

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: P572674

Luminaire Tested: **ARCH-S-PA2-100-740-U-T2U**

Issue Date: 10/13/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P572674  
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-PA2-100-740-U-T2U  
Description: ARCHEON ROADWAY AND AREA LUMINAIRE  
(2) 70 CRI, 4000K, 1010mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II U OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 13738 lumens  
Efficiency: N/A  
Efficacy: 133.2 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3

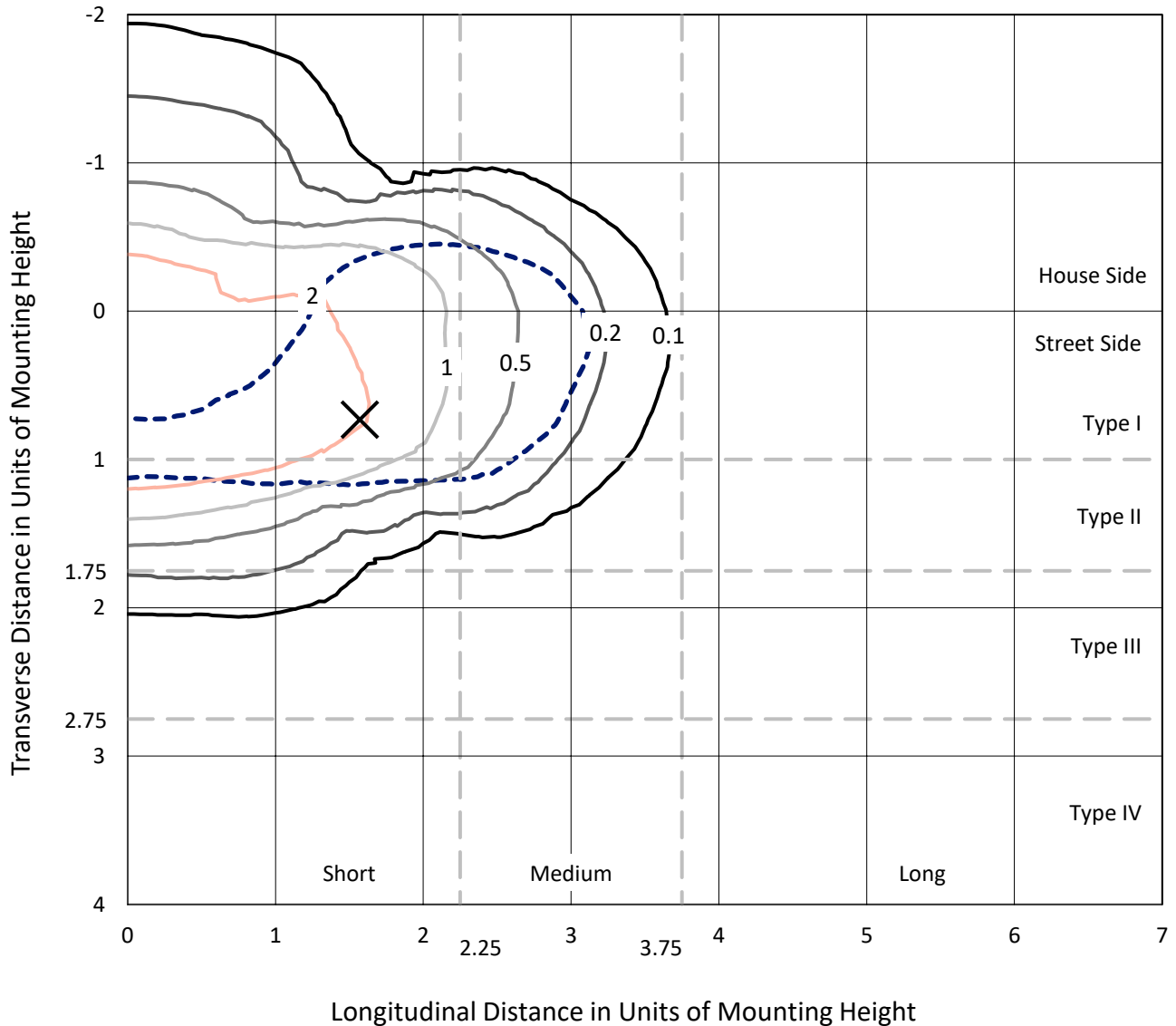
Input Watts (W): 103.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

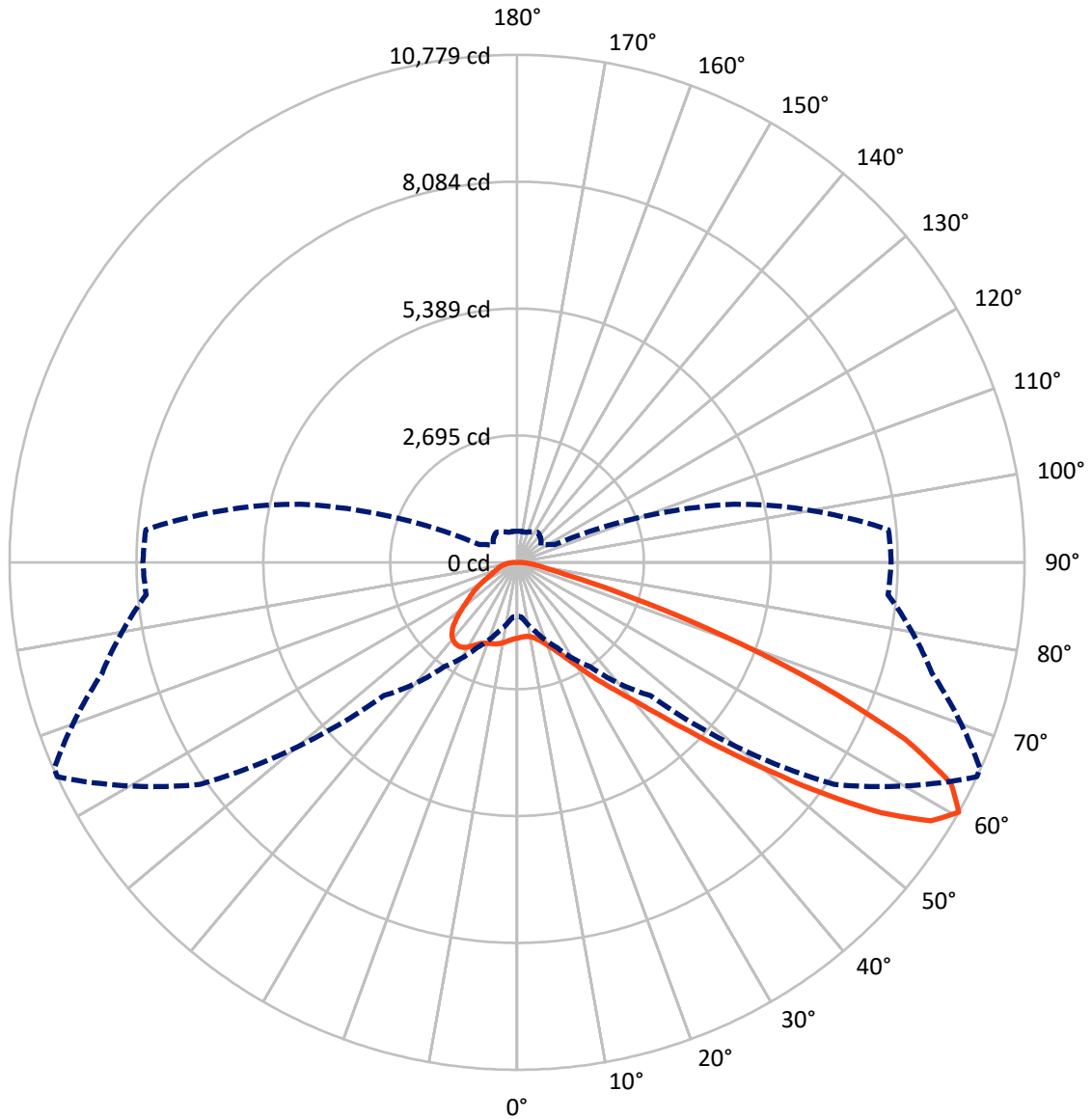
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.6 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



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

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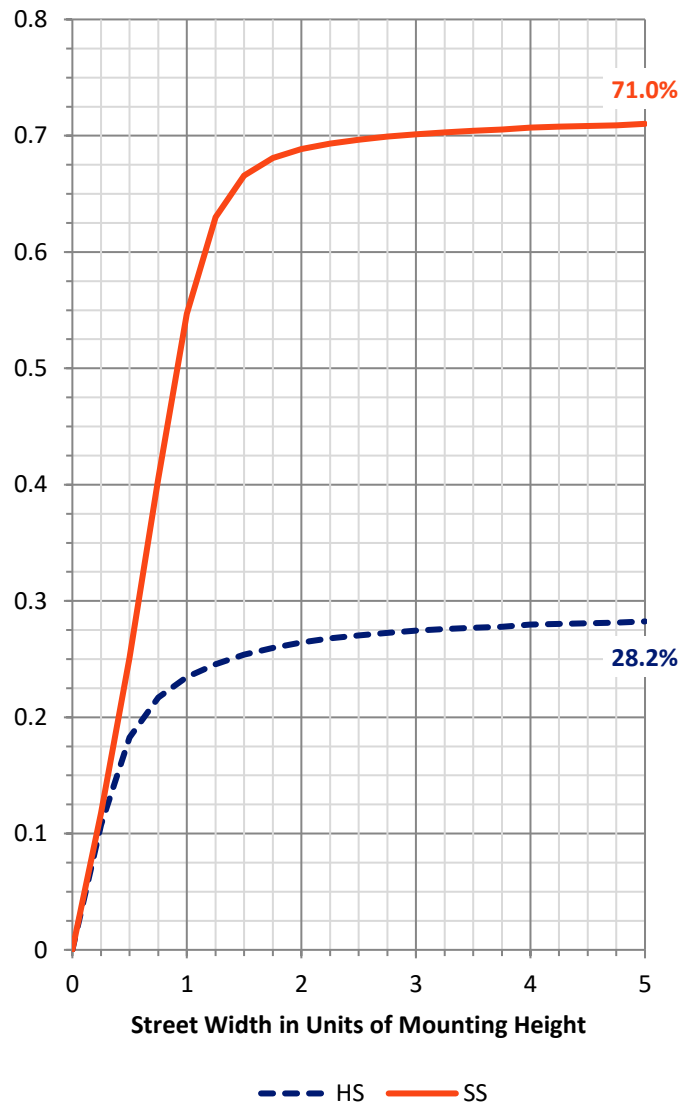
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3932.8	0.0	3932.8
	% Fixture	28.6	0.0	28.6
<b>Street Side</b>	Lumens	9805.2	0.0	9805.2
	% Fixture	71.4	0.0	71.4
<b>Total</b>	Lumens	13738.0	0.0	13738.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	155.7	1.1
10°-20°	501.2	3.6
20°-30°	960.8	7.0
30°-40°	1668.7	12.1
40°-50°	2830.1	20.6
50°-60°	3524.0	25.7
60°-70°	2839.7	20.7
70°-80°	1075.3	7.8
80°-90°	182.4	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°	13738.0	100.0
0°-180°	13738.0	100.0

**Coefficient of Utilization**

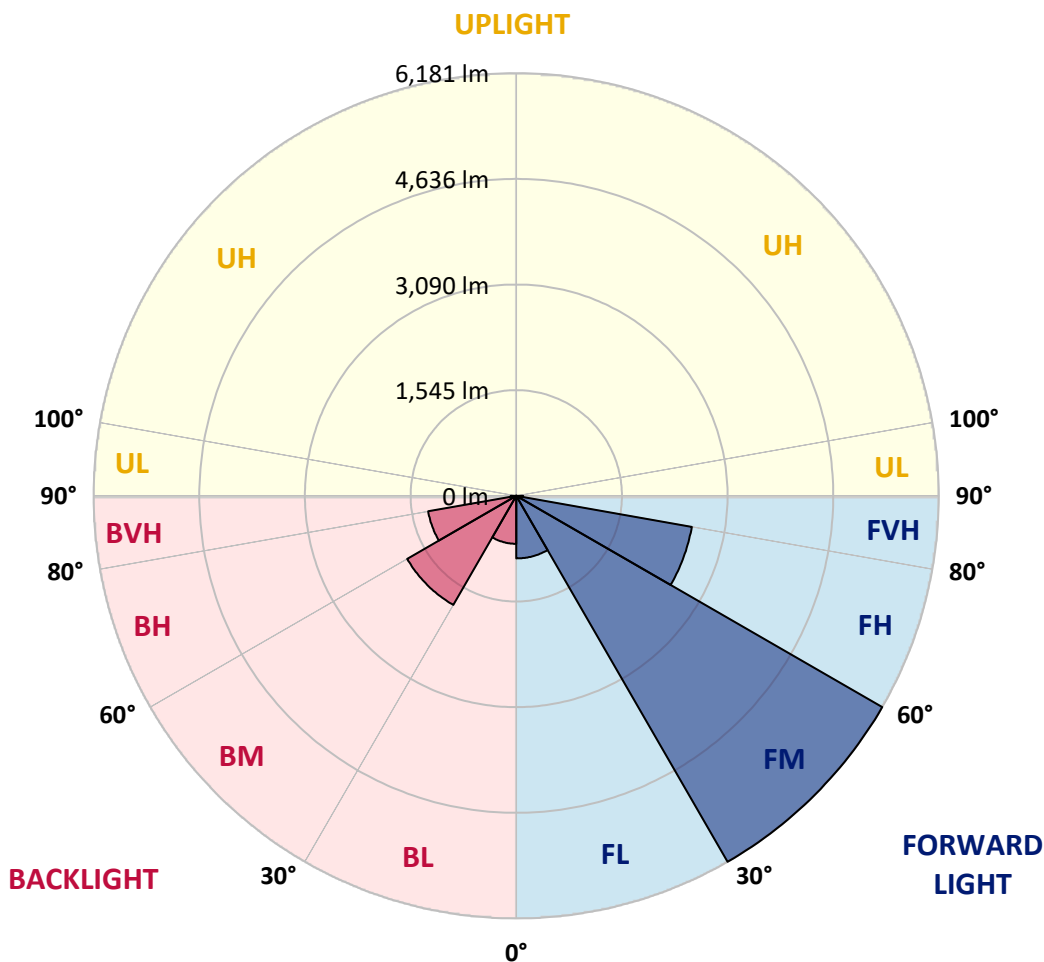


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	915.9	6.7			
FM (30°-60°)	6180.7	45.0			
FH (60°-80°)	2607.4	19.0			G2/5000
FVH (80°-90°)	101.2	0.7			G2/225
BL (0°-30°)	701.9	5.1	B2/1000		
BM (30°-60°)	1842.1	13.4	B2/2500		
BH (60°-80°)	1307.6	9.5	B3/2500		G3/2500
BVH (80°-90°)	81.2	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





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	1611.9	1611.9	1611.9	1611.9	1611.9	1611.9	1611.9	1611.9	1611.9	1611.9	1611.9
2.5°	1574.2	1574.2	1574.2	1578.0	1581.8	1585.5	1593.1	1593.1	1593.1	1596.8	1604.3
5°	1544.1	1540.3	1544.1	1547.9	1555.4	1562.9	1578.0	1585.5	1585.5	1600.6	1615.6
7.5°	1547.9	1540.3	1540.3	1544.1	1551.6	1559.2	1574.2	1585.5	1589.3	1608.1	1634.5
10°	1585.5	1574.2	1574.2	1578.0	1578.0	1585.5	1596.8	1611.9	1615.6	1634.5	1660.8
12.5°	1664.6	1653.3	1649.5	1638.2	1626.9	1634.5	1645.8	1649.5	1653.3	1664.6	1691.0
15°	1830.3	1811.5	1781.4	1758.8	1728.6	1709.8	1706.0	1709.8	1709.8	1713.6	1728.6
17.5°	2067.6	2045.0	1999.8	1950.8	1879.3	1819.0	1800.2	1785.1	1785.1	1773.8	1773.8
20°	2357.6	2323.7	2270.9	2199.4	2093.9	1984.7	1920.7	1886.8	1875.5	1856.7	1830.3
22.5°	2692.7	2670.1	2602.4	2493.1	2335.0	2188.1	2082.6	2007.3	2007.3	1962.1	1905.6
25°	3088.2	3046.8	2967.7	2839.6	2625.0	2414.1	2270.9	2161.7	2150.4	2078.9	1988.5
27.5°	3472.3	3446.0	3348.0	3178.6	2922.5	2677.7	2478.1	2350.0	2331.2	2218.2	2078.9
30°	3939.3	3909.2	3762.3	3525.0	3250.1	2971.4	2737.9	2572.2	2553.4	2399.0	2203.2
32.5°	4519.3	4417.6	4236.8	3965.7	3611.7	3299.1	3031.7	2854.7	2832.1	2655.1	2421.6
35°	5223.5	5136.9	4824.3	4538.1	4116.3	3705.8	3385.7	3152.2	3122.1	2911.2	2617.4
37.5°	5720.7	5679.2	5464.6	5238.6	4756.6	4202.9	3811.3	3487.4	3457.3	3178.6	2798.2
40°	6033.3	5991.8	5931.6	5867.5	5600.2	4975.0	4323.5	3882.8	3833.9	3570.2	3159.7
42.5°	6195.2	6161.3	6172.6	6300.6	6376.0	6278.0	5054.1	4410.1	4376.2	4056.1	3600.4
45°	6101.0	6078.4	6187.7	6526.6	6895.7	7618.8	5991.8	5103.0	5012.6	4632.3	4135.2
47.5°	5649.1	5581.3	5837.4	6413.6	7204.5	8259.0	7121.6	5957.9	5860.0	5313.9	4677.5
50°	4718.9	4700.1	5050.3	5780.9	7084.0	8511.3	8330.6	6967.2	6895.7	6048.3	5280.0
52.5°	3852.7	3845.2	4116.3	4786.7	6315.7	8334.3	9208.1	8168.6	7954.0	6786.5	5935.3
55°	2990.3	2986.5	3227.5	3728.4	5039.0	7502.0	9622.3	9392.6	9234.4	7592.4	6609.5
57.5°	2045.0	2018.6	2331.2	2711.6	3784.9	5942.9	9351.2	10360.5	10262.6	8447.3	7325.0
60°	1137.4	1175.0	1521.5	1992.3	2707.8	4003.3	8221.3	10778.5	10763.4	9129.0	7908.8
62.5°	805.9	821.0	967.9	1416.0	1781.4	2293.5	6342.1	10345.4	10465.9	9505.6	8240.2
65°	670.4	677.9	749.4	1047.0	1303.1	1325.7	3954.4	9061.2	9219.4	9388.8	8311.7
67.5°	632.7	636.5	674.1	772.0	1020.6	960.3	1766.3	6918.3	7253.5	8447.3	7844.7
70°	576.2	580.0	636.5	681.7	824.8	757.0	907.6	4594.6	5046.5	6677.3	6763.9
72.5°	493.4	504.7	549.8	640.2	670.4	628.9	700.5	2455.5	2903.6	4466.6	5223.5
75°	425.6	433.1	467.0	542.3	628.9	500.9	595.0	1118.5	1310.6	2621.2	3306.6
77.5°	342.7	346.5	395.4	444.4	527.3	406.7	463.2	670.4	704.3	1280.5	1495.1
80°	259.9	259.9	293.8	354.0	391.7	391.7	338.9	467.0	485.8	610.1	591.3
82.5°	199.6	195.8	222.2	248.6	282.5	327.6	256.1	308.8	316.4	369.1	316.4
85°	131.8	131.8	146.9	169.5	188.3	180.8	199.6	180.8	188.3	229.7	173.2
87.5°	56.5	56.5	79.1	75.3	82.9	86.6	97.9	86.6	86.6	105.5	79.1
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°	1611.9	1611.9	1611.9	1611.9	1611.9	1611.9	1611.9	1611.9	1611.9	1611.9	1611.9
2.5°	1608.1	1611.9	1619.4	1623.2	1634.5	1638.2	1638.2	1645.8	1645.8	1653.3	1653.3
5°	1619.4	1630.7	1642.0	1653.3	1664.6	1668.4	1675.9	1679.7	1679.7	1687.2	1683.4
7.5°	1642.0	1653.3	1675.9	1687.2	1702.3	1709.8	1706.0	1709.8	1706.0	1709.8	1709.8
10°	1672.1	1687.2	1713.6	1728.6	1739.9	1743.7	1732.4	1721.1	1706.0	1706.0	1706.0
12.5°	1706.0	1717.3	1751.2	1762.5	1770.1	1758.8	1728.6	1706.0	1694.7	1698.5	1694.7
15°	1739.9	1751.2	1777.6	1788.9	1788.9	1755.0	1728.6	1721.1	1717.3	1721.1	1721.1
17.5°	1773.8	1785.1	1807.7	1807.7	1796.4	1770.1	1743.7	1717.3	1698.5	1687.2	1687.2
20°	1819.0	1819.0	1826.5	1826.5	1822.8	1781.4	1717.3	1653.3	1615.6	1593.1	1589.3
22.5°	1879.3	1864.2	1849.1	1849.1	1864.2	1755.0	1630.7	1532.8	1472.5	1465.0	1449.9
25°	1943.3	1909.4	1871.7	1898.1	1871.7	1687.2	1510.2	1378.4	1306.8	1280.5	1288.0
27.5°	2011.1	1958.4	1901.9	1977.2	1834.1	1555.4	1340.7	1193.8	1126.1	1107.2	1107.2
30°	2105.2	2026.1	1943.3	2060.0	1762.5	1404.7	1141.1	1035.7	998.0	982.9	979.2
32.5°	2286.0	2165.5	2045.0	2135.4	1683.4	1208.9	1005.5	941.5	896.3	881.3	892.6
35°	2447.9	2278.5	2199.4	2169.3	1559.2	1050.7	922.7	866.2	828.5	809.7	809.7
37.5°	2594.8	2432.9	2372.6	2169.3	1397.2	952.8	870.0	824.8	775.8	760.7	760.7
40°	2914.9	2700.3	2594.8	2139.1	1197.6	903.9	843.6	790.9	749.4	734.4	730.6
42.5°	3355.6	3065.6	2824.6	2071.3	1028.1	881.3	828.5	768.3	734.4	723.1	719.3
45°	3822.6	3566.5	3043.0	1950.8	918.9	858.7	824.8	760.7	719.3	708.0	704.3
47.5°	4387.5	4123.9	3295.3	1766.3	843.6	843.6	821.0	749.4	711.8	700.5	700.5
50°	5012.6	4794.2	3615.4	1555.4	787.1	832.3	813.5	749.4	708.0	696.7	693.0
52.5°	5652.9	5551.2	3950.6	1348.3	730.6	817.2	809.7	749.4	700.5	689.2	689.2
55°	6466.4	6383.5	4338.5	1193.8	685.4	787.1	809.7	741.9	689.2	681.7	681.7
57.5°	7264.8	7234.6	4639.8	1058.3	651.5	749.4	798.4	730.6	677.9	674.1	674.1
60°	7946.4	7916.3	4767.9	888.8	617.6	711.8	775.8	711.8	659.1	662.8	662.8
62.5°	8368.2	8195.0	4673.7	734.4	583.7	677.9	749.4	689.2	640.2	651.5	647.8
65°	8443.5	8040.6	4308.4	613.9	546.1	640.2	719.3	662.8	613.9	640.2	636.5
67.5°	7889.9	7219.6	3623.0	534.8	508.4	598.8	685.4	625.2	583.7	621.4	610.1
70°	6692.3	5863.8	2681.4	474.5	470.8	549.8	640.2	580.0	542.3	561.1	546.1
72.5°	4982.5	4233.1	1736.2	429.3	429.3	493.4	576.2	523.5	485.8	489.6	474.5
75°	3107.0	2602.4	986.7	387.9	387.9	436.9	512.2	459.5	433.1	418.0	436.9
77.5°	1412.3	1144.9	519.7	346.5	350.2	372.8	440.6	391.7	361.5	338.9	350.2
80°	523.5	467.0	338.9	297.5	305.1	308.8	354.0	312.6	286.2	271.2	263.6
82.5°	271.2	252.3	229.7	237.3	248.6	237.3	274.9	233.5	203.4	192.1	161.9
85°	135.6	131.8	139.3	158.2	173.2	146.9	165.7	150.6	124.3	90.4	90.4
87.5°	52.7	56.5	52.7	71.6	79.1	67.8	75.3	52.7	37.7	18.8	15.1
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)