

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: P399789

Luminaire Tested: **ARCH-L-PA3-190-740-U-T2U**

Issue Date: 5/19/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P399789  
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-PA3-190-740-U-T2U  
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE  
(3) 70 CRI, 4000K, 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: 27592 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

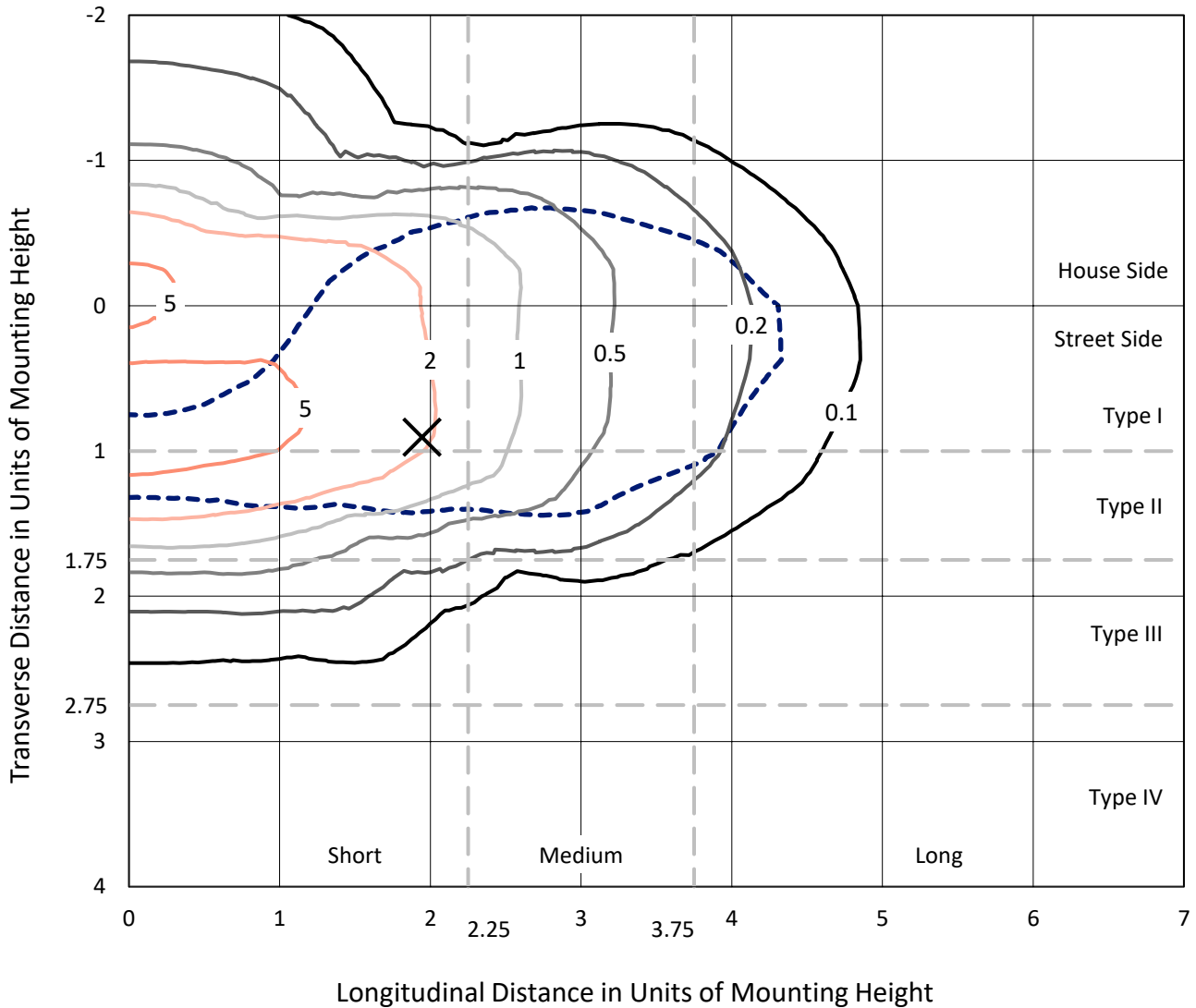
Input Watts (W): 189  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

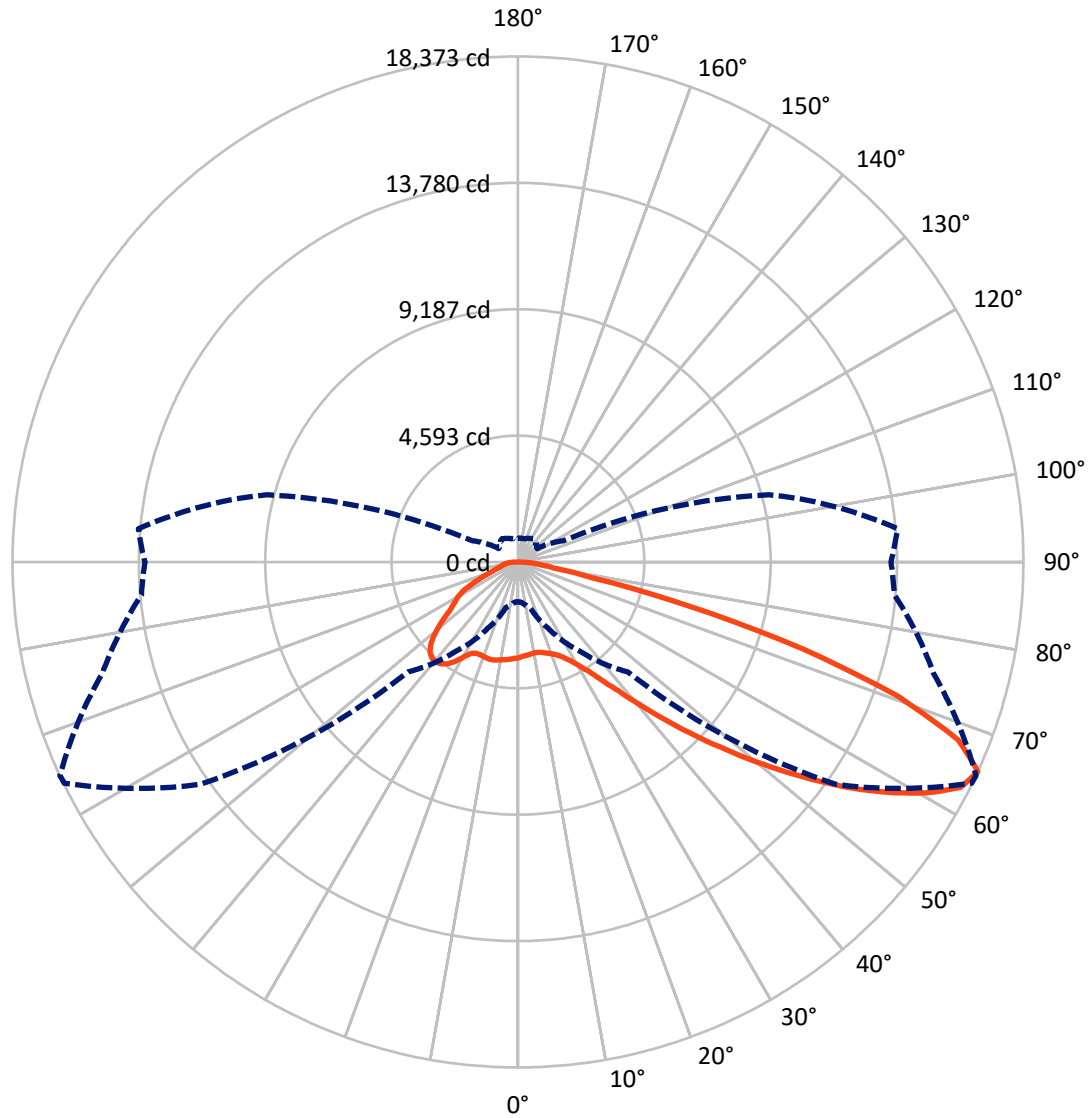
✕ Max cd  
 - - - 1/2 Max cd



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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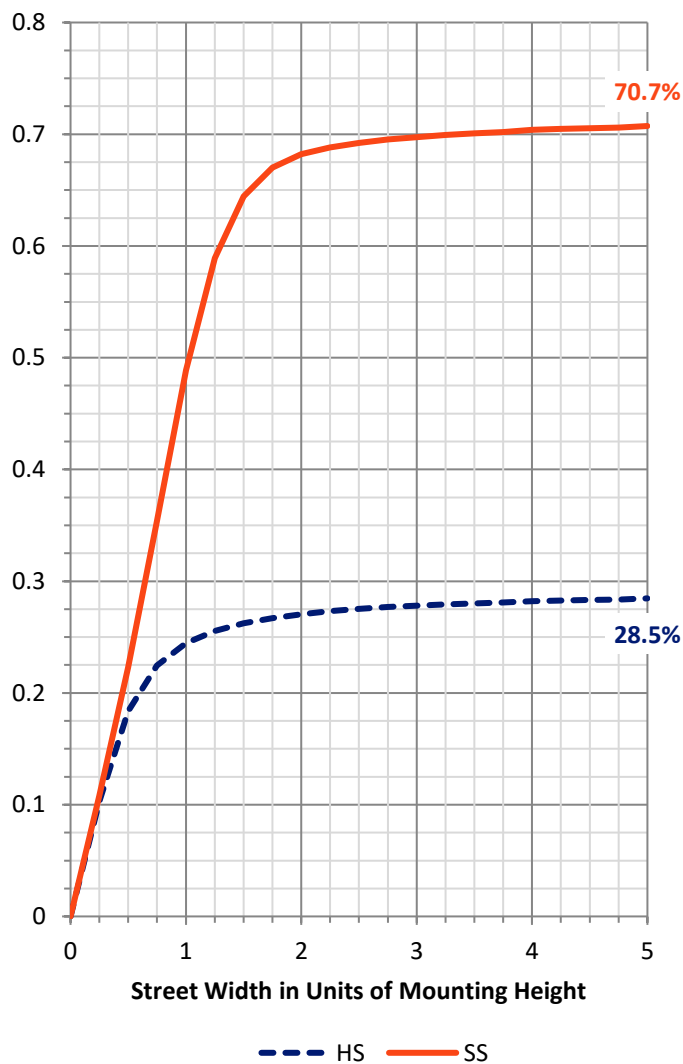
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	7977.3	0.0	7977.3
	% Fixture	28.9	0.0	28.9
<b>Street Side</b>	Lumens	19614.7	0.0	19614.7
	% Fixture	71.1	0.0	71.1
<b>Total</b>	Lumens	27592.0	0.0	27592.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	332.2	1.2
10°-20°	991.7	3.6
20°-30°	1761.6	6.4
30°-40°	2980.1	10.8
40°-50°	5187.8	18.8
50°-60°	6704.3	24.3
60°-70°	5866.7	21.3
70°-80°	3191.0	11.6
80°-90°	576.6	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°	27592.0	100.0
0°-180°	27592.0	100.0

**Coefficient of Utilization**

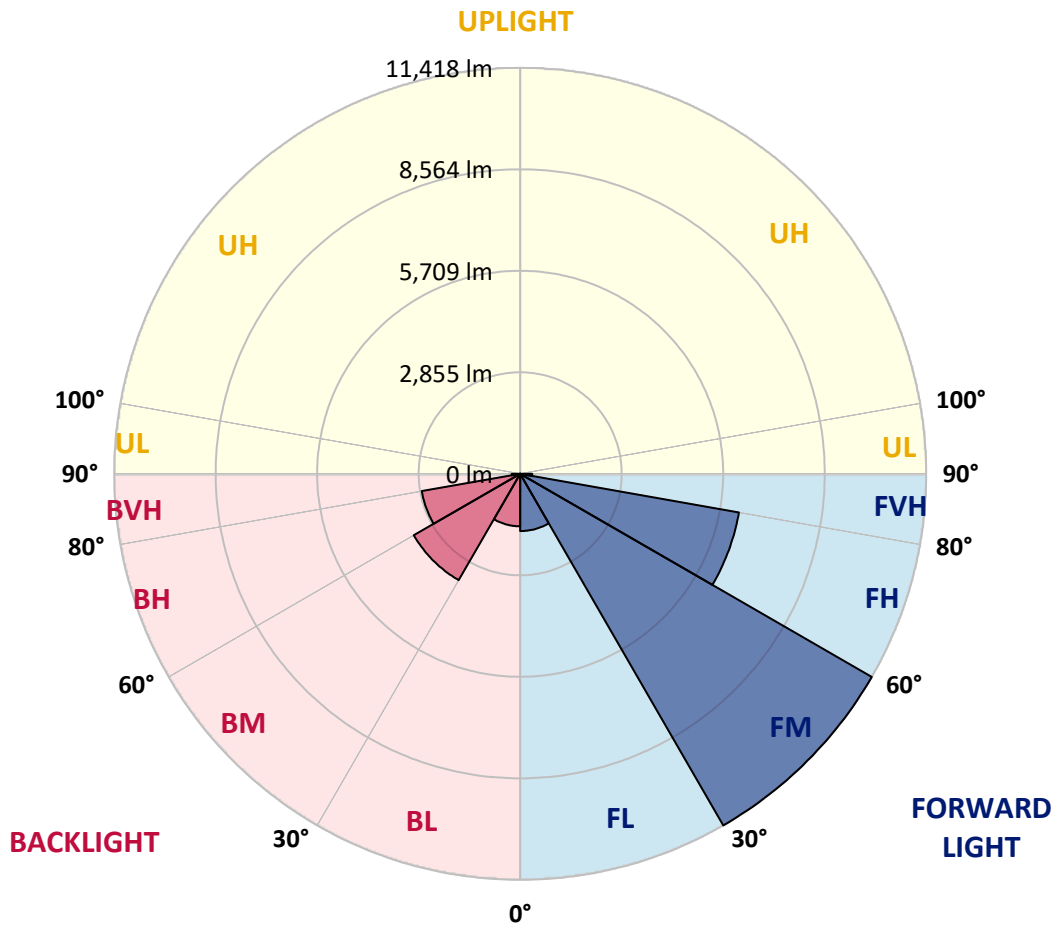


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1609.9	5.8			
FM (30°-60°)	11418.3	41.4			
FH (60°-80°)	6247.2	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°)	3454.0	12.5	B3/5000		
BH (60°-80°)	2810.5	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°	3486.5	3486.5	3486.5	3486.5	3486.5	3486.5	3486.5	3486.5	3486.5	3486.5	3486.5
2.5°	3424.8	3421.1	3413.9	3421.1	3424.8	3432.0	3428.4	3435.7	3432.0	3442.9	3461.1
5°	3337.6	3330.3	3326.7	3344.9	3355.8	3373.9	3381.2	3406.6	3403.0	3421.1	3450.2
7.5°	3239.6	3239.6	3235.9	3257.7	3272.2	3304.9	3330.3	3373.9	3377.6	3410.2	3442.9
10°	3163.3	3166.9	3163.3	3181.4	3203.2	3243.2	3286.8	3348.5	3352.1	3399.4	3432.0
12.5°	3134.2	3134.2	3134.2	3159.7	3188.7	3243.2	3294.0	3359.4	3366.7	3417.5	3446.6
15°	3174.2	3177.8	3170.5	3196.0	3228.7	3294.0	3341.2	3410.2	3417.5	3464.7	3482.9
17.5°	3315.8	3330.3	3312.2	3326.7	3319.5	3370.3	3413.9	3482.9	3486.5	3526.5	3533.7
20°	3595.5	3610.0	3580.9	3562.8	3497.4	3493.8	3511.9	3566.4	3566.4	3591.8	3573.7
22.5°	4027.7	4042.2	3991.3	3922.3	3766.2	3689.9	3649.9	3675.4	3671.7	3682.6	3635.4
25°	4601.5	4597.8	4536.1	4409.0	4158.4	3973.2	3875.1	3835.2	3835.2	3813.4	3755.3
27.5°	5313.3	5258.8	5149.9	4997.3	4648.7	4390.8	4180.2	4078.5	4060.3	3995.0	3886.0
30°	6072.3	6032.4	5876.2	5654.7	5251.6	4921.1	4572.4	4369.0	4358.1	4216.5	4053.1
32.5°	6965.8	6900.4	6726.1	6460.9	5977.9	5513.1	5077.2	4768.5	4750.4	4525.2	4300.0
35°	8113.4	8058.9	7721.2	7456.1	6835.0	6224.9	5709.2	5298.8	5284.2	5008.2	4721.3
37.5°	9489.9	9348.2	9021.4	8523.8	7870.1	7147.4	6493.6	5977.9	5959.8	5654.7	5291.5
40°	10717.4	10590.3	10299.7	9842.1	9141.2	8338.6	7452.4	6827.8	6809.6	6439.2	5981.6
42.5°	11625.3	11538.2	11349.3	11084.2	10583.0	10096.4	8676.3	7855.6	7822.9	7343.5	6773.3
45°	12152.0	12083.0	11974.0	12039.4	12032.1	11941.3	10136.3	9079.5	8974.1	8353.1	7655.8
47.5°	12024.8	11963.1	12006.7	12515.1	13216.1	13742.7	11836.0	10332.4	10190.8	9380.9	8596.4
50°	11106.0	11131.4	11360.2	12333.5	13906.1	15075.5	13720.9	11759.7	11570.9	10416.0	9489.9
52.5°	9431.7	9493.5	10049.2	11411.1	13829.8	15939.9	15424.2	13234.2	12983.6	11425.6	10303.4
55°	7492.4	7648.5	8367.6	9798.6	12834.7	16001.7	16709.8	14716.0	14440.0	12373.5	11011.6
57.5°	5542.1	5774.5	6606.2	7920.9	10928.0	15024.7	17352.7	16132.4	15798.3	13314.1	11759.7
60°	3515.6	3657.2	4616.0	6166.8	8364.0	12635.0	17269.1	17338.1	17047.6	14251.1	12540.6
62.5°	2244.4	2313.4	2796.5	4398.1	5847.2	9355.5	16357.6	18249.7	18053.6	15104.6	13281.4
65°	1441.8	1470.9	1717.8	2705.7	3980.4	5647.4	14087.7	18347.8	18373.2	15638.5	13739.0
67.5°	1173.1	1187.6	1278.4	1670.6	2814.6	3119.7	9813.1	16953.2	17261.9	15500.5	13582.9
70°	1067.7	1085.9	1180.3	1332.9	2179.1	2153.6	4750.4	14185.8	14690.6	14705.1	12889.2
72.5°	900.7	926.1	1053.2	1260.2	1685.1	1699.7	2012.0	10103.6	10848.1	13143.4	11846.9
75°	751.8	766.3	875.3	1111.3	1427.3	1358.3	1412.8	5356.9	6431.9	10539.4	10739.2
77.5°	610.1	624.7	704.6	886.2	1267.5	1056.8	1111.3	2219.0	2742.0	7154.6	8778.0
80°	435.8	450.3	541.1	690.0	958.8	951.5	824.4	1223.9	1329.2	3867.9	5701.9
82.5°	312.3	323.2	410.4	493.9	664.6	955.2	621.0	831.7	871.6	1714.2	2298.9
85°	210.6	210.6	283.3	326.9	428.6	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°	3486.5	3486.5	3486.5	3486.5	3486.5	3486.5	3486.5	3486.5	3486.5	3486.5	3486.5
2.5°	3472.0	3475.6	3482.9	3504.7	3519.2	3541.0	3551.9	3566.4	3566.4	3559.2	3562.8
5°	3464.7	3475.6	3501.0	3541.0	3566.4	3606.4	3635.4	3657.2	3664.5	3657.2	3660.8
7.5°	3461.1	3479.3	3522.8	3580.9	3617.3	3668.1	3708.1	3733.5	3751.6	3744.4	3748.0
10°	3450.2	3479.3	3533.7	3606.4	3660.8	3711.7	3748.0	3758.9	3769.8	3762.5	3758.9
12.5°	3464.7	3497.4	3555.5	3642.7	3704.4	3744.4	3755.3	3737.1	3711.7	3697.2	3693.5
15°	3493.8	3526.5	3584.6	3675.4	3729.8	3744.4	3718.9	3660.8	3602.7	3570.0	3566.4
17.5°	3533.7	3555.5	3602.7	3682.6	3726.2	3708.1	3657.2	3588.2	3544.6	3519.2	3522.8
20°	3559.2	3559.2	3595.5	3657.2	3693.5	3679.0	3617.3	3541.0	3472.0	3439.3	3428.4
22.5°	3595.5	3577.3	3580.9	3635.4	3686.3	3664.5	3533.7	3399.4	3301.3	3265.0	3261.3
25°	3693.5	3642.7	3610.0	3642.7	3762.5	3584.6	3323.1	3166.9	3076.1	3043.4	3047.1
27.5°	3813.4	3744.4	3675.4	3729.8	3824.3	3403.0	3054.3	2876.4	2821.9	2796.5	2807.4
30°	3933.2	3842.4	3751.6	3947.8	3780.7	3119.7	2709.3	2535.0	2487.8	2469.6	2484.1
32.5°	4154.8	4005.9	3896.9	4238.3	3646.3	2796.5	2335.2	2175.4	2131.9	2110.1	2102.8
35°	4525.2	4336.4	4227.4	4492.5	3457.5	2436.9	1993.9	1881.3	1834.1	1786.8	1779.6
37.5°	5059.1	4830.3	4732.2	4637.8	3192.3	2081.0	1732.4	1656.1	1587.1	1514.5	1510.8
40°	5698.3	5400.5	5327.8	4703.2	2825.5	1746.9	1550.8	1478.1	1391.0	1322.0	1325.6
42.5°	6435.5	6054.2	5898.0	4685.0	2371.6	1568.9	1420.0	1340.1	1263.9	1202.1	1198.5
45°	7223.6	6791.4	6431.9	4557.9	1921.2	1445.5	1340.1	1245.7	1169.4	1100.4	1093.2
47.5°	8095.3	7612.2	6925.8	4310.9	1587.1	1358.3	1292.9	1158.5	1089.5	1046.0	1046.0
50°	8974.1	8396.7	7379.8	3936.9	1391.0	1292.9	1223.9	1111.3	1056.8	1020.5	1020.5
52.5°	9725.9	9213.8	7753.9	3490.1	1267.5	1238.4	1176.7	1089.5	1031.4	998.7	995.1
55°	10455.9	9972.9	8088.0	3047.1	1165.8	1165.8	1165.8	1071.4	1006.0	977.0	973.3
57.5°	11182.3	10771.9	8436.6	2756.5	1075.0	1104.1	1144.0	1049.6	984.2	958.8	955.2
60°	12003.1	11730.7	8839.8	2553.1	995.1	1038.7	1115.0	1024.2	947.9	926.1	922.5
62.5°	12874.7	12874.7	9206.6	2266.2	922.5	984.2	1071.4	991.5	915.2	897.1	893.4
65°	13557.5	13851.6	9442.6	1837.7	849.8	929.7	1020.5	947.9	871.6	868.0	860.7
67.5°	13637.4	14098.6	9293.7	1387.3	784.5	871.6	969.7	900.7	828.0	828.0	817.2
70°	13063.5	13532.0	8828.9	1038.7	737.3	813.5	904.3	842.6	773.6	780.8	762.7
72.5°	12104.7	12221.0	7674.0	820.8	682.8	751.8	824.4	777.2	715.5	715.5	690.0
75°	10840.9	10194.4	5574.8	686.4	617.4	679.1	744.5	704.6	650.1	631.9	617.4
77.5°	8629.1	7387.1	3239.6	592.0	562.9	610.1	653.7	624.7	577.5	537.5	537.5
80°	5258.8	4329.1	1430.9	512.1	497.6	533.9	562.9	530.2	490.3	450.3	439.4
82.5°	2001.1	1670.6	693.7	439.4	435.8	457.6	479.4	446.7	417.7	399.5	345.0
85°	548.4	504.8	475.8	366.8	359.5	355.9	381.3	366.8	326.9	268.8	239.7
87.5°	207.0	236.1	257.9	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)