

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: P572899

Luminaire Tested: **ARCH-S-PA2-130-730-U-T2U**

Issue Date: 10/13/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P572899  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2108-332-15)  
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-T2U  
Description: ARCHEON ROADWAY AND AREA LUMINAIRE  
(2) 70 CRI, 3000K, 1295mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II U OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 14584 lumens  
Efficiency: N/A  
Efficacy: 110.7 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3

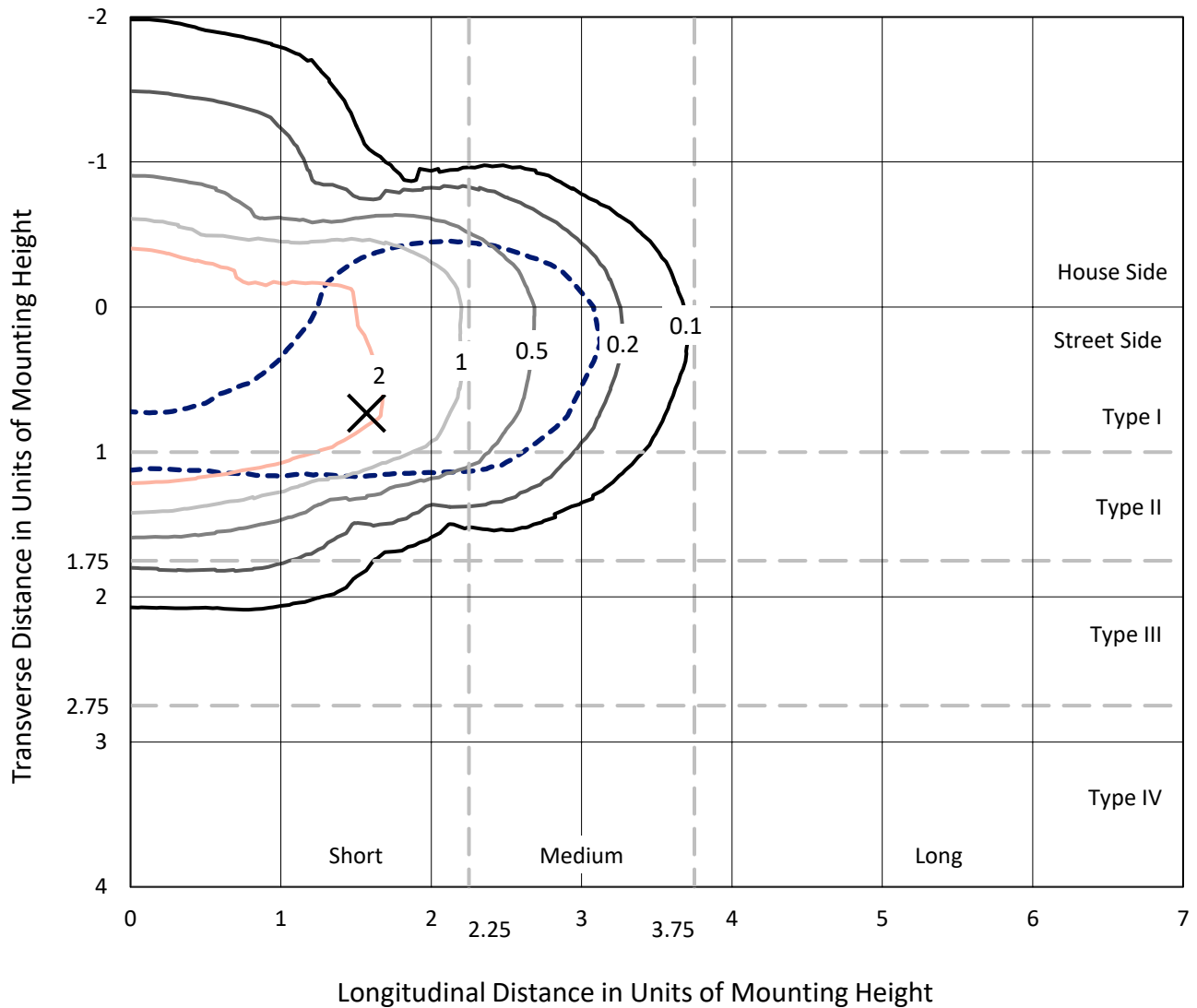
Input Watts (W): 131.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P572899  
 CATALOG NUMBER: ARCH-S-PA2-130-730-U-T2U

### Iso-Footcandle Lines of Horizontal Illumination

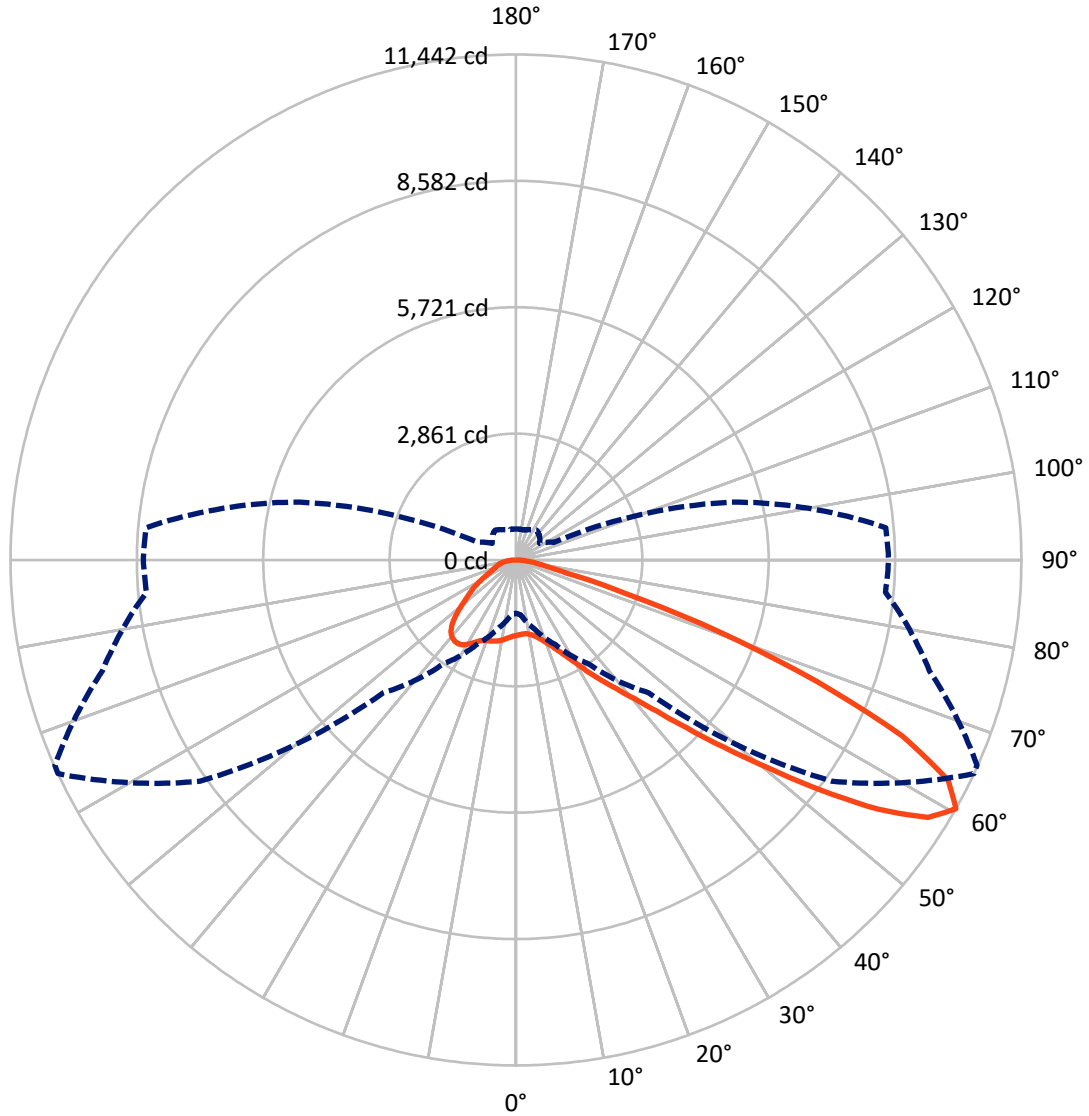
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.9 fc  
 Type II - Short - N/A

REPORT NUMBER: P572899  
CATALOG NUMBER: ARCH-S-PA2-130-730-U-T2U

### Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral      - - - Horizontal Cone Through 60-Deg Vertical

REPORT NUMBER: P572899  
 CATALOG NUMBER: ARCH-S-PA2-130-730-U-T2U

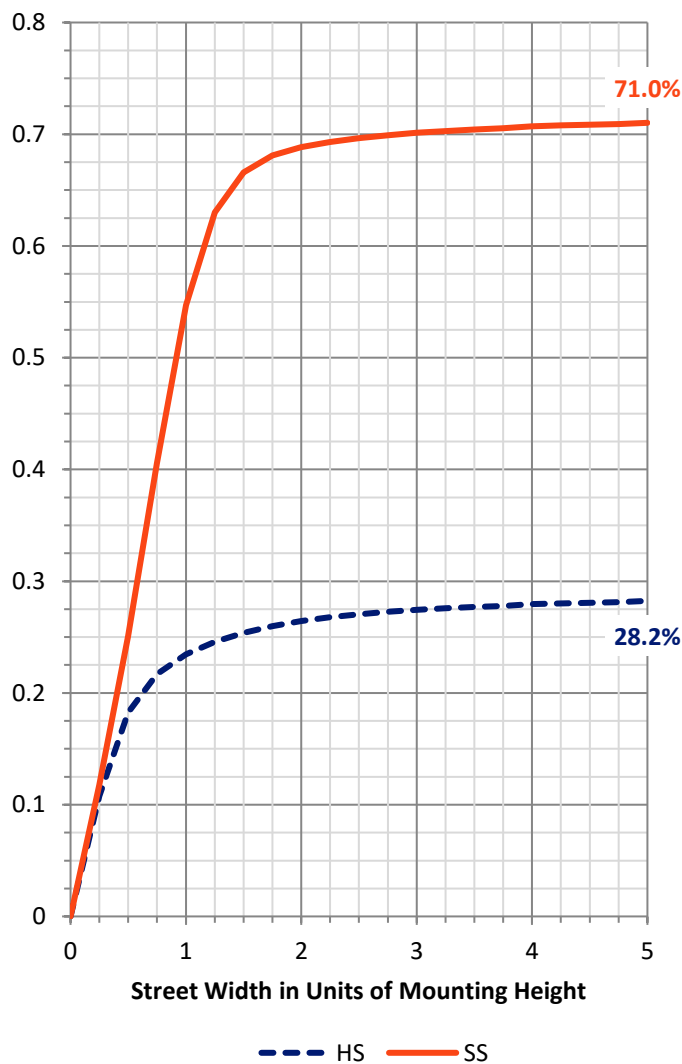
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4175.0	0.0	4175.0
	% Fixture	28.6	0.0	28.6
<b>Street Side</b>	Lumens	10409.0	0.0	10409.0
	% Fixture	71.4	0.0	71.4
<b>Total</b>	Lumens	14584.0	0.0	14584.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	165.3	1.1
10°-20°	532.1	3.6
20°-30°	1020.0	7.0
30°-40°	1771.5	12.1
40°-50°	3004.4	20.6
50°-60°	3741.0	25.7
60°-70°	3014.6	20.7
70°-80°	1141.5	7.8
80°-90°	193.6	1.3
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°	14584.0	100.0
0°-180°	14584.0	100.0

**Coefficient of Utilization**

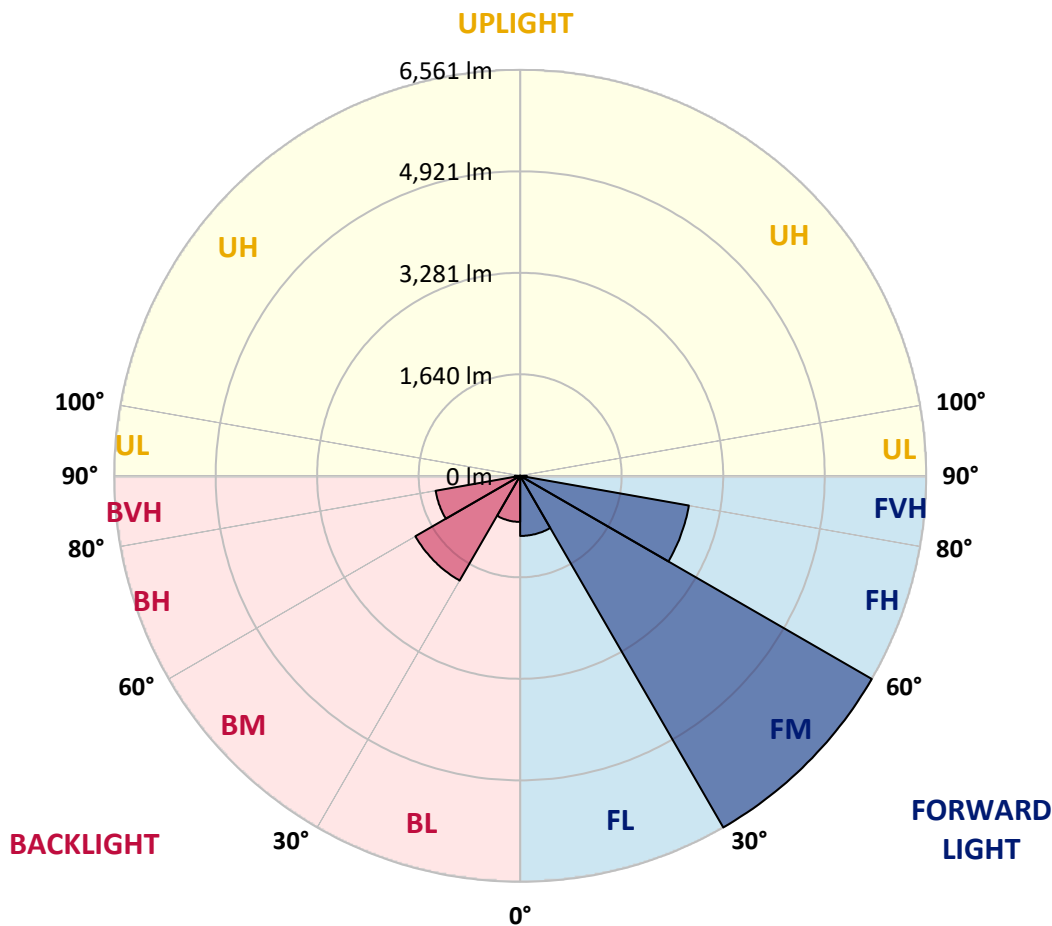


REPORT NUMBER: P572899  
 CATALOG NUMBER: ARCH-S-PA2-130-730-U-T2U

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	972.3	6.7			
FM (30°-60°)	6561.4	45.0			
FH (60°-80°)	2768.0	19.0			G2/5000
FVH (80°-90°)	107.4	0.7			G2/225
BL (0°-30°)	745.1	5.1	B2/1000		
BM (30°-60°)	1955.5	13.4	B2/2500		
BH (60°-80°)	1388.2	9.5	B3/2500		G3/2500
BVH (80°-90°)	86.2	0.6			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G3**  
 Type II Short





REPORT NUMBER: P572899

CATALOG NUMBER: ARCH-S-PA2-130-730-U-T2U

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	1711.1	1711.1	1711.1	1711.1	1711.1	1711.1	1711.1	1711.1	1711.1	1711.1	1711.1
2.5°	1671.2	1671.2	1671.2	1675.2	1679.2	1683.2	1691.2	1691.2	1691.2	1695.1	1703.1
5°	1639.2	1635.2	1639.2	1643.2	1651.2	1659.2	1675.2	1683.2	1683.2	1699.1	1715.1
7.5°	1643.2	1635.2	1635.2	1639.2	1647.2	1655.2	1671.2	1683.2	1687.2	1707.1	1735.1
10°	1683.2	1671.2	1671.2	1675.2	1675.2	1683.2	1695.1	1711.1	1715.1	1735.1	1763.1
12.5°	1767.1	1755.1	1751.1	1739.1	1727.1	1735.1	1747.1	1751.1	1755.1	1767.1	1795.1
15°	1943.0	1923.0	1891.1	1867.1	1835.1	1815.1	1811.1	1815.1	1815.1	1819.1	1835.1
17.5°	2194.9	2170.9	2122.9	2071.0	1995.0	1931.0	1911.0	1895.0	1895.0	1883.1	1883.1
20°	2502.7	2466.8	2410.8	2334.8	2222.9	2106.9	2039.0	2003.0	1991.0	1971.0	1943.0
22.5°	2858.6	2834.6	2762.6	2646.7	2478.8	2322.8	2210.9	2130.9	2130.9	2083.0	2023.0
25°	3278.4	3234.4	3150.4	3014.5	2786.6	2562.7	2410.8	2294.8	2282.9	2206.9	2110.9
27.5°	3686.2	3658.2	3554.2	3374.3	3102.4	2842.6	2630.7	2494.7	2474.8	2354.8	2206.9
30°	4181.9	4149.9	3994.0	3742.1	3450.3	3154.4	2906.5	2730.6	2710.6	2546.7	2338.8
32.5°	4797.6	4689.6	4497.7	4209.9	3834.1	3502.2	3218.4	3030.5	3006.5	2818.6	2570.7
35°	5545.2	5453.3	5121.4	4817.6	4369.8	3934.0	3594.2	3346.3	3314.3	3090.5	2778.6
37.5°	6073.0	6029.0	5801.1	5561.2	5049.5	4461.8	4046.0	3702.1	3670.2	3374.3	2970.5
40°	6404.8	6360.8	6296.8	6228.9	5945.0	5281.4	4589.7	4121.9	4070.0	3790.1	3354.3
42.5°	6576.7	6540.7	6552.7	6688.6	6768.6	6664.7	5365.3	4681.7	4645.7	4305.8	3822.1
45°	6476.8	6452.8	6568.7	6928.5	7320.3	8087.9	6360.8	5417.3	5321.3	4917.5	4389.8
47.5°	5997.0	5925.0	6196.9	6808.6	7648.2	8767.6	7560.2	6324.8	6220.9	5641.2	4965.5
50°	5009.5	4989.5	5361.3	6136.9	7520.2	9035.5	8843.6	7396.3	7320.3	6420.8	5605.2
52.5°	4089.9	4082.0	4369.8	5081.5	6704.6	8847.6	9775.1	8671.7	8443.8	7204.4	6300.8
55°	3174.4	3170.4	3426.3	3958.0	5349.3	7964.0	10214.9	9971.0	9803.1	8060.0	7016.5
57.5°	2170.9	2142.9	2474.8	2878.6	4018.0	6308.8	9927.0	10998.5	10894.5	8967.5	7776.1
60°	1207.4	1247.4	1615.2	2114.9	2874.6	4249.9	8727.6	11442.3	11426.3	9691.1	8395.8
62.5°	855.6	871.6	1027.5	1503.2	1891.1	2434.8	6732.6	10982.5	11110.4	10090.9	8747.6
65°	711.6	719.6	795.6	1111.4	1383.3	1407.3	4197.9	9619.2	9787.1	9967.0	8823.6
67.5°	671.7	675.7	715.6	819.6	1083.5	1019.5	1875.1	7344.3	7700.1	8967.5	8327.8
70°	611.7	615.7	675.7	723.6	875.6	803.6	963.5	4877.6	5357.3	7088.4	7180.4
72.5°	523.7	535.7	583.7	679.7	711.6	667.7	743.6	2606.7	3082.5	4741.6	5545.2
75°	451.8	459.8	495.8	575.7	667.7	531.7	631.7	1187.4	1391.3	2782.6	3510.2
77.5°	363.8	367.8	419.8	471.8	559.7	431.8	491.8	711.6	747.6	1359.3	1587.2
80°	275.9	275.9	311.8	375.8	415.8	415.8	359.8	495.8	515.7	647.7	627.7
82.5°	211.9	207.9	235.9	263.9	299.8	347.8	271.9	327.8	335.8	391.8	335.8
85°	139.9	139.9	155.9	179.9	199.9	191.9	211.9	191.9	199.9	243.9	183.9
87.5°	60.0	60.0	84.0	80.0	88.0	92.0	103.9	92.0	92.0	111.9	84.0
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: P572899

CATALOG NUMBER: ARCH-S-PA2-130-730-U-T2U

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1711.1	1711.1	1711.1	1711.1	1711.1	1711.1	1711.1	1711.1	1711.1	1711.1	1711.1
2.5°	1707.1	1711.1	1719.1	1723.1	1735.1	1739.1	1739.1	1747.1	1747.1	1755.1	1755.1
5°	1719.1	1731.1	1743.1	1755.1	1767.1	1771.1	1779.1	1783.1	1783.1	1791.1	1787.1
7.5°	1743.1	1755.1	1779.1	1791.1	1807.1	1815.1	1811.1	1815.1	1811.1	1815.1	1815.1
10°	1775.1	1791.1	1819.1	1835.1	1847.1	1851.1	1839.1	1827.1	1811.1	1811.1	1811.1
12.5°	1811.1	1823.1	1859.1	1871.1	1879.1	1867.1	1835.1	1811.1	1799.1	1803.1	1799.1
15°	1847.1	1859.1	1887.1	1899.0	1899.0	1863.1	1835.1	1827.1	1823.1	1827.1	1827.1
17.5°	1883.1	1895.0	1919.0	1919.0	1907.0	1879.1	1851.1	1823.1	1803.1	1791.1	1791.1
20°	1931.0	1931.0	1939.0	1939.0	1935.0	1891.1	1823.1	1755.1	1715.1	1691.2	1687.2
22.5°	1995.0	1979.0	1963.0	1963.0	1979.0	1863.1	1731.1	1627.2	1563.2	1555.2	1539.2
25°	2063.0	2027.0	1987.0	2015.0	1987.0	1791.1	1603.2	1463.3	1387.3	1359.3	1367.3
27.5°	2134.9	2079.0	2019.0	2098.9	1947.0	1651.2	1423.3	1267.4	1195.4	1175.4	1175.4
30°	2234.9	2150.9	2063.0	2186.9	1871.1	1491.3	1211.4	1099.4	1059.5	1043.5	1039.5
32.5°	2426.8	2298.8	2170.9	2266.9	1787.1	1283.4	1067.5	999.5	951.5	935.5	947.5
35°	2598.7	2418.8	2334.8	2302.8	1655.2	1115.4	979.5	919.5	879.6	859.6	859.6
37.5°	2754.6	2582.7	2518.7	2302.8	1483.3	1011.5	923.5	875.6	823.6	807.6	807.6
40°	3094.4	2866.6	2754.6	2270.9	1271.4	959.5	895.6	839.6	795.6	779.6	775.6
42.5°	3562.2	3254.4	2998.5	2198.9	1091.5	935.5	879.6	815.6	779.6	767.6	763.6
45°	4058.0	3786.1	3230.4	2071.0	975.5	911.5	875.6	807.6	763.6	751.6	747.6
47.5°	4657.7	4377.8	3498.2	1875.1	895.6	895.6	871.6	795.6	755.6	743.6	743.6
50°	5321.3	5089.4	3838.1	1651.2	835.6	883.6	863.6	795.6	751.6	739.6	735.6
52.5°	6001.0	5893.0	4193.9	1431.3	775.6	867.6	859.6	795.6	743.6	731.6	731.6
55°	6864.6	6776.6	4605.7	1267.4	727.6	835.6	859.6	787.6	731.6	723.6	723.6
57.5°	7712.1	7680.1	4925.5	1123.4	691.7	795.6	847.6	775.6	719.6	715.6	715.6
60°	8435.8	8403.8	5061.5	943.5	655.7	755.6	823.6	755.6	699.6	703.6	703.6
62.5°	8883.5	8699.6	4961.5	779.6	619.7	719.6	795.6	731.6	679.7	691.7	687.7
65°	8963.5	8535.7	4573.7	651.7	579.7	679.7	763.6	703.6	651.7	679.7	675.7
67.5°	8375.8	7664.2	3846.1	567.7	539.7	635.7	727.6	663.7	619.7	659.7	647.7
70°	7104.4	6224.9	2846.6	503.7	499.7	583.7	679.7	615.7	575.7	595.7	579.7
72.5°	5289.3	4493.7	1843.1	455.8	455.8	523.7	611.7	555.7	515.7	519.7	503.7
75°	3298.3	2762.6	1047.5	411.8	411.8	463.8	543.7	487.8	459.8	443.8	463.8
77.5°	1499.2	1215.4	551.7	367.8	371.8	395.8	467.8	415.8	383.8	359.8	371.8
80°	555.7	495.8	359.8	315.8	323.8	327.8	375.8	331.8	303.8	287.9	279.9
82.5°	287.9	267.9	243.9	251.9	263.9	251.9	291.9	247.9	215.9	203.9	171.9
85°	143.9	139.9	147.9	167.9	183.9	155.9	175.9	159.9	131.9	96.0	96.0
87.5°	56.0	60.0	56.0	76.0	84.0	72.0	80.0	56.0	40.0	20.0	16.0
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)