

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: P842444

Luminaire Tested: **ARCH4-50-722-U-T2U**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P842444
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-18)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-50-722-U-T2U
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2200K, 435mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8202 lumens
Efficiency: N/A
Efficacy: 154.2 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G2

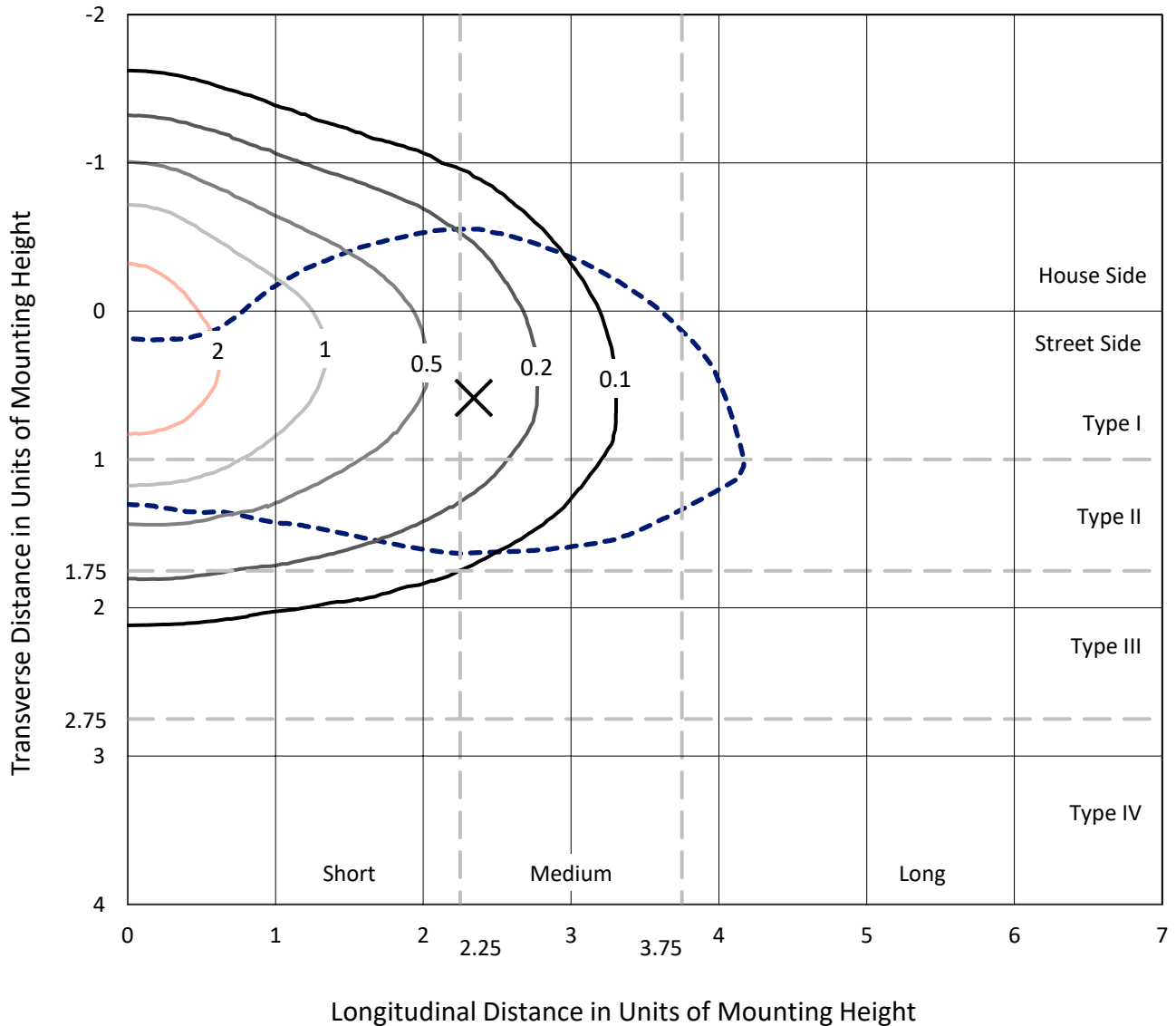
Input Watts (W): 53.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

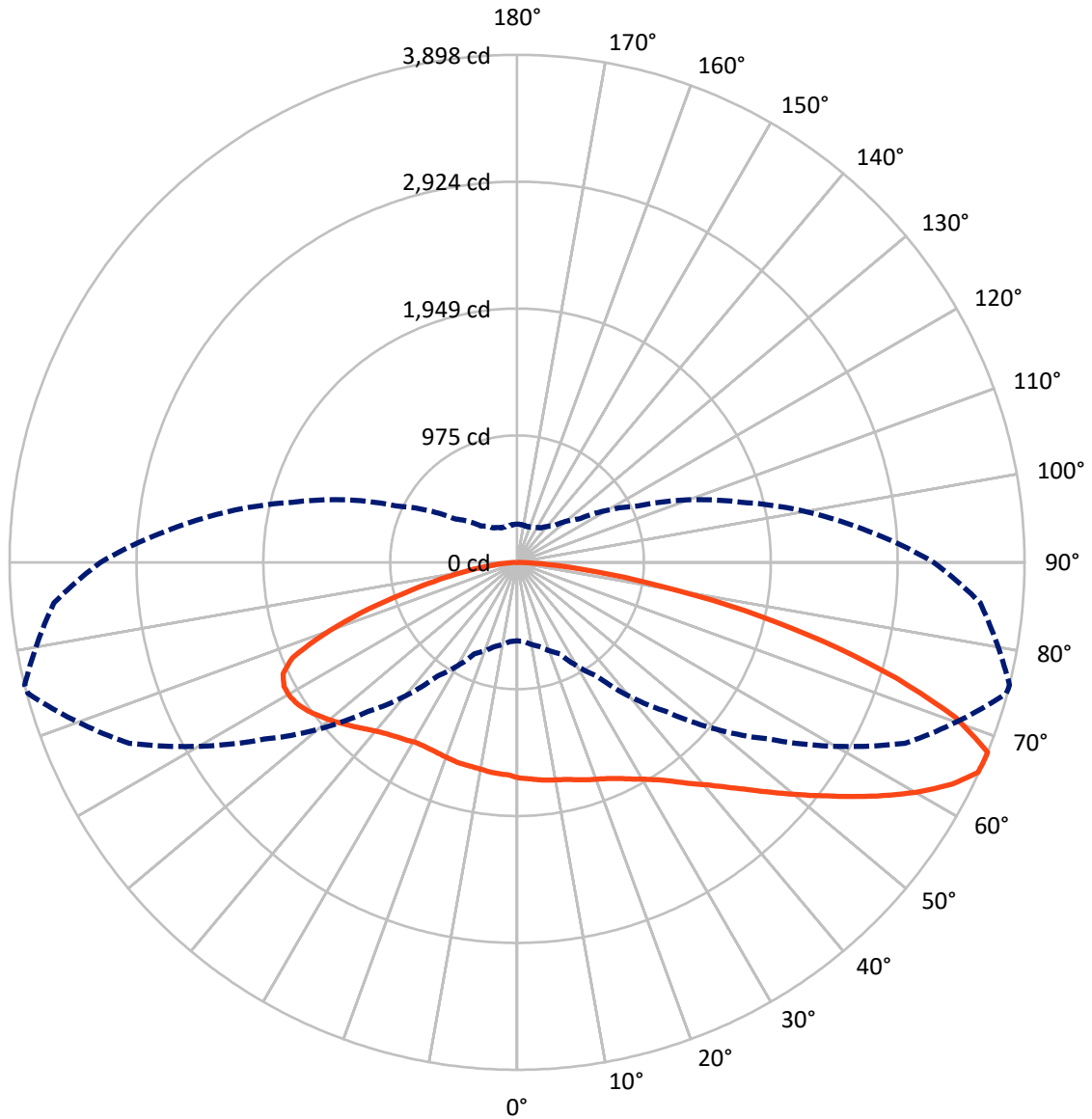
✕ Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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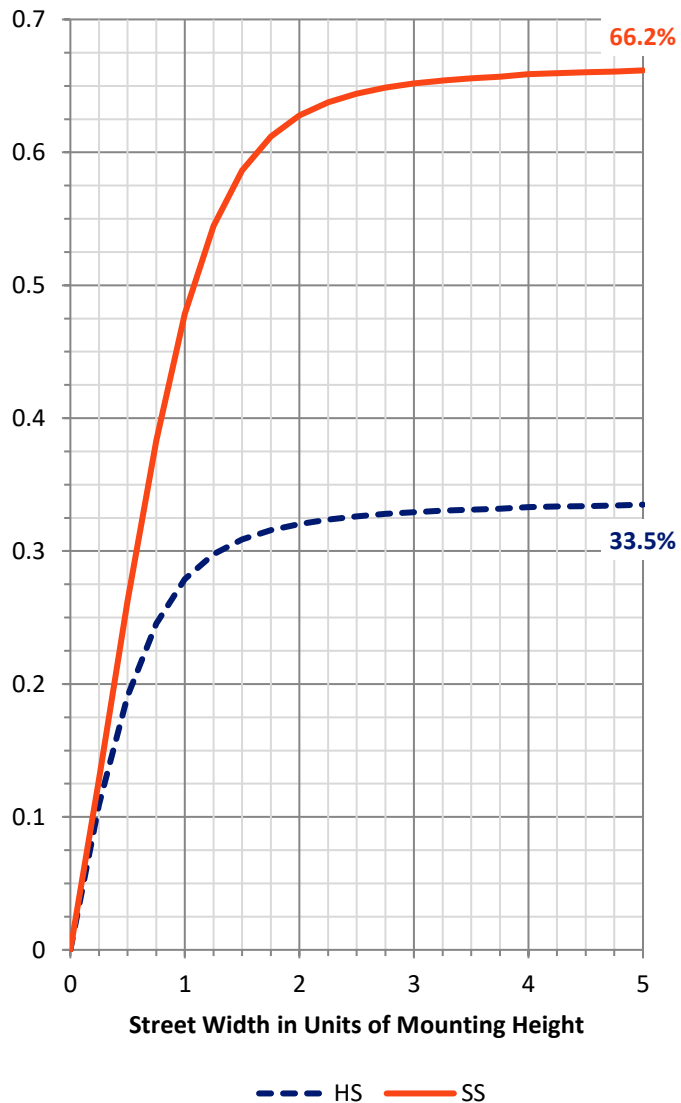
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2771.5	0.0	2771.5
	% Fixture	33.8	0.0	33.8
Street Side	Lumens	5430.5	0.0	5430.5
	% Fixture	66.2	0.0	66.2
Total	Lumens	8202.0	0.0	8202.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	159.8	1.9
10°-20°	488.4	6.0
20°-30°	829.8	10.1
30°-40°	1180.7	14.4
40°-50°	1491.2	18.2
50°-60°	1614.5	19.7
60°-70°	1501.7	18.3
70°-80°	806.5	9.8
80°-90°	129.2	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°	8202.0	100.0
0°-180°	8202.0	100.0

Coefficient of Utilization

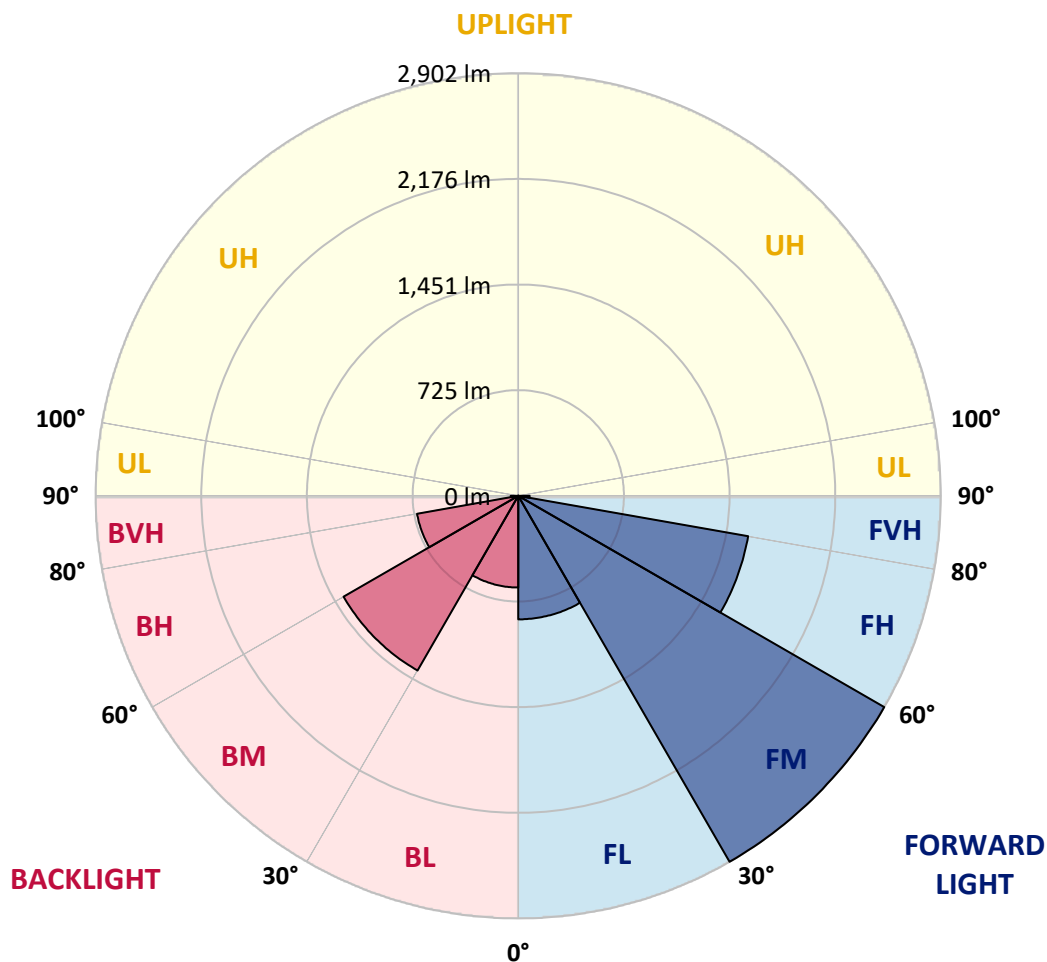


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	848.2	10.3			
FM (30°-60°)	2901.6	35.4			
FH (60°-80°)	1602.6	19.5			G1/1800
FVH (80°-90°)	78.2	1.0			G1/100
BL (0°-30°)	629.8	7.7	B2/1000		
BM (30°-60°)	1385.0	16.9	B2/2500		
BH (60°-80°)	705.7	8.6	B2/1000		G2/1000
BVH (80°-90°)	51.1	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°	1656.8	1656.8	1656.8	1656.8	1656.8	1656.8	1656.8	1656.8	1656.8	1656.8	1656.8
2.5°	1707.0	1704.0	1691.8	1693.3	1693.3	1691.8	1673.5	1665.9	1665.9	1664.4	1647.6
5°	1767.9	1763.4	1749.7	1746.6	1740.5	1732.9	1704.0	1687.2	1679.6	1678.1	1655.3
7.5°	1839.5	1833.4	1816.7	1807.5	1792.3	1772.5	1736.0	1710.1	1691.8	1690.3	1658.3
10°	1911.1	1905.0	1885.2	1868.5	1847.1	1815.2	1767.9	1729.9	1700.9	1697.9	1659.8
12.5°	1996.4	1990.3	1965.9	1944.6	1912.6	1870.0	1807.5	1755.8	1716.2	1711.6	1664.4
15°	2086.2	2077.1	2052.7	2028.3	1988.8	1933.9	1859.3	1790.8	1740.5	1732.9	1678.1
17.5°	2160.8	2148.6	2128.8	2104.5	2060.3	1996.4	1911.1	1825.8	1763.4	1757.3	1691.8
20°	2224.8	2215.6	2194.3	2171.5	2124.3	2054.2	1959.8	1860.8	1784.7	1777.1	1702.5
22.5°	2285.7	2273.5	2261.3	2244.6	2192.8	2115.1	2016.2	1903.5	1812.1	1803.0	1716.2
25°	2355.7	2342.0	2337.5	2328.3	2267.4	2188.2	2084.7	1956.8	1850.2	1839.5	1740.5
27.5°	2442.5	2427.3	2418.2	2418.2	2345.1	2262.9	2157.8	2019.2	1894.3	1885.2	1771.0
30°	2533.9	2515.6	2501.9	2501.9	2419.7	2337.5	2229.4	2081.6	1944.6	1933.9	1810.6
32.5°	2614.6	2596.3	2581.1	2579.6	2494.3	2412.1	2304.0	2150.2	2005.5	1991.8	1859.3
35°	2677.0	2660.3	2646.6	2649.6	2568.9	2488.2	2387.7	2241.5	2081.6	2066.4	1923.3
37.5°	2715.1	2709.0	2701.4	2712.1	2637.5	2561.3	2474.5	2329.9	2168.4	2154.7	2002.5
40°	2734.9	2730.3	2760.8	2774.5	2695.3	2626.8	2561.3	2421.2	2262.9	2247.6	2093.8
42.5°	2763.8	2801.9	2814.1	2811.1	2738.0	2677.0	2640.5	2520.2	2374.0	2360.3	2203.5
45°	2660.3	2651.2	2718.2	2754.7	2741.0	2709.0	2715.1	2639.0	2503.5	2489.7	2329.9
47.5°	2521.7	2509.5	2547.6	2637.5	2690.8	2721.2	2782.1	2762.3	2652.7	2640.5	2477.6
50°	2229.4	2246.1	2387.7	2508.0	2613.1	2718.2	2838.5	2894.8	2817.1	2805.0	2635.9
52.5°	1905.0	1921.7	2069.5	2346.6	2518.7	2695.3	2879.6	3027.3	2995.3	2981.6	2805.0
55°	1669.0	1705.5	1873.0	2074.0	2384.7	2623.8	2903.9	3162.8	3187.2	3175.0	2989.2
57.5°	1434.5	1461.9	1588.3	1766.4	2201.9	2498.9	2902.4	3289.2	3388.2	3376.0	3176.5
60°	1158.8	1193.9	1294.4	1486.2	1958.3	2349.7	2859.8	3388.2	3581.6	3572.4	3357.7
62.5°	970.0	980.7	1052.2	1218.2	1644.6	2160.8	2763.8	3441.5	3756.7	3750.6	3520.7
65°	781.2	782.7	848.2	986.8	1341.6	1926.3	2600.9	3421.7	3889.2	3892.2	3637.9
67.5°	603.0	610.6	670.0	775.1	1065.9	1621.8	2367.9	3287.7	3890.7	3898.3	3570.9
70°	417.2	423.3	513.2	615.2	823.8	1292.8	2052.7	2932.9	3570.9	3577.0	3200.9
72.5°	293.9	296.9	392.9	491.9	644.1	974.6	1548.7	2425.8	3044.0	3048.6	2692.3
75°	219.3	222.3	277.1	373.1	493.4	674.6	1058.3	1857.8	2431.9	2431.9	2125.8
77.5°	155.3	156.8	179.7	257.4	328.9	455.3	636.5	1216.7	1784.7	1787.7	1548.7
80°	105.1	106.6	117.3	173.6	205.6	246.7	345.7	638.0	1125.3	1129.9	983.7
82.5°	54.8	57.9	65.5	88.3	103.5	137.1	178.2	324.4	622.8	635.0	590.8
85°	21.3	21.3	24.4	28.9	38.1	53.3	82.2	123.3	281.7	290.9	260.4
87.5°	7.6	7.6	9.1	9.1	10.7	12.2	13.7	18.3	32.0	32.0	30.5
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°	1656.8	1656.8	1656.8	1656.8	1656.8	1656.8	1656.8	1656.8	1656.8	1656.8	1656.8
2.5°	1641.6	1641.6	1633.9	1637.0	1635.5	1632.4	1629.4	1633.9	1629.4	1618.7	1617.2
5°	1644.6	1641.6	1629.4	1627.9	1623.3	1617.2	1609.6	1612.6	1605.0	1595.9	1594.4
7.5°	1646.1	1640.0	1623.3	1617.2	1608.1	1595.9	1583.7	1583.7	1573.0	1563.9	1562.4
10°	1643.1	1635.5	1612.6	1600.4	1583.7	1565.4	1548.7	1544.1	1531.9	1521.3	1521.3
12.5°	1644.6	1633.9	1605.0	1585.2	1562.4	1539.5	1518.2	1512.1	1501.5	1490.8	1489.3
15°	1653.7	1638.5	1602.0	1576.1	1542.6	1516.7	1493.8	1489.3	1480.1	1472.5	1472.5
17.5°	1662.9	1643.1	1597.4	1560.9	1519.7	1490.8	1469.5	1469.5	1463.4	1458.8	1458.8
20°	1667.4	1644.6	1588.3	1539.5	1492.3	1461.9	1442.1	1445.1	1443.6	1442.1	1442.1
22.5°	1678.1	1647.6	1580.6	1519.7	1463.4	1431.4	1413.1	1417.7	1416.2	1416.2	1417.7
25°	1694.9	1655.3	1574.6	1501.5	1436.0	1401.0	1381.2	1384.2	1384.2	1384.2	1384.2
27.5°	1717.7	1670.5	1573.0	1484.7	1408.6	1369.0	1344.6	1344.6	1338.5	1340.0	1341.6
30°	1752.7	1699.4	1576.1	1469.5	1379.6	1329.4	1300.5	1295.9	1294.4	1297.4	1298.9
32.5°	1795.4	1739.0	1594.4	1458.8	1349.2	1285.2	1248.7	1247.2	1242.6	1242.6	1242.6
35°	1848.7	1777.1	1611.1	1457.3	1318.7	1238.0	1198.4	1193.9	1183.2	1178.6	1178.6
37.5°	1917.2	1836.5	1630.9	1446.6	1292.8	1192.3	1145.1	1129.9	1117.7	1116.2	1116.2
40°	2000.9	1903.5	1659.8	1434.5	1265.4	1145.1	1082.7	1056.8	1058.3	1064.4	1064.4
42.5°	2099.9	1985.7	1696.4	1428.4	1225.8	1096.4	1009.6	979.1	989.8	995.9	997.4
45°	2215.6	2083.2	1737.5	1420.8	1189.3	1041.6	931.9	893.9	898.4	900.0	901.5
47.5°	2349.7	2191.3	1780.1	1414.7	1148.2	973.1	846.7	796.4	794.9	785.8	788.8
50°	2489.7	2305.5	1824.3	1404.0	1097.9	892.3	756.8	697.4	685.3	671.5	673.1
52.5°	2639.0	2422.7	1865.4	1387.3	1035.5	810.1	671.5	607.6	583.2	568.0	571.0
55°	2803.4	2543.0	1905.0	1361.4	970.0	727.9	595.4	529.9	499.5	487.3	488.8
57.5°	2954.2	2658.8	1933.9	1329.4	898.4	653.3	528.4	464.4	444.7	443.1	444.7
60°	3100.4	2756.2	1946.1	1285.2	825.3	584.7	466.0	417.2	403.5	411.2	412.7
62.5°	3223.7	2818.7	1940.0	1225.8	750.7	519.3	415.7	380.7	371.6	386.8	388.3
65°	3295.3	2838.5	1897.4	1140.6	670.0	455.3	368.5	330.4	325.9	335.0	339.6
67.5°	3200.9	2715.1	1781.7	1023.3	580.2	395.9	322.8	292.4	284.8	292.4	292.4
70°	2836.9	2352.7	1507.6	837.5	481.2	338.1	280.2	258.9	252.8	258.9	257.4
72.5°	2363.4	1956.8	1187.8	653.3	379.2	284.8	243.6	223.8	217.8	211.7	208.6
75°	1833.4	1486.2	861.9	479.7	286.3	228.4	204.1	185.8	170.6	176.6	173.6
77.5°	1343.1	1043.1	610.6	332.0	205.6	176.6	159.9	146.2	135.5	147.7	146.2
80°	864.9	674.6	408.1	222.3	141.6	123.3	117.3	109.6	120.3	156.8	159.9
82.5°	528.4	427.9	243.6	144.7	92.9	82.2	76.1	76.1	123.3	135.5	137.1
85°	236.0	226.9	132.5	74.6	51.8	47.2	42.6	54.8	50.3	36.5	38.1
87.5°	38.1	39.6	28.9	25.9	19.8	19.8	15.2	10.7	7.6	4.6	4.6
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)