

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: P799861

Luminaire Tested: **ARCH2-60-722-U-T2U**

Issue Date: 4/4/2024

Test Information

Test Method: LM-79-08
Report Number: P799861
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: ARCH2-60-722-U-T2U
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2200K, 485mA LIGHTSQUARES WITH 10 LEDS EACH AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7818 lumens
Efficiency: N/A
Efficacy: 122.5 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

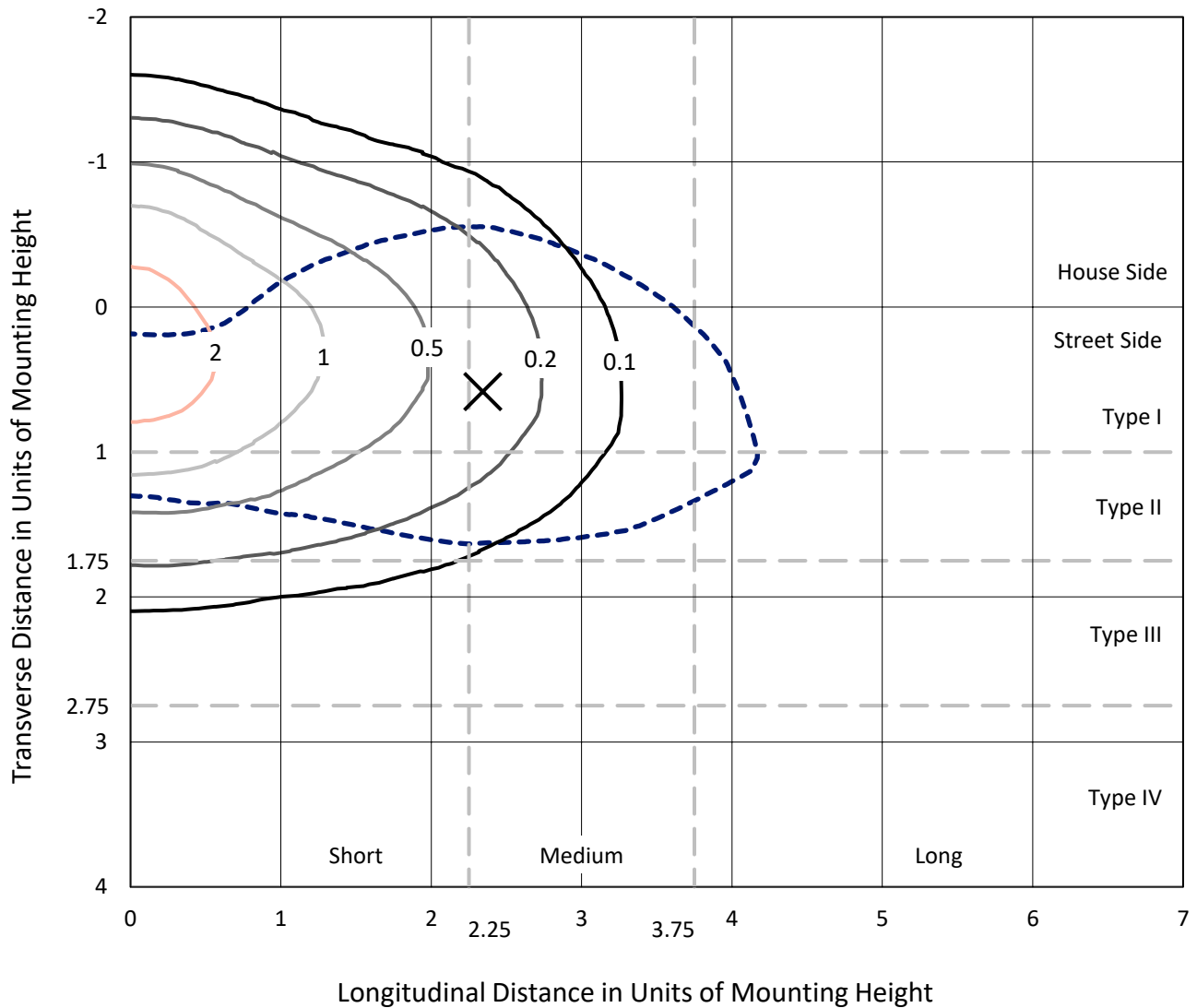
Input Watts (W): 63.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

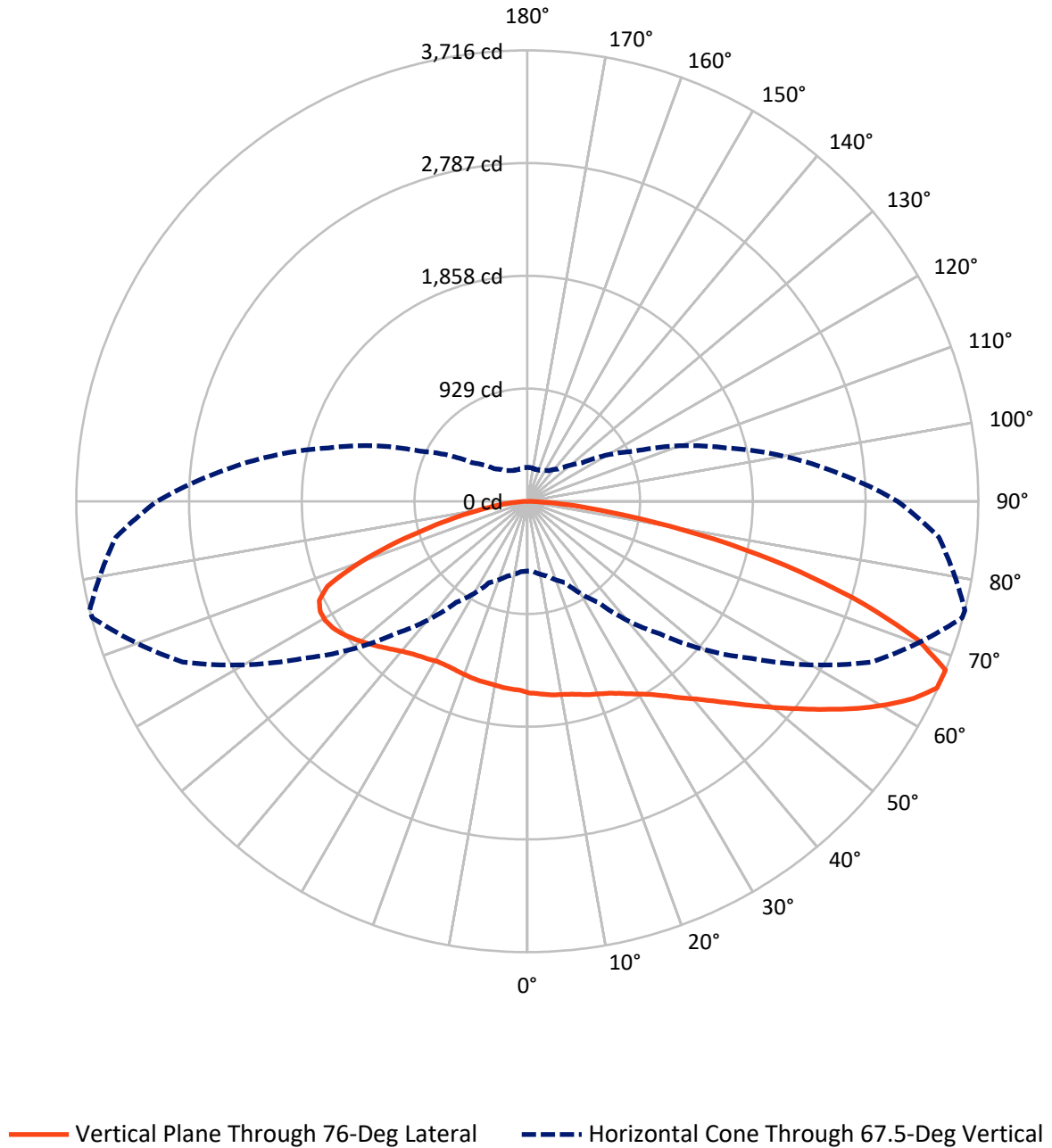
✕ Max cd
 - - - 1/2 Max cd



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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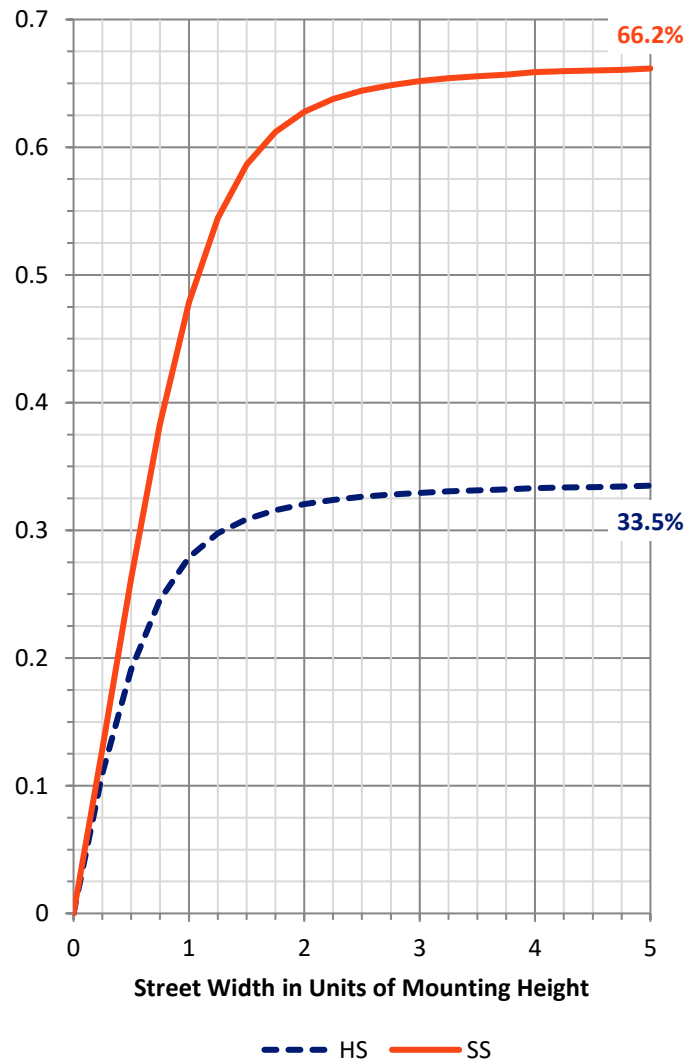
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2641.8	0.0	2641.8
	% Fixture	33.8	0.0	33.8
Street Side	Lumens	5176.3	0.0	5176.3
	% Fixture	66.2	0.0	66.2
Total	Lumens	7818.0	0.0	7818.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	152.3	1.9
10°-20°	465.5	6.0
20°-30°	791.0	10.1
30°-40°	1125.5	14.4
40°-50°	1421.4	18.2
50°-60°	1538.9	19.7
60°-70°	1431.4	18.3
70°-80°	768.8	9.8
80°-90°	123.2	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°	7818.0	100.0
0°-180°	7818.0	100.0



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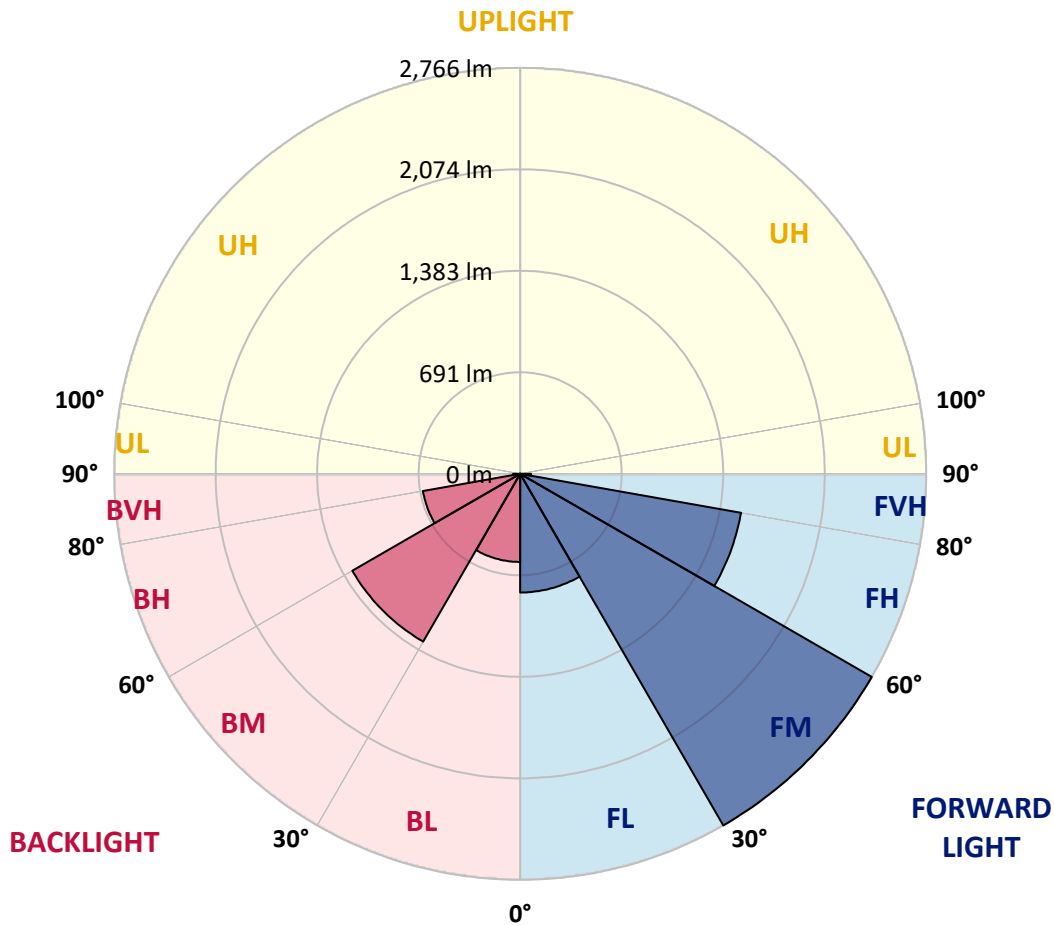
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	808.5	10.3			
FM (30°-60°)	2765.7	35.4			
FH (60°-80°)	1527.6	19.5			G1/1800
FVH (80°-90°)	74.5	1.0			G1/100
BL (0°-30°)	600.3	7.7	B2/1000		
BM (30°-60°)	1320.1	16.9	B2/2500		
BH (60°-80°)	672.6	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°	1579.2	1579.2	1579.2	1579.2	1579.2	1579.2	1579.2	1579.2	1579.2	1579.2	1579.2
2.5°	1627.1	1624.2	1612.6	1614.1	1614.1	1612.6	1595.2	1587.9	1587.9	1586.5	1570.5
5°	1685.2	1680.8	1667.8	1664.9	1659.1	1651.8	1624.2	1608.2	1601.0	1599.5	1577.8
7.5°	1753.4	1747.6	1731.6	1722.9	1708.4	1689.5	1654.7	1630.0	1612.6	1611.2	1580.7
10°	1821.6	1815.8	1796.9	1781.0	1760.7	1730.2	1685.2	1648.9	1621.3	1618.4	1582.1
12.5°	1902.9	1897.1	1873.9	1853.5	1823.1	1782.4	1722.9	1673.6	1635.8	1631.5	1586.5
15°	1988.5	1979.8	1956.6	1933.4	1895.6	1843.4	1772.3	1706.9	1659.1	1651.8	1599.5
17.5°	2059.7	2048.0	2029.2	2006.0	1963.9	1902.9	1821.6	1740.3	1680.8	1675.0	1612.6
20°	2120.6	2111.9	2091.6	2069.8	2024.8	1958.1	1868.1	1773.7	1701.1	1693.9	1622.8
22.5°	2178.7	2167.1	2155.5	2139.5	2090.1	2016.1	1921.8	1814.4	1727.3	1718.6	1635.8
25°	2245.5	2232.4	2228.0	2219.3	2161.3	2085.8	1987.1	1865.2	1763.6	1753.4	1659.1
27.5°	2328.2	2313.7	2305.0	2305.0	2235.3	2156.9	2056.8	1924.7	1805.7	1796.9	1688.1
30°	2415.3	2397.9	2384.8	2384.8	2306.4	2228.0	2125.0	1984.2	1853.5	1843.4	1725.8
32.5°	2492.2	2474.8	2460.3	2458.8	2377.5	2299.2	2196.1	2049.5	1911.6	1898.5	1772.3
35°	2551.7	2535.7	2522.7	2525.6	2448.7	2371.7	2275.9	2136.6	1984.2	1969.7	1833.2
37.5°	2588.0	2582.2	2574.9	2585.1	2514.0	2441.4	2358.7	2220.8	2066.9	2053.9	1908.7
40°	2606.9	2602.5	2631.5	2644.6	2569.1	2503.8	2441.4	2307.9	2156.9	2142.4	1995.8
42.5°	2634.5	2670.7	2682.3	2679.4	2609.8	2551.7	2516.9	2402.2	2262.9	2249.8	2100.3
45°	2535.7	2527.0	2590.9	2625.7	2612.7	2582.2	2588.0	2515.4	2386.2	2373.2	2220.8
47.5°	2403.7	2392.1	2428.3	2514.0	2564.8	2593.8	2651.9	2633.0	2528.5	2516.9	2361.6
50°	2125.0	2140.9	2275.9	2390.6	2490.8	2590.9	2705.6	2759.3	2685.3	2673.6	2512.5
52.5°	1815.8	1831.8	1972.6	2236.7	2400.8	2569.1	2744.8	2885.6	2855.1	2842.0	2673.6
55°	1590.8	1625.7	1785.3	1976.9	2273.0	2500.9	2768.0	3014.7	3038.0	3026.4	2849.3
57.5°	1367.3	1393.4	1513.9	1683.7	2098.9	2381.9	2766.5	3135.2	3229.6	3217.9	3027.8
60°	1104.6	1138.0	1233.8	1416.7	1866.6	2239.6	2725.9	3229.6	3413.9	3405.2	3200.5
62.5°	924.6	934.8	1003.0	1161.2	1567.6	2059.7	2634.5	3280.4	3580.8	3575.0	3355.8
65°	744.6	746.1	808.5	940.6	1278.8	1836.1	2479.1	3261.5	3707.1	3710.0	3467.6
67.5°	574.8	582.0	638.7	738.8	1016.0	1545.8	2257.1	3133.8	3708.6	3715.8	3403.7
70°	397.7	403.5	489.2	586.4	785.3	1232.3	1956.6	2795.6	3403.7	3409.5	3051.0
72.5°	280.1	283.0	374.5	468.8	614.0	929.0	1476.2	2312.2	2901.5	2905.9	2566.2
75°	209.0	211.9	264.2	355.6	470.3	643.0	1008.8	1770.8	2318.0	2318.0	2026.3
77.5°	148.1	149.5	171.3	245.3	313.5	434.0	606.7	1159.7	1701.1	1704.0	1476.2
80°	100.2	101.6	111.8	165.5	196.0	235.1	329.5	608.2	1072.6	1077.0	937.7
82.5°	52.3	55.2	62.4	84.2	98.7	130.6	169.8	309.2	593.7	605.3	563.2
85°	20.3	20.3	23.2	27.6	36.3	50.8	78.4	117.6	268.5	277.2	248.2
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°	1579.2	1579.2	1579.2	1579.2	1579.2	1579.2	1579.2	1579.2	1579.2	1579.2	1579.2
2.5°	1564.7	1564.7	1557.4	1560.3	1558.9	1556.0	1553.1	1557.4	1553.1	1542.9	1541.5
5°	1567.6	1564.7	1553.1	1551.6	1547.3	1541.5	1534.2	1537.1	1529.9	1521.2	1519.7
7.5°	1569.1	1563.3	1547.3	1541.5	1532.8	1521.2	1509.5	1509.5	1499.4	1490.7	1489.2
10°	1566.2	1558.9	1537.1	1525.5	1509.5	1492.1	1476.2	1471.8	1460.2	1450.0	1450.0
12.5°	1567.6	1557.4	1529.9	1511.0	1489.2	1467.5	1447.1	1441.3	1431.2	1421.0	1419.6
15°	1576.3	1561.8	1527.0	1502.3	1470.4	1445.7	1423.9	1419.6	1410.8	1403.6	1403.6
17.5°	1585.0	1566.2	1522.6	1487.8	1448.6	1421.0	1400.7	1400.7	1394.9	1390.5	1390.5
20°	1589.4	1567.6	1513.9	1467.5	1422.5	1393.4	1374.6	1377.5	1376.0	1374.6	1374.6
22.5°	1599.5	1570.5	1506.6	1448.6	1394.9	1364.4	1347.0	1351.3	1349.9	1349.9	1351.3
25°	1615.5	1577.8	1500.8	1431.2	1368.8	1335.4	1316.5	1319.4	1319.4	1319.4	1319.4
27.5°	1637.3	1592.3	1499.4	1415.2	1342.6	1304.9	1281.7	1281.7	1275.9	1277.3	1278.8
30°	1670.7	1619.9	1502.3	1400.7	1315.0	1267.1	1239.6	1235.2	1233.8	1236.7	1238.1
32.5°	1711.3	1657.6	1519.7	1390.5	1286.0	1225.1	1190.2	1188.8	1184.4	1184.4	1184.4
35°	1762.1	1693.9	1535.7	1389.1	1257.0	1180.1	1142.3	1138.0	1127.8	1123.5	1123.5
37.5°	1827.4	1750.5	1554.5	1378.9	1232.3	1136.5	1091.5	1077.0	1065.4	1063.9	1063.9
40°	1907.3	1814.4	1582.1	1367.3	1206.2	1091.5	1032.0	1007.3	1008.8	1014.6	1014.6
42.5°	2001.6	1892.7	1617.0	1361.5	1168.4	1045.1	962.3	933.3	943.5	949.3	950.7
45°	2111.9	1985.6	1656.1	1354.2	1133.6	992.8	888.3	852.0	856.4	857.8	859.3
47.5°	2239.6	2088.7	1696.8	1348.4	1094.4	927.5	807.0	759.1	757.7	749.0	751.9
50°	2373.2	2197.6	1738.9	1338.3	1046.5	850.6	721.4	664.8	653.2	640.1	641.6
52.5°	2515.4	2309.3	1778.1	1322.3	987.0	772.2	640.1	579.1	555.9	541.4	544.3
55°	2672.2	2424.0	1815.8	1297.6	924.6	693.8	567.5	505.1	476.1	464.5	465.9
57.5°	2815.9	2534.3	1843.4	1267.1	856.4	622.7	503.7	442.7	423.8	422.4	423.8
60°	2955.2	2627.2	1855.0	1225.1	786.7	557.4	444.2	397.7	384.6	391.9	393.4
62.5°	3072.8	2686.7	1849.2	1168.4	715.6	495.0	396.3	362.9	354.2	368.7	370.1
65°	3141.0	2705.6	1808.6	1087.2	638.7	434.0	351.3	315.0	310.6	319.3	323.7
67.5°	3051.0	2588.0	1698.2	975.4	553.0	377.4	307.7	278.7	271.4	278.7	278.7
70°	2704.1	2242.5	1437.0	798.3	458.7	322.2	267.1	246.8	240.9	246.8	245.3
72.5°	2252.7	1865.2	1132.2	622.7	361.4	271.4	232.2	213.4	207.6	201.8	198.9
75°	1747.6	1416.7	821.5	457.2	272.9	217.7	194.5	177.1	162.6	168.4	165.5
77.5°	1280.2	994.3	582.0	316.4	196.0	168.4	152.4	139.3	129.2	140.8	139.3
80°	824.4	643.0	389.0	211.9	135.0	117.6	111.8	104.5	114.7	149.5	152.4
82.5°	503.7	407.9	232.2	137.9	88.5	78.4	72.6	72.6	117.6	129.2	130.6
85°	225.0	216.3	126.3	71.1	49.4	45.0	40.6	52.3	47.9	34.8	36.3
87.5°	36.3	37.7	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)