

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: P399346

Luminaire Tested: **ARCH-L-PA3-130-730-U-T2R**

Issue Date: 5/19/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P399346  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-9)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/19/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: ARCH-L-PA3-130-730-U-T2R  
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE  
(3) 70 CRI, 3000K, 575mA LIGHT ENGINES WITH 24 LEDS AND TYPE II ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 19372 lumens  
Efficiency: N/A  
Efficacy: 145.7 lumens/watt  
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B2 - U0 - G3

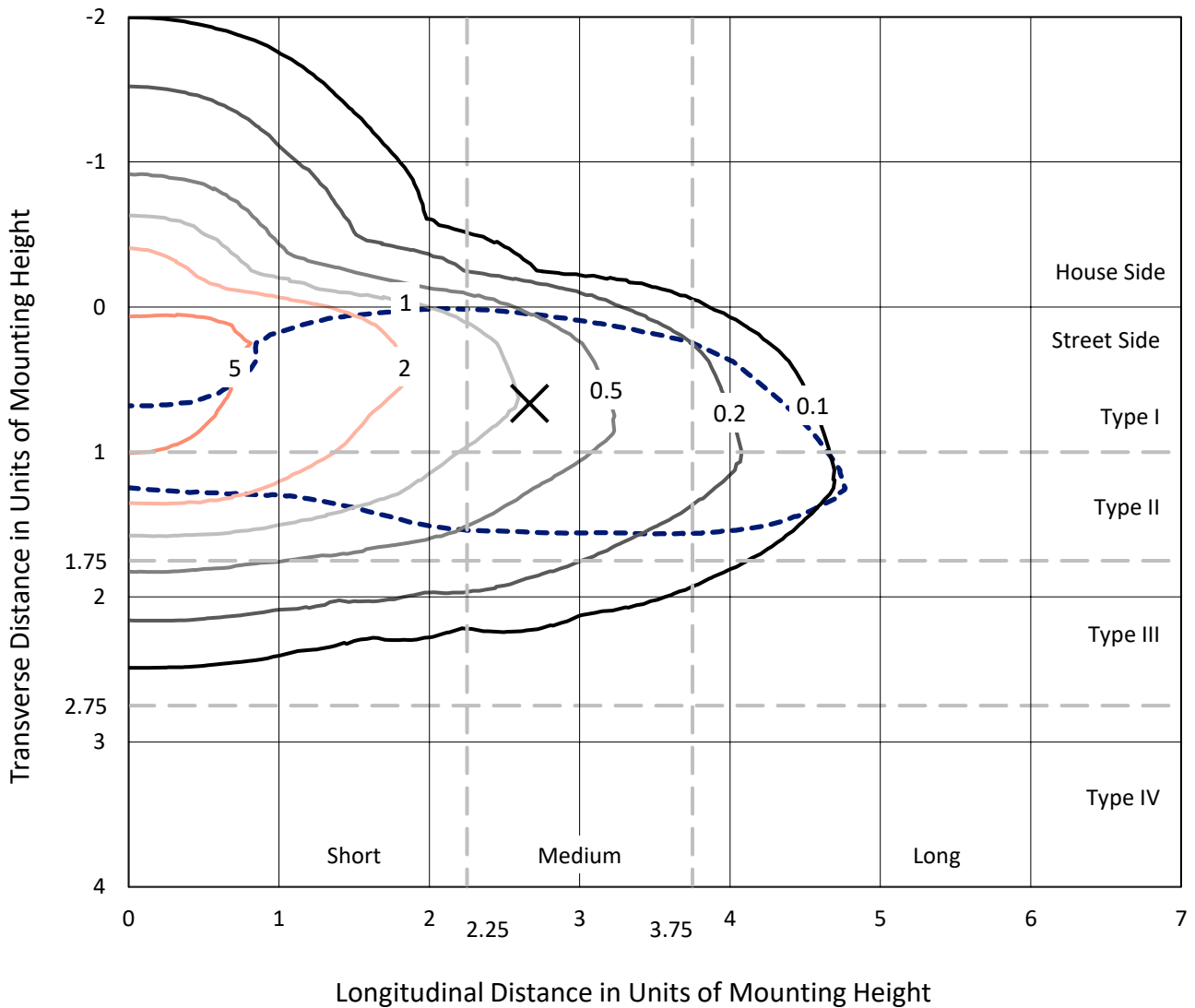
Input Watts (W): 133  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



REPORT NUMBER: P399346  
 CATALOG NUMBER: ARCH-L-PA3-130-730-U-T2R

### Iso-Footcandle Lines of Horizontal Illumination

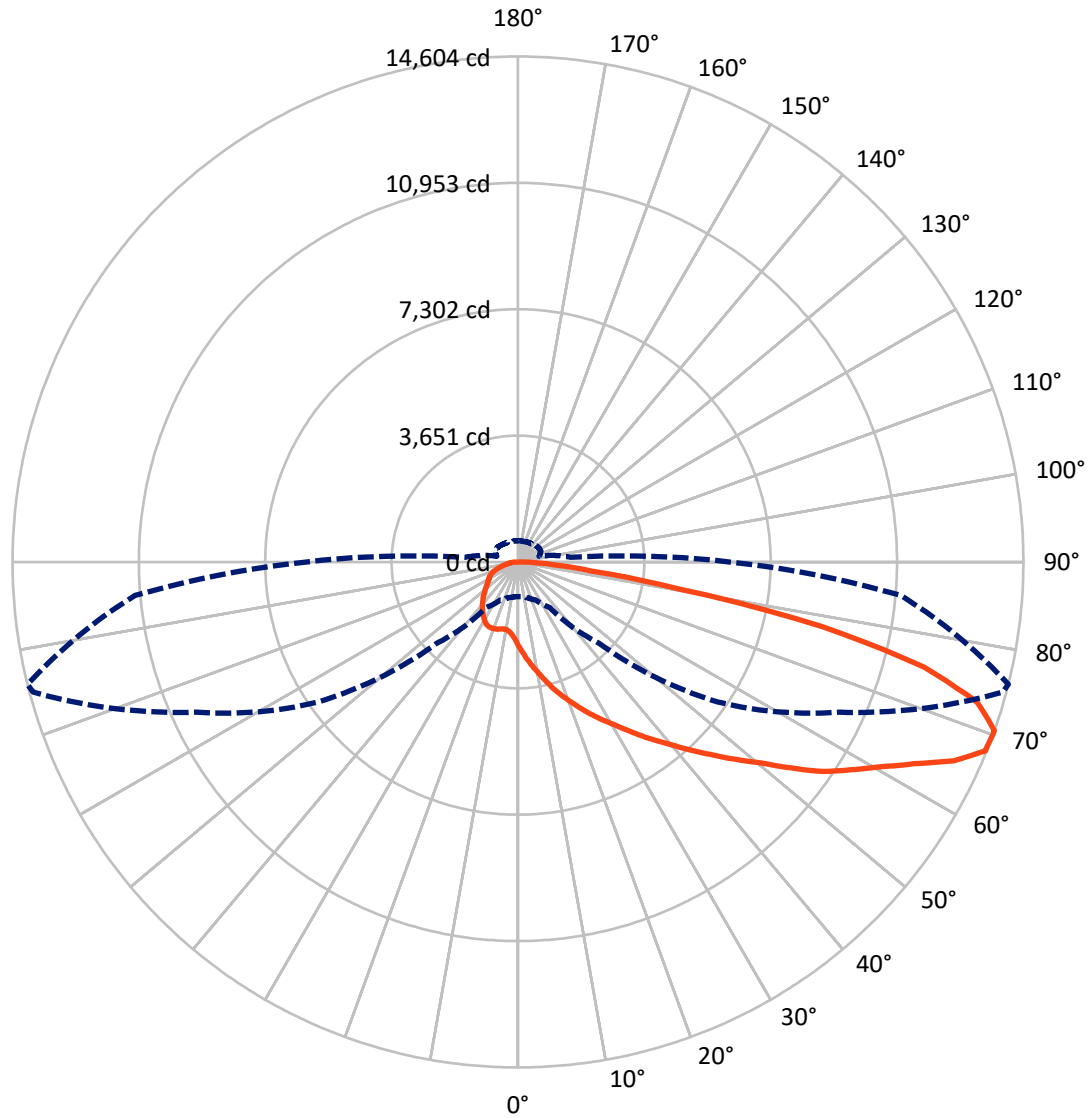
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.6 fc  
 Type II - Medium - N/A

REPORT NUMBER: P399346  
CATALOG NUMBER: ARCH-L-PA3-130-730-U-T2R

### Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

REPORT NUMBER: P399346  
 CATALOG NUMBER: ARCH-L-PA3-130-730-U-T2R

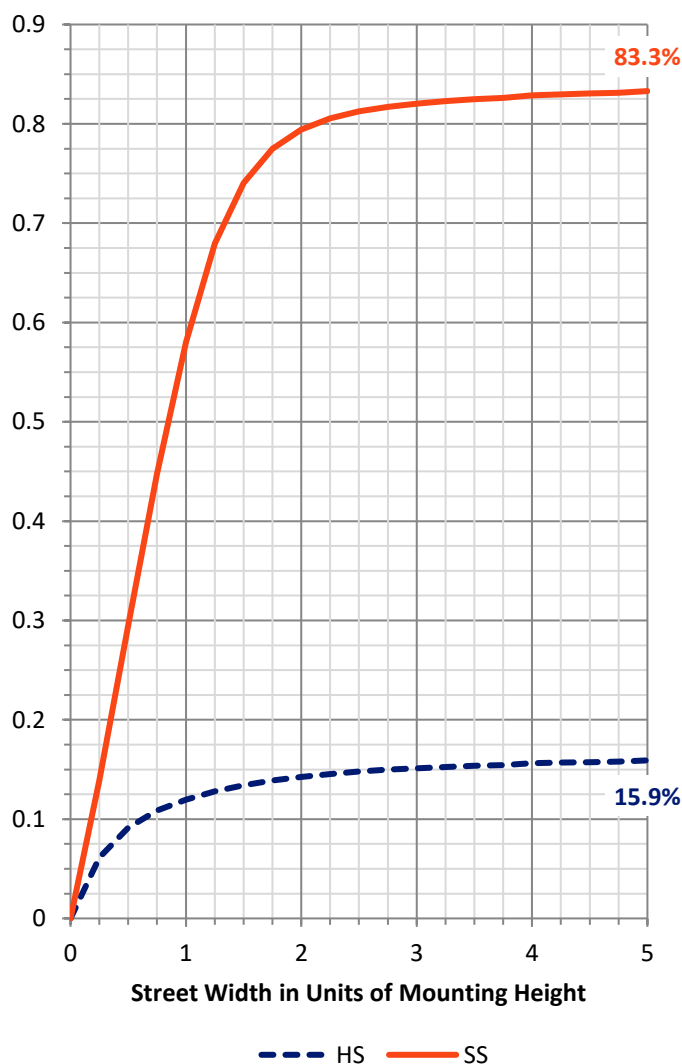
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3162.7	0.0	3162.7
	% Fixture	16.3	0.0	16.3
<b>Street Side</b>	Lumens	16209.3	0.0	16209.3
	% Fixture	83.7	0.0	83.7
<b>Total</b>	Lumens	19372.0	0.0	19372.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	251.7	1.3
10°-20°	855.5	4.4
20°-30°	1530.6	7.9
30°-40°	2476.0	12.8
40°-50°	3581.8	18.5
50°-60°	4099.6	21.2
60°-70°	3771.2	19.5
70°-80°	2332.0	12.0
80°-90°	473.6	2.4
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°	19372.0	100.0
0°-180°	19372.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P399346

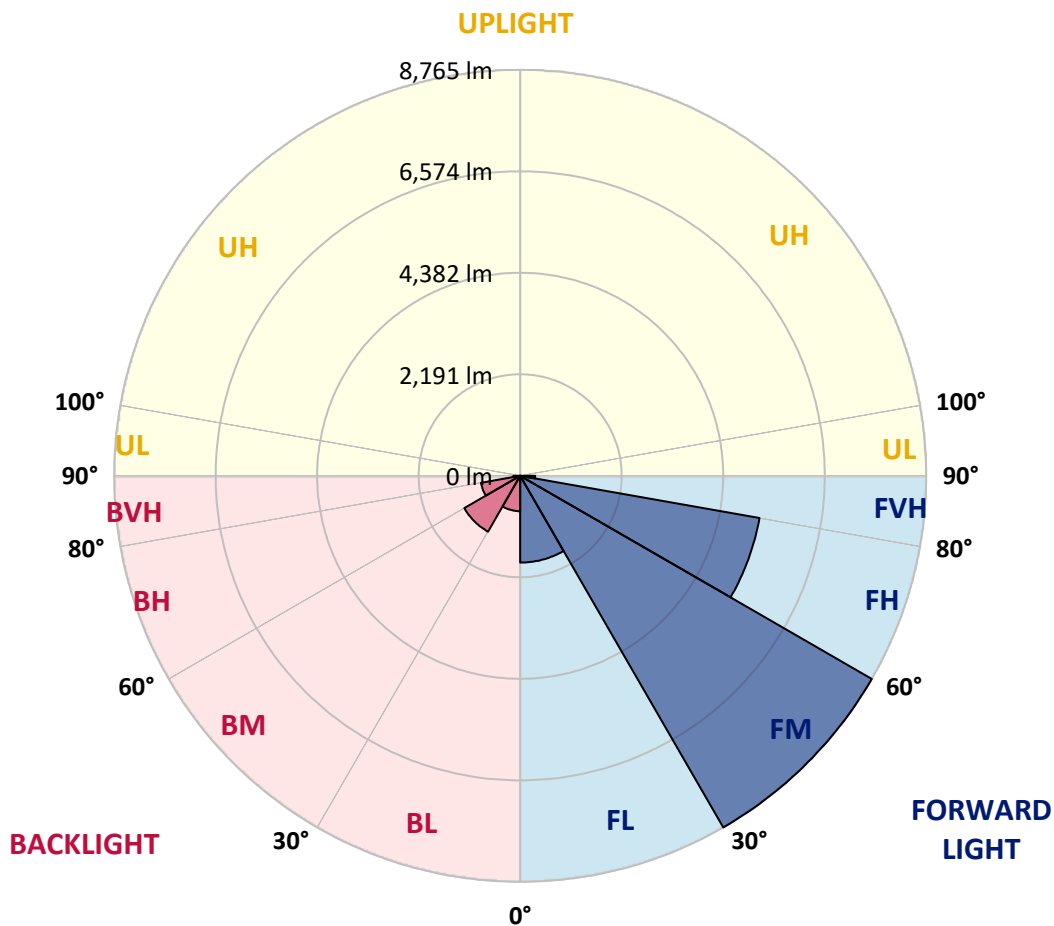
CATALOG NUMBER: ARCH-L-PA3-130-730-U-T2R

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1873.9	9.7			
FM (30°-60°)	8764.9	45.2			
FH (60°-80°)	5245.4	27.1			G3/7500
FVH (80°-90°)	325.1	1.7			G3/500
BL (0°-30°)	763.9	3.9	B2/1000		
BM (30°-60°)	1392.5	7.2	B2/2500		
BH (60°-80°)	857.8	4.4	B2/1000		G2/1000
BVH (80°-90°)	148.5	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-G3**

Type II Medium





REPORT NUMBER: P399346

CATALOG NUMBER: ARCH-L-PA3-130-730-U-T2R

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2422.6	2422.6	2422.6	2422.6	2422.6	2422.6	2422.6	2422.6	2422.6	2422.6	2422.6
2.5°	3087.4	3064.5	3061.9	3026.3	2993.2	2904.0	2840.3	2728.2	2616.2	2613.6	2501.5
5°	3568.9	3545.9	3533.2	3489.9	3433.9	3316.7	3202.0	3028.8	2837.8	2825.0	2613.6
7.5°	3894.9	3874.6	3849.1	3831.2	3777.8	3673.3	3533.2	3326.9	3064.5	3039.0	2743.5
10°	4114.0	4101.3	4096.2	4083.4	4050.3	3966.3	3831.2	3612.2	3291.2	3263.2	2881.1
12.5°	4208.3	4203.2	4226.1	4261.8	4274.5	4241.4	4111.5	3905.1	3540.8	3510.3	3046.7
15°	4098.7	4103.8	4162.4	4284.7	4414.6	4485.9	4409.5	4208.3	3823.6	3780.3	3240.3
17.5°	4047.8	4055.4	4096.2	4213.4	4396.8	4618.4	4654.1	4496.1	4096.2	4035.0	3444.0
20°	4136.9	4147.1	4177.7	4269.4	4396.8	4633.7	4819.6	4771.2	4363.6	4300.0	3640.2
22.5°	4363.6	4376.4	4373.8	4432.4	4519.0	4682.1	4911.3	5031.1	4643.9	4572.5	3844.0
25°	4847.7	4837.5	4750.9	4722.8	4745.8	4850.2	5033.6	5280.7	4936.8	4865.5	4058.0
27.5°	5504.9	5492.1	5334.2	5191.5	5064.2	5110.0	5206.8	5481.9	5234.9	5153.3	4261.8
30°	6207.9	6192.7	6009.3	5777.4	5494.7	5428.5	5415.7	5657.7	5535.4	5448.8	4478.3
32.5°	6893.2	6880.5	6684.3	6414.3	6024.5	5825.8	5703.6	5853.9	5876.8	5792.7	4715.2
35°	7517.3	7517.3	7349.2	7028.2	6587.5	6286.9	6085.7	6095.9	6269.1	6172.3	4985.2
37.5°	8072.6	8070.1	7886.7	7570.8	7147.9	6804.0	6554.4	6388.8	6643.5	6559.5	5268.0
40°	8513.3	8495.5	8360.5	8085.4	7659.9	7318.6	7066.4	6732.7	7061.3	6984.9	5568.6
42.5°	8834.3	8824.1	8732.4	8492.9	8087.9	7766.9	7593.7	7165.8	7535.1	7458.7	5920.1
45°	8959.1	8979.5	8979.5	8752.8	8431.8	8138.9	8062.4	7642.1	8047.2	7970.7	6297.1
47.5°	8757.9	8811.4	8920.9	8936.2	8653.4	8454.7	8480.2	8121.0	8574.5	8533.7	6709.8
50°	8128.7	8228.0	8467.5	8900.5	8742.6	8696.7	8836.8	8610.1	9140.0	9127.2	7211.6
52.5°	6506.0	6748.0	7494.4	8271.3	8681.4	8808.8	9190.9	9160.4	9868.5	9888.9	7866.3
55°	4990.3	5082.0	5945.6	7267.7	8307.0	8773.2	9427.8	9697.8	10658.2	10683.7	8467.5
57.5°	4035.0	4096.2	4567.4	5945.6	7453.6	8579.6	9613.8	10011.2	11264.5	11330.7	9002.4
60°	3197.0	3286.1	3602.0	4549.6	6258.9	8113.4	9743.7	10360.2	11916.6	12016.0	9641.8
62.5°	2376.7	2420.0	2718.0	3370.2	4954.6	7275.3	9674.9	10739.7	12716.5	12836.2	10411.1
65°	1691.5	1729.7	1941.1	2397.1	3663.1	6141.7	9275.0	11022.5	13720.1	13842.4	11185.5
67.5°	1266.0	1281.3	1401.1	1676.2	2468.4	4771.2	8464.9	10974.1	14453.8	14563.3	11496.3
70°	1001.1	1006.2	1064.8	1212.5	1604.8	3321.8	7046.0	10263.4	14507.3	14604.1	11104.0
72.5°	830.4	827.9	861.0	932.3	1118.3	2101.6	5219.6	8943.8	13819.5	13885.7	10008.6
75°	685.2	690.3	713.3	754.0	853.4	1385.8	3382.9	7135.2	12191.7	12120.4	8398.7
77.5°	575.7	573.2	583.3	619.0	690.3	996.0	1981.9	5155.9	9035.5	8999.9	5512.5
80°	463.6	468.7	484.0	514.6	580.8	759.1	1171.8	3217.3	4847.7	4717.7	2634.0
82.5°	310.8	359.2	389.7	425.4	501.8	560.4	743.8	1635.4	2167.8	2134.7	1194.7
85°	147.7	196.1	290.4	331.2	407.6	351.5	504.4	779.5	1085.2	1072.4	430.5
87.5°	30.6	30.6	155.4	186.0	252.2	150.3	280.2	338.8	524.8	491.6	175.8
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: P399346

CATALOG NUMBER: ARCH-L-PA3-130-730-U-T2R

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2422.6	2422.6	2422.6	2422.6	2422.6	2422.6	2422.6	2422.6	2422.6	2422.6	2422.6
2.5°	2435.3	2366.5	2229.0	2119.4	2007.3	1943.6	1864.7	1826.5	1818.8	1798.4	1813.7
5°	2478.6	2343.6	2083.8	1913.1	1798.4	1742.4	1714.4	1704.2	1701.6	1696.6	1696.6
7.5°	2537.2	2330.8	1992.0	1818.8	1745.0	1727.1	1734.8	1750.0	1752.6	1757.7	1755.1
10°	2608.5	2333.4	1941.1	1795.9	1760.2	1762.8	1788.3	1808.6	1818.8	1826.5	1823.9
12.5°	2707.9	2364.0	1933.5	1811.2	1795.9	1806.1	1831.6	1851.9	1862.1	1864.7	1864.7
15°	2837.8	2427.6	1951.3	1844.3	1831.6	1839.2	1854.5	1862.1	1864.7	1862.1	1862.1
17.5°	2980.4	2504.1	1976.8	1864.7	1844.3	1836.7	1831.6	1823.9	1808.6	1798.4	1798.4
20°	3118.0	2572.8	1989.5	1862.1	1826.5	1795.9	1765.3	1727.1	1701.6	1681.3	1681.3
22.5°	3255.5	2636.5	1989.5	1834.1	1778.1	1719.5	1655.8	1594.7	1556.4	1531.0	1531.0
25°	3400.7	2697.7	1974.2	1785.7	1701.6	1617.6	1531.0	1454.5	1416.3	1390.9	1385.8
27.5°	3523.0	2733.3	1933.5	1716.9	1607.4	1500.4	1401.1	1322.1	1294.1	1271.1	1271.1
30°	3652.9	2756.3	1857.0	1627.8	1500.4	1378.1	1276.2	1212.5	1182.0	1148.9	1146.3
32.5°	3798.1	2771.5	1770.4	1533.5	1390.9	1260.9	1174.3	1123.4	1057.2	1021.5	1016.4
35°	3966.3	2791.9	1678.7	1426.5	1281.3	1164.1	1113.2	1029.1	965.5	934.9	932.3
37.5°	4144.6	2807.2	1579.4	1332.3	1182.0	1100.5	1049.5	950.2	894.1	848.3	843.2
40°	4333.1	2807.2	1477.5	1240.6	1103.0	1072.4	975.6	886.5	792.2	769.3	764.2
42.5°	4542.0	2802.1	1375.6	1151.4	1029.1	1008.8	932.3	838.1	789.7	769.3	764.2
45°	4763.6	2784.3	1278.8	1049.5	952.7	912.0	853.4	827.9	807.5	807.5	807.5
47.5°	5015.8	2769.0	1169.2	957.8	896.7	850.8	807.5	792.2	789.7	797.3	805.0
50°	5339.3	2763.9	1077.5	891.6	853.4	799.9	794.8	782.0	784.6	784.6	784.6
52.5°	5731.6	2718.0	990.9	843.2	810.1	746.4	761.7	774.4	779.5	776.9	774.4
55°	6019.4	2636.5	917.1	810.1	779.5	726.0	746.4	766.8	771.9	764.2	764.2
57.5°	6279.3	2521.9	858.5	784.6	759.1	713.3	736.2	756.6	751.5	748.9	746.4
60°	6577.3	2412.4	812.6	771.9	738.7	708.2	728.5	741.3	733.6	728.5	726.0
62.5°	6900.8	2305.4	779.5	771.9	723.5	705.6	720.9	726.0	710.7	705.6	705.6
65°	7051.1	2137.2	743.8	771.9	715.8	700.5	705.6	700.5	685.2	685.2	682.7
67.5°	6804.0	1859.6	698.0	761.7	726.0	692.9	682.7	675.1	657.2	657.2	652.1
70°	6121.3	1528.4	631.7	728.5	728.5	690.3	652.1	634.3	613.9	621.6	611.4
72.5°	5229.8	1212.5	550.2	672.5	713.3	687.8	619.0	591.0	573.2	580.8	565.5
75°	4236.3	940.0	453.4	583.3	675.1	675.1	585.9	547.7	527.3	527.3	509.5
77.5°	2700.2	695.4	369.4	484.0	606.3	657.2	557.9	499.3	468.7	461.1	448.3
80°	1337.4	489.1	303.1	384.7	517.1	616.5	537.5	443.2	399.9	384.7	361.7
82.5°	710.7	338.8	242.0	300.6	412.7	555.3	512.0	382.1	328.6	305.7	280.2
85°	318.4	208.9	193.6	229.3	313.3	456.0	461.1	313.3	252.2	300.6	221.6
87.5°	117.2	94.3	94.3	117.2	180.9	191.1	326.1	201.2	160.5	109.5	86.6
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)