

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: P236866

Luminaire Tested: **ARCH-L-AF72-130-D-U-T2R-7050**

Issue Date: 2/14/2018

**Test Information**

Test Method: LM-79-08  
Report Number: P236866  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29635)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 2/14/2018  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: ARCH-L-AF72-130-D-U-T2R-7050  
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE  
(3) 70 CRI, 5000K, 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: 17902 lumens  
Efficiency: N/A  
Efficacy: 134.6 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

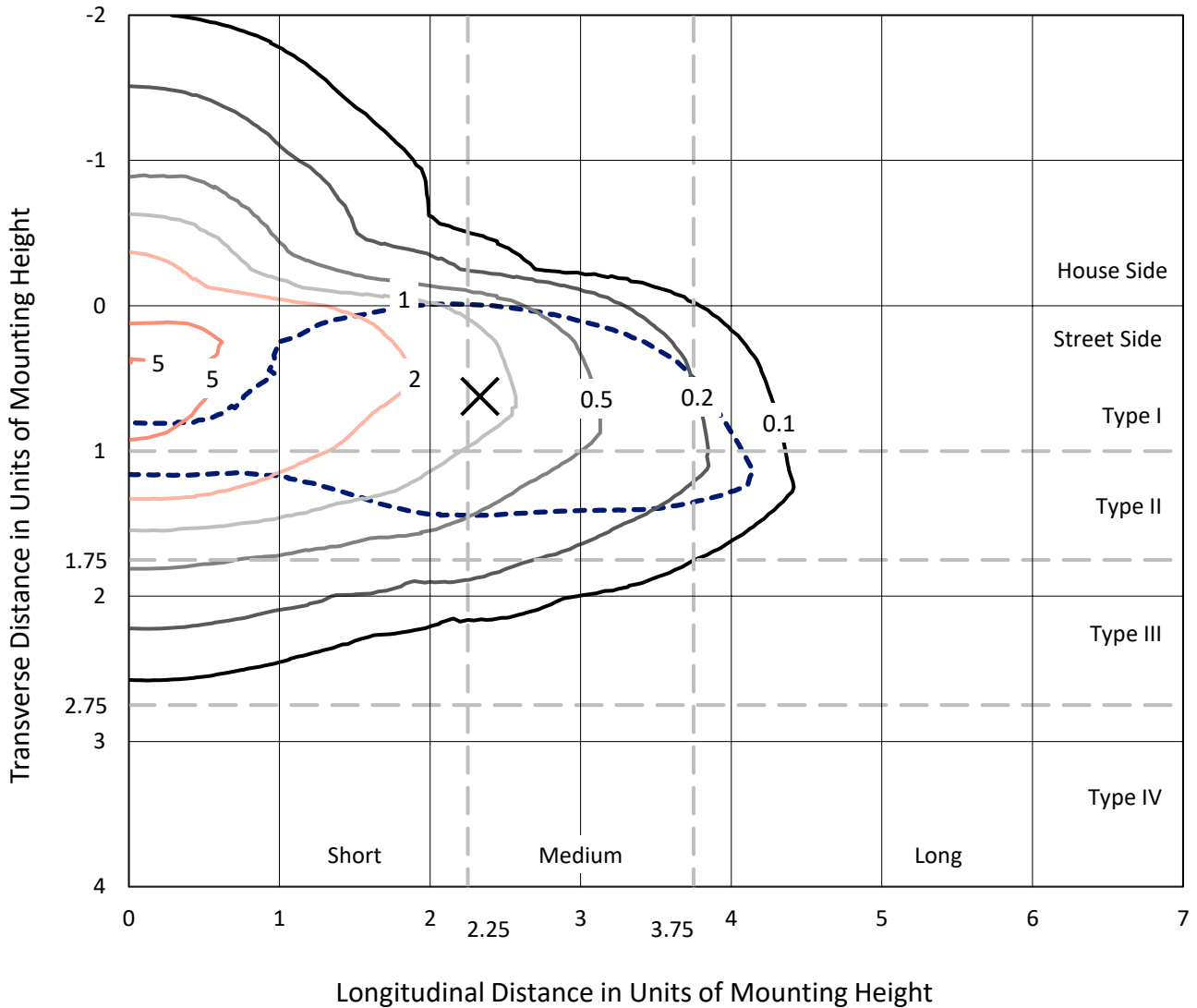
Input Watts (W): 133  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P236866  
 CATALOG NUMBER: ARCH-L-AF72-130-D-U-T2R-7050

### Iso-Footcandle Lines of Horizontal Illumination

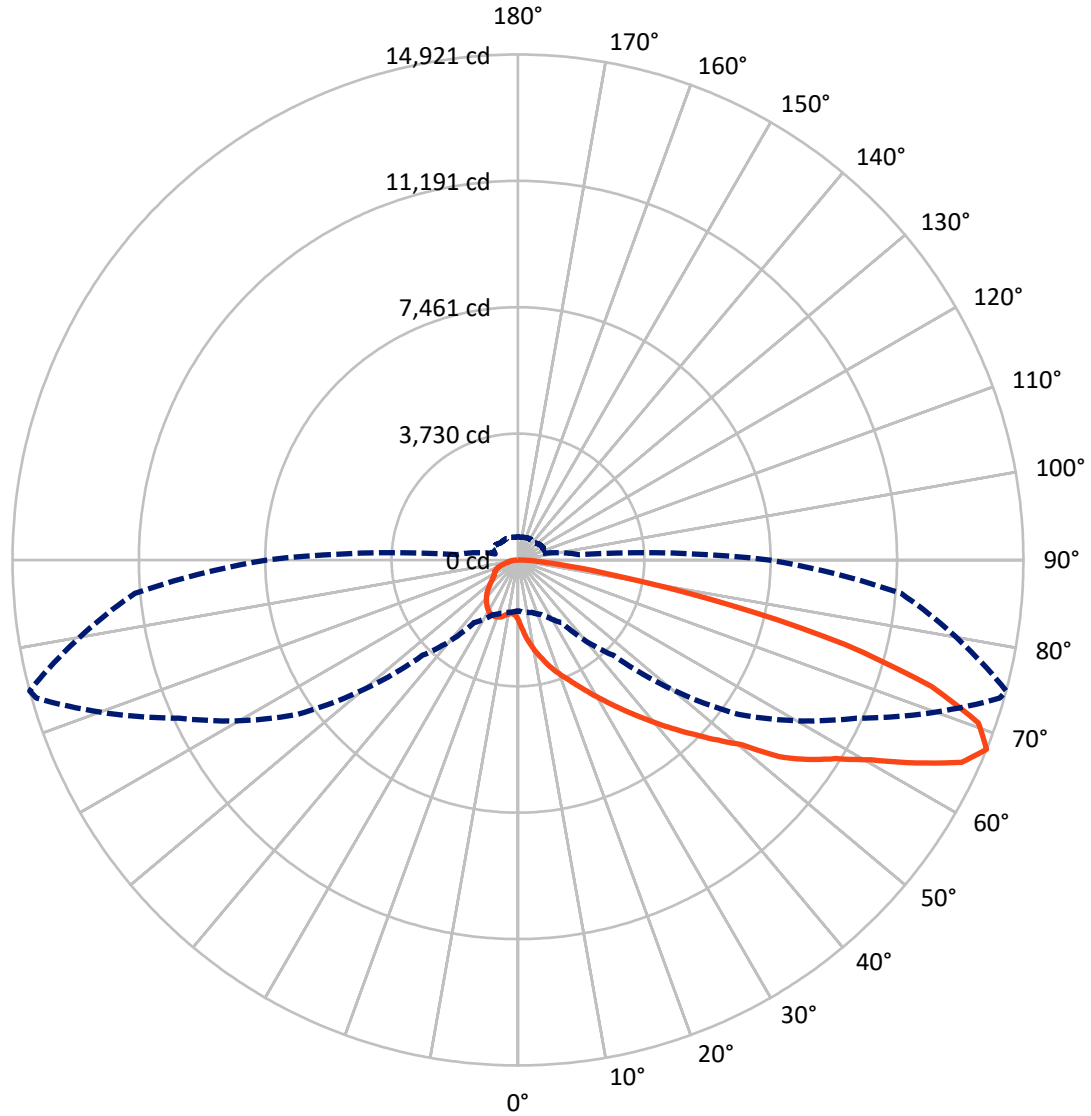
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.9 fc  
 Type II - Medium - N/A

REPORT NUMBER: P236866  
CATALOG NUMBER: ARCH-L-AF72-130-D-U-T2R-7050

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P236866  
 CATALOG NUMBER: ARCH-L-AF72-130-D-U-T2R-7050

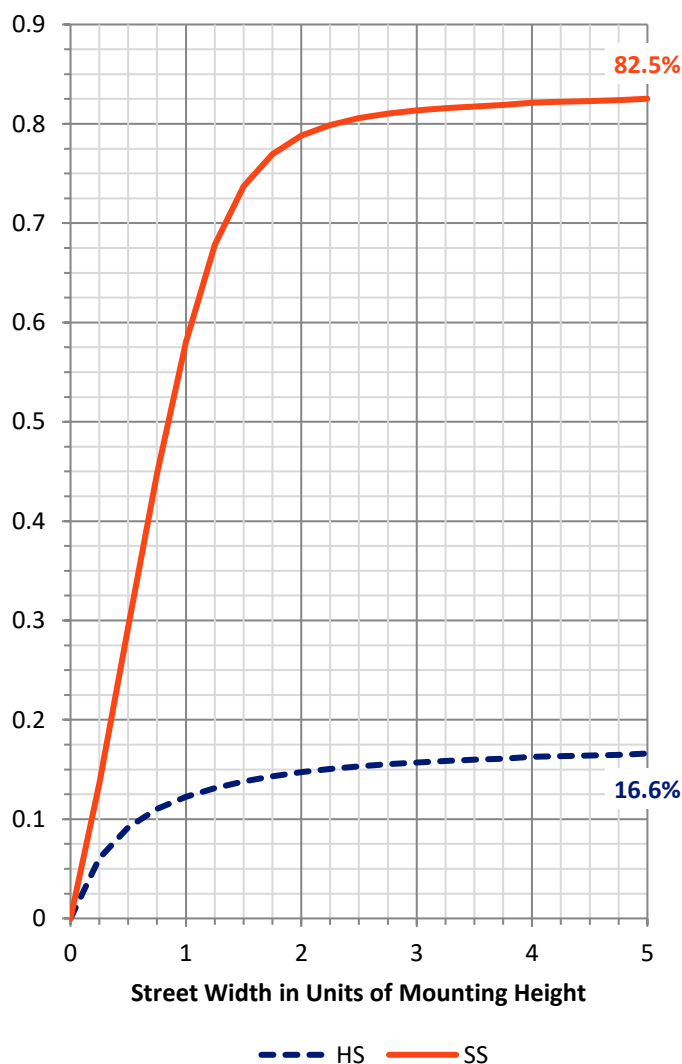
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3057.0	0.0	3057.0
	% Fixture	17.1	0.0	17.1
<b>Street Side</b>	Lumens	14845.0	0.0	14845.0
	% Fixture	82.9	0.0	82.9
<b>Total</b>	Lumens	17902.0	0.0	17902.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	208.4	1.2
10°-20°	753.1	4.2
20°-30°	1373.6	7.7
30°-40°	2254.7	12.6
40°-50°	3260.6	18.2
50°-60°	3842.6	21.5
60°-70°	3734.1	20.9
70°-80°	2075.7	11.6
80°-90°	399.1	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°	17902.0	100.0
0°-180°	17902.0	100.0

**Coefficient of Utilization**

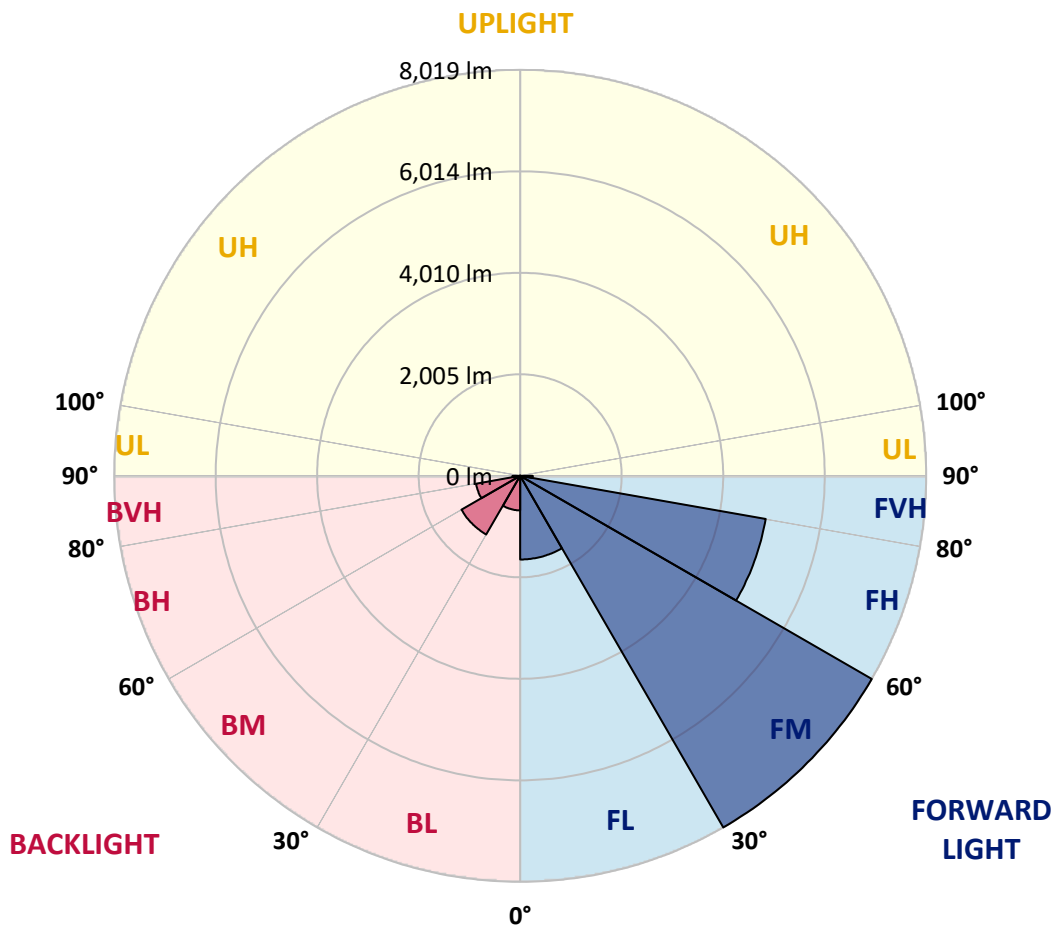


REPORT NUMBER: P236866  
 CATALOG NUMBER: ARCH-L-AF72-130-D-U-T2R-7050

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1652.8	9.2			
FM (30°-60°)	8019.1	44.8			
FH (60°-80°)	4924.6	27.5			G2/5000
FVH (80°-90°)	248.4	1.4			G3/500
BL (0°-30°)	682.3	3.8	B2/1000		
BM (30°-60°)	1338.8	7.5	B2/2500		
BH (60°-80°)	885.1	4.9	B2/1000		G2/1000
BVH (80°-90°)	150.7	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: P236866

CATALOG NUMBER: ARCH-L-AF72-130-D-U-T2R-7050

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	1773.9	1773.9	1773.9	1773.9	1773.9	1773.9	1773.9	1773.9	1773.9	1773.9	1773.9
2.5°	2514.9	2522.4	2507.4	2473.7	2425.1	2335.3	2256.7	2118.2	1994.7	1979.7	1848.8
5°	2956.5	2964.0	2945.3	2904.1	2851.7	2754.4	2645.9	2466.3	2267.9	2230.5	1953.5
7.5°	3259.7	3263.4	3240.9	3199.8	3158.6	3061.3	2952.8	2750.7	2507.4	2477.5	2088.3
10°	3517.9	3525.4	3495.4	3469.2	3424.3	3327.0	3214.7	3001.4	2750.7	2709.5	2226.7
12.5°	3757.4	3764.9	3746.2	3723.7	3708.8	3618.9	3495.4	3240.9	2971.5	2926.6	2391.4
15°	3918.3	3925.8	3929.6	3959.5	3978.2	3914.6	3791.1	3514.1	3211.0	3169.8	2586.0
17.5°	3873.4	3892.1	3948.3	4056.8	4172.8	4176.6	4075.5	3783.6	3446.8	3401.9	2784.4
20°	3742.4	3757.4	3824.8	3989.4	4217.7	4348.7	4341.2	4056.8	3667.6	3618.9	2967.7
22.5°	3851.0	3869.7	3869.7	3970.7	4195.3	4438.5	4535.8	4326.3	3888.4	3843.5	3151.1
25°	4315.0	4326.3	4247.7	4206.5	4288.8	4513.4	4696.8	4618.2	4157.8	4105.4	3349.5
27.5°	4962.5	4943.8	4846.4	4681.8	4592.0	4651.8	4839.0	4895.1	4468.5	4404.8	3555.3
30°	5606.2	5594.9	5482.7	5261.9	5059.8	4932.5	4996.1	5142.1	4805.3	4730.4	3753.7
32.5°	6208.7	6190.0	6066.5	5808.3	5580.0	5344.2	5220.7	5366.6	5164.6	5078.5	3974.5
35°	6762.6	6713.9	6590.4	6321.0	6085.2	5860.6	5557.5	5580.0	5553.8	5464.0	4217.7
37.5°	7211.7	7174.2	7039.5	6788.8	6538.0	6324.7	6006.6	5823.2	5972.9	5886.8	4498.4
40°	7608.4	7567.2	7428.7	7178.0	6946.0	6743.9	6493.1	6118.9	6444.5	6347.2	4812.8
42.5°	7907.8	7877.8	7765.5	7518.5	7294.0	7110.6	6987.1	6493.1	6934.7	6841.2	5157.1
45°	8068.7	8038.7	7978.9	7780.5	7574.7	7432.5	7443.7	6938.5	7447.4	7368.8	5565.0
47.5°	7870.3	7892.8	7945.2	7907.8	7780.5	7713.2	7851.6	7398.8	8020.0	7945.2	6006.6
50°	7338.9	7361.4	7570.9	7829.2	7874.1	7956.4	8218.4	7930.2	8626.3	8566.4	6553.0
52.5°	6032.8	6156.3	6736.4	7353.9	7776.8	8117.3	8626.3	8719.9	9648.0	9648.0	7518.5
55°	4558.3	4666.8	5329.2	6407.0	7398.8	8132.3	8925.7	9255.0	10385.2	10400.2	8023.8
57.5°	3693.8	3761.1	4086.7	5190.8	6605.4	7945.2	9281.2	9715.4	10999.0	11066.4	8675.0
60°	2997.7	3035.1	3248.4	4015.6	5508.9	7440.0	9535.7	10374.0	11874.7	11968.3	9505.8
62.5°	2410.1	2447.6	2589.8	3050.1	4322.5	6493.1	9490.8	11058.9	13042.4	13195.8	10594.8
65°	1923.6	1964.8	2058.3	2342.8	3203.5	5318.0	9030.5	11410.7	14251.2	14400.9	11317.1
67.5°	1500.7	1538.1	1601.8	1788.9	2256.7	3978.2	7941.4	11040.2	14793.8	14921.1	11354.5
70°	1134.0	1152.7	1205.1	1324.8	1613.0	2642.2	6216.2	9797.7	14307.3	14423.3	10606.1
72.5°	879.5	875.7	905.7	965.5	1126.5	1818.8	4120.4	7967.6	12649.4	12769.2	9049.2
75°	718.5	714.8	733.5	752.2	815.9	1220.0	2432.6	5999.1	10209.4	9981.1	6788.8
77.5°	606.3	602.5	621.2	625.0	651.2	842.0	1384.7	3948.3	6811.2	6418.3	3824.8
80°	512.7	509.0	531.4	538.9	557.6	617.5	797.1	2136.9	3420.6	3240.9	1826.3
82.5°	385.5	400.4	441.6	460.3	482.8	456.6	494.0	943.1	1586.8	1515.7	793.4
85°	187.1	220.8	333.1	370.5	396.7	288.2	336.8	445.3	714.8	681.1	321.8
87.5°	63.6	56.1	198.3	235.8	258.2	131.0	187.1	247.0	295.7	269.5	101.0
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: P236866

CATALOG NUMBER: ARCH-L-AF72-130-D-U-T2R-7050

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1773.9	1773.9	1773.9	1773.9	1773.9	1773.9	1773.9	1773.9	1773.9	1773.9	1773.9
2.5°	1792.6	1736.5	1654.2	1590.5	1549.4	1515.7	1500.7	1497.0	1489.5	1485.7	1485.7
5°	1830.0	1729.0	1601.8	1534.4	1515.7	1500.7	1508.2	1511.9	1511.9	1511.9	1511.9
7.5°	1886.2	1744.0	1590.5	1545.6	1541.9	1541.9	1564.3	1575.6	1583.0	1583.0	1583.0
10°	1961.0	1770.2	1609.2	1571.8	1583.0	1590.5	1616.7	1631.7	1639.2	1642.9	1646.7
12.5°	2062.1	1826.3	1646.7	1616.7	1631.7	1635.4	1654.2	1661.6	1669.1	1672.9	1672.9
15°	2196.8	1908.6	1706.5	1669.1	1672.9	1669.1	1669.1	1661.6	1657.9	1657.9	1665.4
17.5°	2335.3	1987.2	1758.9	1706.5	1691.6	1661.6	1639.2	1620.5	1609.2	1601.8	1605.5
20°	2473.7	2058.3	1788.9	1714.0	1672.9	1624.2	1583.0	1556.9	1541.9	1526.9	1534.4
22.5°	2612.2	2125.7	1800.1	1691.6	1631.7	1560.6	1515.7	1474.5	1440.8	1418.4	1422.1
25°	2765.7	2200.5	1800.1	1665.4	1575.6	1500.7	1444.6	1377.2	1328.6	1309.9	1317.3
27.5°	2919.1	2264.2	1781.4	1616.7	1511.9	1437.1	1354.8	1276.2	1246.2	1235.0	1238.7
30°	3072.5	2312.8	1740.2	1556.9	1444.6	1362.2	1253.7	1201.3	1163.9	1134.0	1137.7
32.5°	3226.0	2346.5	1684.1	1482.0	1373.5	1268.7	1178.9	1119.0	1051.6	1014.2	1017.9
35°	3401.9	2372.7	1616.7	1407.2	1294.9	1186.4	1119.0	1021.7	950.6	920.6	913.2
37.5°	3585.2	2391.4	1545.6	1324.8	1216.3	1126.5	1059.1	939.4	872.0	830.8	827.1
40°	3783.6	2398.9	1459.5	1238.7	1141.4	1089.0	980.5	890.7	774.7	748.5	748.5
42.5°	4019.4	2395.2	1373.5	1152.7	1059.1	1003.0	924.4	883.2	782.2	756.0	741.0
45°	4288.8	2395.2	1279.9	1051.6	976.8	894.4	860.8	834.6	767.2	778.4	785.9
47.5°	4595.7	2387.7	1167.6	969.3	909.4	838.3	819.6	763.5	737.3	744.7	752.2
50°	5018.6	2398.9	1066.6	901.9	860.8	800.9	778.4	748.5	737.3	741.0	737.3
52.5°	5606.2	2361.5	969.3	860.8	823.3	744.7	744.7	741.0	744.7	741.0	741.0
55°	5928.0	2279.1	898.2	838.3	797.1	718.5	733.5	741.0	748.5	744.7	744.7
57.5°	6384.6	2223.0	842.0	823.3	782.2	711.1	726.0	741.0	744.7	741.0	741.0
60°	6923.5	2185.6	804.6	827.1	770.9	711.1	729.8	741.0	737.3	733.5	733.5
62.5°	7548.5	2170.6	778.4	838.3	759.7	714.8	729.8	741.0	726.0	722.3	722.3
65°	7784.3	2035.9	744.7	845.8	767.2	714.8	726.0	729.8	711.1	707.3	703.6
67.5°	7421.2	1803.9	696.1	830.8	789.7	714.8	714.8	711.1	688.6	684.9	677.4
70°	6609.1	1497.0	621.2	782.2	804.6	718.5	699.8	681.1	658.7	658.7	643.7
72.5°	5411.6	1178.9	523.9	696.1	793.4	729.8	669.9	643.7	617.5	617.5	602.5
75°	3899.6	879.5	419.2	580.1	744.7	726.0	632.5	598.8	568.8	565.1	546.4
77.5°	2223.0	617.5	340.6	452.8	662.4	707.3	598.8	546.4	512.7	501.5	490.3
80°	1141.4	415.4	276.9	355.5	550.1	654.9	572.6	486.5	449.1	430.4	411.7
82.5°	542.7	276.9	213.3	262.0	415.4	572.6	538.9	419.2	378.0	355.5	333.1
85°	243.3	164.7	142.2	168.4	295.7	445.3	475.3	344.3	295.7	370.5	273.2
87.5°	78.6	74.8	74.8	78.6	142.2	194.6	348.0	254.5	235.8	194.6	164.7
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)