

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: P842446

Luminaire Tested: **ARCH4-50-722-U-T3**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P842446
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2310-189-18)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-50-722-U-T3
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2200K, 435mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8189 lumens
Efficiency: N/A
Efficacy: 153.9 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G2

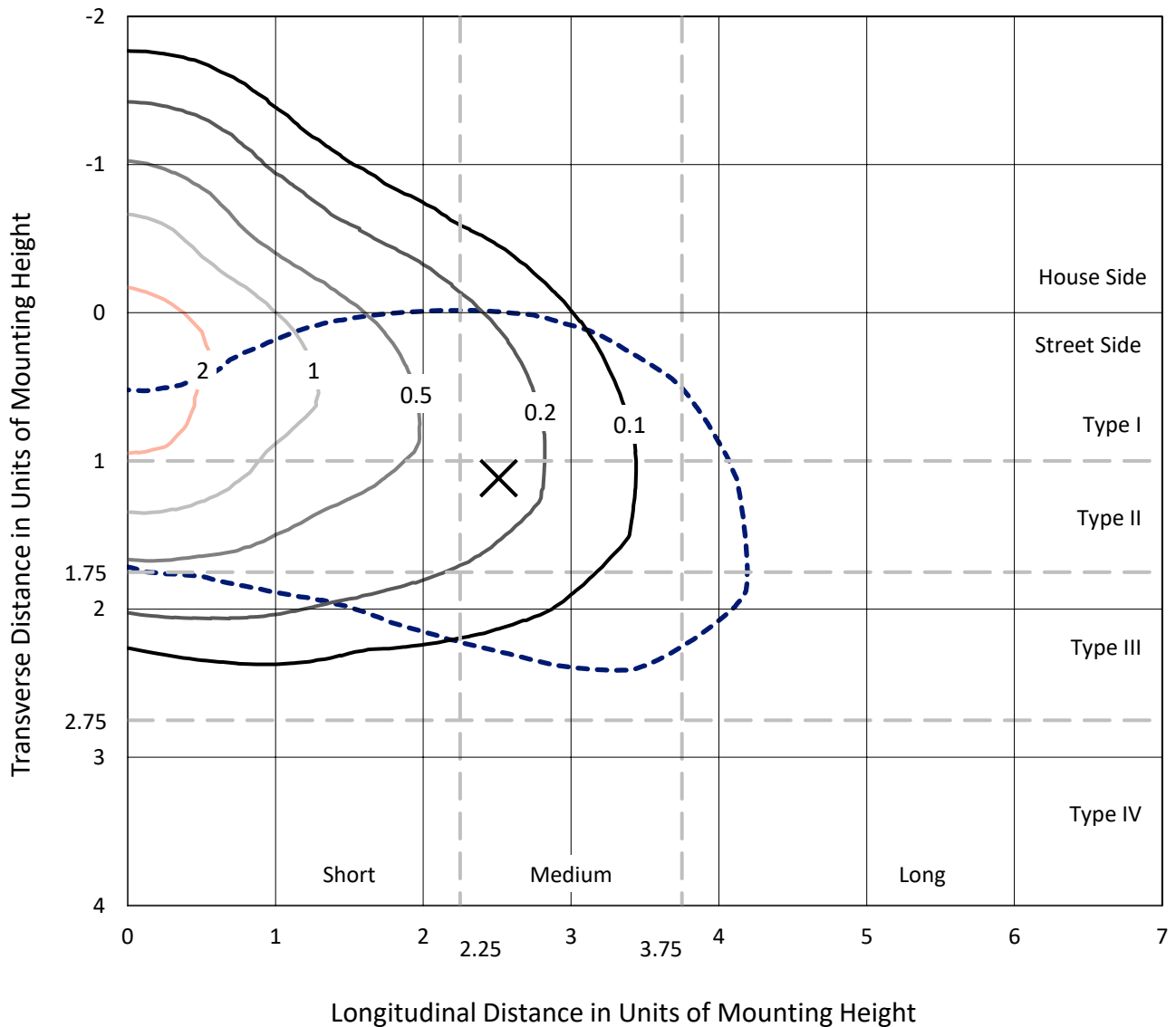
Input Watts (W): 53.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

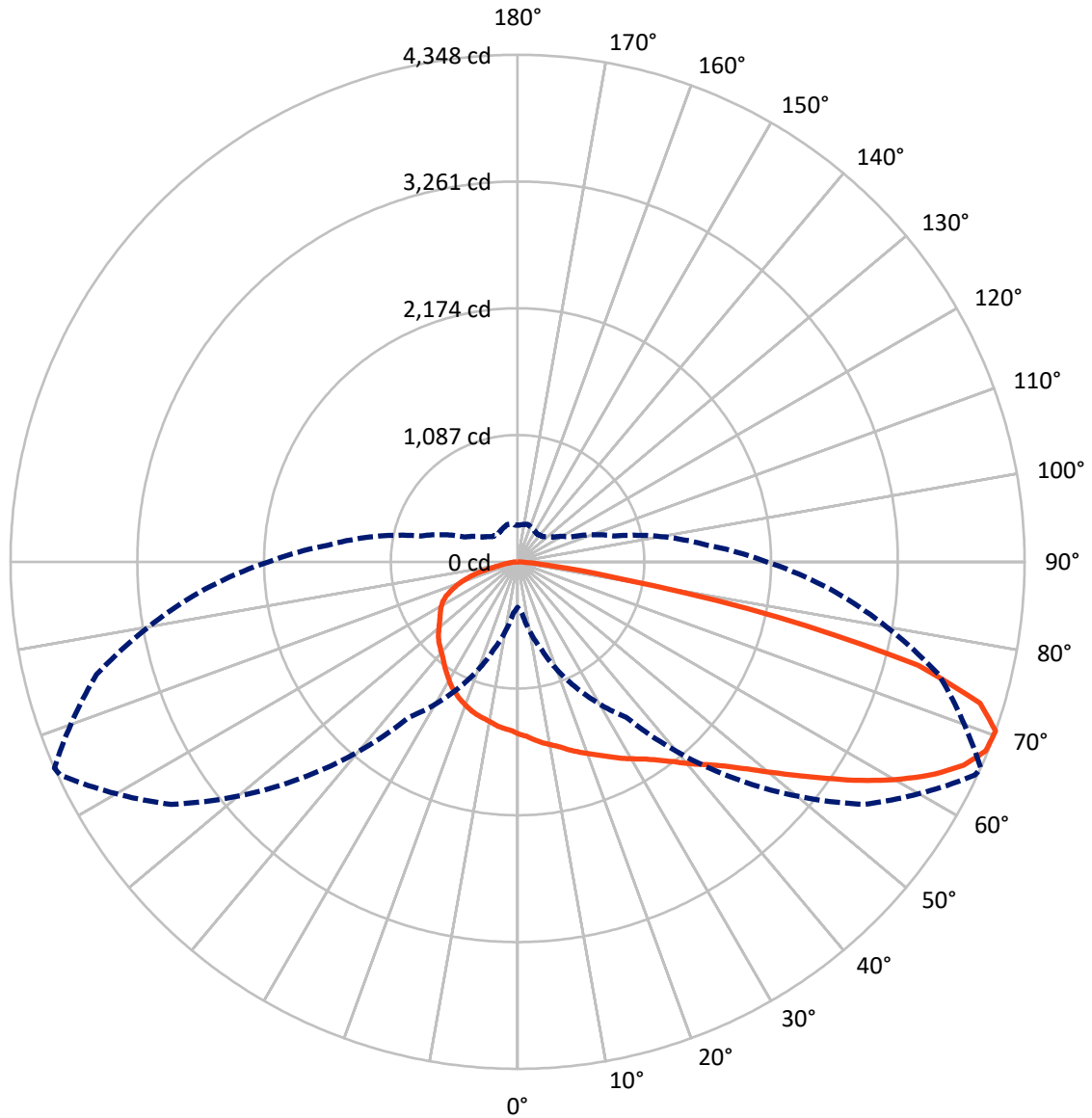
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.6 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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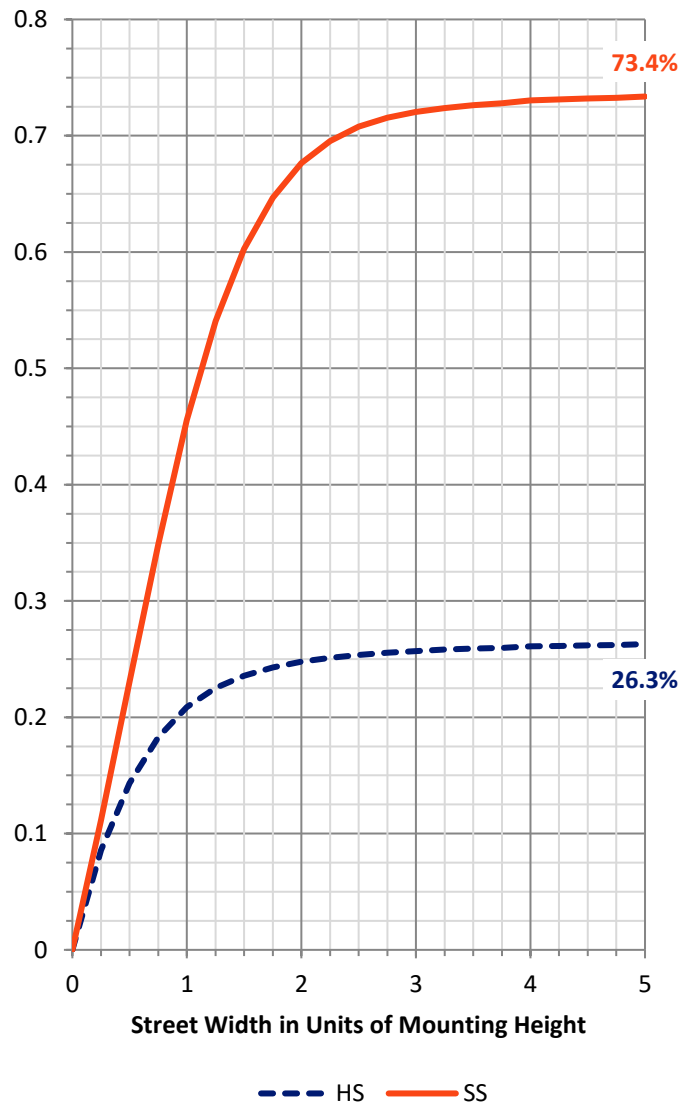
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2169.9	0.0	2169.9
	% Fixture	26.5	0.0	26.5
Street Side	Lumens	6019.1	0.0	6019.1
	% Fixture	73.5	0.0	73.5
Total	Lumens	8189.0	0.0	8189.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	142.0	1.7
10°-20°	426.0	5.2
20°-30°	714.1	8.7
30°-40°	1069.2	13.1
40°-50°	1429.6	17.5
50°-60°	1669.1	20.4
60°-70°	1659.6	20.3
70°-80°	982.5	12.0
80°-90°	96.8	1.2
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°	8189.0	100.0
0°-180°	8189.0	100.0

Coefficient of Utilization

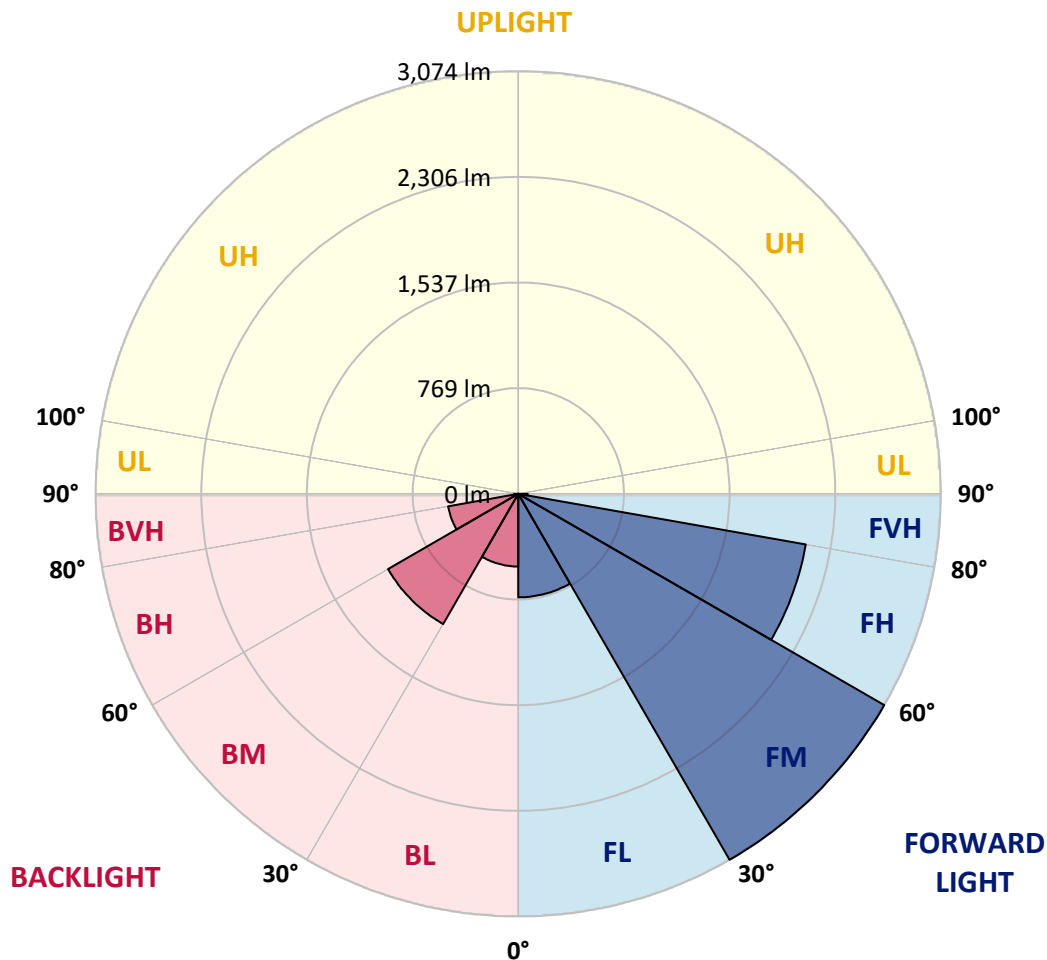


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	753.2	9.2			
FM (30°-60°)	3074.0	37.5			
FH (60°-80°)	2123.8	25.9			G2/5000
FVH (80°-90°)	68.1	0.8			G1/100
BL (0°-30°)	528.9	6.5	B2/1000		
BM (30°-60°)	1093.9	13.4	B2/2500		
BH (60°-80°)	518.3	6.3	B2/1000		G2/1000
BVH (80°-90°)	28.8	0.4			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 Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	1477.9	1477.9	1477.9	1477.9	1477.9	1477.9	1477.9	1477.9	1477.9	1477.9	1477.9
2.5°	1532.3	1529.8	1528.6	1523.8	1512.9	1517.8	1506.9	1499.7	1498.5	1481.6	1471.9
5°	1595.1	1593.8	1591.4	1584.2	1567.3	1569.7	1551.6	1538.3	1534.7	1508.1	1487.6
7.5°	1648.2	1645.8	1644.6	1634.9	1616.8	1615.6	1593.8	1574.5	1568.5	1532.3	1500.9
10°	1689.2	1685.6	1688.0	1678.4	1659.0	1655.4	1627.7	1602.3	1596.3	1550.4	1506.9
12.5°	1724.2	1721.8	1725.5	1717.0	1701.3	1697.7	1669.9	1637.3	1630.1	1576.9	1520.2
15°	1762.9	1754.4	1761.7	1758.1	1747.2	1746.0	1720.6	1684.4	1674.7	1610.7	1540.7
17.5°	1783.4	1778.6	1787.0	1788.2	1783.4	1791.9	1767.7	1724.2	1715.8	1642.1	1558.8
20°	1797.9	1790.7	1800.3	1807.6	1811.2	1828.1	1808.8	1766.5	1756.9	1672.3	1575.7
22.5°	1847.4	1831.7	1832.9	1837.8	1840.2	1864.3	1852.2	1811.2	1801.5	1709.8	1596.3
25°	1971.8	1940.4	1919.9	1905.4	1888.5	1909.0	1901.7	1861.9	1853.4	1754.4	1621.6
27.5°	2165.0	2125.1	2084.1	2041.8	1975.4	1966.9	1954.9	1918.7	1909.0	1799.1	1647.0
30°	2384.7	2344.9	2296.6	2229.0	2104.6	2039.4	2011.6	1971.8	1960.9	1839.0	1671.1
32.5°	2603.3	2568.3	2520.0	2437.9	2260.4	2127.5	2068.4	2027.3	2016.5	1882.4	1700.1
35°	2773.5	2751.8	2720.4	2617.8	2414.9	2231.4	2150.5	2101.0	2088.9	1951.3	1753.2
37.5°	2911.2	2895.5	2868.9	2761.5	2527.2	2335.2	2244.7	2187.9	2174.6	2026.1	1810.0
40°	3114.0	3073.0	3051.2	2895.5	2625.0	2429.4	2350.9	2291.8	2277.3	2105.8	1855.9
42.5°	3286.7	3256.5	3229.9	3015.0	2718.0	2510.3	2451.1	2396.8	2377.5	2184.3	1905.4
45°	3315.7	3327.8	3314.5	3074.2	2865.3	2590.0	2552.6	2517.5	2499.4	2290.5	1980.2
47.5°	3316.9	3316.9	3238.4	3108.0	3047.6	2679.3	2661.2	2673.3	2654.0	2425.8	2069.6
50°	3229.9	3245.6	3204.6	3116.4	3095.9	2768.7	2794.1	2859.3	2839.9	2569.5	2166.2
52.5°	3050.0	3102.0	3100.8	3103.2	3025.9	2844.8	2934.1	3082.6	3050.0	2731.3	2268.8
55°	2732.5	2836.3	2929.3	3009.0	2965.5	2890.7	3105.6	3320.5	3286.7	2912.4	2372.7
57.5°	2460.8	2527.2	2643.1	2868.9	2894.3	2930.5	3266.2	3569.2	3539.1	3112.8	2481.3
60°	2150.5	2242.2	2358.2	2679.3	2807.3	2982.4	3442.5	3811.9	3783.0	3315.7	2586.4
62.5°	1673.5	1791.9	2023.7	2388.4	2680.6	3015.0	3581.3	4025.7	4012.4	3507.7	2680.6
65°	1166.4	1271.5	1596.3	2030.9	2478.9	3000.5	3692.4	4216.4	4204.4	3664.6	2747.0
67.5°	681.0	803.0	1170.0	1634.9	2122.7	2900.3	3728.6	4328.7	4328.7	3760.0	2765.1
70°	388.8	445.6	771.6	1191.8	1627.7	2623.8	3627.2	4327.5	4348.1	3738.3	2690.2
72.5°	271.7	297.0	519.2	801.8	1103.6	2122.7	3361.6	4118.6	4146.4	3533.0	2434.2
75°	211.3	229.4	365.9	547.0	695.5	1441.7	2780.8	3472.6	3546.3	3011.4	1968.2
77.5°	160.6	173.9	213.7	341.7	445.6	828.3	1835.3	2277.3	2282.1	1843.8	1055.3
80°	117.1	130.4	142.5	208.9	236.7	387.6	693.1	951.5	924.9	892.3	571.1
82.5°	70.0	83.3	86.9	113.5	115.9	165.4	242.7	306.7	294.6	392.4	268.1
85°	30.2	42.3	44.7	51.9	49.5	67.6	96.6	80.9	72.4	83.3	58.0
87.5°	7.2	12.1	12.1	13.3	10.9	16.9	18.1	13.3	12.1	14.5	14.5
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°	1477.9	1477.9	1477.9	1477.9	1477.9	1477.9	1477.9	1477.9	1477.9	1477.9	1477.9
2.5°	1469.5	1465.9	1467.1	1446.5	1440.5	1434.5	1430.8	1428.4	1426.0	1429.6	1433.3
5°	1480.3	1471.9	1462.2	1432.0	1420.0	1406.7	1397.0	1388.6	1385.0	1385.0	1388.6
7.5°	1488.8	1474.3	1453.8	1413.9	1392.2	1374.1	1358.4	1347.5	1341.5	1341.5	1345.1
10°	1490.0	1469.5	1436.9	1388.6	1359.6	1333.0	1314.9	1302.8	1294.4	1294.4	1296.8
12.5°	1497.2	1469.5	1427.2	1369.3	1333.0	1300.4	1278.7	1260.6	1257.0	1257.0	1259.4
15°	1509.3	1475.5	1421.2	1352.4	1308.9	1271.5	1247.3	1228.0	1220.7	1225.6	1226.8
17.5°	1520.2	1479.1	1410.3	1330.6	1278.7	1237.6	1211.1	1194.2	1184.5	1195.4	1195.4
20°	1527.4	1479.1	1394.6	1302.8	1246.1	1200.2	1174.9	1154.3	1147.1	1160.4	1161.6
22.5°	1538.3	1477.9	1377.7	1275.1	1211.1	1162.8	1137.4	1121.7	1118.1	1132.6	1137.4
25°	1550.4	1480.3	1359.6	1243.7	1172.4	1125.4	1106.0	1098.8	1101.2	1119.3	1125.4
27.5°	1563.7	1485.2	1341.5	1208.7	1130.2	1087.9	1077.1	1080.7	1090.3	1113.3	1120.5
30°	1575.7	1486.4	1316.1	1167.6	1081.9	1042.0	1046.9	1062.6	1077.1	1100.0	1108.4
32.5°	1591.4	1487.6	1289.6	1122.9	1030.0	1001.0	1022.7	1048.1	1062.6	1084.3	1094.0
35°	1630.1	1508.1	1269.0	1079.5	981.7	966.0	1002.2	1034.8	1043.2	1062.6	1071.0
37.5°	1674.7	1541.9	1258.2	1034.8	934.6	930.9	976.8	1009.4	1011.8	1023.9	1032.4
40°	1702.5	1556.4	1246.1	997.4	892.3	894.7	941.8	967.2	962.3	970.8	976.8
42.5°	1730.3	1561.2	1220.7	966.0	852.5	854.9	891.1	909.2	911.6	929.7	938.2
45°	1777.4	1574.5	1193.0	937.0	816.2	807.8	829.5	853.7	885.1	920.1	929.7
47.5°	1840.2	1602.3	1164.0	902.0	781.2	753.5	761.9	804.2	836.8	869.4	875.4
50°	1904.2	1630.1	1137.4	859.7	746.2	695.5	699.1	737.8	764.3	789.7	793.3
52.5°	1966.9	1654.2	1114.5	819.9	706.4	626.7	641.2	681.0	699.1	711.2	714.8
55°	2029.7	1674.7	1094.0	786.1	660.5	572.3	585.6	623.0	641.2	647.2	649.6
57.5°	2094.9	1698.9	1078.3	757.1	608.6	524.0	532.5	559.1	576.0	583.2	580.8
60°	2149.3	1719.4	1069.8	726.9	556.6	479.4	476.9	501.1	525.2	532.5	530.1
62.5°	2191.5	1732.7	1056.5	688.3	510.8	434.7	422.6	454.0	479.4	484.2	487.8
65°	2214.5	1733.9	1023.9	638.7	463.7	386.4	377.9	409.3	425.0	429.9	429.9
67.5°	2210.9	1714.6	959.9	572.3	420.2	342.9	335.7	355.0	377.9	381.6	377.9
70°	2136.0	1634.9	857.3	502.3	368.3	304.3	291.0	310.3	332.1	318.8	312.7
72.5°	1923.5	1428.4	706.4	425.0	310.3	256.0	249.9	269.3	270.5	272.9	266.8
75°	1517.8	1063.8	528.9	330.8	251.2	214.9	213.7	210.1	214.9	224.6	217.3
77.5°	796.9	531.3	286.2	202.9	182.3	172.7	164.2	163.0	177.5	183.5	176.3
80°	432.3	298.2	164.2	122.0	111.1	112.3	123.2	120.7	136.4	140.1	134.0
82.5°	188.4	141.3	80.9	73.7	73.7	72.4	76.1	84.5	101.4	101.4	80.9
85°	41.1	35.0	31.4	36.2	41.1	41.1	41.1	41.1	29.0	15.7	10.9
87.5°	13.3	13.3	13.3	14.5	15.7	15.7	13.3	9.7	6.0	1.2	0.0
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)