

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: P236825

Luminaire Tested: **ARCH-L-AF72-120-D-U-T2R-7030**

Issue Date: 8/23/2018

**Test Information**

Test Method: LM-79-08  
Report Number: P236825  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29635)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 8/23/2018  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: ARCH-L-AF72-120-D-U-T2R-7030  
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE  
(3) 70 CRI, 3000K, 530mA LIGHT ENGINES WITH 24 LEDS AND TYPE II ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 16154 lumens  
Efficiency: N/A  
Efficacy: 131.3 lumens/watt  
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B2 - U0 - G2

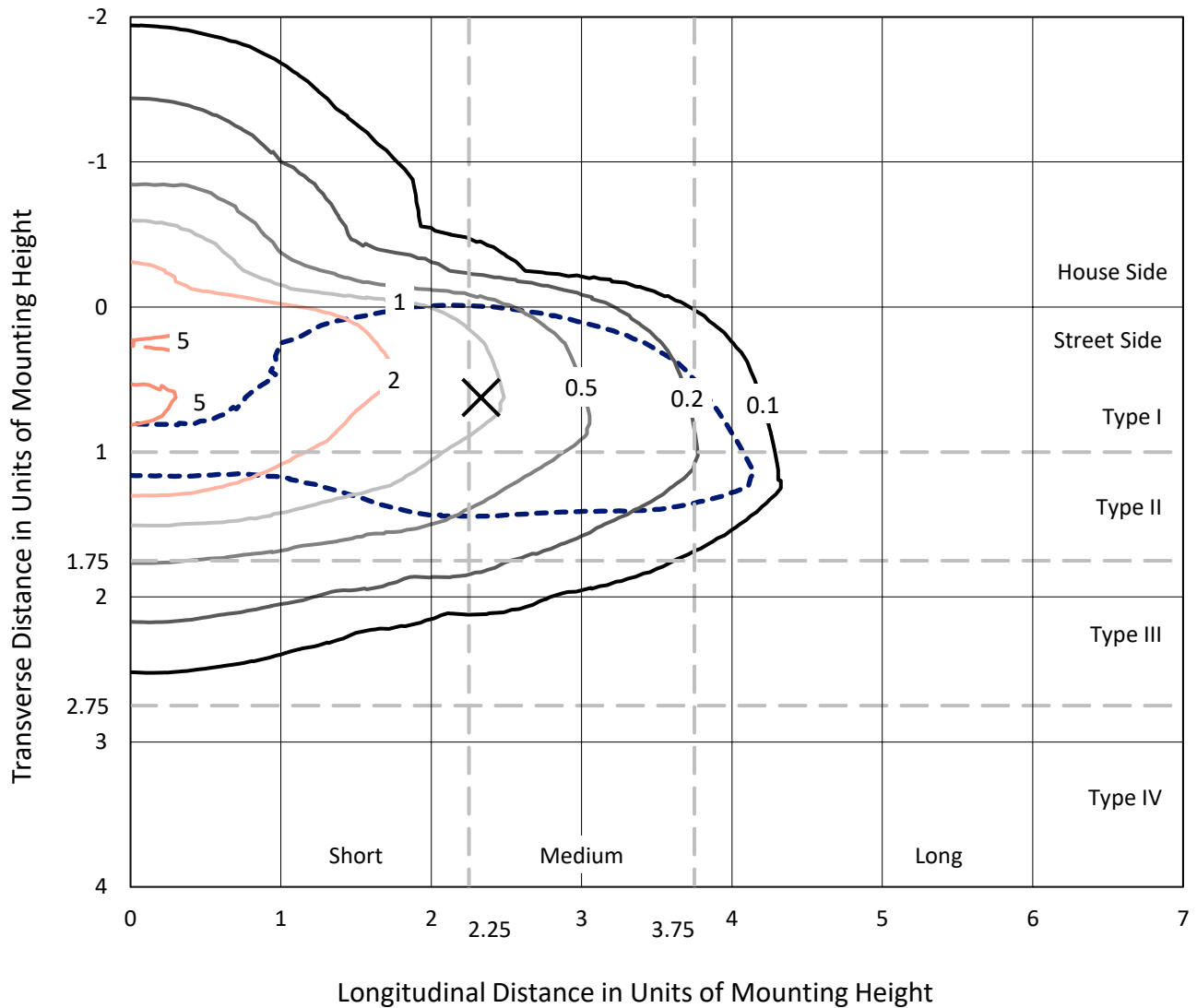
Input Watts (W): 123  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P236825  
 CATALOG NUMBER: ARCH-L-AF72-120-D-U-T2R-7030

### Iso-Footcandle Lines of Horizontal Illumination

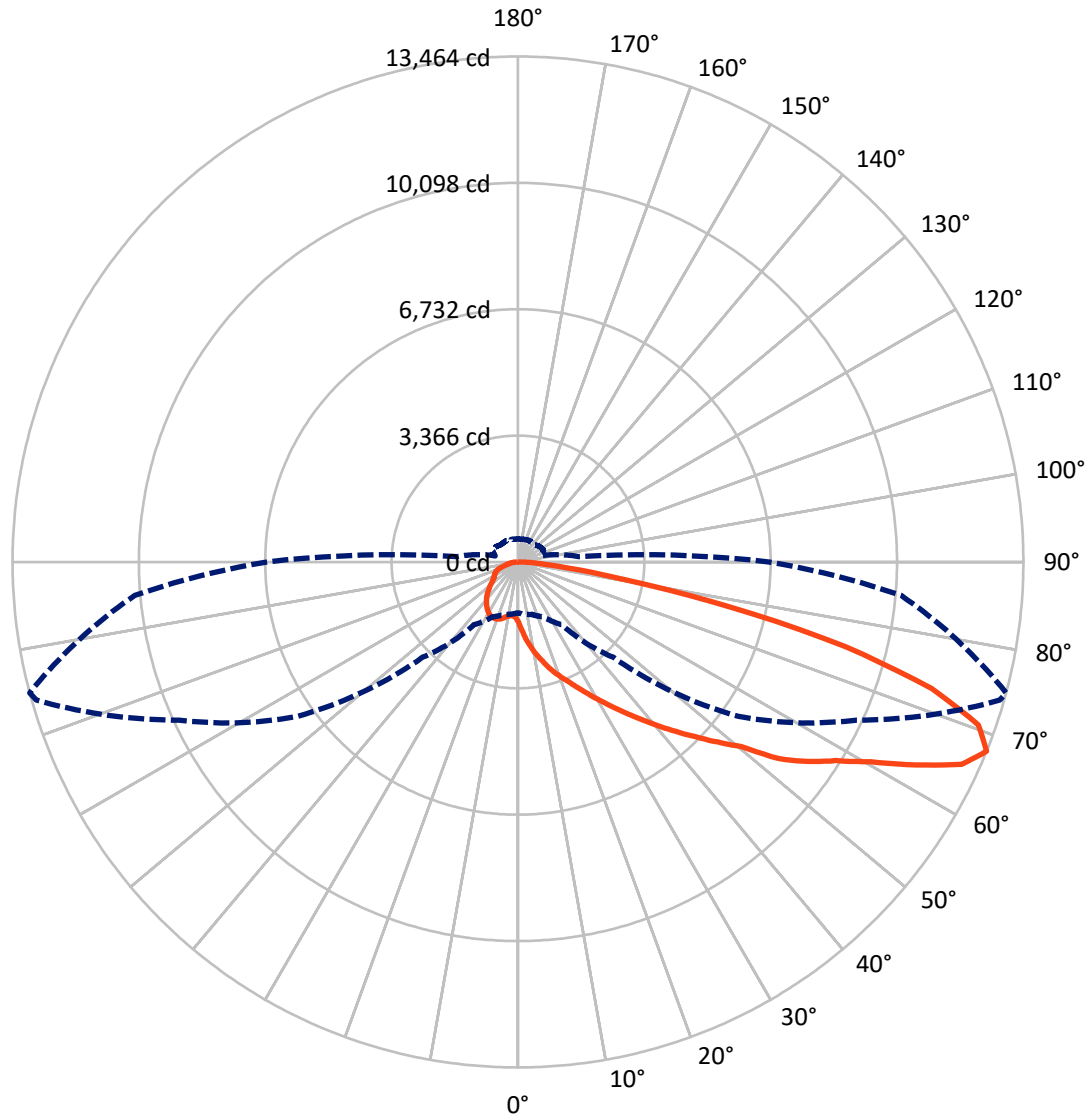
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.4 fc  
 Type II - Medium - N/A

REPORT NUMBER: P236825  
CATALOG NUMBER: ARCH-L-AF72-120-D-U-T2R-7030

### Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral      - - - Horizontal Cone Through 67.5-Deg Vertical

REPORT NUMBER: P236825  
 CATALOG NUMBER: ARCH-L-AF72-120-D-U-T2R-7030

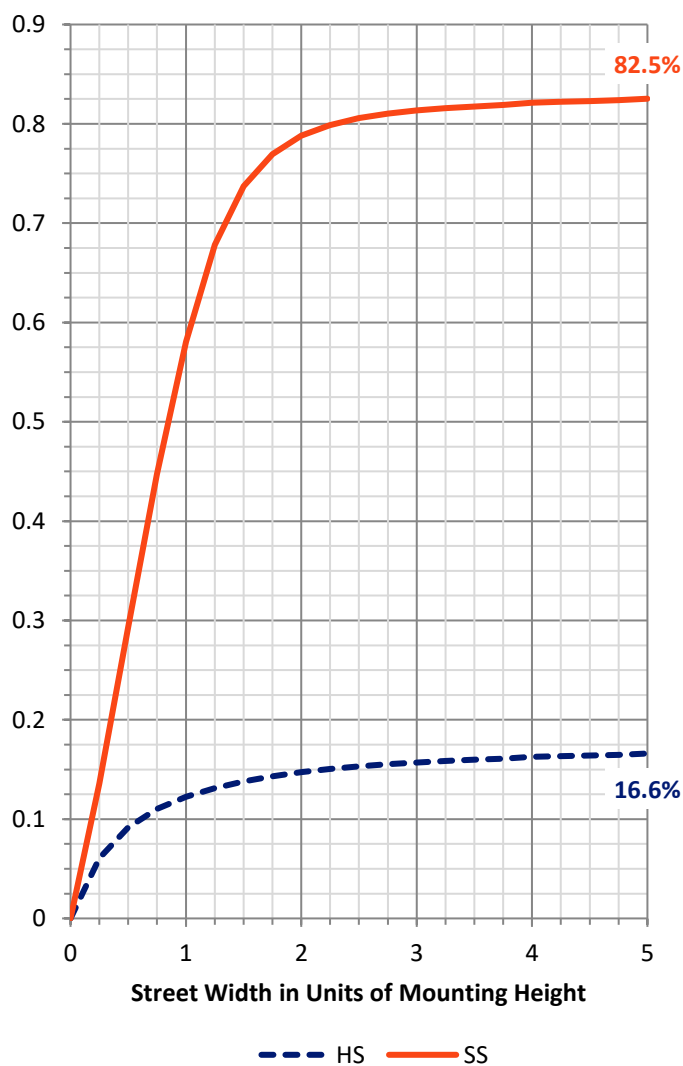
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2758.5	0.0	2758.5
	% Fixture	17.1	0.0	17.1
<b>Street Side</b>	Lumens	13395.5	0.0	13395.5
	% Fixture	82.9	0.0	82.9
<b>Total</b>	Lumens	16154.0	0.0	16154.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	188.0	1.2
10°-20°	679.6	4.2
20°-30°	1239.5	7.7
30°-40°	2034.5	12.6
40°-50°	2942.2	18.2
50°-60°	3467.4	21.5
60°-70°	3369.5	20.9
70°-80°	1873.0	11.6
80°-90°	360.1	2.2
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°	16154.0	100.0
0°-180°	16154.0	100.0

**Coefficient of Utilization**

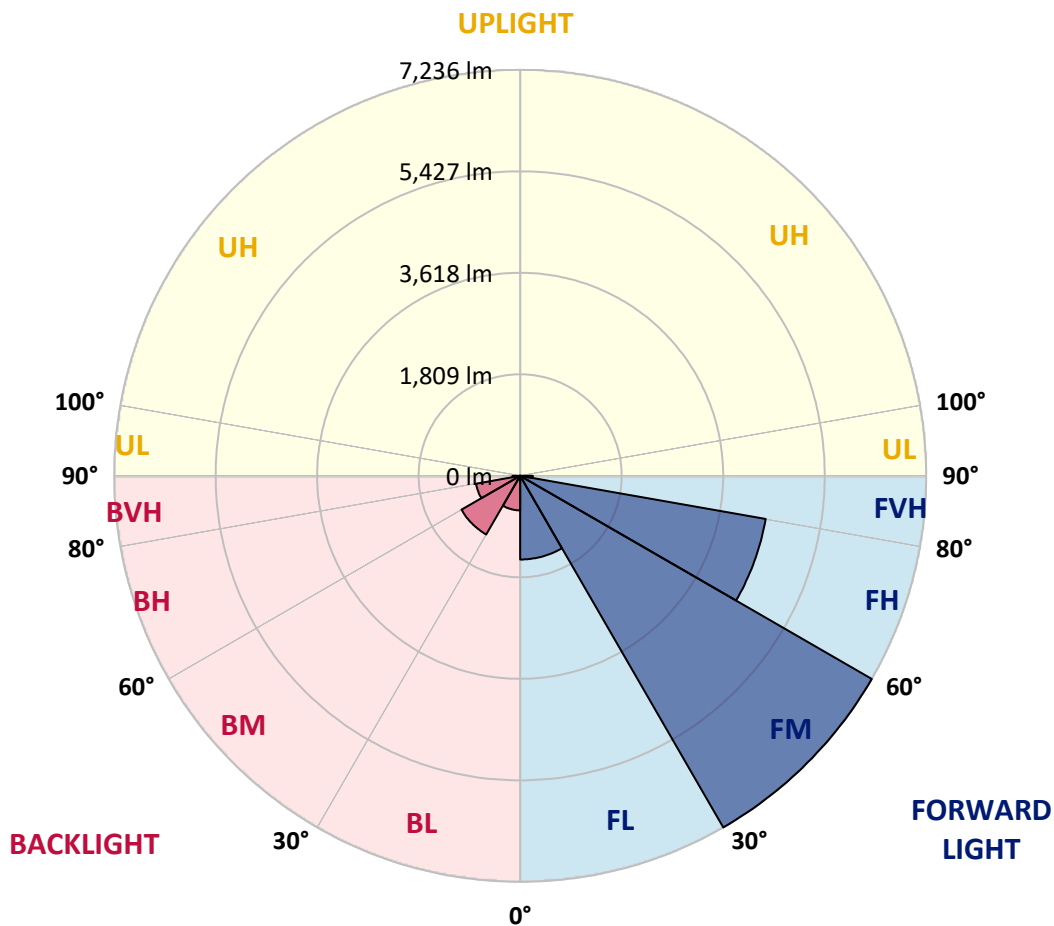


REPORT NUMBER: P236825  
 CATALOG NUMBER: ARCH-L-AF72-120-D-U-T2R-7030

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1491.4	9.2			
FM (30°-60°)	7236.1	44.8			
FH (60°-80°)	4443.8	27.5			G2/5000
FVH (80°-90°)	224.1	1.4			G2/225
BL (0°-30°)	615.7	3.8	B2/1000		
BM (30°-60°)	1208.1	7.5	B2/2500		
BH (60°-80°)	798.7	4.9	B2/1000		G2/1000
BVH (80°-90°)	136.0	0.8			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G2**  
 Type II Medium





REPORT NUMBER: P236825

CATALOG NUMBER: ARCH-L-AF72-120-D-U-T2R-7030

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	1600.6	1600.6	1600.6	1600.6	1600.6	1600.6	1600.6	1600.6	1600.6	1600.6	1600.6
2.5°	2269.4	2276.1	2262.5	2232.1	2188.4	2107.3	2036.4	1911.4	1799.9	1786.4	1668.3
5°	2667.8	2674.5	2657.7	2620.6	2573.3	2485.4	2387.6	2225.5	2046.4	2012.7	1762.8
7.5°	2941.4	2944.7	2924.5	2887.4	2850.2	2762.4	2664.5	2482.2	2262.5	2235.6	1884.4
10°	3174.4	3181.2	3154.1	3130.5	3090.0	3002.1	2900.9	2708.3	2482.2	2445.0	2009.3
12.5°	3390.6	3397.3	3380.4	3360.2	3346.6	3265.5	3154.1	2924.5	2681.3	2640.8	2157.9
15°	3535.7	3542.5	3545.9	3572.9	3589.7	3532.4	3420.9	3171.0	2897.4	2860.3	2333.6
17.5°	3495.2	3512.1	3562.7	3660.6	3765.4	3768.8	3677.5	3414.2	3110.2	3069.7	2512.5
20°	3376.9	3390.6	3451.3	3599.9	3805.9	3924.0	3917.4	3660.6	3309.5	3265.5	2678.0
22.5°	3475.0	3491.8	3491.8	3583.0	3785.7	4005.1	4093.0	3903.9	3508.8	3468.2	2843.5
25°	3893.7	3903.9	3833.0	3795.7	3870.1	4072.6	4238.1	4167.2	3751.9	3704.6	3022.4
27.5°	4477.9	4461.0	4373.2	4224.6	4143.5	4197.6	4366.4	4417.2	4032.1	3974.8	3208.2
30°	5058.7	5048.7	4947.4	4748.1	4565.7	4450.9	4508.2	4640.0	4336.1	4268.5	3387.1
32.5°	5602.5	5585.6	5474.1	5241.1	5035.1	4822.3	4710.9	4842.6	4660.2	4582.6	3586.4
35°	6102.2	6058.3	5946.9	5703.8	5491.1	5288.3	5014.9	5035.1	5011.5	4930.5	3805.9
37.5°	6507.5	6473.7	6352.2	6125.8	5899.7	5707.1	5420.2	5254.6	5389.6	5312.0	4059.2
40°	6865.5	6828.2	6703.4	6477.1	6267.7	6085.4	5859.1	5521.4	5815.3	5727.4	4342.8
42.5°	7135.6	7108.6	7007.4	6784.5	6581.8	6416.4	6305.0	5859.1	6257.6	6173.1	4653.5
45°	7280.8	7253.8	7199.7	7020.8	6835.0	6706.8	6716.8	6261.0	6720.2	6649.3	5021.5
47.5°	7101.9	7122.1	7169.4	7135.6	7020.8	6960.1	7084.9	6676.4	7236.9	7169.4	5420.2
50°	6622.3	6642.5	6831.7	7064.7	7105.2	7179.5	7415.9	7155.8	7783.9	7730.0	5913.1
52.5°	5443.8	5555.2	6078.6	6635.9	7017.4	7324.7	7783.9	7868.5	8705.9	8705.9	6784.5
55°	4113.2	4211.2	4808.8	5781.5	6676.4	7338.3	8054.1	8351.3	9371.1	9384.8	7240.3
57.5°	3333.1	3393.9	3687.7	4684.0	5960.4	7169.4	8374.9	8766.8	9925.0	9985.9	7827.9
60°	2704.9	2738.8	2931.2	3623.5	4971.0	6713.4	8604.6	9361.2	10715.3	10799.6	8577.6
62.5°	2174.8	2208.5	2336.8	2752.2	3900.4	5859.1	8564.1	9979.0	11768.9	11907.3	9560.3
65°	1735.8	1773.0	1857.4	2114.0	2890.7	4798.7	8148.7	10296.5	12859.6	12994.7	10212.0
67.5°	1354.2	1387.9	1445.4	1614.2	2036.4	3589.7	7166.0	9962.1	13349.3	13464.1	10245.8
70°	1023.2	1040.1	1087.3	1195.6	1455.5	2384.1	5609.3	8841.0	12910.3	13015.0	9570.4
72.5°	793.6	790.3	817.3	871.3	1016.4	1641.2	3718.1	7189.7	11414.4	11522.4	8165.6
75°	648.4	644.9	661.9	678.8	736.2	1100.9	2195.0	5413.4	9212.5	9006.5	6125.8
77.5°	547.1	543.7	560.6	564.0	587.6	759.8	1249.5	3562.7	6146.2	5791.7	3451.3
80°	462.6	459.3	479.5	486.3	503.1	557.2	719.3	1928.3	3086.6	2924.5	1647.9
82.5°	347.9	361.3	398.5	415.4	435.6	412.0	445.8	851.0	1431.9	1367.7	715.9
85°	168.8	199.3	300.6	334.4	358.0	260.0	304.0	401.8	644.9	614.6	290.4
87.5°	57.4	50.7	178.9	212.7	233.0	118.2	168.8	222.9	266.8	243.1	91.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P236825

CATALOG NUMBER: ARCH-L-AF72-120-D-U-T2R-7030

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1600.6	1600.6	1600.6	1600.6	1600.6	1600.6	1600.6	1600.6	1600.6	1600.6	1600.6
2.5°	1617.6	1566.9	1492.6	1435.2	1398.1	1367.7	1354.2	1350.8	1344.0	1340.7	1340.7
5°	1651.4	1560.2	1445.4	1384.6	1367.7	1354.2	1361.0	1364.3	1364.3	1364.3	1364.3
7.5°	1702.0	1573.7	1435.2	1394.7	1391.3	1391.3	1411.6	1421.7	1428.4	1428.4	1428.4
10°	1769.6	1597.4	1452.2	1418.3	1428.4	1435.2	1458.8	1472.4	1479.2	1482.5	1485.9
12.5°	1860.6	1647.9	1485.9	1458.8	1472.4	1475.8	1492.6	1499.4	1506.1	1509.5	1509.5
15°	1982.3	1722.3	1539.9	1506.1	1509.5	1506.1	1506.1	1499.4	1496.0	1496.0	1502.8
17.5°	2107.3	1793.2	1587.2	1539.9	1526.5	1499.4	1479.2	1462.2	1452.2	1445.4	1448.8
20°	2232.1	1857.4	1614.2	1546.7	1509.5	1465.6	1428.4	1404.8	1391.3	1377.9	1384.6
22.5°	2357.2	1918.1	1624.3	1526.5	1472.4	1408.3	1367.7	1330.6	1300.1	1279.9	1283.2
25°	2495.6	1985.7	1624.3	1502.8	1421.7	1354.2	1303.6	1242.8	1198.8	1181.9	1188.7
27.5°	2634.0	2043.0	1607.4	1458.8	1364.3	1296.8	1222.5	1151.6	1124.5	1114.5	1117.8
30°	2772.6	2087.0	1570.3	1404.8	1303.6	1229.2	1131.3	1084.1	1050.2	1023.2	1026.6
32.5°	2911.0	2117.3	1519.7	1337.4	1239.3	1144.8	1063.7	1009.8	948.9	915.1	918.6
35°	3069.7	2141.1	1458.8	1269.7	1168.4	1070.5	1009.8	921.9	857.8	830.7	824.1
37.5°	3235.1	2157.9	1394.7	1195.6	1097.5	1016.4	955.7	847.7	786.8	749.7	746.4
40°	3414.2	2164.7	1317.0	1117.8	1030.0	982.7	884.8	803.7	699.0	675.4	675.4
42.5°	3626.9	2161.2	1239.3	1040.1	955.7	905.0	834.0	796.9	705.9	682.1	668.6
45°	3870.1	2161.2	1155.0	948.9	881.4	807.1	776.8	753.2	692.2	702.4	709.2
47.5°	4146.9	2154.5	1053.6	874.6	820.6	756.4	739.5	688.9	665.3	672.1	678.8
50°	4528.6	2164.7	962.5	813.9	776.8	722.6	702.4	675.4	665.3	668.6	665.3
52.5°	5058.7	2130.9	874.6	776.8	743.0	672.1	672.1	668.6	672.1	668.6	668.6
55°	5349.3	2056.6	810.4	756.4	719.3	648.4	661.9	668.6	675.4	672.1	672.1
57.5°	5761.1	2005.9	759.8	743.0	705.9	641.7	655.1	668.6	672.1	668.6	668.6
60°	6247.5	1972.1	726.0	746.4	695.7	641.7	658.5	668.6	665.3	661.9	661.9
62.5°	6811.4	1958.7	702.4	756.4	685.5	644.9	658.5	668.6	655.1	651.7	651.7
65°	7024.2	1837.0	672.1	763.1	692.2	644.9	655.1	658.5	641.7	638.3	634.9
67.5°	6696.6	1627.8	628.1	749.7	712.6	644.9	644.9	641.7	621.3	618.0	611.2
70°	5963.8	1350.8	560.6	705.9	726.0	648.4	631.5	614.6	594.4	594.4	580.8
72.5°	4883.2	1063.7	472.8	628.1	715.9	658.5	604.5	580.8	557.2	557.2	543.7
75°	3518.8	793.6	378.2	523.5	672.1	655.1	570.7	540.3	513.3	509.9	493.1
77.5°	2005.9	557.2	307.3	408.6	597.7	638.3	540.3	493.1	462.6	452.6	442.4
80°	1030.0	374.9	249.8	320.7	496.5	591.0	516.7	439.0	405.3	388.3	371.5
82.5°	489.7	249.8	192.6	236.4	374.9	516.7	486.3	378.2	341.1	320.7	300.6
85°	219.5	148.6	128.4	152.0	266.8	401.8	428.9	310.8	266.8	334.4	246.5
87.5°	70.9	67.5	67.5	70.9	128.4	175.6	314.0	229.7	212.7	175.6	148.6
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)