

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: P836597

Luminaire Tested: **ARCH3-50-722-U-T2U**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P836597
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-18)
Test Lab: INNOVATION CENTER
Issue Date: 5/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH3-50-722-U-T2U
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2200K, 425mA LIGHTSQUARE WITH 40 LEDS AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7823 lumens
Efficiency: N/A
Efficacy: 146.0 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G2

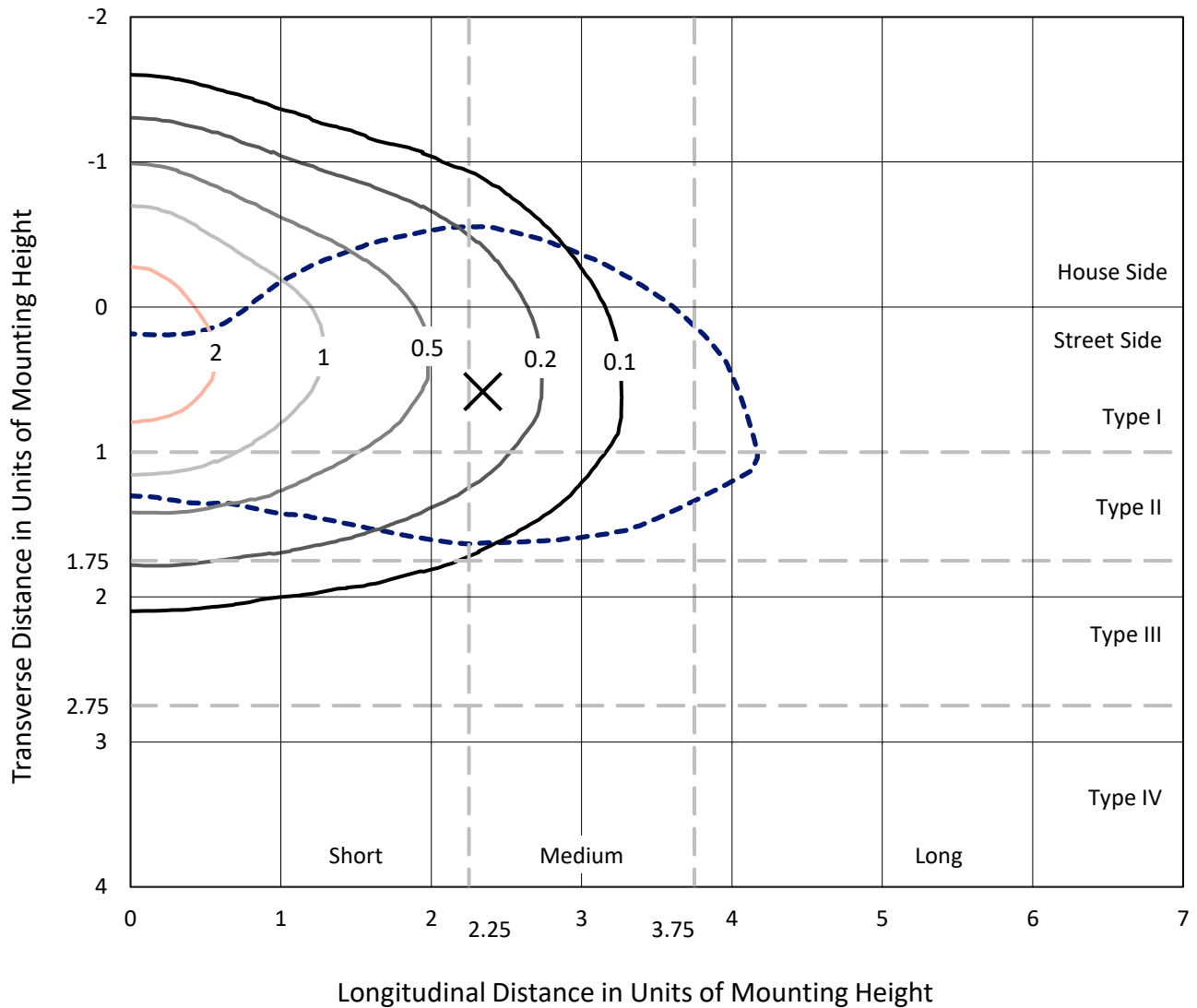
Input Watts (W): 53.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

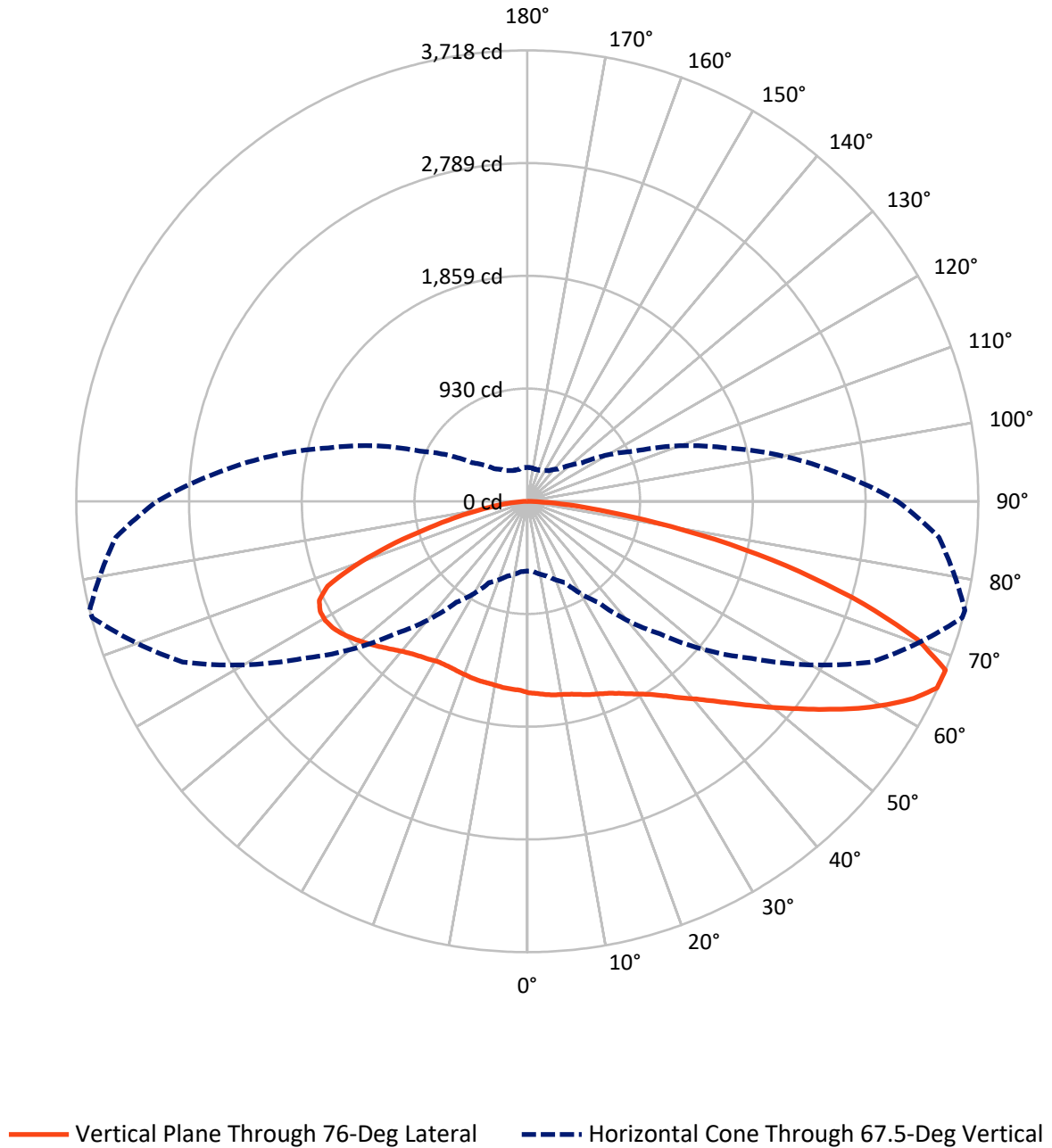
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.9 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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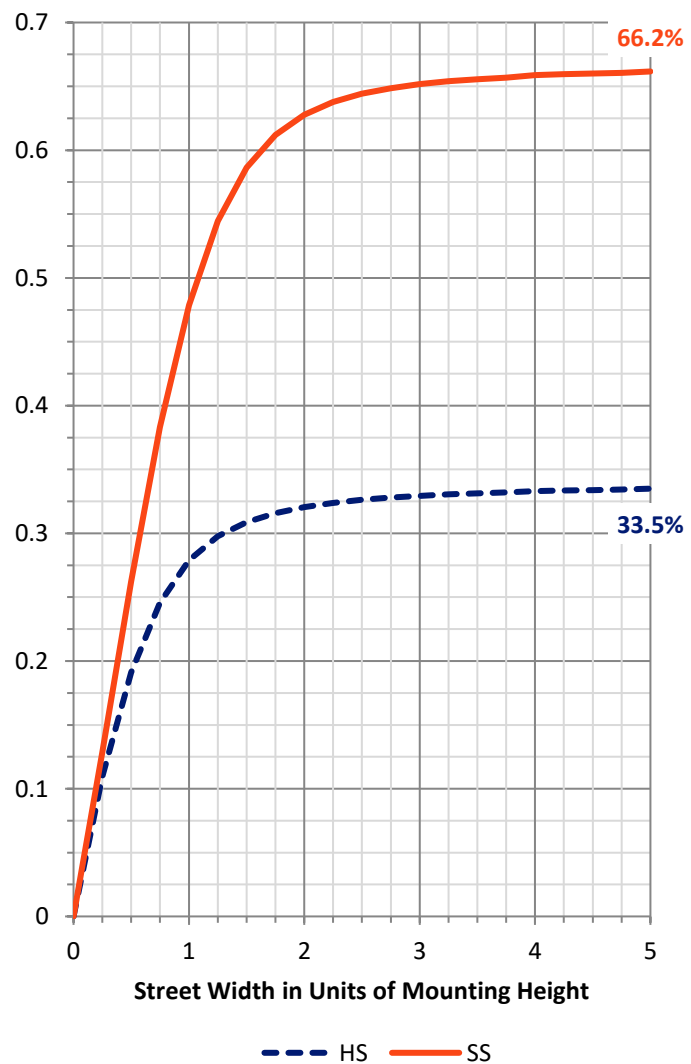
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2643.4	0.0	2643.4
	% Fixture	33.8	0.0	33.8
Street Side	Lumens	5179.6	0.0	5179.6
	% Fixture	66.2	0.0	66.2
Total	Lumens	7823.0	0.0	7823.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	152.4	1.9
10°-20°	465.8	6.0
20°-30°	791.5	10.1
30°-40°	1126.2	14.4
40°-50°	1422.3	18.2
50°-60°	1539.9	19.7
60°-70°	1432.3	18.3
70°-80°	769.3	9.8
80°-90°	123.3	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°	7823.0	100.0
0°-180°	7823.0	100.0

Coefficient of Utilization



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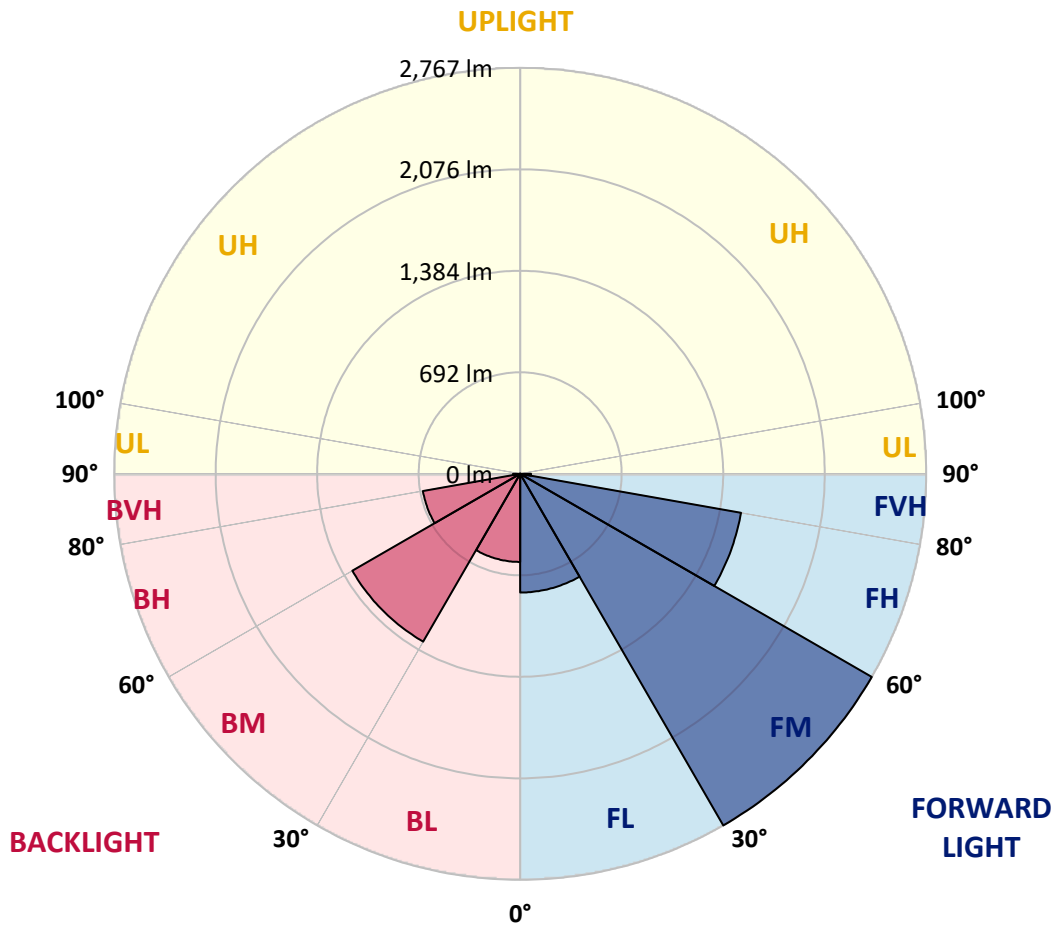
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	809.0	10.3			
FM (30°-60°)	2767.5	35.4			
FH (60°-80°)	1528.5	19.5			G1/1800
FVH (80°-90°)	74.6	1.0			G1/100
BL (0°-30°)	600.7	7.7	B2/1000		
BM (30°-60°)	1321.0	16.9	B2/2500		
BH (60°-80°)	673.0	8.6	B2/1000		G2/1000
BVH (80°-90°)	48.7	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



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1580.2	1580.2	1580.2	1580.2	1580.2	1580.2	1580.2	1580.2	1580.2	1580.2	1580.2
2.5°	1628.2	1625.3	1613.6	1615.1	1615.1	1613.6	1596.2	1588.9	1588.9	1587.5	1571.5
5°	1686.3	1681.9	1668.8	1665.9	1660.1	1652.8	1625.3	1609.3	1602.0	1600.6	1578.8
7.5°	1754.5	1748.7	1732.7	1724.0	1709.5	1690.6	1655.8	1631.1	1613.6	1612.2	1581.7
10°	1822.8	1817.0	1798.1	1782.1	1761.8	1731.3	1686.3	1649.9	1622.3	1619.4	1583.1
12.5°	1904.1	1898.3	1875.1	1854.7	1824.2	1783.6	1724.0	1674.6	1636.9	1632.5	1587.5
15°	1989.8	1981.1	1957.9	1934.6	1896.9	1844.6	1773.4	1708.0	1660.1	1652.8	1600.6
17.5°	2061.0	2049.4	2030.5	2007.2	1965.1	1904.1	1822.8	1741.4	1681.9	1676.1	1613.6
20°	2122.0	2113.3	2092.9	2071.1	2026.1	1959.3	1869.3	1774.9	1702.2	1695.0	1623.8
22.5°	2180.1	2168.5	2156.8	2140.9	2091.5	2017.4	1923.0	1815.5	1728.4	1719.7	1636.9
25°	2246.9	2233.8	2229.5	2220.7	2162.6	2087.1	1988.4	1866.4	1764.7	1754.5	1660.1
27.5°	2329.7	2315.2	2306.4	2306.4	2236.7	2158.3	2058.1	1925.9	1806.8	1798.1	1689.2
30°	2416.8	2399.4	2386.3	2386.3	2307.9	2229.5	2126.3	1985.5	1854.7	1844.6	1726.9
32.5°	2493.8	2476.4	2461.8	2460.4	2379.1	2300.6	2197.5	2050.8	1912.8	1899.8	1773.4
35°	2553.3	2537.4	2524.3	2527.2	2450.2	2373.2	2277.4	2138.0	1985.5	1970.9	1834.4
37.5°	2589.7	2583.8	2576.6	2586.8	2515.6	2443.0	2360.2	2222.2	2068.2	2055.2	1909.9
40°	2608.5	2604.2	2633.2	2646.3	2570.8	2505.4	2443.0	2309.3	2158.3	2143.8	1997.1
42.5°	2636.1	2672.4	2684.1	2681.2	2611.4	2553.3	2518.5	2403.7	2264.3	2251.2	2101.6
45°	2537.4	2528.7	2592.6	2627.4	2614.3	2583.8	2589.7	2517.0	2387.8	2374.7	2222.2
47.5°	2405.2	2393.6	2429.9	2515.6	2566.4	2595.5	2653.6	2634.7	2530.1	2518.5	2363.1
50°	2126.3	2142.3	2277.4	2392.1	2492.3	2592.6	2707.3	2761.0	2687.0	2675.4	2514.1
52.5°	1817.0	1832.9	1973.8	2238.2	2402.3	2570.8	2746.5	2887.4	2856.9	2843.8	2675.4
55°	1591.8	1626.7	1786.5	1978.2	2274.5	2502.5	2769.8	3016.7	3039.9	3028.3	2851.1
57.5°	1368.2	1394.3	1514.9	1684.8	2100.2	2383.4	2768.3	3137.2	3231.6	3220.0	3029.7
60°	1105.3	1138.7	1234.6	1417.6	1867.8	2241.1	2727.6	3231.6	3416.1	3407.4	3202.6
62.5°	925.2	935.4	1003.6	1161.9	1568.6	2061.0	2636.1	3282.5	3583.1	3577.3	3358.0
65°	745.1	746.5	809.0	941.2	1279.6	1837.3	2480.7	3263.6	3709.5	3712.4	3469.8
67.5°	575.2	582.4	639.1	739.3	1016.7	1546.8	2258.5	3135.8	3710.9	3718.2	3405.9
70°	398.0	403.8	489.5	586.8	785.8	1233.1	1957.9	2797.4	3405.9	3411.7	3053.0
72.5°	280.3	283.2	374.7	469.1	614.4	929.5	1477.1	2313.7	2903.4	2907.7	2567.9
75°	209.1	212.1	264.3	355.8	470.6	643.4	1009.4	1771.9	2319.5	2319.5	2027.6
77.5°	148.1	149.6	171.4	245.5	313.7	434.3	607.1	1160.5	1702.2	1705.1	1477.1
80°	100.2	101.7	111.8	165.6	196.1	235.3	329.7	608.6	1073.3	1077.7	938.3
82.5°	52.3	55.2	62.5	84.2	98.8	130.7	169.9	309.4	594.0	605.7	563.5
85°	20.3	20.3	23.2	27.6	36.3	50.8	78.4	117.6	268.7	277.4	248.4
87.5°	7.3	7.3	8.7	8.7	10.2	11.6	13.1	17.4	30.5	30.5	29.0
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°	1580.2	1580.2	1580.2	1580.2	1580.2	1580.2	1580.2	1580.2	1580.2	1580.2	1580.2
2.5°	1565.7	1565.7	1558.4	1561.3	1559.9	1557.0	1554.1	1558.4	1554.1	1543.9	1542.5
5°	1568.6	1565.7	1554.1	1552.6	1548.3	1542.5	1535.2	1538.1	1530.8	1522.1	1520.7
7.5°	1570.1	1564.3	1548.3	1542.5	1533.8	1522.1	1510.5	1510.5	1500.3	1491.6	1490.2
10°	1567.2	1559.9	1538.1	1526.5	1510.5	1493.1	1477.1	1472.7	1461.1	1451.0	1451.0
12.5°	1568.6	1558.4	1530.8	1512.0	1490.2	1468.4	1448.1	1442.2	1432.1	1421.9	1420.5
15°	1577.3	1562.8	1527.9	1503.3	1471.3	1446.6	1424.8	1420.5	1411.7	1404.5	1404.5
17.5°	1586.0	1567.2	1523.6	1488.7	1449.5	1421.9	1401.6	1401.6	1395.8	1391.4	1391.4
20°	1590.4	1568.6	1514.9	1468.4	1423.4	1394.3	1375.4	1378.3	1376.9	1375.4	1375.4
22.5°	1600.6	1571.5	1507.6	1449.5	1395.8	1365.3	1347.8	1352.2	1350.7	1350.7	1352.2
25°	1616.5	1578.8	1501.8	1432.1	1369.6	1336.2	1317.3	1320.2	1320.2	1320.2	1320.2
27.5°	1638.3	1593.3	1500.3	1416.1	1343.5	1305.7	1282.5	1282.5	1276.7	1278.1	1279.6
30°	1671.7	1620.9	1503.3	1401.6	1315.9	1268.0	1240.4	1236.0	1234.6	1237.5	1238.9
32.5°	1712.4	1658.7	1520.7	1391.4	1286.8	1225.8	1191.0	1189.5	1185.2	1185.2	1185.2
35°	1763.2	1695.0	1536.7	1390.0	1257.8	1180.8	1143.1	1138.7	1128.5	1124.2	1124.2
37.5°	1828.6	1751.6	1555.5	1379.8	1233.1	1137.2	1092.2	1077.7	1066.1	1064.6	1064.6
40°	1908.5	1815.5	1583.1	1368.2	1207.0	1092.2	1032.7	1008.0	1009.4	1015.2	1015.2
42.5°	2002.9	1894.0	1618.0	1362.4	1169.2	1045.7	963.0	933.9	944.1	949.9	951.3
45°	2113.3	1986.9	1657.2	1355.1	1134.3	993.5	888.9	852.6	856.9	858.4	859.8
47.5°	2241.1	2090.0	1697.9	1349.3	1095.1	928.1	807.5	759.6	758.2	749.4	752.4
50°	2374.7	2199.0	1740.0	1339.1	1047.2	851.1	721.9	665.2	653.6	640.5	642.0
52.5°	2517.0	2310.8	1779.2	1323.2	987.6	772.7	640.5	579.5	556.3	541.8	544.7
55°	2673.9	2425.5	1817.0	1298.5	925.2	694.3	567.9	505.4	476.4	464.8	466.2
57.5°	2817.7	2535.9	1844.6	1268.0	856.9	623.1	504.0	443.0	424.1	422.7	424.1
60°	2957.1	2628.9	1856.2	1225.8	787.2	557.7	444.4	398.0	384.9	392.2	393.6
62.5°	3074.8	2688.4	1850.4	1169.2	716.0	495.3	396.5	363.1	354.4	368.9	370.4
65°	3143.0	2707.3	1809.7	1087.9	639.1	434.3	351.5	315.2	310.8	319.5	323.9
67.5°	3053.0	2589.7	1699.3	976.0	553.4	377.6	307.9	278.9	271.6	278.9	278.9
70°	2705.9	2244.0	1437.9	798.8	459.0	322.4	267.2	246.9	241.1	246.9	245.5
72.5°	2254.1	1866.4	1132.9	623.1	361.7	271.6	232.4	213.5	207.7	201.9	199.0
75°	1748.7	1417.6	822.1	457.5	273.1	217.9	194.6	177.2	162.7	168.5	165.6
77.5°	1281.0	994.9	582.4	316.6	196.1	168.5	152.5	139.4	129.3	140.9	139.4
80°	825.0	643.4	389.2	212.1	135.1	117.6	111.8	104.6	114.7	149.6	152.5
82.5°	504.0	408.1	232.4	138.0	88.6	78.4	72.6	72.6	117.6	129.3	130.7
85°	225.1	216.4	126.4	71.2	49.4	45.0	40.7	52.3	47.9	34.9	36.3
87.5°	36.3	37.8	27.6	24.7	18.9	18.9	14.5	10.2	7.3	4.4	4.4
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)