

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: P799989

Luminaire Tested: **ARCH2-70-722-U-T2U**

Issue Date: 4/4/2024

Test Information

Test Method: LM-79-08
Report Number: P799989
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: ARCH2-70-722-U-T2U
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2200K, 555mA LIGHTSQUARES WITH 10 LEDS EACH AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8757 lumens
Efficiency: N/A
Efficacy: 119.0 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

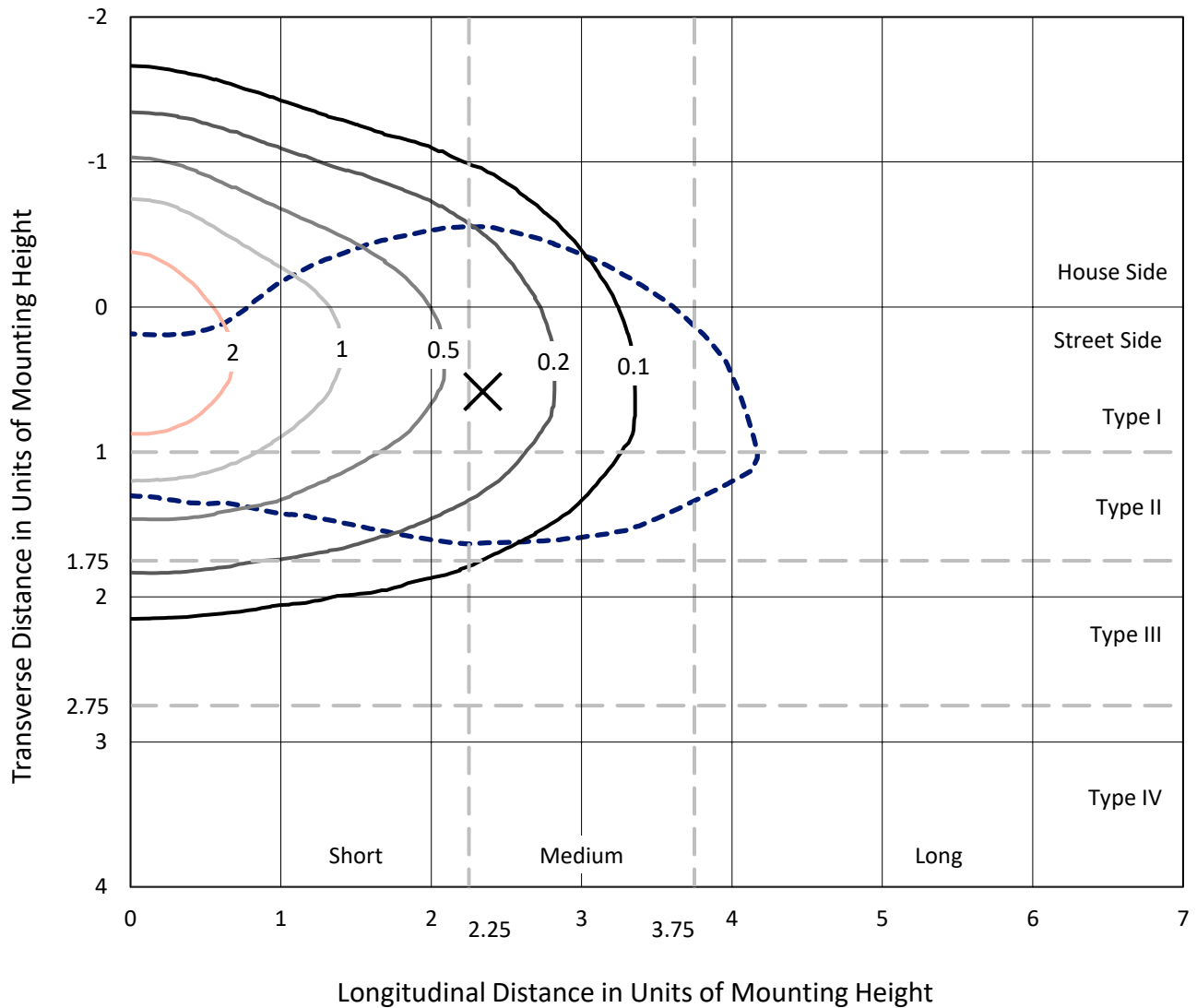
Input Watts (W): 73.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

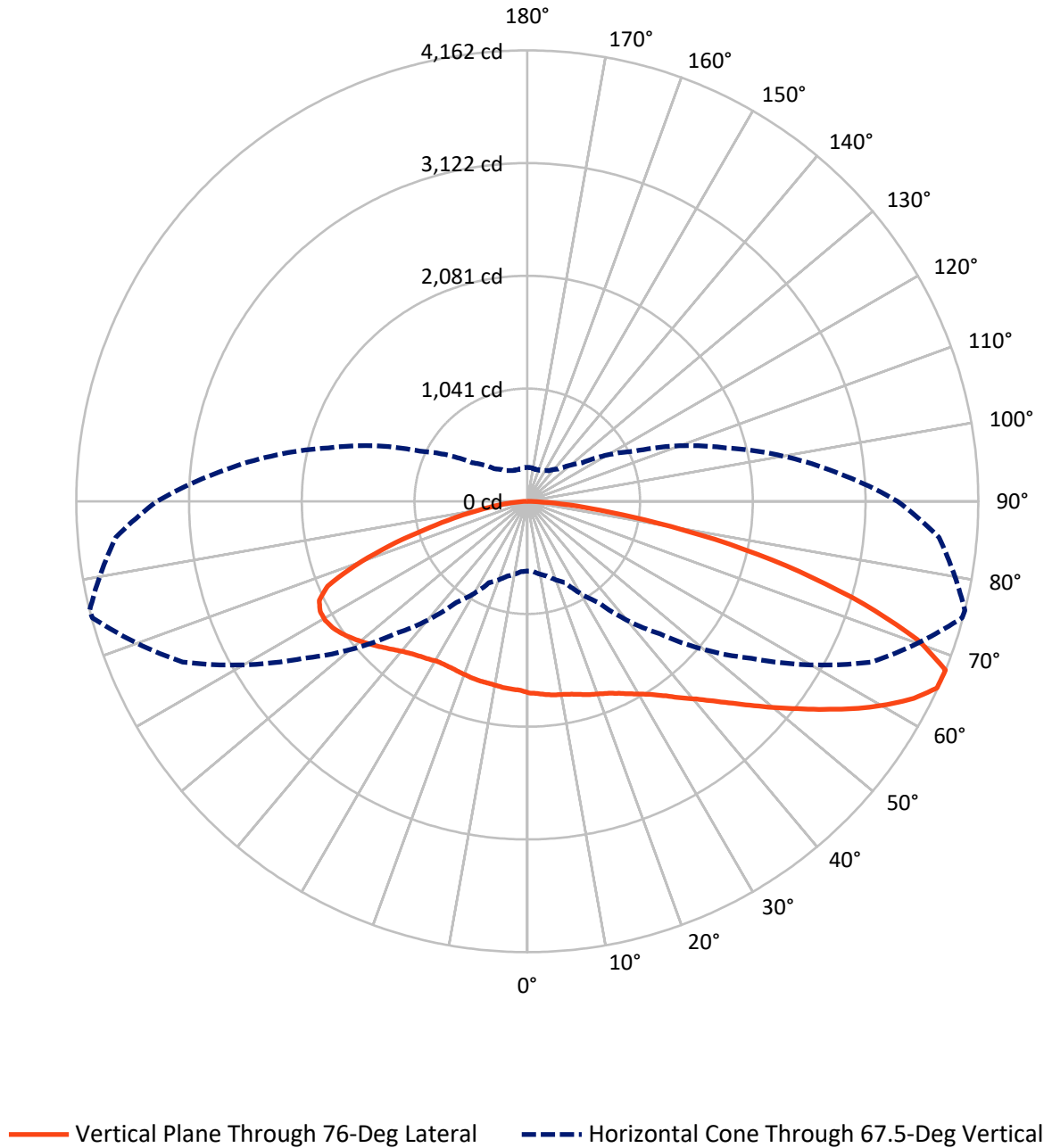
✕ Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



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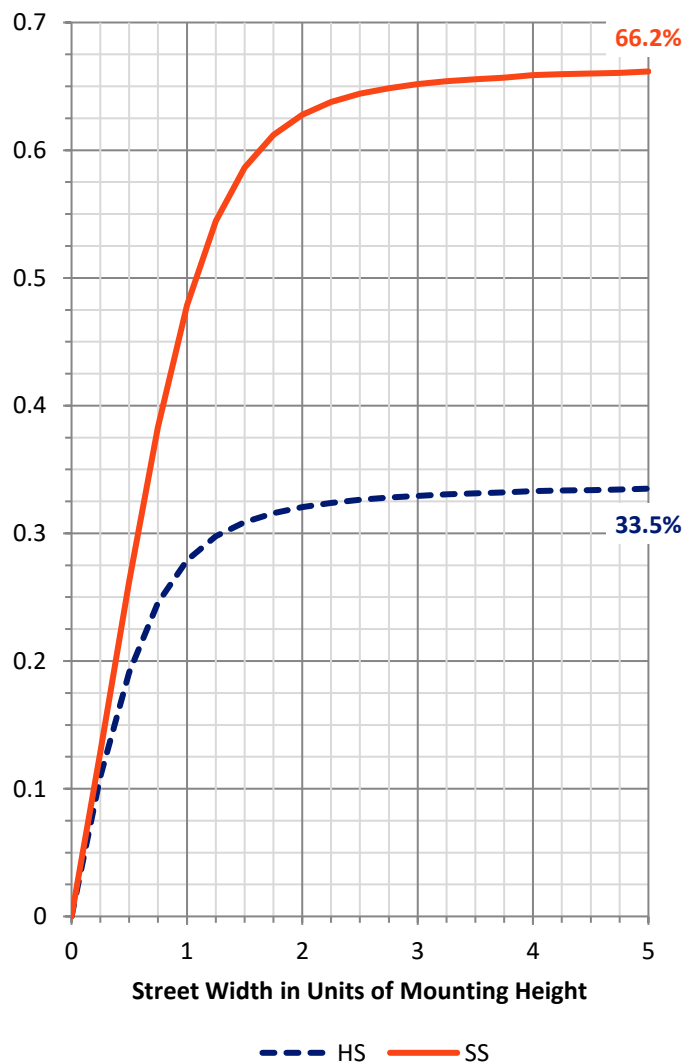
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2959.0	0.0	2959.0
	% Fixture	33.8	0.0	33.8
Street Side	Lumens	5798.0	0.0	5798.0
	% Fixture	66.2	0.0	66.2
Total	Lumens	8757.0	0.0	8757.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	170.6	1.9
10°-20°	521.5	6.0
20°-30°	886.0	10.1
30°-40°	1260.6	14.4
40°-50°	1592.1	18.2
50°-60°	1723.8	19.7
60°-70°	1603.3	18.3
70°-80°	861.1	9.8
80°-90°	138.0	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°	8757.0	100.0
0°-180°	8757.0	100.0

Coefficient of Utilization



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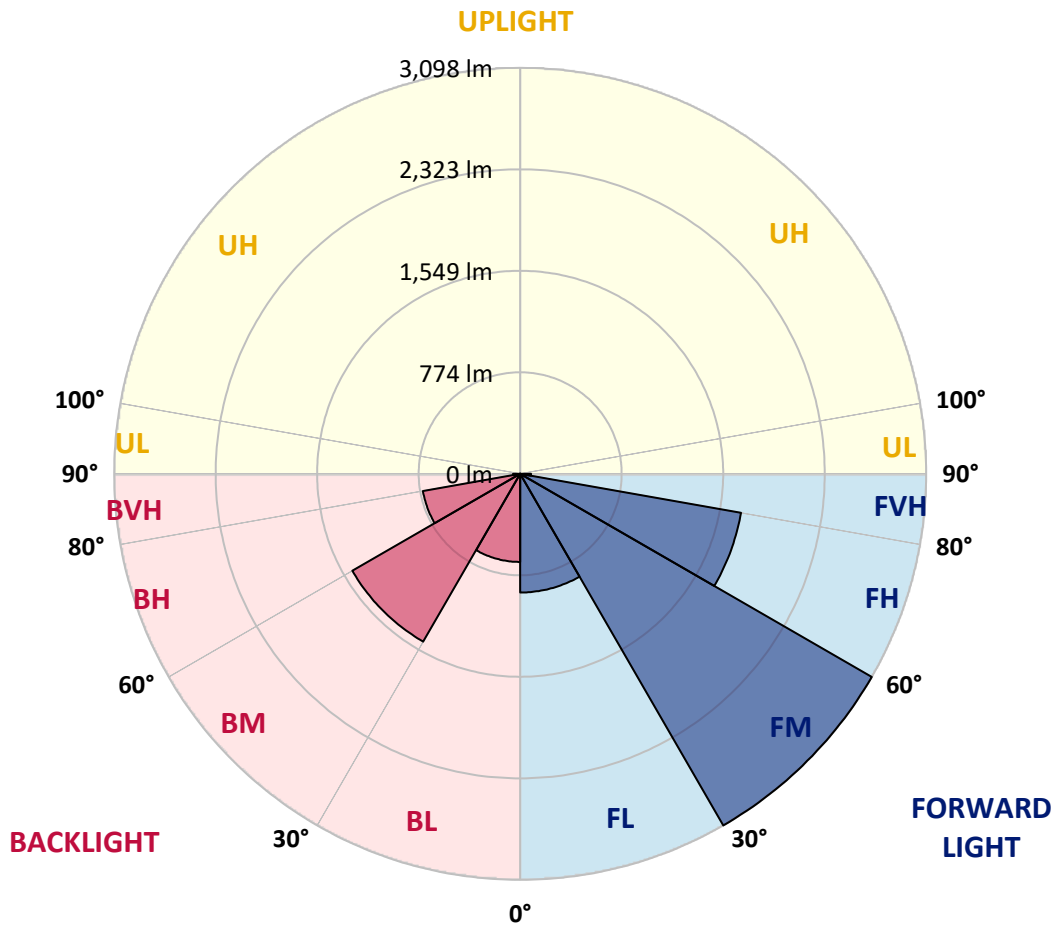
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	905.6	10.3			
FM (30°-60°)	3097.9	35.4			
FH (60°-80°)	1711.0	19.5			G1/1800
FVH (80°-90°)	83.5	1.0			G1/100
BL (0°-30°)	672.5	7.7	B2/1000		
BM (30°-60°)	1478.7	16.9	B2/2500		
BH (60°-80°)	753.4	8.6	B2/1000		G2/1000
BVH (80°-90°)	54.5	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



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1768.9	1768.9	1768.9	1768.9	1768.9	1768.9	1768.9	1768.9	1768.9	1768.9	1768.9
2.5°	1822.5	1819.3	1806.3	1807.9	1807.9	1806.3	1786.8	1778.6	1778.6	1777.0	1759.1
5°	1887.6	1882.7	1868.1	1864.8	1858.3	1850.2	1819.3	1801.4	1793.3	1791.7	1767.3
7.5°	1964.0	1957.5	1939.6	1929.9	1913.6	1892.5	1853.4	1825.8	1806.3	1804.7	1770.5
10°	2040.4	2033.9	2012.8	1994.9	1972.1	1938.0	1887.6	1846.9	1816.0	1812.8	1772.1
12.5°	2131.5	2124.9	2098.9	2076.2	2042.0	1996.5	1929.9	1874.6	1832.3	1827.4	1777.0
15°	2227.4	2217.6	2191.6	2165.6	2123.3	2064.8	1985.1	1912.0	1858.3	1850.2	1791.7
17.5°	2307.0	2294.0	2272.9	2246.9	2199.7	2131.5	2040.4	1949.4	1882.7	1876.2	1806.3
20°	2375.3	2365.6	2342.8	2318.4	2268.0	2193.2	2092.4	1986.8	1905.5	1897.3	1817.7
22.5°	2440.4	2427.4	2414.3	2396.5	2341.2	2258.3	2152.6	2032.3	1934.7	1925.0	1832.3
25°	2515.1	2500.5	2495.6	2485.9	2420.8	2336.3	2225.8	2089.2	1975.4	1964.0	1858.3
27.5°	2607.8	2591.6	2581.8	2581.8	2503.8	2416.0	2303.8	2155.8	2022.5	2012.8	1890.8
30°	2705.4	2685.9	2671.2	2671.2	2583.4	2495.6	2380.2	2222.5	2076.2	2064.8	1933.1
32.5°	2791.5	2772.0	2755.8	2754.1	2663.1	2575.3	2459.9	2295.7	2141.2	2126.6	1985.1
35°	2858.2	2840.3	2825.7	2828.9	2742.8	2656.6	2549.3	2393.2	2222.5	2206.2	2053.4
37.5°	2898.8	2892.3	2884.2	2895.6	2815.9	2734.6	2642.0	2487.5	2315.2	2300.5	2138.0
40°	2920.0	2915.1	2947.6	2962.2	2877.7	2804.5	2734.6	2585.1	2416.0	2399.7	2235.5
42.5°	2950.9	2991.5	3004.5	3001.3	2923.2	2858.2	2819.2	2690.7	2534.7	2520.0	2352.6
45°	2840.3	2830.6	2902.1	2941.1	2926.5	2892.3	2898.8	2817.6	2672.9	2658.2	2487.5
47.5°	2692.4	2679.4	2720.0	2815.9	2872.8	2905.3	2970.4	2949.2	2832.2	2819.2	2645.2
50°	2380.2	2398.1	2549.3	2677.7	2789.9	2902.1	3030.5	3090.7	3007.8	2994.8	2814.3
52.5°	2033.9	2051.8	2209.5	2505.4	2689.1	2877.7	3074.4	3232.1	3198.0	3183.4	2994.8
55°	1781.9	1820.9	1999.8	2214.4	2546.0	2801.3	3100.4	3376.8	3402.8	3389.8	3191.5
57.5°	1531.5	1560.8	1695.7	1886.0	2350.9	2668.0	3098.8	3511.8	3617.5	3604.4	3391.5
60°	1237.3	1274.6	1381.9	1586.8	2090.8	2508.6	3053.3	3617.5	3823.9	3814.2	3584.9
62.5°	1035.6	1047.0	1123.4	1300.7	1755.9	2307.0	2950.9	3674.4	4010.9	4004.4	3758.9
65°	834.0	835.7	905.6	1053.5	1432.3	2056.7	2776.9	3653.2	4152.4	4155.6	3884.1
67.5°	643.8	652.0	715.4	827.5	1138.1	1731.5	2528.2	3510.2	4154.0	4162.1	3812.6
70°	445.5	452.0	547.9	656.8	879.6	1380.3	2191.6	3131.3	3812.6	3819.1	3417.5
72.5°	313.8	317.0	419.5	525.1	687.7	1040.5	1653.5	2589.9	3250.0	3254.9	2874.5
75°	234.1	237.4	295.9	398.3	526.8	720.2	1129.9	1983.5	2596.4	2596.4	2269.6
77.5°	165.8	167.5	191.8	274.8	351.2	486.1	679.6	1299.0	1905.5	1908.7	1653.5
80°	112.2	113.8	125.2	185.3	219.5	263.4	369.1	681.2	1201.5	1206.4	1050.3
82.5°	58.5	61.8	69.9	94.3	110.6	146.3	190.2	346.3	665.0	678.0	630.8
85°	22.8	22.8	26.0	30.9	40.6	56.9	87.8	131.7	300.8	310.5	278.0
87.5°	8.1	8.1	9.8	9.8	11.4	13.0	14.6	19.5	34.1	34.1	32.5
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°	1768.9	1768.9	1768.9	1768.9	1768.9	1768.9	1768.9	1768.9	1768.9	1768.9	1768.9
2.5°	1752.6	1752.6	1744.5	1747.8	1746.1	1742.9	1739.6	1744.5	1739.6	1728.2	1726.6
5°	1755.9	1752.6	1739.6	1738.0	1733.1	1726.6	1718.5	1721.7	1713.6	1703.9	1702.2
7.5°	1757.5	1751.0	1733.1	1726.6	1716.9	1703.9	1690.9	1690.9	1679.5	1669.7	1668.1
10°	1754.3	1746.1	1721.7	1708.7	1690.9	1671.3	1653.5	1648.6	1635.6	1624.2	1624.2
12.5°	1755.9	1744.5	1713.6	1692.5	1668.1	1643.7	1620.9	1614.4	1603.1	1591.7	1590.1
15°	1765.6	1749.4	1710.4	1682.7	1647.0	1619.3	1594.9	1590.1	1580.3	1572.2	1572.2
17.5°	1775.4	1754.3	1705.5	1666.5	1622.6	1591.7	1568.9	1568.9	1562.4	1557.5	1557.5
20°	1780.3	1755.9	1695.7	1643.7	1593.3	1560.8	1539.7	1542.9	1541.3	1539.7	1539.7
22.5°	1791.7	1759.1	1687.6	1622.6	1562.4	1528.3	1508.8	1513.6	1512.0	1512.0	1513.6
25°	1809.5	1767.3	1681.1	1603.1	1533.2	1495.8	1474.6	1477.9	1477.9	1477.9	1477.9
27.5°	1833.9	1783.5	1679.5	1585.2	1503.9	1461.6	1435.6	1435.6	1429.1	1430.7	1432.3
30°	1871.3	1814.4	1682.7	1568.9	1473.0	1419.3	1388.5	1383.6	1381.9	1385.2	1386.8
32.5°	1916.8	1856.7	1702.2	1557.5	1440.5	1372.2	1333.2	1331.5	1326.7	1326.7	1326.7
35°	1973.7	1897.3	1720.1	1555.9	1408.0	1321.8	1279.5	1274.6	1263.3	1258.4	1258.4
37.5°	2046.9	1960.7	1741.3	1544.5	1380.3	1273.0	1222.6	1206.4	1193.4	1191.7	1191.7
40°	2136.3	2032.3	1772.1	1531.5	1351.1	1222.6	1156.0	1128.3	1129.9	1136.4	1136.4
42.5°	2242.0	2120.1	1811.2	1525.0	1308.8	1170.6	1077.9	1045.4	1056.8	1063.3	1064.9
45°	2365.6	2224.1	1855.1	1516.9	1269.8	1112.1	995.0	954.4	959.2	960.9	962.5
47.5°	2508.6	2339.6	1900.6	1510.4	1225.9	1038.9	904.0	850.3	848.7	838.9	842.2
50°	2658.2	2461.5	1947.7	1499.0	1172.2	952.7	808.0	744.6	731.6	717.0	718.6
52.5°	2817.6	2586.7	1991.6	1481.1	1105.6	864.9	717.0	648.7	622.7	606.4	609.7
55°	2993.1	2715.1	2033.9	1453.5	1035.6	777.1	635.7	565.8	533.3	520.3	521.9
57.5°	3154.1	2838.7	2064.8	1419.3	959.2	697.5	564.2	495.9	474.7	473.1	474.7
60°	3310.2	2942.7	2077.8	1372.2	881.2	624.3	497.5	445.5	430.8	439.0	440.6
62.5°	3441.9	3009.4	2071.3	1308.8	801.5	554.4	443.8	406.5	396.7	413.0	414.6
65°	3518.3	3030.5	2025.8	1217.7	715.4	486.1	393.4	352.8	347.9	357.7	362.6
67.5°	3417.5	2898.8	1902.2	1092.6	619.4	422.7	344.7	312.2	304.0	312.2	312.2
70°	3028.9	2511.9	1609.6	894.2	513.8	360.9	299.2	276.4	269.9	276.4	274.8
72.5°	2523.3	2089.2	1268.1	697.5	404.8	304.0	260.1	239.0	232.5	226.0	222.7
75°	1957.5	1586.8	920.2	512.1	305.7	243.9	217.9	198.4	182.1	188.6	185.3
77.5°	1434.0	1113.7	652.0	354.4	219.5	188.6	170.7	156.1	144.7	157.7	156.1
80°	923.5	720.2	435.7	237.4	151.2	131.7	125.2	117.1	128.4	167.5	170.7
82.5°	564.2	456.9	260.1	154.5	99.2	87.8	81.3	81.3	131.7	144.7	146.3
85°	252.0	242.2	141.4	79.7	55.3	50.4	45.5	58.5	53.7	39.0	40.6
87.5°	40.6	42.3	30.9	27.6	21.1	21.1	16.3	11.4	8.1	4.9	4.9
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)