

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: P572903

Luminaire Tested: **ARCH-S-PA2-130-730-U-T4W**

Issue Date: 10/13/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P572903  
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-PA2-130-730-U-T4W  
Description: ARCHEON ROADWAY AND AREA LUMINAIRE  
(2) 70 CRI, 3000K, 1295mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 14712 lumens  
Efficiency: N/A  
Efficacy: 111.7 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G3

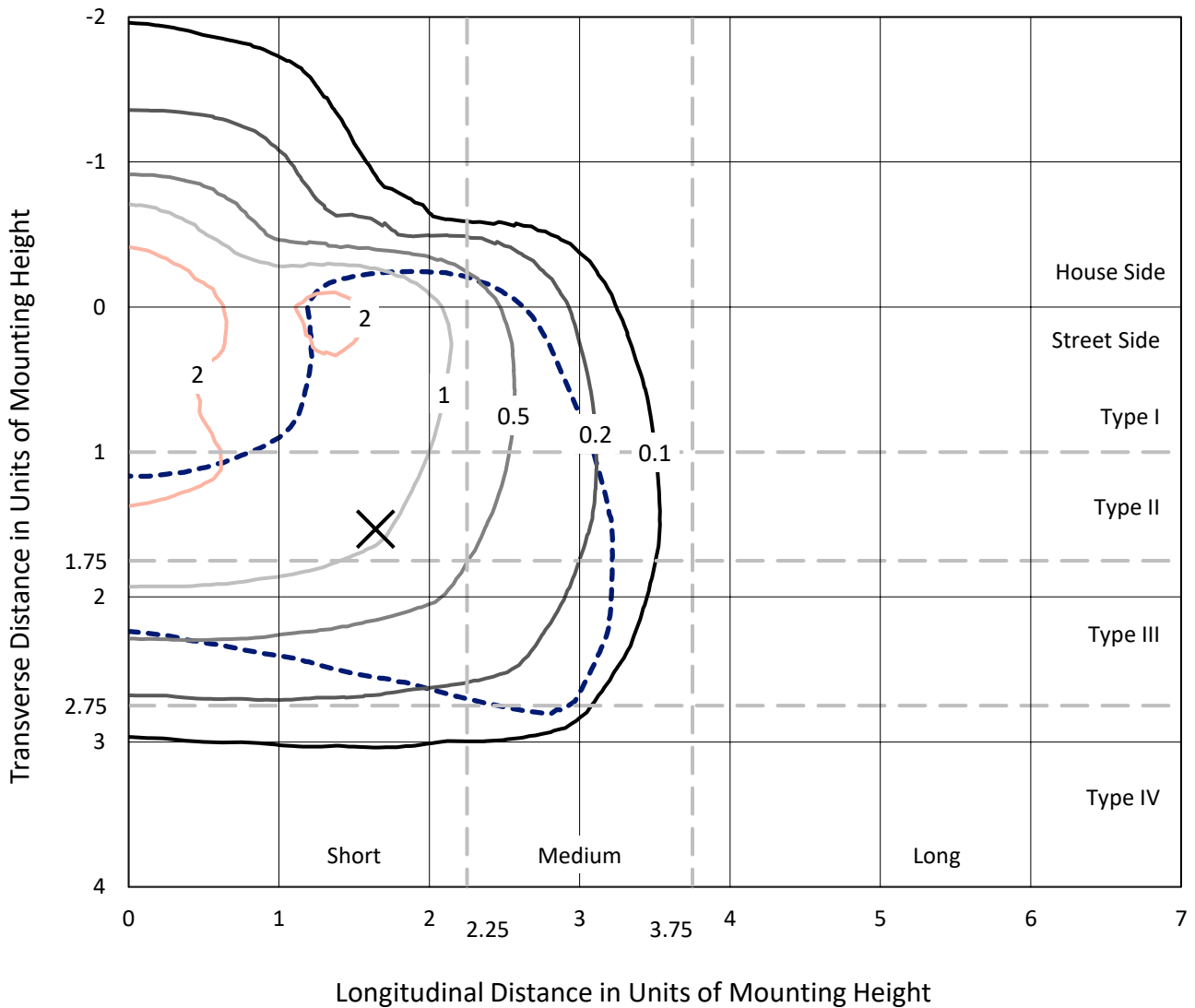
Input Watts (W): 131.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

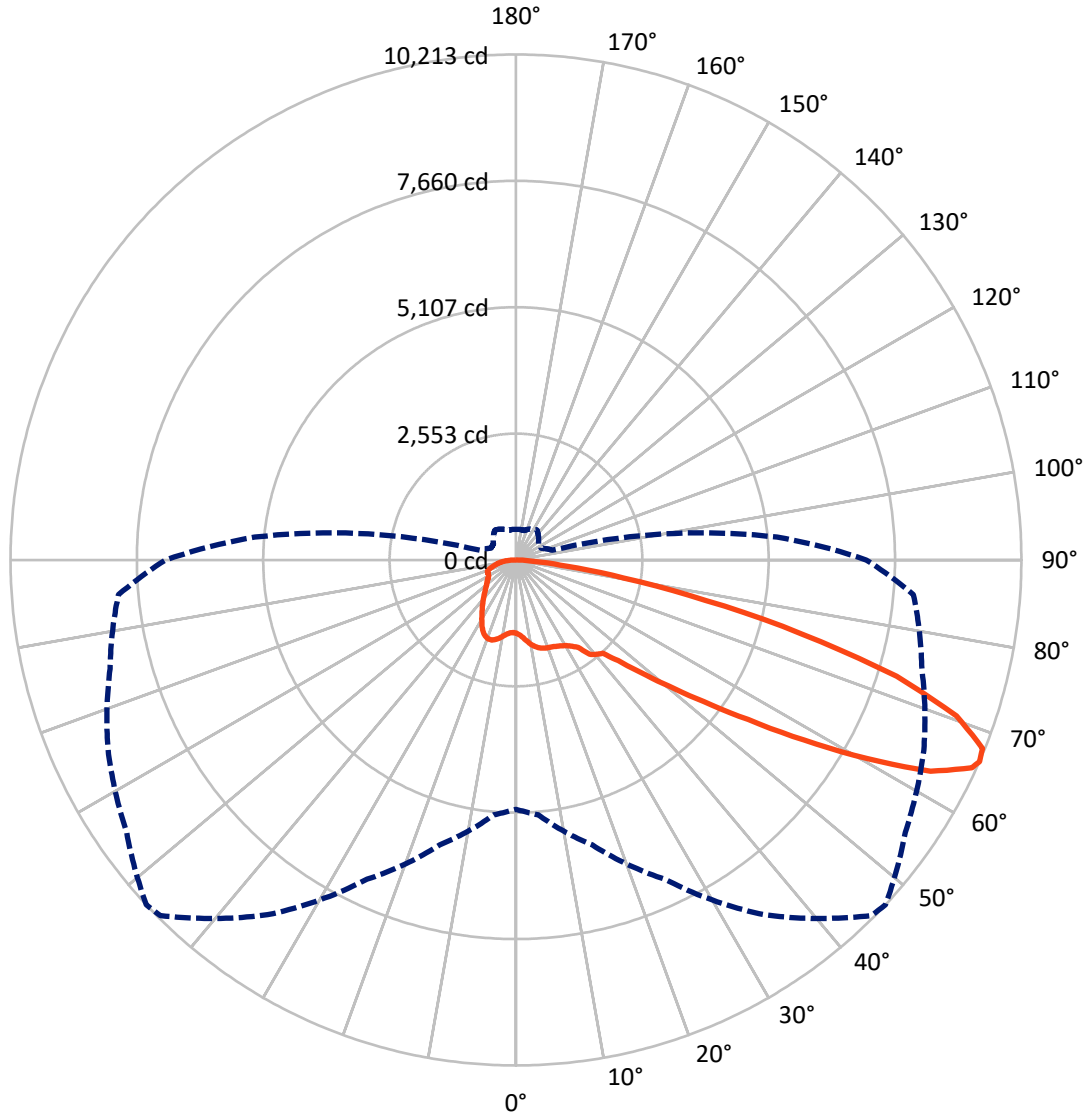
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.9 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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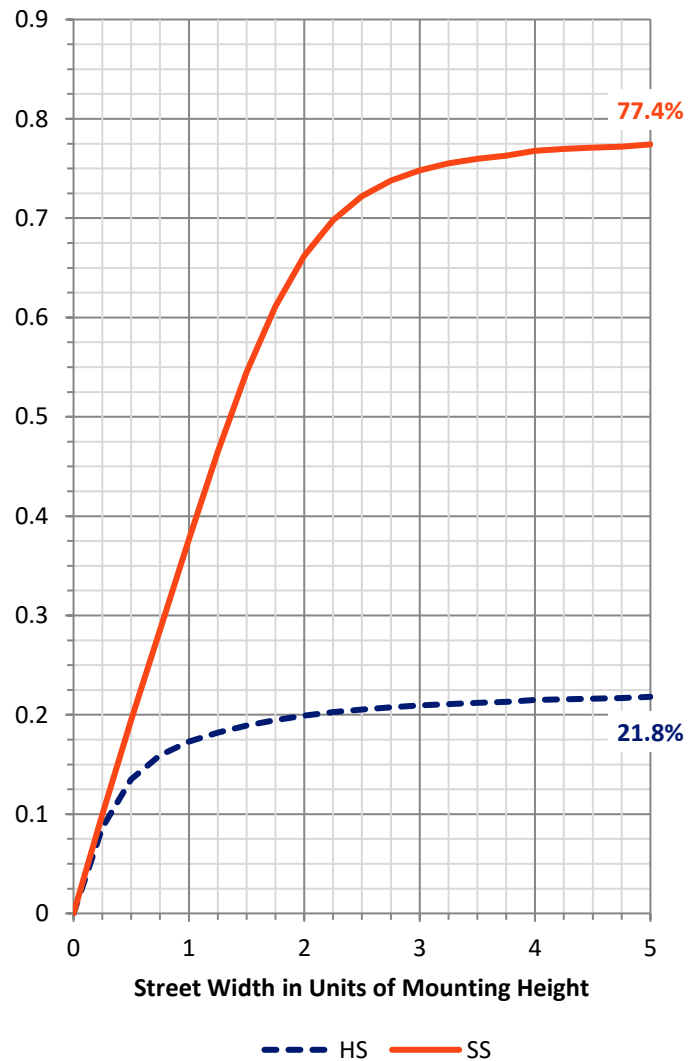
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3270.9	0.0	3270.9
	% Fixture	22.2	0.0	22.2
<b>Street Side</b>	Lumens	11441.1	0.0	11441.1
	% Fixture	77.8	0.0	77.8
<b>Total</b>	Lumens	14712.0	0.0	14712.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	150.5	1.0
10°-20°	493.8	3.4
20°-30°	823.5	5.6
30°-40°	1196.0	8.1
40°-50°	1829.0	12.4
50°-60°	3457.3	23.5
60°-70°	4467.4	30.4
70°-80°	2008.1	13.6
80°-90°	286.4	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°	14712.0	100.0
0°-180°	14712.0	100.0

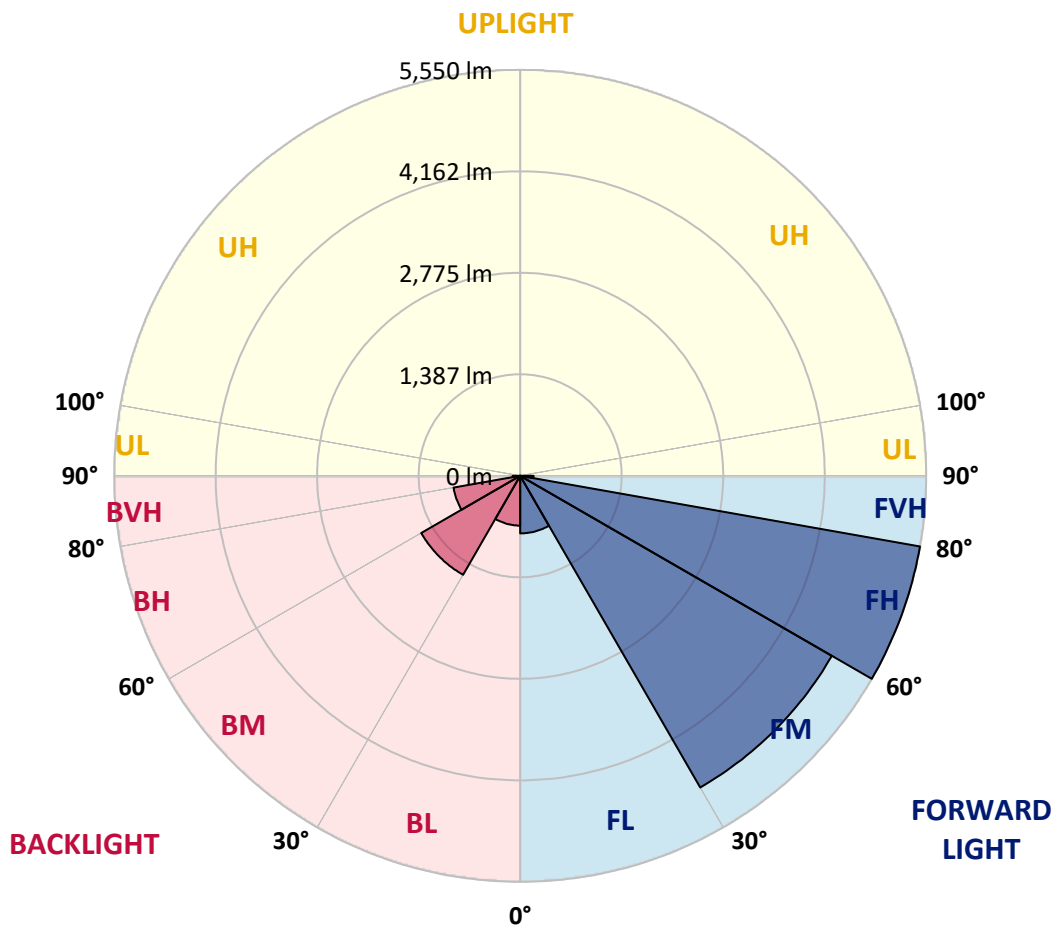


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	787.1	5.4			
FM (30°-60°)	4920.0	33.4			
FH (60°-80°)	5549.9	37.7			G3/7500
FVH (80°-90°)	184.0	1.3			G2/225
BL (0°-30°)	680.7	4.6	B2/1000		
BM (30°-60°)	1562.3	10.6	B2/2500		
BH (60°-80°)	925.5	6.3	B2/1000		G2/1000
BVH (80°-90°)	102.4	0.7			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 III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	1479.0	1479.0	1479.0	1479.0	1479.0	1479.0	1479.0	1479.0	1479.0	1479.0	1479.0
2.5°	1562.9	1551.0	1543.0	1539.0	1531.0	1515.0	1515.0	1511.0	1495.0	1487.0	1483.0
5°	1686.9	1678.9	1658.9	1642.9	1618.9	1586.9	1582.9	1558.9	1527.0	1503.0	1487.0
7.5°	1806.8	1798.8	1778.8	1754.8	1714.8	1674.9	1662.9	1630.9	1578.9	1543.0	1515.0
10°	1910.7	1898.7	1874.7	1842.8	1798.8	1754.8	1742.8	1706.8	1654.9	1602.9	1555.0
12.5°	1978.7	1970.7	1942.7	1902.7	1854.8	1810.8	1802.8	1770.8	1718.8	1662.9	1602.9
15°	2010.6	2006.6	1974.7	1934.7	1886.7	1850.8	1846.8	1818.8	1774.8	1718.8	1650.9
17.5°	2002.7	1998.7	1970.7	1930.7	1894.7	1874.7	1874.7	1854.8	1818.8	1770.8	1698.9
20°	1962.7	1962.7	1938.7	1910.7	1890.7	1886.7	1886.7	1882.7	1858.7	1818.8	1746.8
22.5°	1922.7	1922.7	1906.7	1886.7	1882.7	1898.7	1902.7	1910.7	1902.7	1870.7	1806.8
25°	1930.7	1926.7	1906.7	1882.7	1886.7	1922.7	1930.7	1950.7	1946.7	1922.7	1866.7
27.5°	2018.6	2014.6	1962.7	1914.7	1910.7	1954.7	1962.7	1990.7	1990.7	1970.7	1934.7
30°	2238.5	2246.5	2150.6	2030.6	1970.7	1998.7	2006.6	2038.6	2054.6	2062.6	2034.6
32.5°	2574.3	2562.3	2418.4	2222.5	2090.6	2062.6	2074.6	2102.6	2158.5	2174.5	2106.6
35°	2914.0	2922.0	2782.1	2534.3	2282.5	2178.5	2170.5	2210.5	2294.5	2222.5	2102.6
37.5°	3229.8	3217.8	3053.9	2786.1	2534.3	2414.4	2418.4	2402.4	2330.4	2186.5	2130.6
40°	3573.6	3541.6	3405.7	3061.9	2742.2	2542.3	2506.3	2370.4	2310.4	2250.5	2242.5
42.5°	3913.4	3917.4	3805.4	3465.7	2990.0	2634.2	2578.3	2438.4	2478.3	2466.3	2458.3
45°	4341.1	4341.1	4229.2	3913.4	3381.7	2978.0	2902.0	2734.2	2798.1	2846.1	2942.0
47.5°	4732.8	4708.8	4676.8	4409.0	3893.4	3425.7	3393.7	3201.8	3369.7	3517.6	3713.5
50°	5148.5	5116.6	5096.6	4932.7	4564.9	4105.2	4009.3	3809.4	4177.2	4453.0	4816.8
52.5°	5796.1	5740.1	5636.2	5544.3	5400.4	4868.7	4748.8	4600.9	5076.6	5424.3	6167.8
55°	6379.7	6331.7	6231.8	6299.8	6279.8	5796.1	5692.2	5552.3	6067.9	6491.6	7343.1
57.5°	6595.6	6599.6	6735.5	7099.2	7291.1	7011.3	6863.4	6723.5	7159.2	7355.0	8122.5
60°	6695.5	6683.5	7035.3	7626.9	8250.4	8334.4	8146.5	7858.7	8022.6	8034.6	8782.1
62.5°	6479.6	6511.6	6995.3	7846.7	8826.1	9429.6	9401.7	8898.0	8746.1	8578.2	8958.0
65°	5660.2	5704.2	6415.7	7455.0	8918.0	10093.2	10121.2	9533.6	9109.9	8642.2	8458.3
66°	5036.6	5168.5	5960.0	7115.2	8750.1	10161.2	10213.1	9601.5	9093.9	8490.3	8062.6
67.5°	4225.2	4217.2	5100.6	6367.7	8282.4	10101.2	10169.1	9505.6	8878.0	8042.6	7271.1
70°	2586.3	2666.2	3425.7	4752.8	6855.4	9353.7	9445.6	8830.1	7946.6	6811.4	5376.4
72.5°	1327.1	1459.0	1958.7	3089.9	4976.6	7730.8	8042.6	7415.0	6495.6	4928.7	3281.8
75°	703.5	695.5	923.4	1674.9	3177.9	5800.1	5964.0	5560.3	4489.0	2938.0	1670.9
77.5°	375.7	395.7	483.7	859.4	1746.8	3705.5	3913.4	3585.6	2558.3	1503.0	799.5
80°	255.8	267.8	327.8	483.7	947.4	2010.6	2202.5	1910.7	1339.1	711.5	375.7
82.5°	163.9	171.9	223.8	299.8	567.6	975.3	1027.3	979.3	655.6	403.7	227.8
85°	99.9	103.9	135.9	191.9	355.8	395.7	411.7	415.7	367.8	263.8	123.9
87.5°	48.0	52.0	75.9	95.9	167.9	143.9	131.9	135.9	203.9	155.9	56.0
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°	1479.0	1479.0	1479.0	1479.0	1479.0	1479.0	1479.0	1479.0	1479.0	1479.0	1479.0
2.5°	1479.0	1475.0	1467.0	1463.0	1467.0	1467.0	1467.0	1471.0	1479.0	1479.0	1483.0
5°	1479.0	1471.0	1463.0	1463.0	1471.0	1479.0	1487.0	1503.0	1511.0	1515.0	1515.0
7.5°	1499.0	1491.0	1483.0	1483.0	1495.0	1511.0	1527.0	1547.0	1566.9	1582.9	1582.9
10°	1539.0	1527.0	1519.0	1523.0	1543.0	1562.9	1582.9	1606.9	1626.9	1646.9	1646.9
12.5°	1582.9	1570.9	1558.9	1566.9	1594.9	1618.9	1638.9	1650.9	1670.9	1686.9	1686.9
15°	1626.9	1606.9	1602.9	1618.9	1646.9	1662.9	1670.9	1670.9	1678.9	1694.9	1694.9
17.5°	1674.9	1654.9	1650.9	1666.9	1690.9	1690.9	1674.9	1662.9	1658.9	1670.9	1674.9
20°	1722.8	1702.9	1702.9	1714.8	1710.8	1682.9	1654.9	1634.9	1618.9	1630.9	1634.9
22.5°	1782.8	1762.8	1754.8	1738.8	1702.9	1646.9	1602.9	1578.9	1566.9	1574.9	1582.9
25°	1842.8	1826.8	1806.8	1750.8	1666.9	1578.9	1523.0	1503.0	1507.0	1523.0	1531.0
27.5°	1918.7	1910.7	1862.7	1742.8	1602.9	1483.0	1427.0	1423.0	1439.0	1463.0	1475.0
30°	2010.6	1998.7	1914.7	1718.8	1515.0	1371.1	1331.1	1339.1	1363.1	1383.1	1395.1
32.5°	2074.6	2066.6	1938.7	1662.9	1407.1	1271.1	1239.2	1239.2	1251.2	1279.1	1291.1
35°	2094.6	2126.6	1954.7	1578.9	1279.1	1183.2	1151.2	1131.2	1131.2	1155.2	1163.2
37.5°	2162.5	2234.5	1962.7	1467.0	1175.2	1103.3	1063.3	1027.3	1015.3	1011.3	1011.3
40°	2318.4	2402.4	1958.7	1323.1	1075.3	1023.3	975.3	935.4	903.4	859.4	863.4
42.5°	2590.3	2654.2	1946.7	1171.2	987.3	951.4	903.4	855.4	803.5	755.5	751.5
45°	3113.9	3018.0	1914.7	1039.3	907.4	887.4	843.4	787.5	723.5	679.5	679.5
47.5°	3941.3	3677.5	1894.7	915.4	835.4	831.4	791.5	731.5	667.6	635.6	631.6
50°	5076.6	4588.9	1926.7	827.4	771.5	783.5	751.5	695.5	643.6	615.6	611.6
52.5°	6379.7	5568.2	1962.7	771.5	723.5	747.5	731.5	679.5	627.6	603.6	599.6
55°	7387.0	6363.7	1910.7	719.5	675.5	711.5	711.5	663.6	619.6	595.6	595.6
57.5°	8094.5	6683.5	1730.8	671.5	635.6	679.5	691.5	655.6	615.6	607.6	607.6
60°	8398.3	6667.5	1415.0	627.6	607.6	647.6	679.5	647.6	623.6	643.6	647.6
62.5°	8234.5	6319.7	1099.3	595.6	587.6	639.6	691.5	679.5	651.6	667.6	675.5
65°	7494.9	5708.2	827.4	567.6	563.6	643.6	723.5	699.5	631.6	635.6	639.6
66°	7079.2	5296.4	759.5	559.6	555.6	647.6	739.5	691.5	615.6	623.6	619.6
67.5°	6191.8	4648.9	667.6	543.6	539.6	647.6	759.5	675.5	595.6	607.6	595.6
70°	4540.9	3289.8	571.6	523.6	515.7	635.6	755.5	643.6	551.6	543.6	523.6
72.5°	2634.2	1990.7	507.7	499.7	479.7	559.6	707.5	591.6	503.7	479.7	459.7
75°	1295.1	1011.3	451.7	471.7	419.7	491.7	639.6	547.6	463.7	431.7	419.7
77.5°	595.6	511.7	407.7	431.7	371.7	423.7	583.6	499.7	411.7	363.8	351.8
80°	323.8	319.8	343.8	359.8	311.8	371.7	515.7	435.7	347.8	295.8	279.8
82.5°	199.9	203.9	251.8	275.8	243.8	323.8	455.7	363.8	263.8	207.9	211.9
85°	103.9	115.9	167.9	183.9	159.9	239.8	343.8	243.8	147.9	107.9	107.9
87.5°	36.0	48.0	83.9	99.9	87.9	143.9	215.9	115.9	32.0	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)