

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: P572739

Luminaire Tested: **ARCH-S-PA2-110-730-U-T3**

Issue Date: 10/13/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P572739  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2108-332-38)  
Test Lab: INNOVATION CENTER  
Issue Date: 10/13/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: ARCH-S-PA2-110-730-U-T3  
Description: ARCHEON ROADWAY AND AREA LUMINAIRE  
(2) 70 CRI, 3000K, 1105mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 13695 lumens  
Efficiency: N/A  
Efficacy: 119.9 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G2

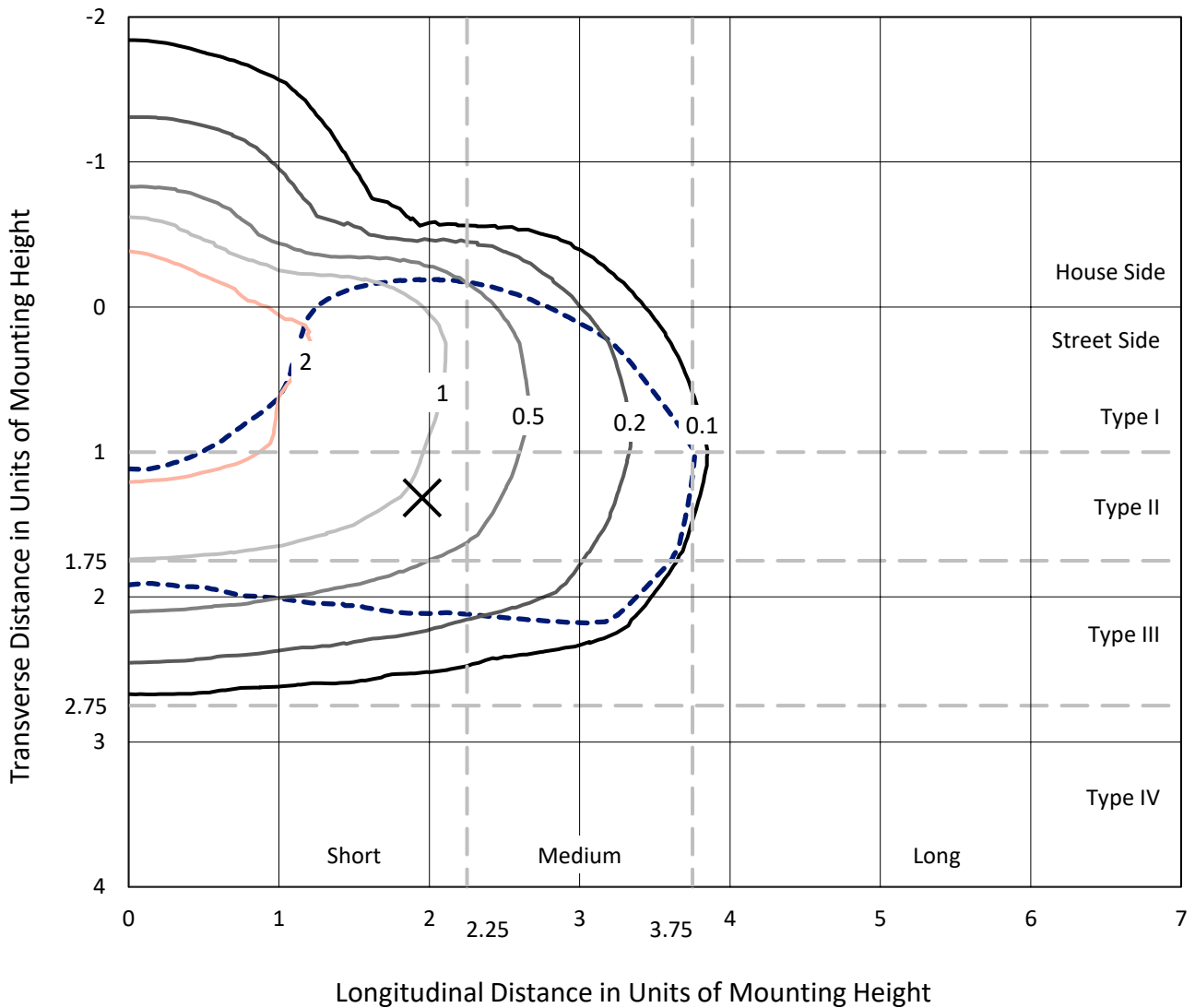
Input Watts (W): 114.2  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P572739  
 CATALOG NUMBER: ARCH-S-PA2-110-730-U-T3

### Iso-Footcandle Lines of Horizontal Illumination

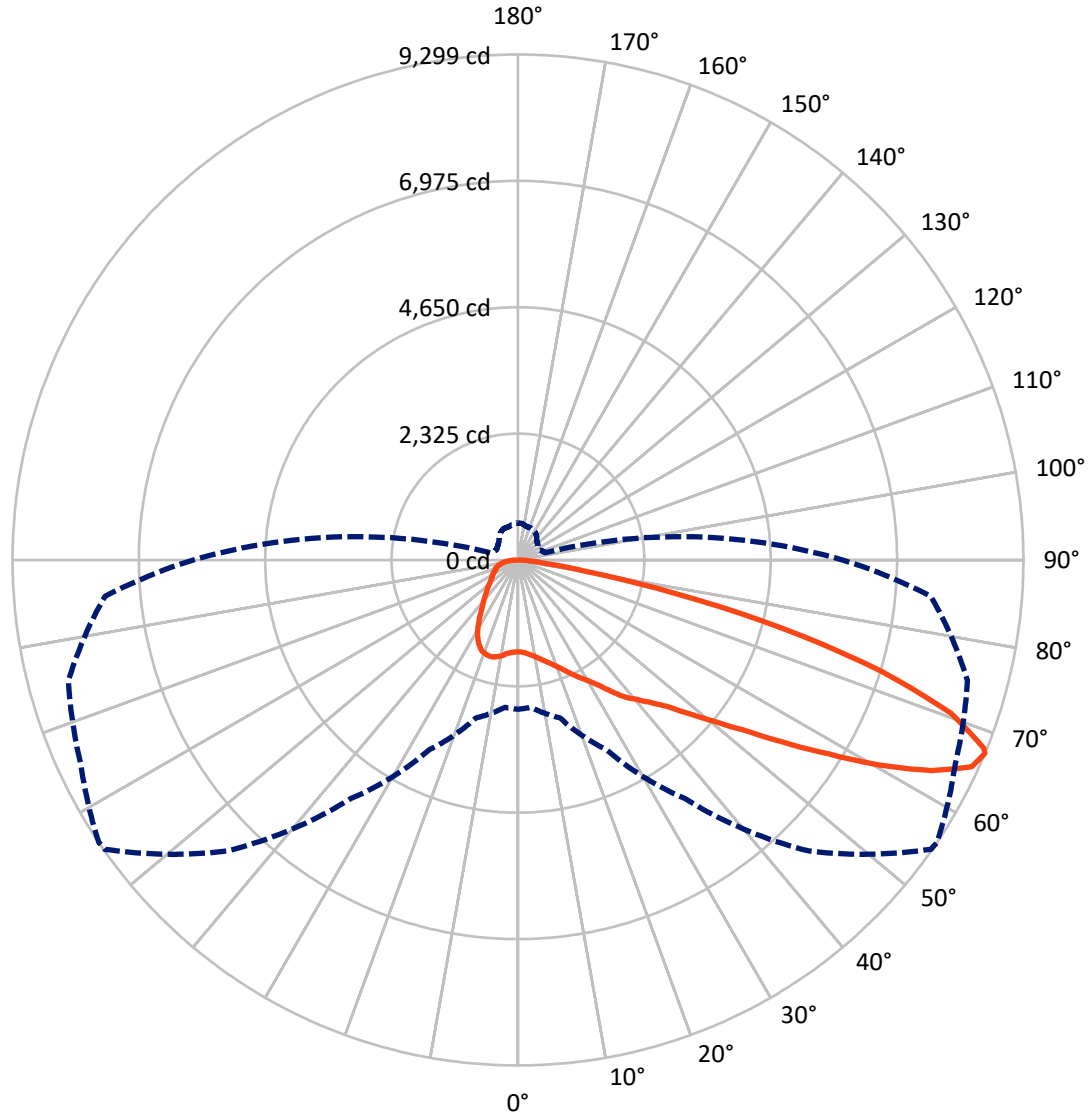
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3 fc  
 Type III - Short - N/A

REPORT NUMBER: P572739  
CATALOG NUMBER: ARCH-S-PA2-110-730-U-T3

### Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral      - - - Horizontal Cone Through 67-Deg Vertical

REPORT NUMBER: P572739  
 CATALOG NUMBER: ARCH-S-PA2-110-730-U-T3

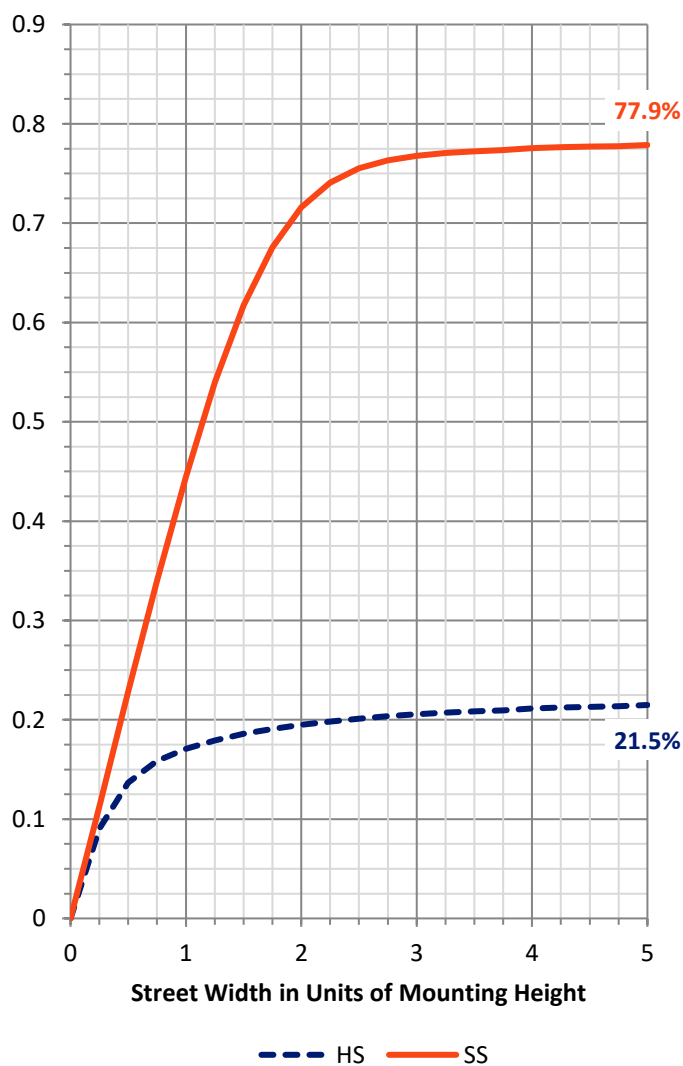
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2996.2	0.0	2996.2
	% Fixture	21.9	0.0	21.9
<b>Street Side</b>	Lumens	10698.8	0.0	10698.8
	% Fixture	78.1	0.0	78.1
<b>Total</b>	Lumens	13695.0	0.0	13695.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	166.3	1.2
10°-20°	533.5	3.9
20°-30°	928.4	6.8
30°-40°	1361.3	9.9
40°-50°	1991.8	14.5
50°-60°	3112.8	22.7
60°-70°	3699.8	27.0
70°-80°	1685.0	12.3
80°-90°	216.1	1.6
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°	13695.0	100.0
0°-180°	13695.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P572739

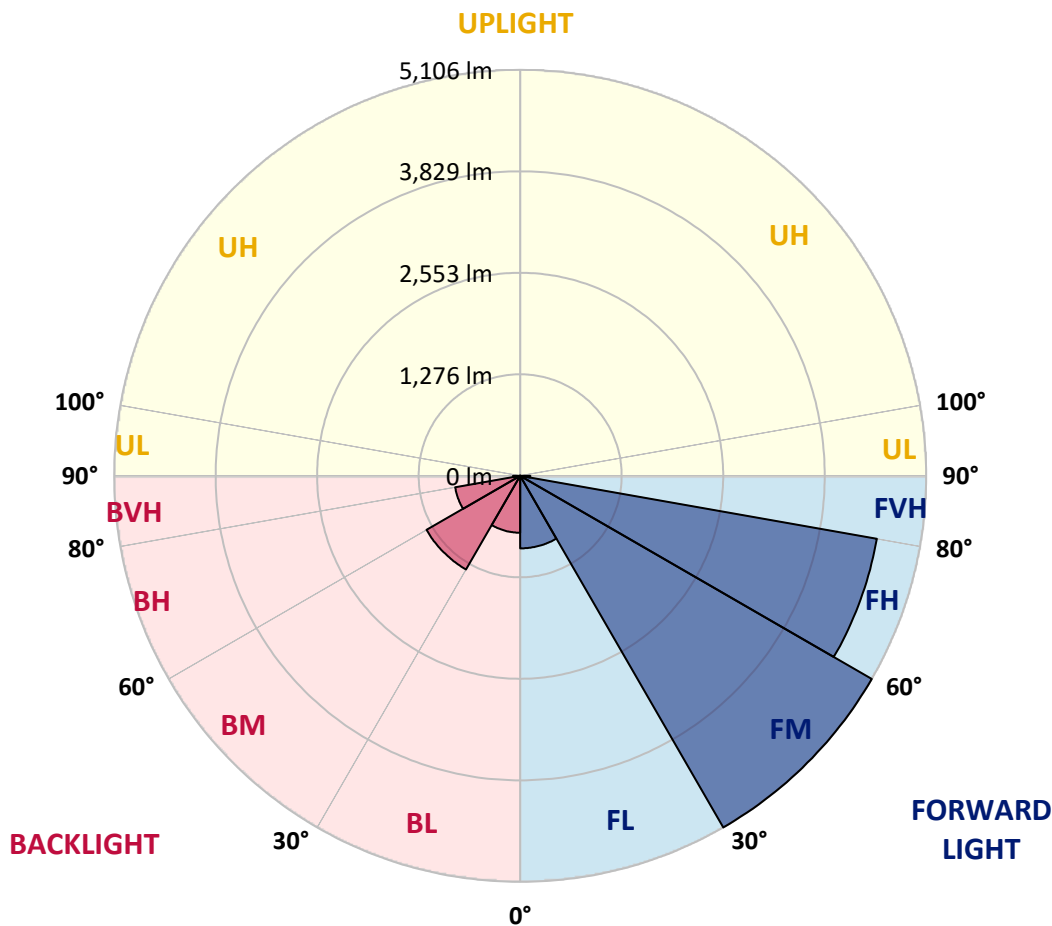
CATALOG NUMBER: ARCH-S-PA2-110-730-U-T3

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	912.2	6.7			
FM (30°-60°)	5105.9	37.3			
FH (60°-80°)	4554.7	33.3			G2/5000
FVH (80°-90°)	126.0	0.9			G2/225
BL (0°-30°)	716.0	5.2	B2/1000		
BM (30°-60°)	1360.0	9.9	B2/2500		
BH (60°-80°)	830.0	6.1	B2/1000		G2/1000
BVH (80°-90°)	90.1	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-G2**

Type III Short





REPORT NUMBER: P572739

CATALOG NUMBER: ARCH-S-PA2-110-730-U-T3

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	1690.8	1690.8	1690.8	1690.8	1690.8	1690.8	1690.8	1690.8	1690.8	1690.8	1690.8
2.5°	1716.8	1709.3	1705.6	1709.3	1705.6	1698.2	1701.9	1698.2	1694.5	1690.8	1690.8
5°	1739.0	1731.6	1727.9	1731.6	1735.3	1727.9	1727.9	1727.9	1716.8	1713.0	1705.6
7.5°	1753.8	1742.7	1742.7	1750.1	1757.5	1761.2	1768.7	1765.0	1753.8	1746.4	1731.6
10°	1802.0	1787.2	1787.2	1787.2	1794.6	1802.0	1809.4	1813.2	1809.4	1805.7	1794.6
12.5°	1876.2	1861.4	1861.4	1861.4	1861.4	1857.7	1868.8	1872.5	1879.9	1879.9	1861.4
15°	1976.3	1957.8	1950.3	1935.5	1931.8	1924.4	1939.2	1939.2	1950.3	1954.1	1935.5
17.5°	2072.7	2050.5	2043.0	2028.2	2013.4	1994.8	2009.7	2013.4	2035.6	2039.3	2009.7
20°	2172.8	2165.4	2154.3	2132.0	2106.1	2087.5	2102.4	2098.7	2117.2	2124.6	2087.5
22.5°	2302.6	2284.1	2276.6	2247.0	2217.3	2198.8	2198.8	2206.2	2224.7	2224.7	2169.1
25°	2458.3	2432.4	2413.8	2380.5	2343.4	2321.1	2324.8	2332.3	2358.2	2339.7	2254.4
27.5°	2651.1	2625.2	2599.2	2532.5	2495.4	2450.9	2447.2	2454.6	2495.4	2447.2	2336.0
30°	2832.8	2821.7	2799.5	2747.5	2688.2	2614.1	2580.7	2584.4	2614.1	2547.3	2406.4
32.5°	2988.6	2973.7	2962.6	2925.5	2884.7	2795.7	2751.3	2755.0	2751.3	2669.7	2491.7
35°	3174.0	3151.7	3144.3	3110.9	3059.0	2999.7	2981.1	2973.7	2951.5	2840.2	2602.9
37.5°	3351.9	3329.7	3318.6	3300.0	3259.2	3207.3	3207.3	3203.6	3159.1	3003.4	2714.2
40°	3563.3	3537.3	3504.0	3492.8	3459.5	3422.4	3392.7	3374.2	3296.3	3155.4	2929.2
42.5°	3819.1	3804.3	3785.8	3737.5	3685.6	3678.2	3592.9	3585.5	3529.9	3448.3	3233.3
45°	4186.2	4156.5	4130.6	4115.8	4052.7	3986.0	3867.3	3837.7	3837.7	3819.1	3589.2
47.5°	4557.0	4505.1	4542.2	4531.0	4516.2	4442.0	4212.2	4215.9	4208.5	4256.7	4112.0
50°	4805.4	4775.8	4879.6	4927.8	5031.6	5031.6	4701.6	4660.8	4690.5	4831.4	4646.0
52.5°	4998.2	4979.7	5098.3	5287.4	5595.2	5624.9	5283.7	5198.5	5239.2	5439.5	5365.3
55°	5154.0	5135.4	5272.6	5602.6	6095.8	6277.5	5954.9	5917.8	5836.2	6051.3	6073.5
57.5°	5246.7	5205.9	5413.5	5854.8	6503.6	6922.6	6740.9	6729.8	6540.7	6740.9	6841.0
60°	5105.8	5079.8	5365.3	5958.6	6833.6	7530.7	7664.2	7664.2	7326.8	7434.3	7556.7
62.5°	4649.7	4616.3	4916.7	5717.6	6874.4	8027.6	8580.0	8535.6	8083.2	8079.5	7972.0
65°	3782.0	3741.3	4078.7	4924.1	6359.0	8086.9	9199.3	9173.3	8650.5	8502.2	7997.9
67°	2747.5	2721.6	3010.8	3848.8	5357.9	7571.5	9277.1	9299.4	8876.7	8561.5	7623.4
67.5°	2465.7	2462.0	2703.0	3533.6	5065.0	7382.4	9225.2	9247.5	8873.0	8513.3	7475.1
70°	1149.4	1201.4	1427.5	2024.5	3415.0	5814.0	8372.4	8457.7	8398.4	7957.1	6296.0
72.5°	533.9	556.2	656.3	978.9	1835.4	3748.7	6785.4	6989.4	7248.9	6826.2	4987.1
75°	330.0	337.4	393.0	508.0	863.9	1802.0	4831.4	5053.8	5446.9	5135.4	3188.8
77.5°	259.6	263.3	300.3	363.4	504.3	774.9	2651.1	2929.2	3440.9	3036.8	1605.5
80°	192.8	200.2	229.9	281.8	356.0	396.7	1127.2	1231.0	1661.1	1271.8	667.4
82.5°	140.9	148.3	178.0	203.9	248.4	252.1	459.8	485.7	711.9	515.4	289.2
85°	118.7	118.7	137.2	152.0	166.9	140.9	226.2	222.5	274.4	233.6	114.9
87.5°	55.6	59.3	129.8	96.4	81.6	59.3	66.7	70.4	85.3	92.7	44.5
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: P572739  
 CATALOG NUMBER: ARCH-S-PA2-110-730-U-T3

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1690.8	1690.8	1690.8	1690.8	1690.8	1690.8	1690.8	1690.8	1690.8	1690.8	1690.8
2.5°	1687.1	1687.1	1687.1	1690.8	1694.5	1694.5	1698.2	1698.2	1701.9	1705.6	1713.0
5°	1701.9	1701.9	1698.2	1701.9	1709.3	1713.0	1720.5	1727.9	1735.3	1742.7	1746.4
7.5°	1731.6	1727.9	1727.9	1727.9	1735.3	1742.7	1753.8	1761.2	1772.4	1776.1	1783.5
10°	1787.2	1779.8	1779.8	1783.5	1787.2	1776.1	1772.4	1768.7	1779.8	1787.2	1794.6
12.5°	1853.9	1846.5	1842.8	1831.7	1816.9	1794.6	1776.1	1761.2	1765.0	1772.4	1783.5
15°	1924.4	1909.6	1902.1	1876.2	1839.1	1790.9	1761.2	1742.7	1742.7	1742.7	1753.8
17.5°	1998.6	1983.7	1954.1	1905.9	1835.4	1768.7	1731.6	1698.2	1683.4	1679.7	1687.1
20°	2069.0	2046.8	1998.6	1924.4	1813.2	1724.2	1676.0	1620.3	1598.1	1583.3	1590.7
22.5°	2135.7	2106.1	2039.3	1924.4	1776.1	1657.4	1572.1	1498.0	1460.9	1453.5	1457.2
25°	2206.2	2169.1	2080.1	1902.1	1694.5	1557.3	1438.7	1360.8	1312.6	1305.2	1316.3
27.5°	2276.6	2221.0	2113.5	1842.8	1601.8	1420.1	1294.1	1219.9	1193.9	1179.1	1182.8
30°	2336.0	2284.1	2146.9	1761.2	1475.7	1260.7	1145.7	1112.4	1093.8	1086.4	1086.4
32.5°	2413.8	2365.6	2169.1	1664.8	1327.4	1116.1	1041.9	1016.0	1001.1	982.6	986.3
35°	2510.2	2465.7	2158.0	1542.5	1186.5	1019.7	960.3	923.3	889.9	863.9	860.2
37.5°	2640.0	2606.6	2102.4	1394.2	1056.7	949.2	889.9	841.7	793.5	752.7	745.3
40°	2855.1	2777.2	2020.8	1231.0	967.8	893.6	823.2	763.8	704.5	660.0	648.9
42.5°	3129.5	2966.3	1909.6	1064.2	893.6	834.3	763.8	686.0	630.3	589.6	589.6
45°	3448.3	3170.2	1776.1	938.1	815.7	774.9	689.7	622.9	589.6	563.6	559.9
47.5°	3826.5	3374.2	1605.5	838.0	752.7	723.0	637.8	597.0	574.7	552.5	548.8
50°	4334.5	3648.6	1479.4	752.7	689.7	663.7	622.9	589.6	567.3	552.5	548.8
52.5°	4916.7	4000.8	1390.5	686.0	637.8	626.6	619.2	593.3	571.0	559.9	556.2
55°	5547.0	4434.6	1305.2	630.3	597.0	611.8	626.6	600.7	585.8	571.0	563.6
57.5°	6140.3	4801.7	1168.0	582.1	567.3	593.3	622.9	604.4	585.8	574.7	571.0
60°	6544.4	4987.1	978.9	537.6	537.6	567.3	611.8	585.8	567.3	571.0	571.0
62.5°	6674.2	4916.7	774.9	496.9	508.0	537.6	578.4	563.6	556.2	574.7	574.7
65°	6481.4	4631.1	619.2	463.5	478.3	500.6	559.9	574.7	597.0	637.8	641.5
67°	5977.1	4171.4	522.8	437.5	452.4	489.4	582.1	634.0	634.0	678.5	678.5
67.5°	5828.8	4015.6	508.0	430.1	448.7	489.4	593.3	648.9	634.0	686.0	686.0
70°	4738.7	3159.1	430.1	407.9	433.8	515.4	641.5	652.6	619.2	667.4	663.7
72.5°	3515.1	2284.1	393.0	385.6	404.2	485.7	637.8	626.6	578.4	593.3	582.1
75°	2172.8	1323.7	363.4	356.0	367.1	430.1	589.6	571.0	515.4	504.3	493.1
77.5°	1049.3	671.1	311.5	322.6	333.7	374.5	519.1	500.6	452.4	426.4	422.7
80°	456.1	344.8	267.0	285.5	289.2	318.9	430.1	407.9	363.4	322.6	322.6
82.5°	226.2	192.8	211.3	237.3	229.9	255.8	337.4	300.3	267.0	222.5	215.1
85°	103.8	111.2	155.7	178.0	155.7	159.4	229.9	211.3	166.9	126.1	129.8
87.5°	37.1	51.9	89.0	107.5	77.9	74.2	122.4	89.0	51.9	14.8	18.5
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)