

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: P799877

Luminaire Tested: **ARCH2-60-727-U-T2U**

Issue Date: 4/4/2024

Test Information

Test Method: LM-79-08
Report Number: P799877
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-18)
Test Lab: INNOVATION CENTER
Issue Date: 4/4/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH2-60-727-U-T2U
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 485mA LIGHTSQUARES WITH 10 LEDS EACH AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8622 lumens
Efficiency: N/A
Efficacy: 135.1 lumens/watt
Luminous Opening: Rectangular (W 0.67' x L: 0.33' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G2

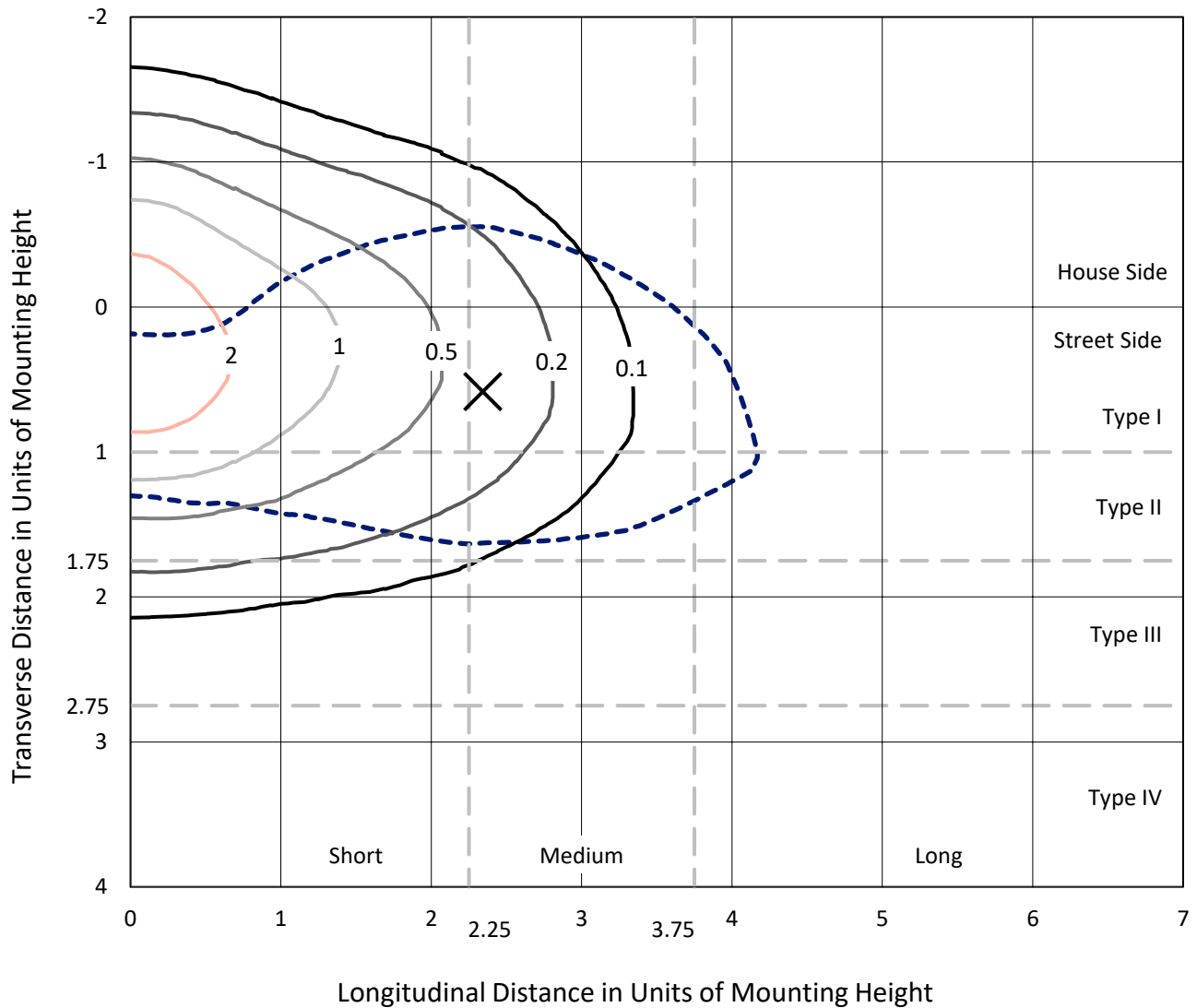
Input Watts (W): 63.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P799877
 CATALOG NUMBER: ARCH2-60-727-U-T2U

Iso-Footcandle Lines of Horizontal Illumination

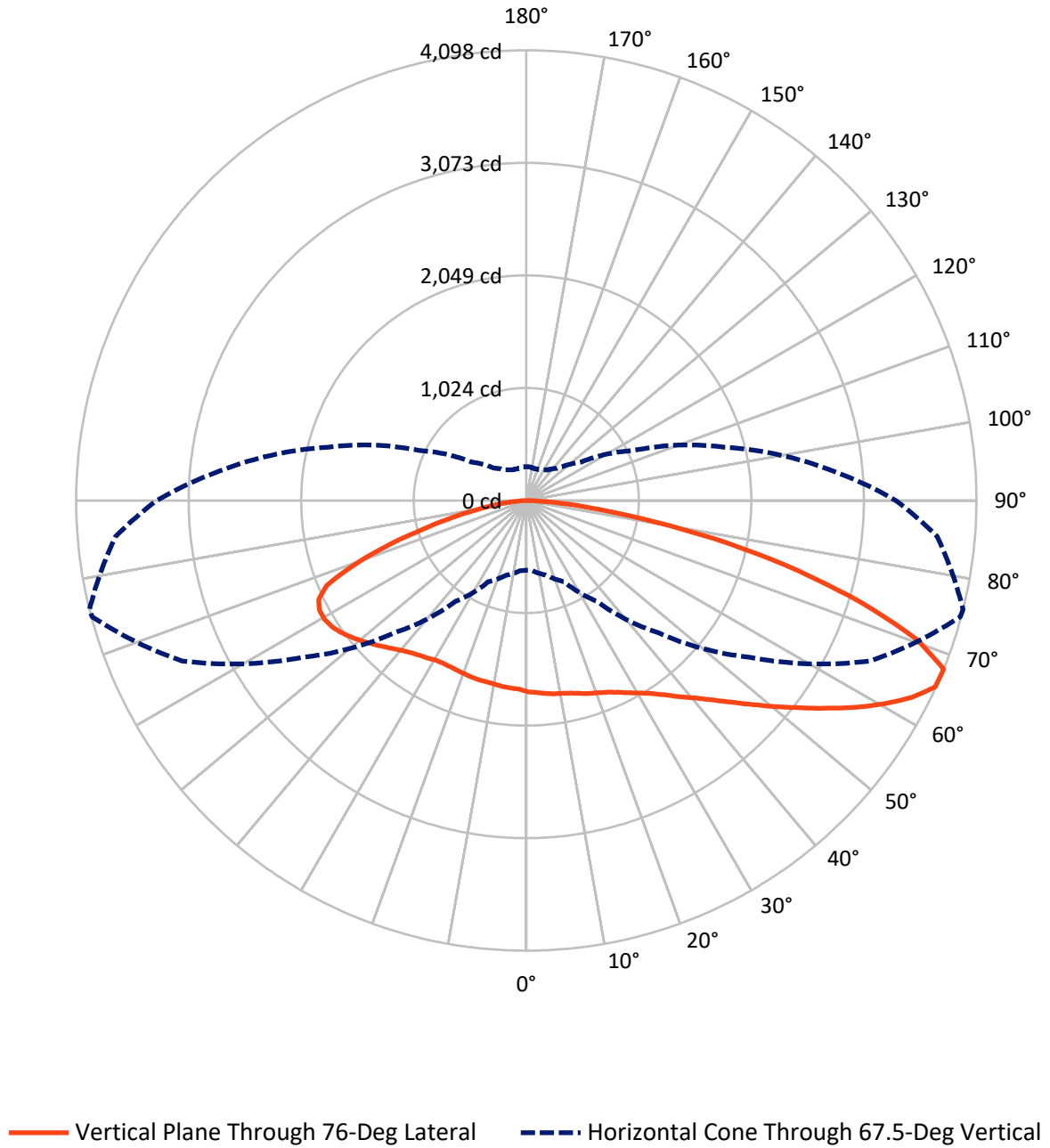
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.2 fc
 Type II - Medium - N/A

REPORT NUMBER: P799877
CATALOG NUMBER: ARCH2-60-727-U-T2U

Luminous Intensity Polar Plot



REPORT NUMBER: P799877
 CATALOG NUMBER: ARCH2-60-727-U-T2U

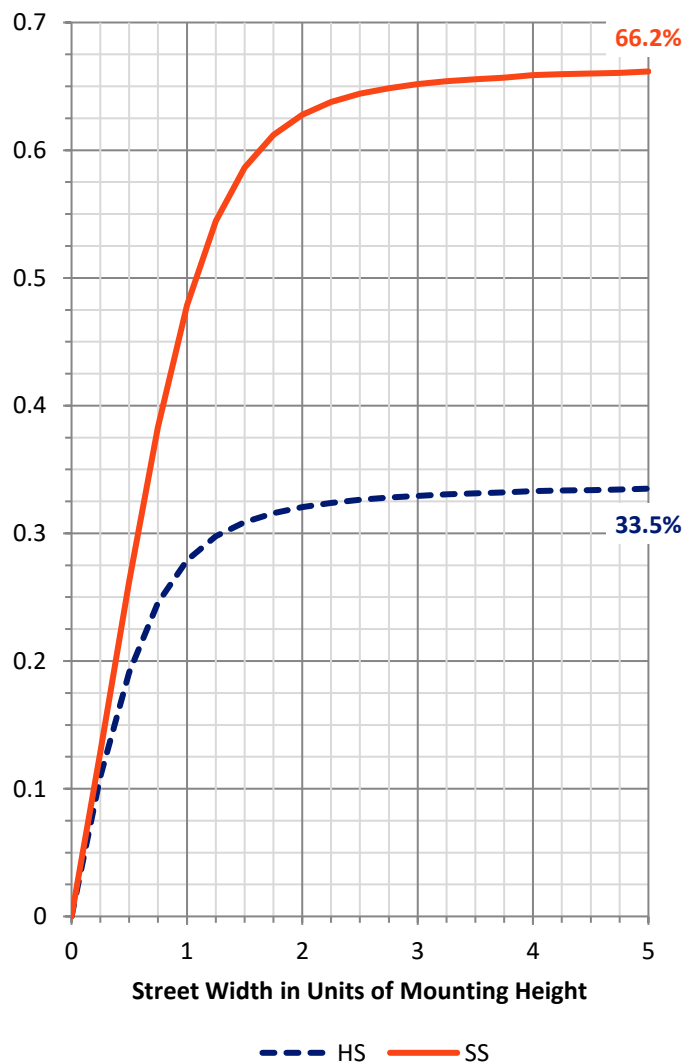
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2913.4	0.0	2913.4
	% Fixture	33.8	0.0	33.8
Street Side	Lumens	5708.6	0.0	5708.6
	% Fixture	66.2	0.0	66.2
Total	Lumens	8622.0	0.0	8622.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	167.9	1.9
10°-20°	513.4	6.0
20°-30°	872.3	10.1
30°-40°	1241.2	14.4
40°-50°	1567.6	18.2
50°-60°	1697.2	19.7
60°-70°	1578.6	18.3
70°-80°	847.8	9.8
80°-90°	135.9	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°	8622.0	100.0
0°-180°	8622.0	100.0

Coefficient of Utilization



REPORT NUMBER: P799877

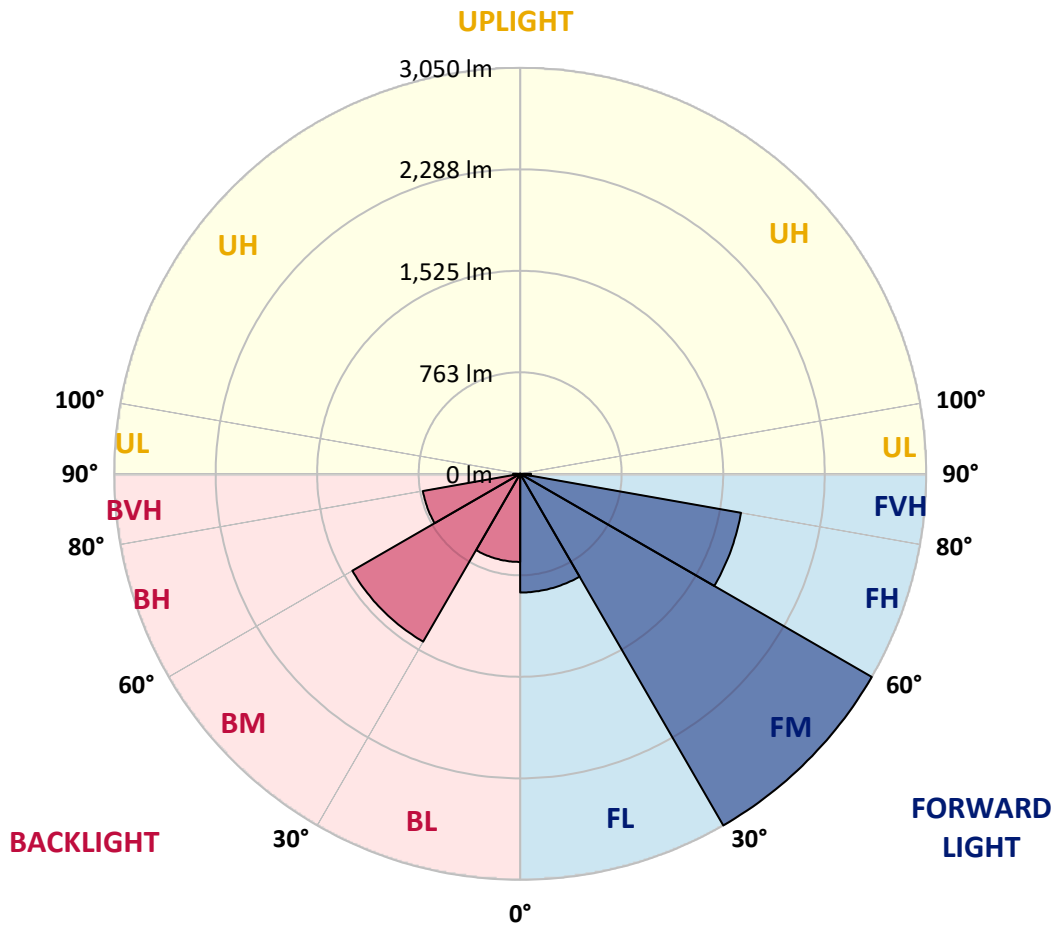
CATALOG NUMBER: ARCH2-60-727-U-T2U

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	891.6	10.3			
FM (30°-60°)	3050.1	35.4			
FH (60°-80°)	1684.7	19.5			G1/1800
FVH (80°-90°)	82.2	1.0			G1/100
BL (0°-30°)	662.1	7.7	B2/1000		
BM (30°-60°)	1455.9	16.9	B2/2500		
BH (60°-80°)	741.8	8.6	B2/1000		G2/1000
BVH (80°-90°)	53.7	0.6			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 II Medium



REPORT NUMBER: P799877
 CATALOG NUMBER: ARCH2-60-727-U-T2U

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1741.6	1741.6	1741.6	1741.6	1741.6	1741.6	1741.6	1741.6	1741.6	1741.6	1741.6
2.5°	1794.4	1791.2	1778.4	1780.0	1780.0	1778.4	1759.2	1751.2	1751.2	1749.6	1732.0
5°	1858.5	1853.7	1839.3	1836.1	1829.7	1821.7	1791.2	1773.6	1765.6	1764.0	1740.0
7.5°	1933.7	1927.3	1909.7	1900.1	1884.1	1863.3	1824.9	1797.7	1778.4	1776.8	1743.2
10°	2009.0	2002.5	1981.7	1964.1	1941.7	1908.1	1858.5	1818.5	1788.0	1784.8	1744.8
12.5°	2098.6	2092.2	2066.6	2044.2	2010.6	1965.7	1900.1	1845.7	1804.1	1799.3	1749.6
15°	2193.0	2183.4	2157.8	2132.2	2090.6	2033.0	1954.5	1882.5	1829.7	1821.7	1764.0
17.5°	2271.5	2258.7	2237.9	2212.2	2165.8	2098.6	2009.0	1919.3	1853.7	1847.3	1778.4
20°	2338.7	2329.1	2306.7	2282.7	2233.1	2159.4	2060.2	1956.1	1876.1	1868.1	1789.6
22.5°	2402.7	2389.9	2377.1	2359.5	2305.1	2223.5	2119.4	2000.9	1904.9	1895.3	1804.1
25°	2476.4	2462.0	2457.2	2447.6	2383.5	2300.3	2191.4	2057.0	1944.9	1933.7	1829.7
27.5°	2567.6	2551.6	2542.0	2542.0	2465.2	2378.7	2268.3	2122.6	1991.3	1981.7	1861.7
30°	2663.7	2644.5	2630.0	2630.0	2543.6	2457.2	2343.5	2188.2	2044.2	2033.0	1903.3
32.5°	2748.5	2729.3	2713.3	2711.7	2622.0	2535.6	2421.9	2260.3	2108.2	2093.8	1954.5
35°	2814.1	2796.5	2782.1	2785.3	2700.5	2615.6	2510.0	2356.3	2188.2	2172.2	2021.8
37.5°	2854.2	2847.7	2839.7	2851.0	2772.5	2692.5	2601.2	2449.2	2279.5	2265.1	2105.0
40°	2875.0	2870.2	2902.2	2916.6	2833.3	2761.3	2692.5	2545.2	2378.7	2362.7	2201.0
42.5°	2905.4	2945.4	2958.2	2955.0	2878.2	2814.1	2775.7	2649.3	2495.6	2481.2	2316.3
45°	2796.5	2786.9	2857.4	2895.8	2881.4	2847.7	2854.2	2774.1	2631.6	2617.2	2449.2
47.5°	2650.9	2638.0	2678.1	2772.5	2828.5	2860.6	2924.6	2903.8	2788.5	2775.7	2604.4
50°	2343.5	2361.1	2510.0	2636.4	2746.9	2857.4	2983.8	3043.0	2961.4	2948.6	2770.9
52.5°	2002.5	2020.2	2175.4	2466.8	2647.7	2833.3	3027.0	3182.3	3148.7	3134.3	2948.6
55°	1754.4	1792.8	1968.9	2180.2	2506.8	2758.1	3052.6	3324.8	3350.4	3337.6	3142.3
57.5°	1507.9	1536.7	1669.6	1856.9	2314.7	2626.8	3051.0	3457.6	3561.7	3548.9	3339.2
60°	1218.2	1255.0	1360.6	1562.3	2058.6	2470.0	3006.2	3561.7	3765.0	3755.4	3529.7
62.5°	1019.7	1030.9	1106.1	1280.6	1728.8	2271.5	2905.4	3617.7	3949.1	3942.7	3701.0
65°	821.2	822.8	891.6	1037.3	1410.3	2025.0	2734.1	3596.9	4088.3	4091.5	3824.2
67.5°	633.9	641.9	704.3	814.8	1120.5	1704.8	2489.2	3456.0	4089.9	4097.9	3753.8
70°	438.6	445.0	539.5	646.7	866.0	1359.0	2157.8	3083.1	3753.8	3760.2	3364.8
72.5°	308.9	312.1	413.0	517.0	677.1	1024.5	1628.0	2550.0	3199.9	3204.7	2830.1
75°	230.5	233.7	291.3	392.2	518.6	709.1	1112.5	1952.9	2556.4	2556.4	2234.7
77.5°	163.3	164.9	188.9	270.5	345.8	478.6	669.1	1279.0	1876.1	1879.3	1628.0
80°	110.5	112.1	123.3	182.5	216.1	259.3	363.4	670.7	1183.0	1187.8	1034.1
82.5°	57.6	60.8	68.8	92.8	108.9	144.1	187.3	341.0	654.7	667.5	621.1
85°	22.4	22.4	25.6	30.4	40.0	56.0	86.4	129.7	296.1	305.7	273.7
87.5°	8.0	8.0	9.6	9.6	11.2	12.8	14.4	19.2	33.6	33.6	32.0
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: P799877
 CATALOG NUMBER: ARCH2-60-727-U-T2U

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1741.6	1741.6	1741.6	1741.6	1741.6	1741.6	1741.6	1741.6	1741.6	1741.6	1741.6
2.5°	1725.6	1725.6	1717.6	1720.8	1719.2	1716.0	1712.8	1717.6	1712.8	1701.6	1700.0
5°	1728.8	1725.6	1712.8	1711.2	1706.4	1700.0	1692.0	1695.2	1687.2	1677.6	1676.0
7.5°	1730.4	1724.0	1706.4	1700.0	1690.4	1677.6	1664.8	1664.8	1653.6	1644.0	1642.4
10°	1727.2	1719.2	1695.2	1682.4	1664.8	1645.6	1628.0	1623.2	1610.4	1599.2	1599.2
12.5°	1728.8	1717.6	1687.2	1666.4	1642.4	1618.4	1596.0	1589.6	1578.3	1567.1	1565.5
15°	1738.4	1722.4	1684.0	1656.8	1621.6	1594.4	1570.3	1565.5	1555.9	1547.9	1547.9
17.5°	1748.0	1727.2	1679.2	1640.8	1597.6	1567.1	1544.7	1544.7	1538.3	1533.5	1533.5
20°	1752.8	1728.8	1669.6	1618.4	1568.7	1536.7	1515.9	1519.1	1517.5	1515.9	1515.9
22.5°	1764.0	1732.0	1661.6	1597.6	1538.3	1504.7	1485.5	1490.3	1488.7	1488.7	1490.3
25°	1781.6	1740.0	1655.2	1578.3	1509.5	1472.7	1451.9	1455.1	1455.1	1455.1	1455.1
27.5°	1805.7	1756.0	1653.6	1560.7	1480.7	1439.1	1413.5	1413.5	1407.1	1408.7	1410.3
30°	1842.5	1786.4	1656.8	1544.7	1450.3	1397.5	1367.0	1362.2	1360.6	1363.8	1365.4
32.5°	1887.3	1828.1	1676.0	1533.5	1418.3	1351.0	1312.6	1311.0	1306.2	1306.2	1306.2
35°	1943.3	1868.1	1693.6	1531.9	1386.3	1301.4	1259.8	1255.0	1243.8	1239.0	1239.0
37.5°	2015.4	1930.5	1714.4	1520.7	1359.0	1253.4	1203.8	1187.8	1175.0	1173.4	1173.4
40°	2103.4	2000.9	1744.8	1507.9	1330.2	1203.8	1138.1	1110.9	1112.5	1118.9	1118.9
42.5°	2207.4	2087.4	1783.2	1501.5	1288.6	1152.5	1061.3	1029.3	1040.5	1046.9	1048.5
45°	2329.1	2189.8	1826.5	1493.5	1250.2	1094.9	979.7	939.6	944.4	946.0	947.6
47.5°	2470.0	2303.5	1871.3	1487.1	1207.0	1022.9	890.0	837.2	835.6	826.0	829.2
50°	2617.2	2423.5	1917.7	1475.9	1154.1	938.0	795.6	733.1	720.3	705.9	707.5
52.5°	2774.1	2546.8	1960.9	1458.3	1088.5	851.6	705.9	638.7	613.1	597.1	600.3
55°	2947.0	2673.3	2002.5	1431.1	1019.7	765.2	625.9	557.1	525.0	512.2	513.8
57.5°	3105.5	2794.9	2033.0	1397.5	944.4	686.7	555.5	488.2	467.4	465.8	467.4
60°	3259.1	2897.4	2045.8	1351.0	867.6	614.7	489.8	438.6	424.2	432.2	433.8
62.5°	3388.8	2963.0	2039.4	1288.6	789.2	545.9	437.0	400.2	390.6	406.6	408.2
65°	3464.0	2983.8	1994.5	1199.0	704.3	478.6	387.4	347.4	342.6	352.2	357.0
67.5°	3364.8	2854.2	1872.9	1075.7	609.9	416.2	339.4	307.3	299.3	307.3	307.3
70°	2982.2	2473.2	1584.8	880.4	505.8	355.4	294.5	272.1	265.7	272.1	270.5
72.5°	2484.4	2057.0	1248.6	686.7	398.6	299.3	256.1	235.3	228.9	222.5	219.3
75°	1927.3	1562.3	906.0	504.2	300.9	240.1	214.5	195.3	179.3	185.7	182.5
77.5°	1411.9	1096.5	641.9	349.0	216.1	185.7	168.1	153.7	142.5	155.3	153.7
80°	909.2	709.1	429.0	233.7	148.9	129.7	123.3	115.3	126.5	164.9	168.1
82.5°	555.5	449.8	256.1	152.1	97.6	86.4	80.0	80.0	129.7	142.5	144.1
85°	248.1	238.5	139.3	78.4	54.4	49.6	44.8	57.6	52.8	38.4	40.0
87.5°	40.0	41.6	30.4	27.2	20.8	20.8	16.0	11.2	8.0	4.8	4.8
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)