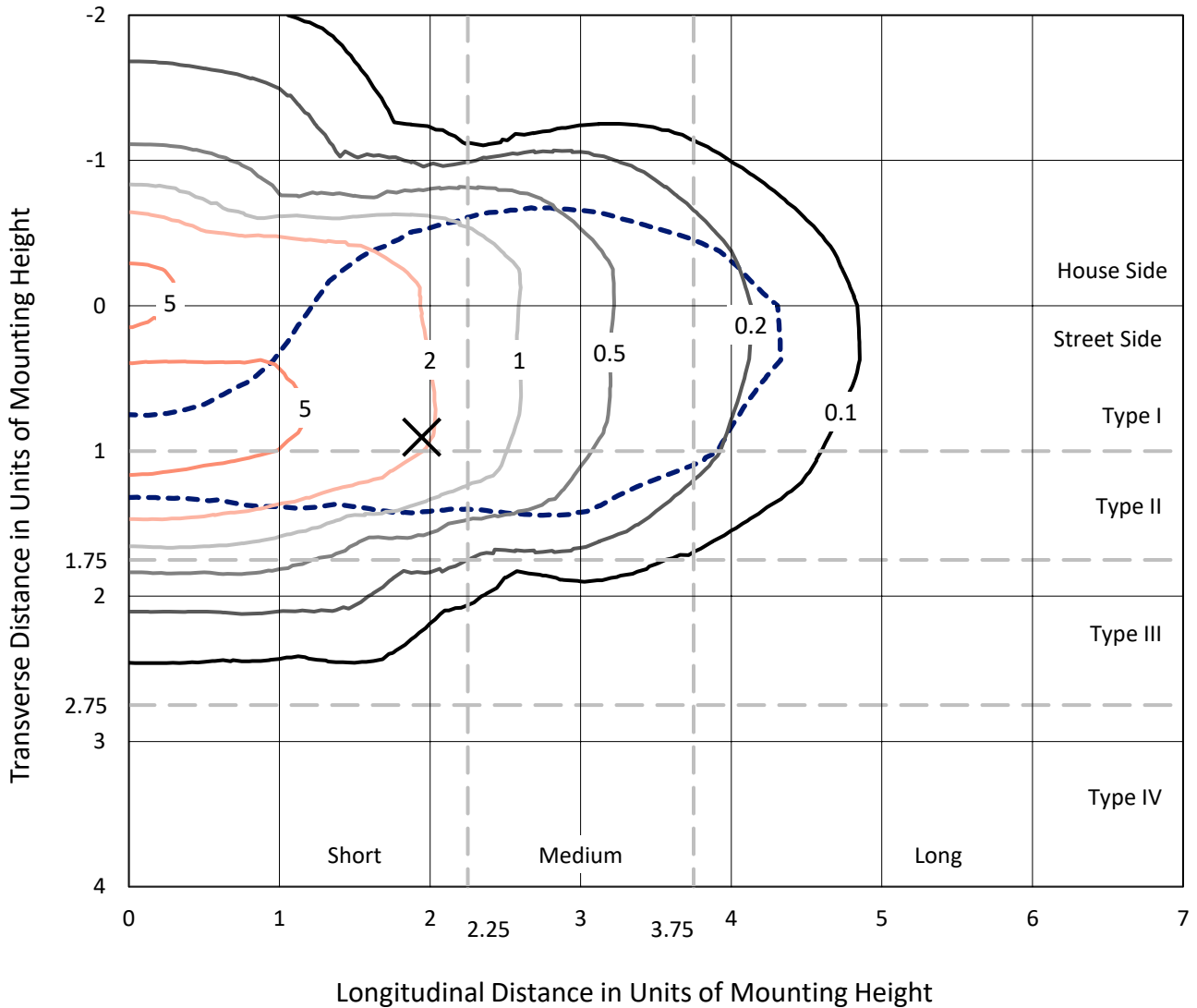
Input Watts (W): 189
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

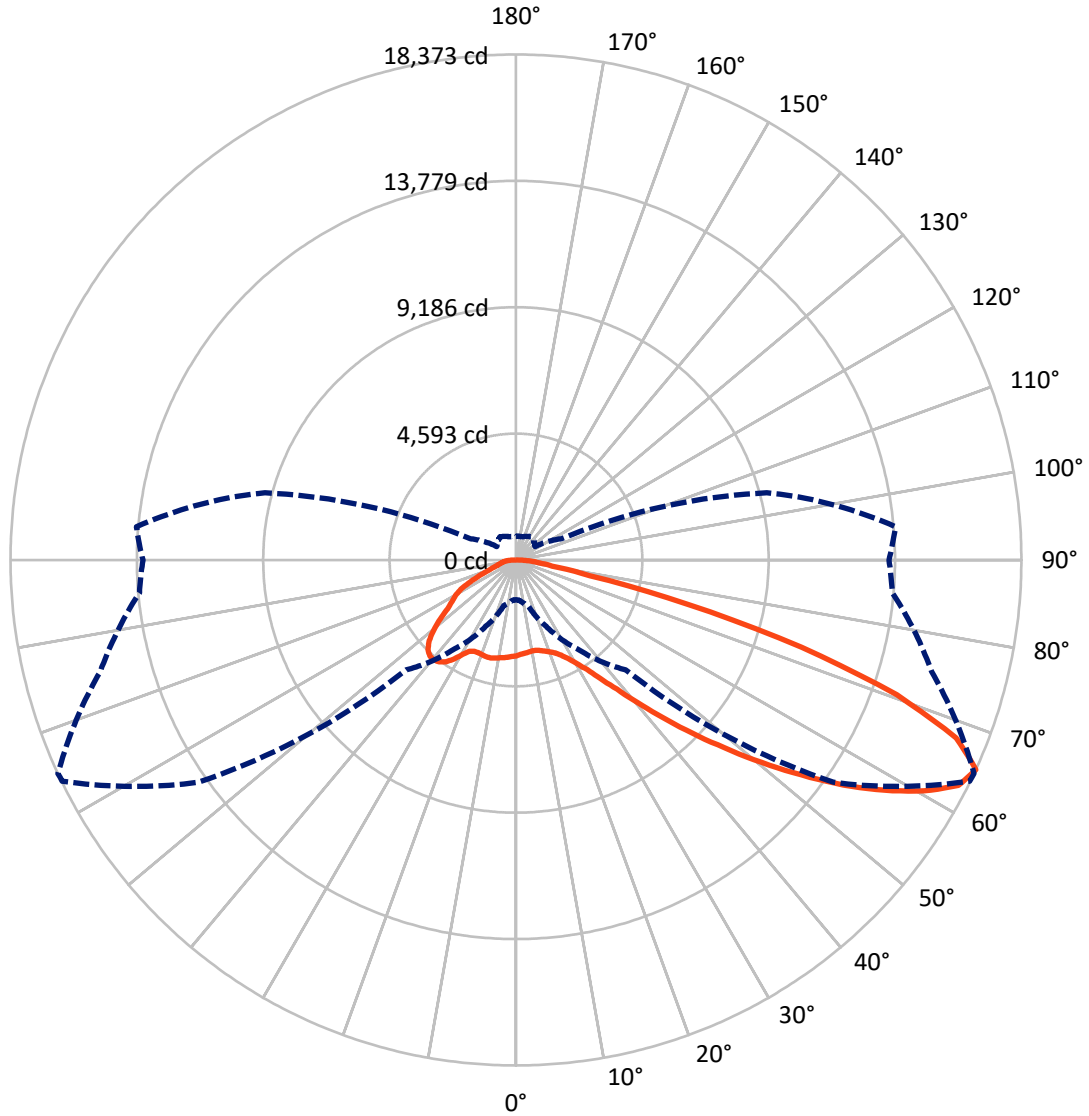
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.6 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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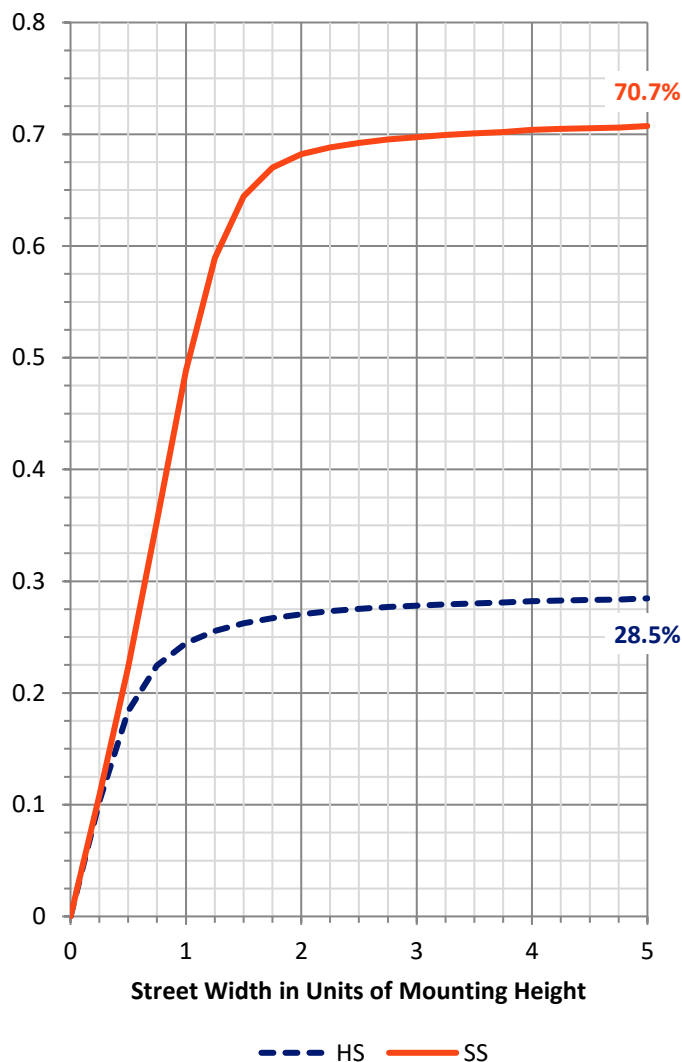
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7977.0	0.0	7977.0
	% Fixture	28.9	0.0	28.9
Street Side	Lumens	19614.0	0.0	19614.0
	% Fixture	71.1	0.0	71.1
Total	Lumens	27591.0	0.0	27591.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	332.1	1.2
10°-20°	991.7	3.6
20°-30°	1761.5	6.4
30°-40°	2980.0	10.8
40°-50°	5187.7	18.8
50°-60°	6704.1	24.3
60°-70°	5866.5	21.3
70°-80°	3190.9	11.6
80°-90°	576.5	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°	27591.0	100.0
0°-180°	27591.0	100.0

Coefficient of Utilization



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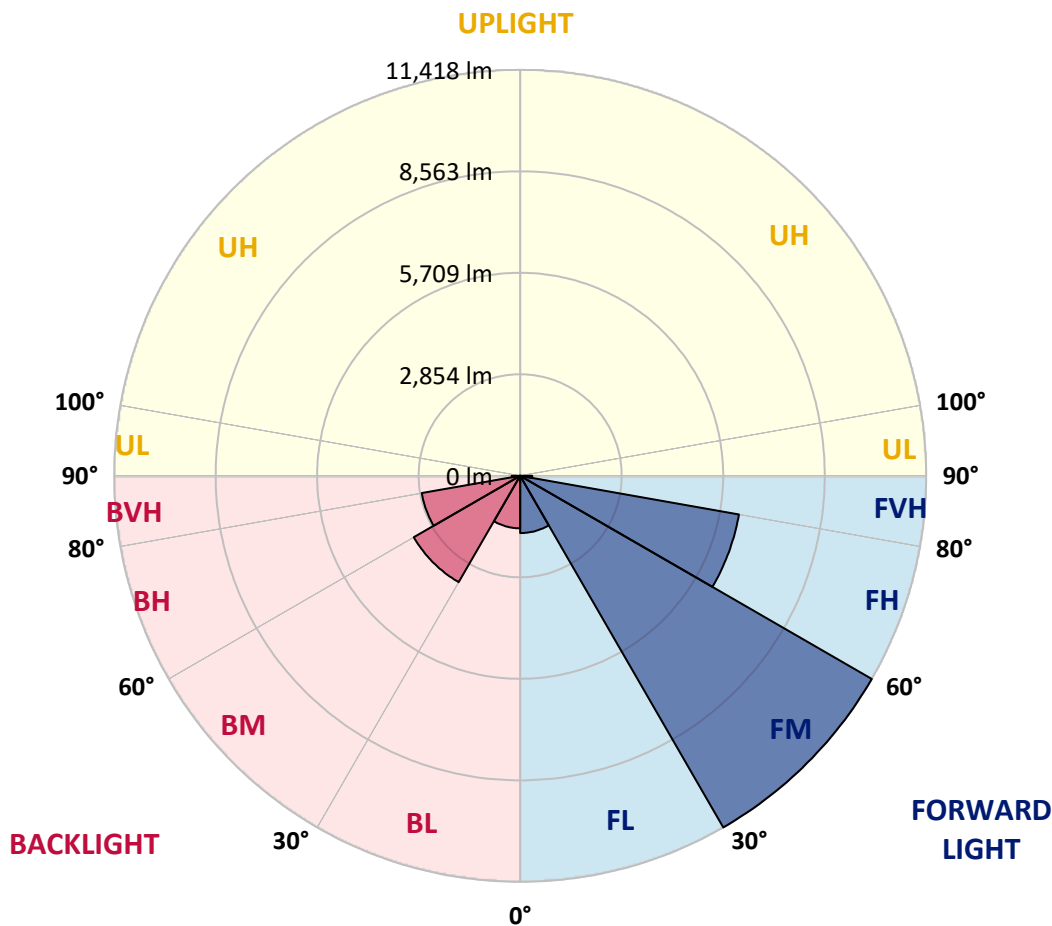
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1609.9	5.8			
FM (30°-60°)	11417.9	41.4			
FH (60°-80°)	6247.0	22.6			G3/7500
FVH (80°-90°)	339.3	1.2			G3/500
BL (0°-30°)	1475.5	5.3	B3/2500		
BM (30°-60°)	3453.8	12.5	B3/5000		
BH (60°-80°)	2810.4	10.2	B4/5000		G4/5000
BVH (80°-90°)	237.3	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°	3486.4	3486.4	3486.4	3486.4	3486.4	3486.4	3486.4	3486.4	3486.4	3486.4	3486.4
2.5°	3424.7	3421.0	3413.8	3421.0	3424.7	3431.9	3428.3	3435.5	3431.9	3442.8	3461.0
5°	3337.5	3330.2	3326.6	3344.8	3355.6	3373.8	3381.1	3406.5	3402.9	3421.0	3450.1
7.5°	3239.4	3239.4	3235.8	3257.6	3272.1	3304.8	3330.2	3373.8	3377.4	3410.1	3442.8
10°	3163.2	3166.8	3163.2	3181.3	3203.1	3243.1	3286.6	3348.4	3352.0	3399.2	3431.9
12.5°	3134.1	3134.1	3134.1	3159.5	3188.6	3243.1	3293.9	3359.3	3366.5	3417.4	3446.4
15°	3174.1	3177.7	3170.4	3195.9	3228.5	3293.9	3341.1	3410.1	3417.4	3464.6	3482.8
17.5°	3315.7	3330.2	3312.1	3326.6	3319.3	3370.2	3413.8	3482.8	3486.4	3526.3	3533.6
20°	3595.3	3609.9	3580.8	3562.7	3497.3	3493.7	3511.8	3566.3	3566.3	3591.7	3573.5
22.5°	4027.5	4042.0	3991.2	3922.2	3766.0	3689.8	3649.8	3675.2	3671.6	3682.5	3635.3
25°	4601.3	4597.7	4535.9	4408.8	4158.2	3973.0	3875.0	3835.0	3835.0	3813.2	3755.1
27.5°	5313.1	5258.6	5149.7	4997.2	4648.5	4390.7	4180.0	4078.3	4060.2	3994.8	3885.9
30°	6072.1	6032.2	5876.0	5654.5	5251.4	4920.9	4572.3	4368.9	4358.0	4216.4	4052.9
32.5°	6965.5	6900.1	6725.8	6460.7	5977.7	5512.9	5077.1	4768.4	4750.2	4525.0	4299.9
35°	8113.1	8058.6	7720.9	7455.8	6834.8	6224.7	5709.0	5298.6	5284.1	5008.1	4721.2
37.5°	9489.5	9347.9	9021.0	8523.5	7869.8	7147.1	6493.4	5977.7	5959.5	5654.5	5291.3
40°	10717.0	10589.9	10299.4	9841.8	9140.9	8338.3	7452.2	6827.5	6809.4	6438.9	5981.3
42.5°	11624.9	11537.8	11348.9	11083.8	10582.6	10096.0	8676.0	7855.3	7822.6	7343.2	6773.0
45°	12151.5	12082.5	11973.6	12038.9	12031.7	11940.9	10135.9	9079.1	8973.8	8352.8	7655.5
47.5°	12024.4	11962.7	12006.3	12514.7	13215.6	13742.2	11835.6	10332.1	10190.4	9380.6	8596.1
50°	11105.6	11131.0	11359.8	12333.1	13905.6	15075.0	13720.4	11759.3	11570.5	10415.6	9489.5
52.5°	9431.4	9493.1	10048.8	11410.7	13829.3	15939.3	15423.6	13233.8	12983.2	11425.2	10303.0
55°	7492.1	7648.3	8367.3	9798.2	12834.3	16001.1	16709.2	14715.5	14439.5	12373.0	11011.2
57.5°	5541.9	5774.3	6606.0	7920.6	10927.6	15024.2	17352.0	16131.8	15797.7	13313.6	11759.3
60°	3515.4	3657.1	4615.8	6166.5	8363.7	12634.5	17268.5	17337.5	17047.0	14250.6	12540.1
62.5°	2244.4	2313.4	2796.4	4397.9	5847.0	9355.1	16357.0	18249.1	18053.0	15104.1	13281.0
65°	1441.8	1470.8	1717.8	2705.6	3980.3	5647.2	14087.2	18347.1	18372.5	15637.9	13738.6
67.5°	1173.0	1187.6	1278.3	1670.6	2814.5	3119.6	9812.7	16952.6	17261.3	15499.9	13582.4
70°	1067.7	1085.9	1180.3	1332.8	2179.0	2153.6	4750.2	14185.2	14690.0	14704.6	12888.7
72.5°	900.7	926.1	1053.2	1260.2	1685.1	1699.6	2011.9	10103.3	10847.8	13143.0	11846.5
75°	751.8	766.3	875.2	1111.3	1427.2	1358.2	1412.7	5356.7	6431.7	10539.1	10738.8
77.5°	610.1	624.6	704.5	886.1	1267.4	1056.8	1111.3	2218.9	2741.9	7154.4	8777.7
80°	435.8	450.3	541.1	690.0	958.8	951.5	824.4	1223.9	1329.2	3867.7	5701.7
82.5°	312.3	323.2	410.4	493.9	664.6	955.1	621.0	831.6	871.6	1714.1	2298.8
85°	210.6	210.6	283.3	326.8	428.5	602.9	501.2	562.9	588.3	813.5	621.0
87.5°	90.8	90.8	152.5	167.1	225.2	279.6	374.1	283.3	290.5	439.4	254.2
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°	3486.4	3486.4	3486.4	3486.4	3486.4	3486.4	3486.4	3486.4	3486.4	3486.4	3486.4
2.5°	3471.9	3475.5	3482.8	3504.5	3519.1	3540.9	3551.8	3566.3	3566.3	3559.0	3562.7
5°	3464.6	3475.5	3500.9	3540.9	3566.3	3606.2	3635.3	3657.1	3664.3	3657.1	3660.7
7.5°	3461.0	3479.1	3522.7	3580.8	3617.1	3668.0	3707.9	3733.3	3751.5	3744.2	3747.9
10°	3450.1	3479.1	3533.6	3606.2	3660.7	3711.6	3747.9	3758.8	3769.7	3762.4	3758.8
12.5°	3464.6	3497.3	3555.4	3642.5	3704.3	3744.2	3755.1	3737.0	3711.6	3697.0	3693.4
15°	3493.7	3526.3	3584.4	3675.2	3729.7	3744.2	3718.8	3660.7	3602.6	3569.9	3566.3
17.5°	3533.6	3555.4	3602.6	3682.5	3726.1	3707.9	3657.1	3588.1	3544.5	3519.1	3522.7
20°	3559.0	3559.0	3595.3	3657.1	3693.4	3678.9	3617.1	3540.9	3471.9	3439.2	3428.3
22.5°	3595.3	3577.2	3580.8	3635.3	3686.1	3664.3	3533.6	3399.2	3301.2	3264.9	3261.2
25°	3693.4	3642.5	3609.9	3642.5	3762.4	3584.4	3323.0	3166.8	3076.0	3043.3	3047.0
27.5°	3813.2	3744.2	3675.2	3729.7	3824.1	3402.9	3054.2	2876.3	2821.8	2796.4	2807.3
30°	3933.1	3842.3	3751.5	3947.6	3780.6	3119.6	2709.2	2534.9	2487.7	2469.5	2484.1
32.5°	4154.6	4005.7	3896.8	4238.1	3646.2	2796.4	2335.2	2175.4	2131.8	2110.0	2102.7
35°	4525.0	4336.2	4227.2	4492.4	3457.3	2436.8	1993.8	1881.2	1834.0	1786.8	1779.5
37.5°	5058.9	4830.1	4732.0	4637.6	3192.2	2080.9	1732.3	1656.0	1587.0	1514.4	1510.8
40°	5698.1	5400.3	5327.6	4703.0	2825.4	1746.8	1550.7	1478.1	1390.9	1321.9	1325.6
42.5°	6435.3	6054.0	5897.8	4684.8	2371.5	1568.9	1420.0	1340.1	1263.8	1202.1	1198.4
45°	7223.4	6791.2	6431.7	4557.7	1921.1	1445.4	1340.1	1245.7	1169.4	1100.4	1093.1
47.5°	8095.0	7611.9	6925.6	4310.8	1587.0	1358.2	1292.9	1158.5	1089.5	1045.9	1045.9
50°	8973.8	8396.4	7379.5	3936.7	1390.9	1292.9	1223.9	1111.3	1056.8	1020.5	1020.5
52.5°	9725.6	9213.5	7753.6	3490.0	1267.4	1238.4	1176.7	1089.5	1031.4	998.7	995.1
55°	10455.5	9972.5	8087.7	3047.0	1165.8	1165.8	1165.8	1071.3	1006.0	976.9	973.3
57.5°	11181.9	10771.5	8436.3	2756.4	1075.0	1104.0	1144.0	1049.5	984.2	958.8	955.1
60°	12002.6	11730.2	8839.4	2553.1	995.1	1038.7	1114.9	1024.1	947.9	926.1	922.4
62.5°	12874.2	12874.2	9206.2	2266.2	922.4	984.2	1071.3	991.4	915.2	897.0	893.4
65°	13557.0	13851.1	9442.3	1837.6	849.8	929.7	1020.5	947.9	871.6	868.0	860.7
67.5°	13636.9	14098.1	9293.4	1387.3	784.4	871.6	969.7	900.7	828.0	828.0	817.1
70°	13063.1	13531.5	8828.6	1038.7	737.2	813.5	904.3	842.5	773.5	780.8	762.6
72.5°	12104.3	12220.5	7673.7	820.8	682.8	751.8	824.4	777.2	715.4	715.4	690.0
75°	10840.5	10194.1	5574.6	686.4	617.4	679.1	744.5	704.5	650.1	631.9	617.4
77.5°	8628.8	7386.8	3239.4	592.0	562.9	610.1	653.7	624.6	577.4	537.5	537.5
80°	5258.6	4328.9	1430.9	512.1	497.5	533.9	562.9	530.2	490.3	450.3	439.4
82.5°	2001.0	1670.6	693.6	439.4	435.8	457.6	479.4	446.7	417.6	399.5	345.0
85°	548.4	504.8	475.7	366.8	359.5	355.9	381.3	366.8	326.8	268.7	239.7
87.5°	207.0	236.1	257.8	225.2	239.7	221.5	254.2	232.4	207.0	134.4	119.8
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)