

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: P572755

Luminaire Tested: **ARCH-S-PA2-110-740-U-T2U**

Issue Date: 10/13/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P572755  
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-PA2-110-740-U-T2U  
Description: ARCHEON ROADWAY AND AREA LUMINAIRE  
(2) 70 CRI, 4000K, 1105mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II U OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 14854 lumens  
Efficiency: N/A  
Efficacy: 130.1 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3

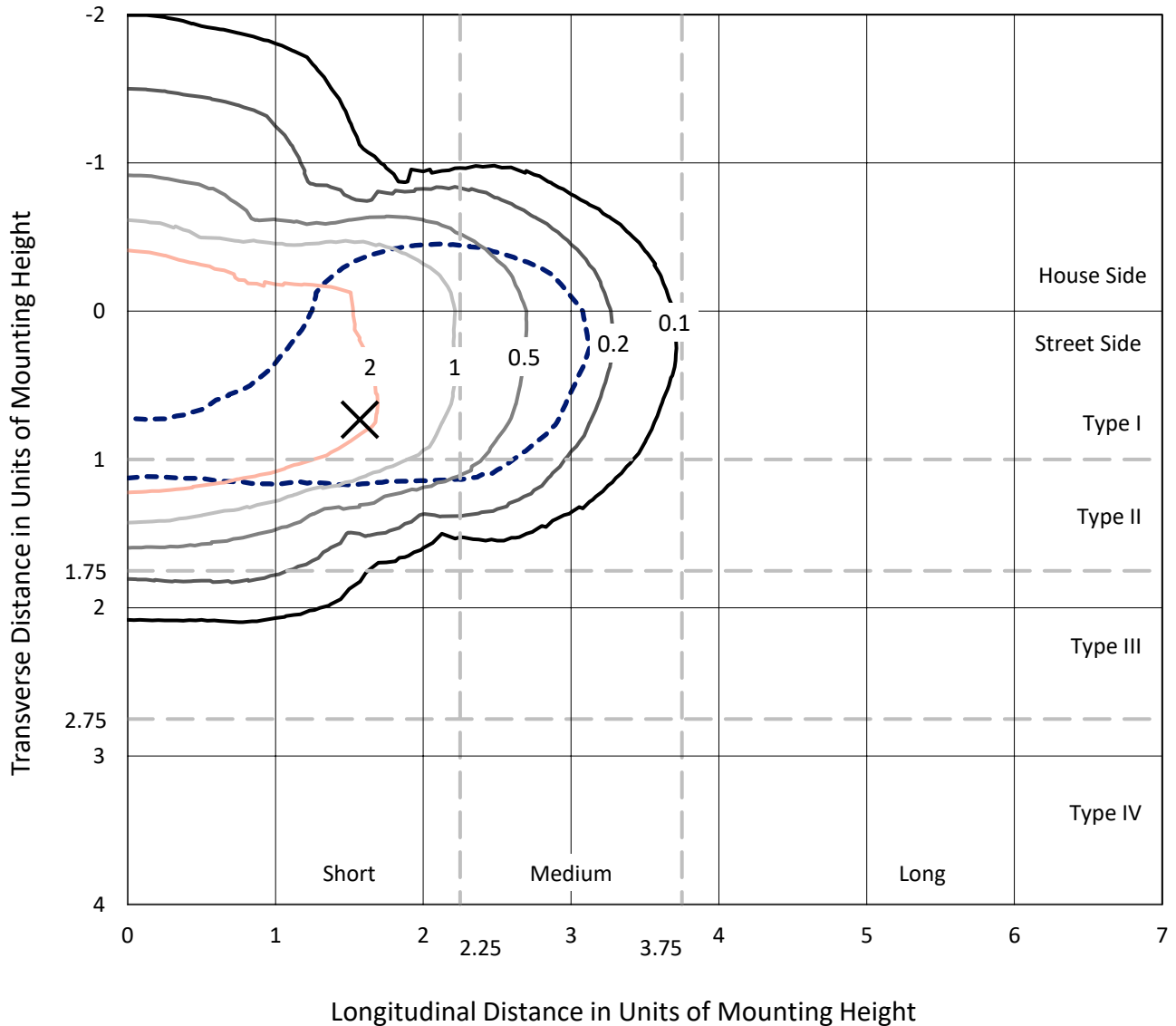
Input Watts (W): 114.2  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P572755  
 CATALOG NUMBER: ARCH-S-PA2-110-740-U-T2U

### Iso-Footcandle Lines of Horizontal Illumination

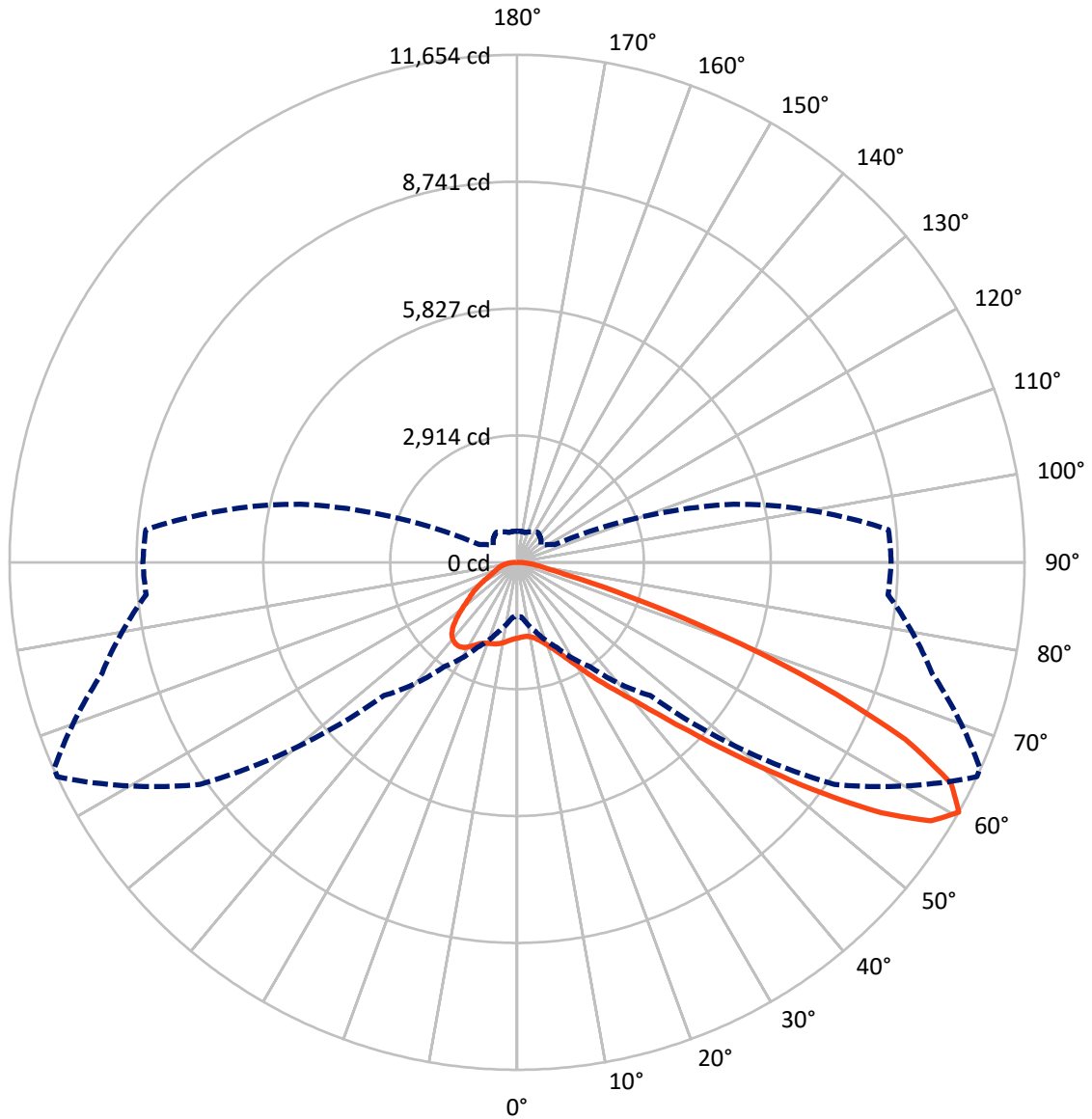
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5 fc  
 Type II - Short - N/A

REPORT NUMBER: P572755  
CATALOG NUMBER: ARCH-S-PA2-110-740-U-T2U

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P572755  
 CATALOG NUMBER: ARCH-S-PA2-110-740-U-T2U

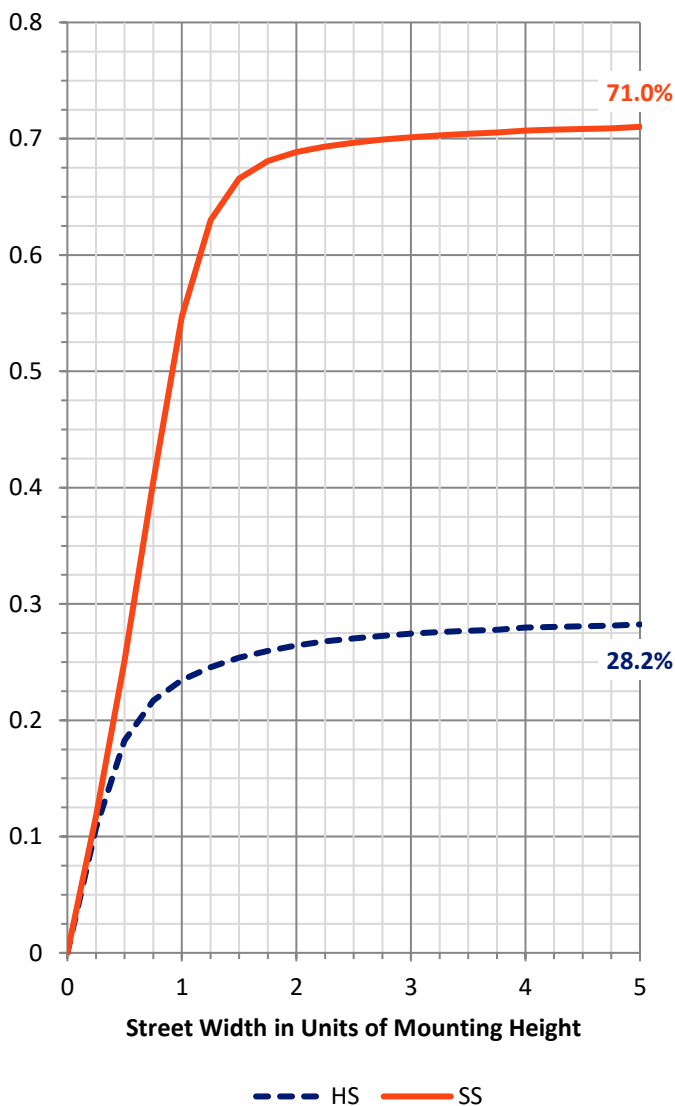
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4252.3	0.0	4252.3
	% Fixture	28.6	0.0	28.6
<b>Street Side</b>	Lumens	10601.7	0.0	10601.7
	% Fixture	71.4	0.0	71.4
<b>Total</b>	Lumens	14854.0	0.0	14854.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	168.4	1.1
10°-20°	541.9	3.6
20°-30°	1038.9	7.0
30°-40°	1804.2	12.1
40°-50°	3060.0	20.6
50°-60°	3810.3	25.7
60°-70°	3070.4	20.7
70°-80°	1162.7	7.8
80°-90°	197.2	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°	14854.0	100.0
0°-180°	14854.0	100.0

**Coefficient of Utilization**



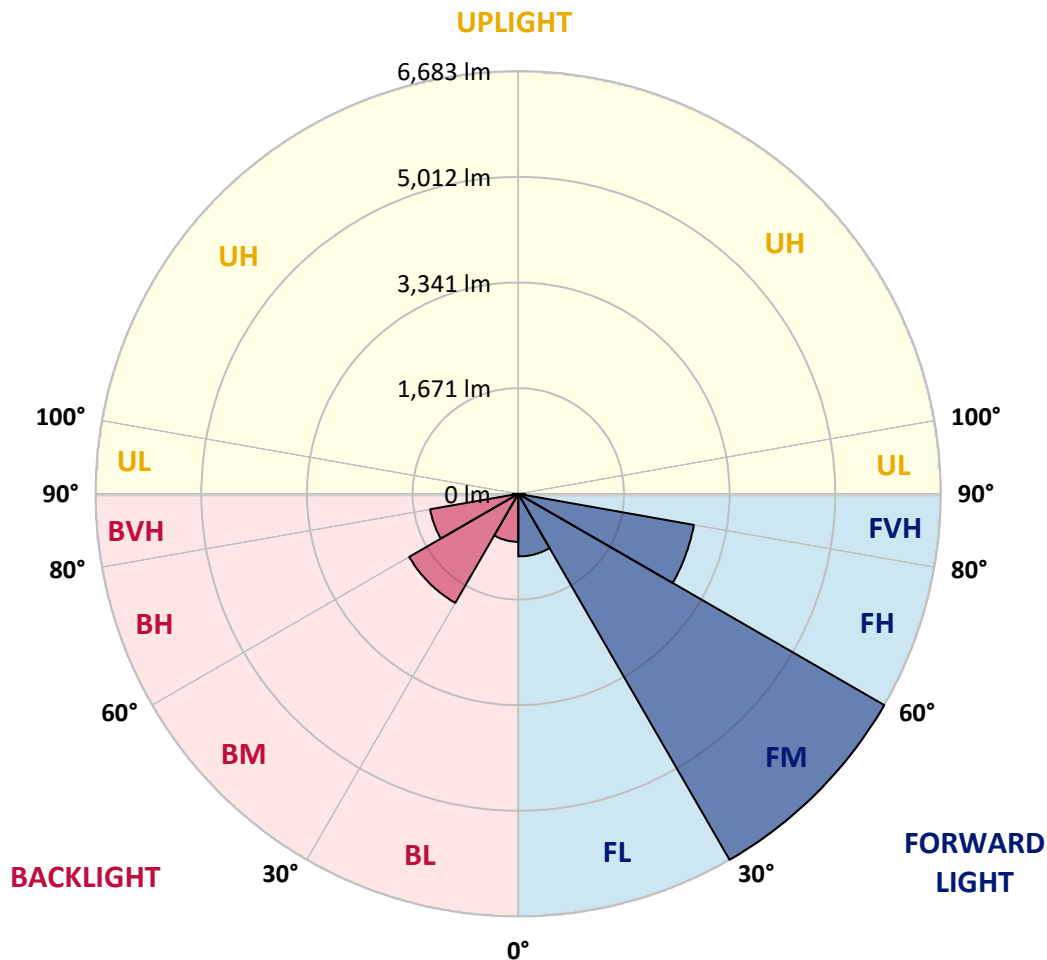
REPORT NUMBER: P572755  
 CATALOG NUMBER: ARCH-S-PA2-110-740-U-T2U

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	990.3	6.7			
FM (30°-60°)	6682.8	45.0			
FH (60°-80°)	2819.2	19.0			G2/5000
FVH (80°-90°)	109.4	0.7			G2/225
BL (0°-30°)	758.9	5.1	B2/1000		
BM (30°-60°)	1991.7	13.4	B2/2500		
BH (60°-80°)	1413.9	9.5	B3/2500		G3/2500
BVH (80°-90°)	87.8	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: P572755

CATALOG NUMBER: ARCH-S-PA2-110-740-U-T2U

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	1742.8	1742.8	1742.8	1742.8	1742.8	1742.8	1742.8	1742.8	1742.8	1742.8	1742.8
2.5°	1702.1	1702.1	1702.1	1706.2	1710.2	1714.3	1722.5	1722.5	1722.5	1726.5	1734.7
5°	1669.5	1665.5	1669.5	1673.6	1681.7	1689.9	1706.2	1714.3	1714.3	1730.6	1746.9
7.5°	1673.6	1665.5	1665.5	1669.5	1677.7	1685.8	1702.1	1714.3	1718.4	1738.7	1767.3
10°	1714.3	1702.1	1702.1	1706.2	1706.2	1714.3	1726.5	1742.8	1746.9	1767.3	1795.8
12.5°	1799.8	1787.6	1783.5	1771.3	1759.1	1767.3	1779.5	1783.5	1787.6	1799.8	1828.3
15°	1979.0	1958.6	1926.1	1901.6	1869.1	1848.7	1844.6	1848.7	1848.7	1852.8	1869.1
17.5°	2235.5	2211.1	2162.2	2109.3	2031.9	1966.8	1946.4	1930.1	1930.1	1917.9	1917.9
20°	2549.1	2512.4	2455.4	2378.1	2264.0	2146.0	2076.7	2040.1	2027.9	2007.5	1979.0
22.5°	2911.5	2887.1	2813.8	2695.7	2524.6	2365.8	2251.8	2170.4	2170.4	2121.5	2060.4
25°	3339.0	3294.3	3208.7	3070.3	2838.2	2610.2	2455.4	2337.3	2325.1	2247.8	2150.0
27.5°	3754.4	3725.9	3620.0	3436.8	3159.9	2895.2	2679.4	2540.9	2520.6	2398.4	2247.8
30°	4259.3	4226.7	4067.9	3811.4	3514.1	3212.8	2960.4	2781.2	2760.8	2593.9	2382.1
32.5°	4886.4	4776.5	4581.0	4287.8	3905.1	3567.1	3278.0	3086.6	3062.2	2870.8	2618.3
35°	5647.9	5554.2	5216.2	4906.8	4450.7	4006.9	3660.7	3408.3	3375.7	3147.7	2830.0
37.5°	6185.4	6140.6	5908.5	5664.2	5143.0	4544.4	4120.9	3770.7	3738.1	3436.8	3025.5
40°	6523.4	6478.6	6413.4	6344.2	6055.1	5379.1	4674.7	4198.2	4145.3	3860.3	3416.4
42.5°	6698.5	6661.8	6674.0	6812.5	6893.9	6788.0	5464.6	4768.3	4731.7	4385.6	3892.8
45°	6596.7	6572.2	6690.3	7056.8	7455.9	8237.7	6478.6	5517.6	5419.8	5008.6	4471.1
47.5°	6108.0	6034.7	6311.6	6934.6	7789.8	8929.9	7700.2	6441.9	6336.0	5745.6	5057.4
50°	5102.2	5081.9	5460.6	6250.5	7659.5	9202.7	9007.3	7533.2	7455.9	6539.7	5709.0
52.5°	4165.7	4157.5	4450.7	5175.5	6828.8	9011.4	9956.1	8832.2	8600.1	7337.8	6417.5
55°	3233.2	3229.1	3489.7	4031.3	5448.4	8111.4	10404.0	10155.6	9984.6	8209.2	7146.4
57.5°	2211.1	2182.6	2520.6	2931.8	4092.4	6425.6	10110.8	11202.1	11096.2	9133.5	7920.1
60°	1229.7	1270.5	1645.1	2154.1	2927.8	4328.5	8889.2	11654.1	11637.8	9870.6	8551.2
62.5°	871.4	887.7	1046.5	1531.1	1926.1	2479.9	6857.3	11185.8	11316.1	10277.8	8909.6
65°	724.8	733.0	810.3	1132.0	1408.9	1433.3	4275.6	9797.3	9968.3	10151.5	8986.9
67.5°	684.1	688.2	728.9	834.8	1103.5	1038.4	1909.8	7480.3	7842.7	9133.5	8482.0
70°	623.0	627.1	688.2	737.0	891.8	818.5	981.4	4967.9	5456.5	7219.7	7313.3
72.5°	533.4	545.6	594.5	692.2	724.8	680.0	757.4	2655.0	3139.5	4829.4	5647.9
75°	460.1	468.3	504.9	586.4	680.0	541.6	643.4	1209.4	1417.1	2834.1	3575.2
77.5°	370.6	374.6	427.6	480.5	570.1	439.8	500.9	724.8	761.5	1384.5	1616.6
80°	281.0	281.0	317.6	382.8	423.5	423.5	366.5	504.9	525.3	659.7	639.3
82.5°	215.8	211.7	240.2	268.8	305.4	354.3	276.9	333.9	342.0	399.1	342.0
85°	142.5	142.5	158.8	183.2	203.6	195.5	215.8	195.5	203.6	248.4	187.3
87.5°	61.1	61.1	85.5	81.4	89.6	93.7	105.9	93.7	93.7	114.0	85.5
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: P572755

CATALOG NUMBER: ARCH-S-PA2-110-740-U-T2U

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1742.8	1742.8	1742.8	1742.8	1742.8	1742.8	1742.8	1742.8	1742.8	1742.8	1742.8
2.5°	1738.7	1742.8	1751.0	1755.0	1767.3	1771.3	1771.3	1779.5	1779.5	1787.6	1787.6
5°	1751.0	1763.2	1775.4	1787.6	1799.8	1803.9	1812.0	1816.1	1816.1	1824.3	1820.2
7.5°	1775.4	1787.6	1812.0	1824.3	1840.5	1848.7	1844.6	1848.7	1844.6	1848.7	1848.7
10°	1808.0	1824.3	1852.8	1869.1	1881.3	1885.3	1873.1	1860.9	1844.6	1844.6	1844.6
12.5°	1844.6	1856.8	1893.5	1905.7	1913.8	1901.6	1869.1	1844.6	1832.4	1836.5	1832.4
15°	1881.3	1893.5	1922.0	1934.2	1934.2	1897.6	1869.1	1860.9	1856.8	1860.9	1860.9
17.5°	1917.9	1930.1	1954.6	1954.6	1942.3	1913.8	1885.3	1856.8	1836.5	1824.3	1824.3
20°	1966.8	1966.8	1974.9	1974.9	1970.9	1926.1	1856.8	1787.6	1746.9	1722.5	1718.4
22.5°	2031.9	2015.6	1999.4	1999.4	2015.6	1897.6	1763.2	1657.3	1592.2	1584.0	1567.7
25°	2101.2	2064.5	2023.8	2052.3	2023.8	1824.3	1632.9	1490.4	1413.0	1384.5	1392.6
27.5°	2174.5	2117.4	2056.4	2137.8	1983.1	1681.7	1449.6	1290.8	1217.5	1197.2	1197.2
30°	2276.3	2190.7	2101.2	2227.4	1905.7	1518.9	1233.8	1119.8	1079.1	1062.8	1058.7
32.5°	2471.7	2341.4	2211.1	2308.8	1820.2	1307.1	1087.2	1018.0	969.1	952.9	965.1
35°	2646.8	2463.6	2378.1	2345.5	1685.8	1136.1	997.6	936.6	895.8	875.5	875.5
37.5°	2805.6	2630.5	2565.4	2345.5	1510.7	1030.2	940.6	891.8	838.8	822.5	822.5
40°	3151.7	2919.6	2805.6	2312.9	1294.9	977.3	912.1	855.1	810.3	794.0	790.0
42.5°	3628.2	3314.6	3054.0	2239.6	1111.7	952.9	895.8	830.7	794.0	781.8	777.8
45°	4133.1	3856.2	3290.2	2109.3	993.6	928.4	891.8	822.5	777.8	765.5	761.5
47.5°	4743.9	4458.9	3563.0	1909.8	912.1	912.1	887.7	810.3	769.6	757.4	757.4
50°	5419.8	5183.7	3909.1	1681.7	851.1	899.9	879.6	810.3	765.5	753.3	749.3
52.5°	6112.1	6002.1	4271.5	1457.8	790.0	883.6	875.5	810.3	757.4	745.2	745.2
55°	6991.6	6902.1	4691.0	1290.8	741.1	851.1	875.5	802.2	745.2	737.0	737.0
57.5°	7854.9	7822.3	5016.7	1144.2	704.5	810.3	863.3	790.0	733.0	728.9	728.9
60°	8591.9	8559.4	5155.2	961.0	667.8	769.6	838.8	769.6	712.6	716.7	716.7
62.5°	9048.0	8860.7	5053.4	794.0	631.2	733.0	810.3	745.2	692.2	704.5	700.4
65°	9129.4	8693.7	4658.4	663.7	590.4	692.2	777.8	716.7	663.7	692.2	688.2
67.5°	8530.9	7806.0	3917.3	578.2	549.7	647.4	741.1	676.0	631.2	671.9	659.7
70°	7236.0	6340.1	2899.3	513.1	509.0	594.5	692.2	627.1	586.4	606.7	590.4
72.5°	5387.3	4576.9	1877.2	464.2	464.2	533.4	623.0	566.0	525.3	529.4	513.1
75°	3359.4	2813.8	1066.9	419.4	419.4	472.4	553.8	496.8	468.3	452.0	472.4
77.5°	1527.0	1237.9	561.9	374.6	378.7	403.1	476.4	423.5	390.9	366.5	378.7
80°	566.0	504.9	366.5	321.7	329.8	333.9	382.8	338.0	309.5	293.2	285.0
82.5°	293.2	272.8	248.4	256.5	268.8	256.5	297.3	252.5	219.9	207.7	175.1
85°	146.6	142.5	150.7	171.0	187.3	158.8	179.2	162.9	134.4	97.7	97.7
87.5°	57.0	61.1	57.0	77.4	85.5	73.3	81.4	57.0	40.7	20.4	16.3
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)