

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: P572822

Luminaire Tested: **ARCH-S-PA2-120-730-U-T4W**

Issue Date: 10/13/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P572822  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2108-332-19)  
Test Lab: INNOVATION CENTER  
Issue Date: 10/13/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: ARCH-S-PA2-120-730-U-T4W  
Description: ARCHEON ROADWAY AND AREA LUMINAIRE  
(2) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 14187 lumens  
Efficiency: N/A  
Efficacy: 115.9 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G3

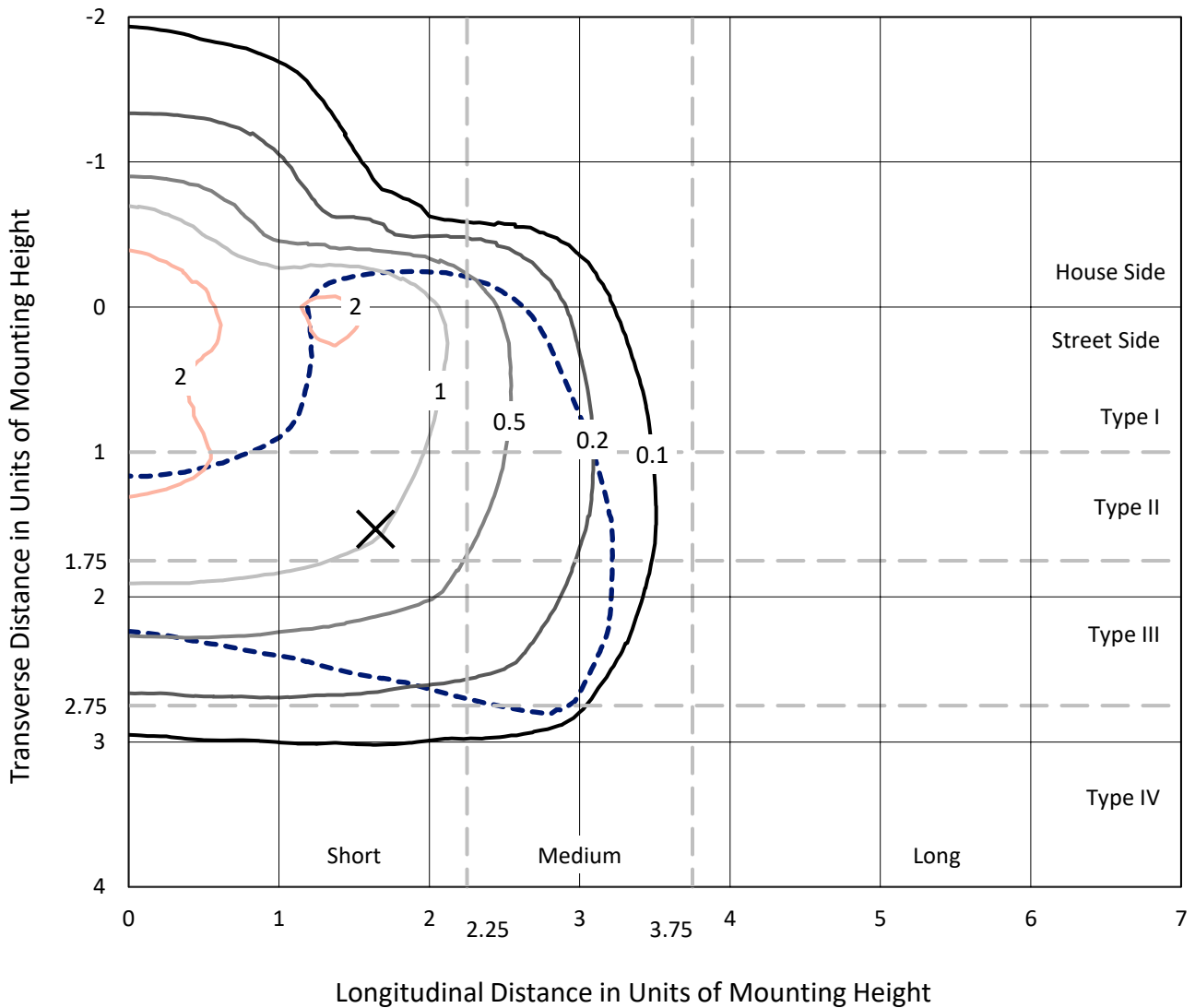
Input Watts (W): 122.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

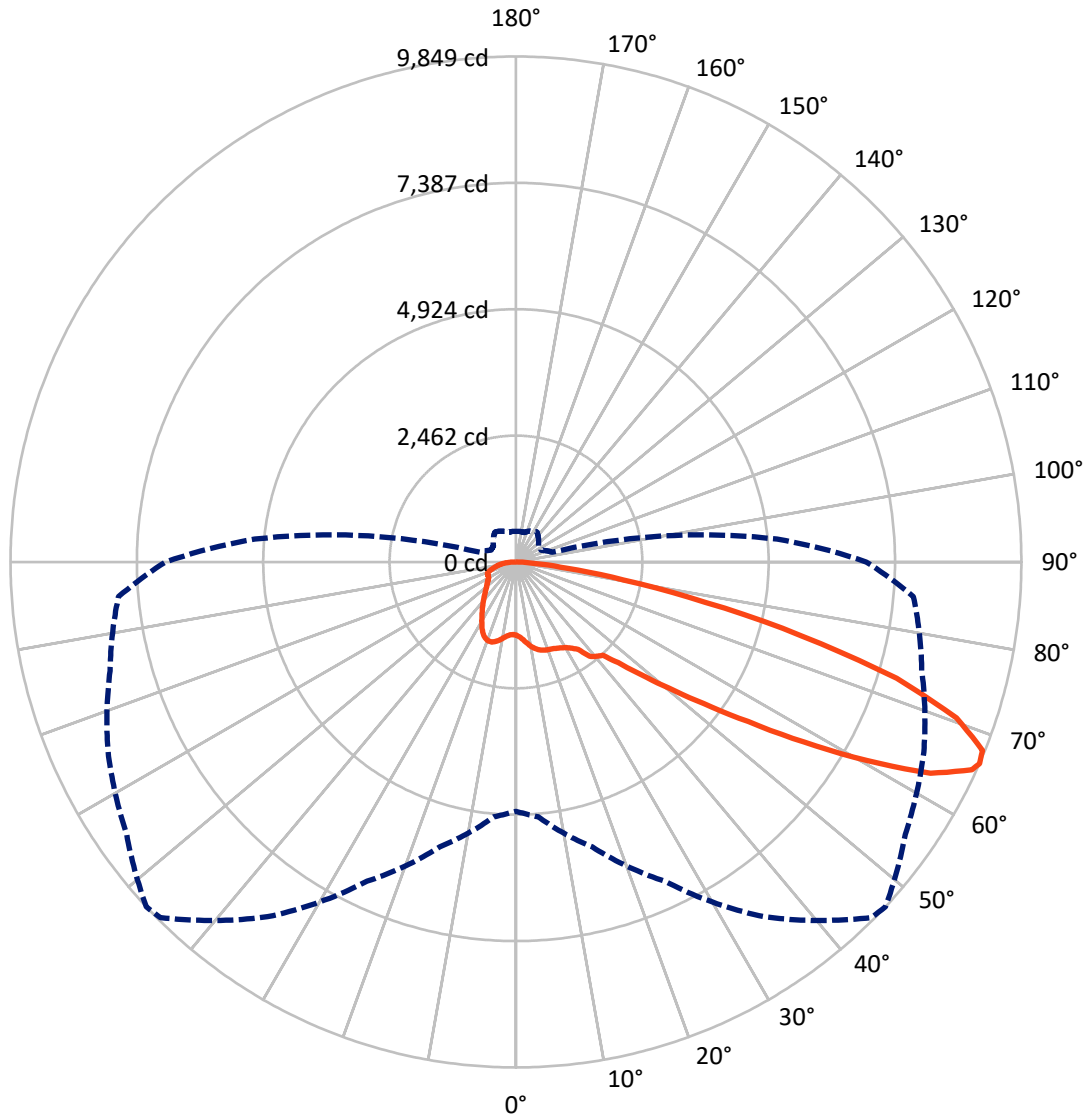
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.8 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral      - - - Horizontal Cone Through 66-Deg Vertical

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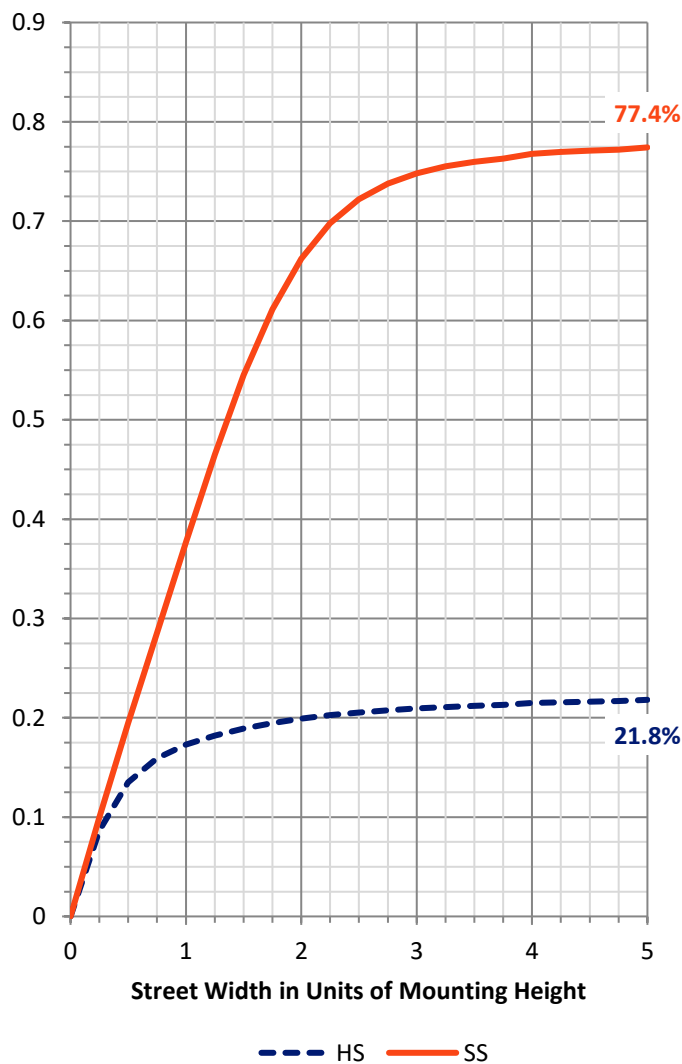
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3154.2	0.0	3154.2
	% Fixture	22.2	0.0	22.2
<b>Street Side</b>	Lumens	11032.8	0.0	11032.8
	% Fixture	77.8	0.0	77.8
<b>Total</b>	Lumens	14187.0	0.0	14187.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	145.1	1.0
10°-20°	476.2	3.4
20°-30°	794.2	5.6
30°-40°	1153.3	8.1
40°-50°	1763.8	12.4
50°-60°	3334.0	23.5
60°-70°	4308.0	30.4
70°-80°	1936.4	13.6
80°-90°	276.2	1.9
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°	14187.0	100.0
0°-180°	14187.0	100.0

**Coefficient of Utilization**



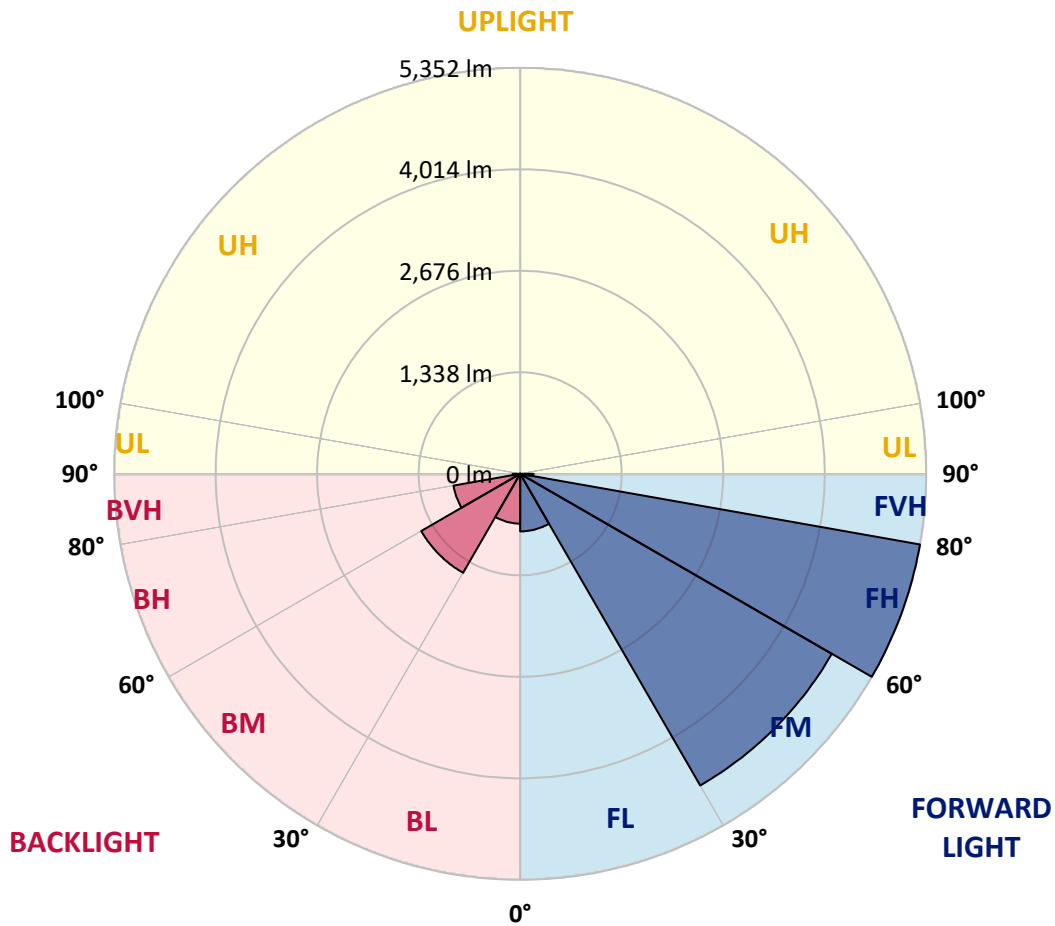
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	759.0	5.4			
FM (30°-60°)	4744.4	33.4			
FH (60°-80°)	5351.9	37.7			G3/7500
FVH (80°-90°)	177.5	1.3			G2/225
BL (0°-30°)	656.4	4.6	B2/1000		
BM (30°-60°)	1506.6	10.6	B2/2500		
BH (60°-80°)	892.5	6.3	B2/1000		G2/1000
BVH (80°-90°)	98.7	0.7			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G3**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	1426.2	1426.2	1426.2	1426.2	1426.2	1426.2	1426.2	1426.2	1426.2	1426.2	1426.2
2.5°	1507.2	1495.6	1487.9	1484.0	1476.3	1460.9	1460.9	1457.1	1441.6	1433.9	1430.1
5°	1626.7	1619.0	1599.7	1584.3	1561.1	1530.3	1526.4	1503.3	1472.5	1449.4	1433.9
7.5°	1742.3	1734.6	1715.3	1692.2	1653.7	1615.1	1603.5	1572.7	1522.6	1487.9	1460.9
10°	1842.5	1831.0	1807.8	1777.0	1734.6	1692.2	1680.6	1645.9	1595.8	1545.7	1499.5
12.5°	1908.1	1900.3	1873.4	1834.8	1788.6	1746.2	1738.5	1707.6	1657.5	1603.5	1545.7
15°	1938.9	1935.0	1904.2	1865.7	1819.4	1784.7	1780.9	1753.9	1711.5	1657.5	1592.0
17.5°	1931.2	1927.3	1900.3	1861.8	1827.1	1807.8	1807.8	1788.6	1753.9	1707.6	1638.2
20°	1892.6	1892.6	1869.5	1842.5	1823.3	1819.4	1819.4	1815.5	1792.4	1753.9	1684.5
22.5°	1854.1	1854.1	1838.7	1819.4	1815.5	1831.0	1834.8	1842.5	1834.8	1804.0	1742.3
25°	1861.8	1857.9	1838.7	1815.5	1819.4	1854.1	1861.8	1881.1	1877.2	1854.1	1800.1
27.5°	1946.6	1942.7	1892.6	1846.4	1842.5	1884.9	1892.6	1919.6	1919.6	1900.3	1865.7
30°	2158.6	2166.3	2073.8	1958.2	1900.3	1927.3	1935.0	1965.9	1981.3	1989.0	1962.0
32.5°	2482.4	2470.8	2332.1	2143.2	2016.0	1989.0	2000.6	2027.6	2081.5	2096.9	2031.4
35°	2810.0	2817.8	2682.8	2443.9	2201.0	2100.8	2093.1	2131.6	2212.6	2143.2	2027.6
37.5°	3114.6	3103.0	2945.0	2686.7	2443.9	2328.2	2332.1	2316.7	2247.3	2108.5	2054.5
40°	3446.1	3415.2	3284.2	2952.7	2644.3	2451.6	2416.9	2285.8	2228.0	2170.2	2162.5
42.5°	3773.7	3777.6	3669.6	3342.0	2883.3	2540.2	2486.3	2351.3	2389.9	2378.3	2370.6
45°	4186.2	4186.2	4078.2	3773.7	3261.0	2871.7	2798.5	2636.6	2698.3	2744.5	2837.0
47.5°	4563.9	4540.8	4510.0	4251.7	3754.4	3303.4	3272.6	3087.6	3249.5	3392.1	3581.0
50°	4964.8	4934.0	4914.7	4756.7	4402.0	3958.7	3866.2	3673.5	4028.1	4294.1	4644.9
52.5°	5589.3	5535.3	5435.1	5346.4	5207.6	4695.0	4579.3	4436.7	4895.4	5230.8	5947.7
55°	6152.0	6105.8	6009.4	6074.9	6055.7	5589.3	5489.0	5354.1	5851.4	6260.0	7081.0
57.5°	6360.2	6364.0	6495.1	6845.9	7030.9	6761.1	6618.5	6483.5	6903.7	7092.6	7832.7
60°	6456.6	6445.0	6784.2	7354.7	7956.0	8037.0	7855.8	7578.3	7736.3	7747.9	8468.7
62.5°	6248.4	6279.2	6745.7	7566.7	8511.1	9093.1	9066.2	8580.5	8434.0	8272.1	8638.3
65°	5458.2	5500.6	6186.7	7188.9	8599.8	9733.0	9760.0	9193.4	8784.8	8333.8	8156.5
66°	4856.9	4984.1	5747.3	6861.3	8437.9	9798.6	9848.7	9258.9	8769.4	8187.3	7774.9
67.5°	4074.4	4066.7	4918.5	6140.5	7986.9	9740.7	9806.3	9166.4	8561.2	7755.6	7011.6
70°	2494.0	2571.1	3303.4	4583.2	6610.7	9019.9	9108.6	8514.9	7663.1	6568.3	5184.5
72.5°	1279.7	1407.0	1888.8	2979.7	4799.1	7454.9	7755.6	7150.4	6263.8	4752.8	3164.7
75°	678.4	670.7	890.4	1615.1	3064.5	5593.1	5751.2	5361.8	4328.8	2833.2	1611.2
77.5°	362.3	381.6	466.4	828.8	1684.5	3573.3	3773.7	3457.6	2467.0	1449.4	770.9
80°	246.7	258.3	316.1	466.4	913.6	1938.9	2123.9	1842.5	1291.3	686.1	362.3
82.5°	158.0	165.8	215.9	289.1	547.4	940.5	990.6	944.4	632.2	389.3	219.7
85°	96.4	100.2	131.1	185.0	343.1	381.6	397.0	400.9	354.6	254.4	119.5
87.5°	46.3	50.1	73.2	92.5	161.9	138.8	127.2	131.1	196.6	150.3	54.0
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°	1426.2	1426.2	1426.2	1426.2	1426.2	1426.2	1426.2	1426.2	1426.2	1426.2	1426.2
2.5°	1426.2	1422.4	1414.7	1410.8	1414.7	1414.7	1414.7	1418.5	1426.2	1426.2	1430.1
5°	1426.2	1418.5	1410.8	1410.8	1418.5	1426.2	1433.9	1449.4	1457.1	1460.9	1460.9
7.5°	1445.5	1437.8	1430.1	1430.1	1441.6	1457.1	1472.5	1491.8	1511.0	1526.4	1526.4
10°	1484.0	1472.5	1464.8	1468.6	1487.9	1507.2	1526.4	1549.6	1568.8	1588.1	1588.1
12.5°	1526.4	1514.9	1503.3	1511.0	1538.0	1561.1	1580.4	1592.0	1611.2	1626.7	1626.7
15°	1568.8	1549.6	1545.7	1561.1	1588.1	1603.5	1611.2	1611.2	1619.0	1634.4	1634.4
17.5°	1615.1	1595.8	1592.0	1607.4	1630.5	1630.5	1615.1	1603.5	1599.7	1611.2	1615.1
20°	1661.4	1642.1	1642.1	1653.7	1649.8	1622.8	1595.8	1576.6	1561.1	1572.7	1576.6
22.5°	1719.2	1699.9	1692.2	1676.8	1642.1	1588.1	1545.7	1522.6	1511.0	1518.7	1526.4
25°	1777.0	1761.6	1742.3	1688.3	1607.4	1522.6	1468.6	1449.4	1453.2	1468.6	1476.3
27.5°	1850.2	1842.5	1796.3	1680.6	1545.7	1430.1	1376.1	1372.3	1387.7	1410.8	1422.4
30°	1938.9	1927.3	1846.4	1657.5	1460.9	1322.1	1283.6	1291.3	1314.4	1333.7	1345.3
32.5°	2000.6	1992.9	1869.5	1603.5	1356.8	1225.8	1194.9	1194.9	1206.5	1233.5	1245.1
35°	2019.8	2050.7	1884.9	1522.6	1233.5	1141.0	1110.1	1090.9	1090.9	1114.0	1121.7
37.5°	2085.4	2154.8	1892.6	1414.7	1133.3	1063.9	1025.3	990.6	979.1	975.2	975.2
40°	2235.7	2316.7	1888.8	1275.9	1036.9	986.8	940.5	902.0	871.2	828.8	832.6
42.5°	2497.8	2559.5	1877.2	1129.4	952.1	917.4	871.2	824.9	774.8	728.5	724.7
45°	3002.8	2910.3	1846.4	1002.2	875.0	855.7	813.3	759.4	697.7	655.3	655.3
47.5°	3800.7	3546.3	1827.1	882.7	805.6	801.8	763.2	705.4	643.7	612.9	609.0
50°	4895.4	4425.2	1857.9	797.9	743.9	755.5	724.7	670.7	620.6	593.6	589.8
52.5°	6152.0	5369.5	1892.6	743.9	697.7	720.8	705.4	655.3	605.2	582.1	578.2
55°	7123.4	6136.6	1842.5	693.8	651.4	686.1	686.1	639.9	597.5	574.3	574.3
57.5°	7805.7	6445.0	1669.1	647.6	612.9	655.3	666.9	632.2	593.6	585.9	585.9
60°	8098.6	6429.6	1364.6	605.2	585.9	624.5	655.3	624.5	601.3	620.6	624.5
62.5°	7940.6	6094.2	1060.0	574.3	566.6	616.7	666.9	655.3	628.3	643.7	651.4
65°	7227.5	5504.5	797.9	547.4	543.5	620.6	697.7	674.6	609.0	612.9	616.7
66°	6826.6	5107.4	732.4	539.7	535.8	624.5	713.1	666.9	593.6	601.3	597.5
67.5°	5970.9	4483.0	643.7	524.2	520.4	624.5	732.4	651.4	574.3	585.9	574.3
70°	4378.9	3172.4	551.2	505.0	497.3	612.9	728.5	620.6	531.9	524.2	505.0
72.5°	2540.2	1919.6	489.5	481.8	462.6	539.7	682.3	570.5	485.7	462.6	443.3
75°	1248.9	975.2	435.6	454.9	404.7	474.1	616.7	528.1	447.1	416.3	404.7
77.5°	574.3	493.4	393.2	416.3	358.5	408.6	562.8	481.8	397.0	350.8	339.2
80°	312.2	308.4	331.5	346.9	300.7	358.5	497.3	420.2	335.4	285.2	269.8
82.5°	192.7	196.6	242.8	266.0	235.1	312.2	439.4	350.8	254.4	200.4	204.3
85°	100.2	111.8	161.9	177.3	154.2	231.3	331.5	235.1	142.6	104.1	104.1
87.5°	34.7	46.3	80.9	96.4	84.8	138.8	208.2	111.8	30.8	0.0	0.0
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)