

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: P800117

Luminaire Tested: **ARCH2-80-722-U-T2U**

Issue Date: 4/4/2024

Test Information

Test Method: LM-79-08
Report Number: P800117
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: ARCH2-80-722-U-T2U
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2200K, 630mA LIGHTSQUARES WITH 10 LEDS EACH AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9669 lumens
Efficiency: N/A
Efficacy: 114.7 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

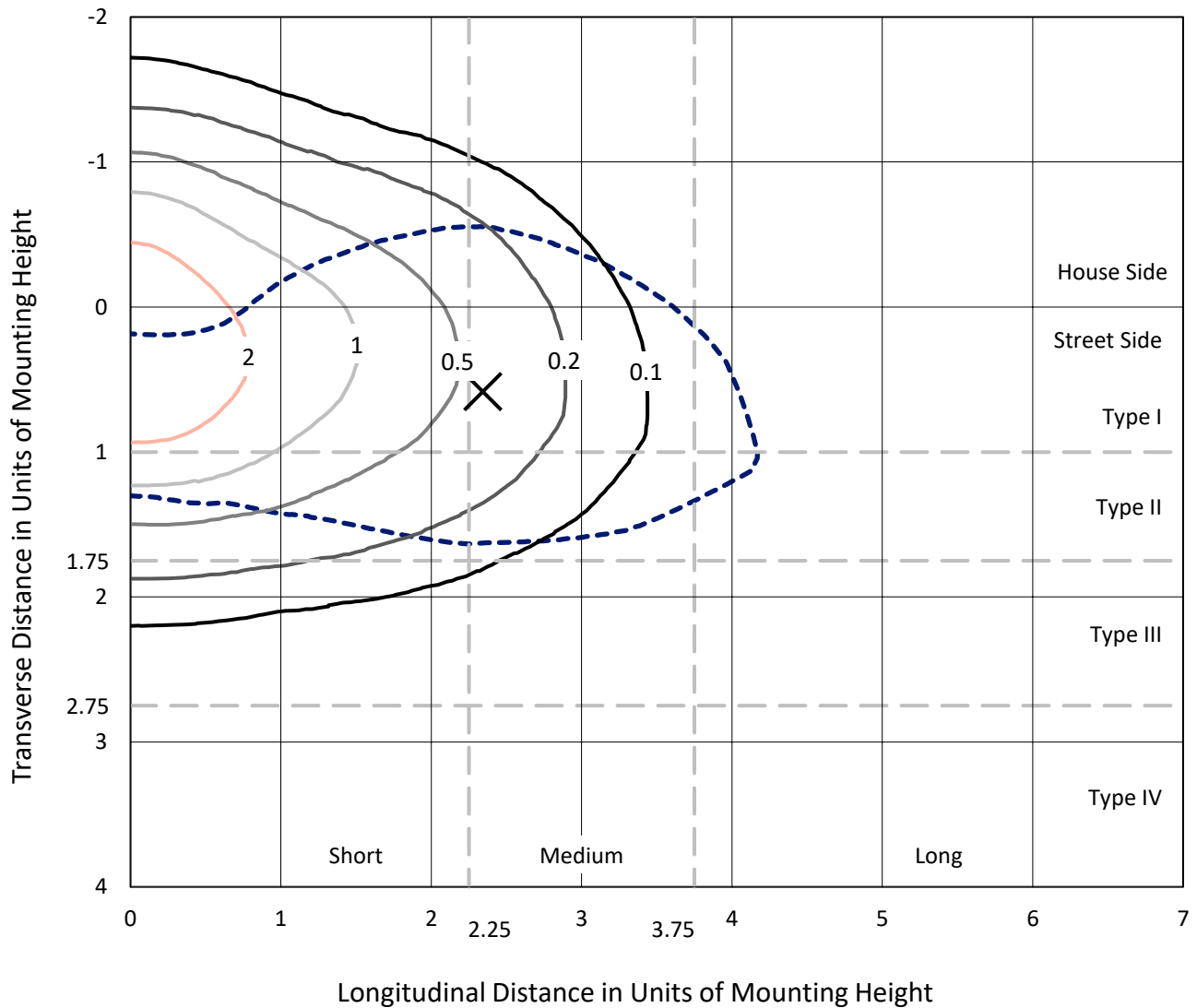
Input Watts (W): 84.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

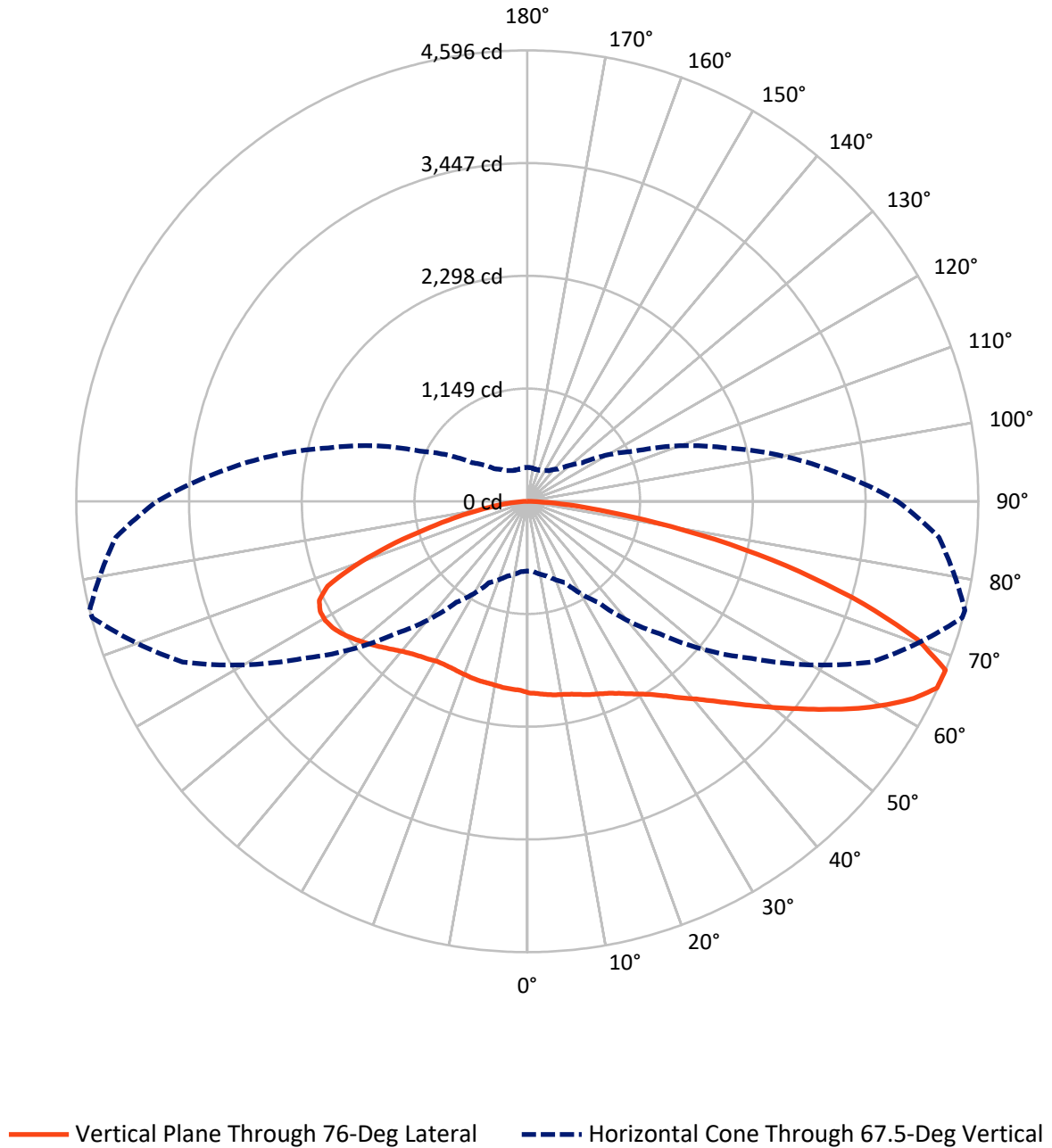
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.5 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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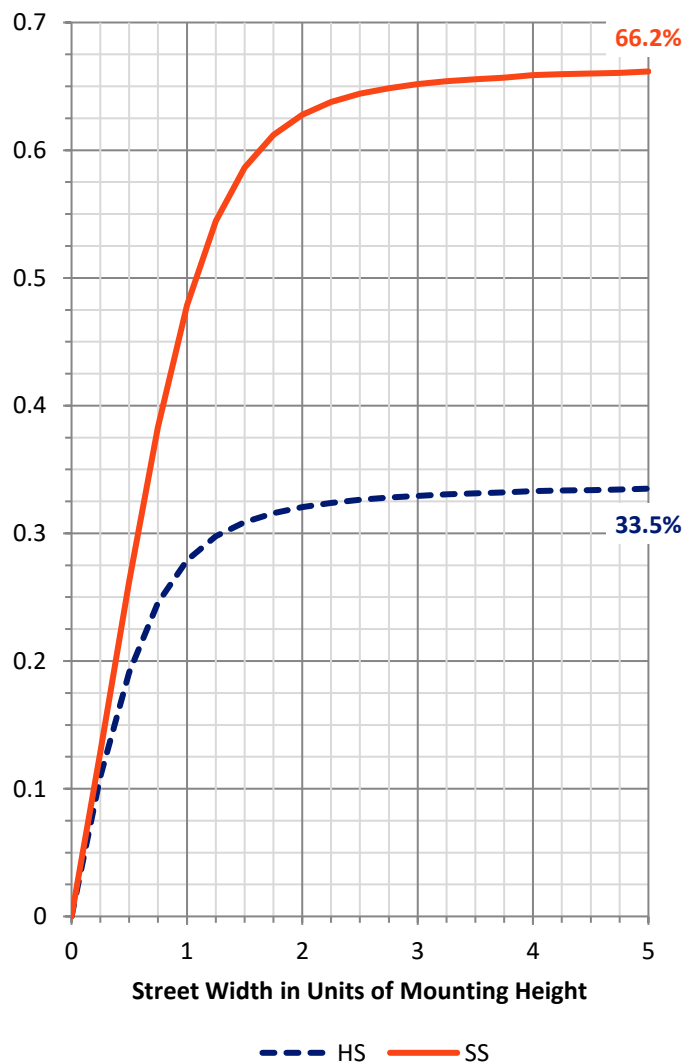
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3267.2	0.0	3267.2
	% Fixture	33.8	0.0	33.8
Street Side	Lumens	6401.8	0.0	6401.8
	% Fixture	66.2	0.0	66.2
Total	Lumens	9669.0	0.0	9669.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	188.3	1.9
10°-20°	575.8	6.0
20°-30°	978.3	10.1
30°-40°	1391.9	14.4
40°-50°	1757.9	18.2
50°-60°	1903.3	19.7
60°-70°	1770.3	18.3
70°-80°	950.8	9.8
80°-90°	152.4	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°	9669.0	100.0
0°-180°	9669.0	100.0

Coefficient of Utilization



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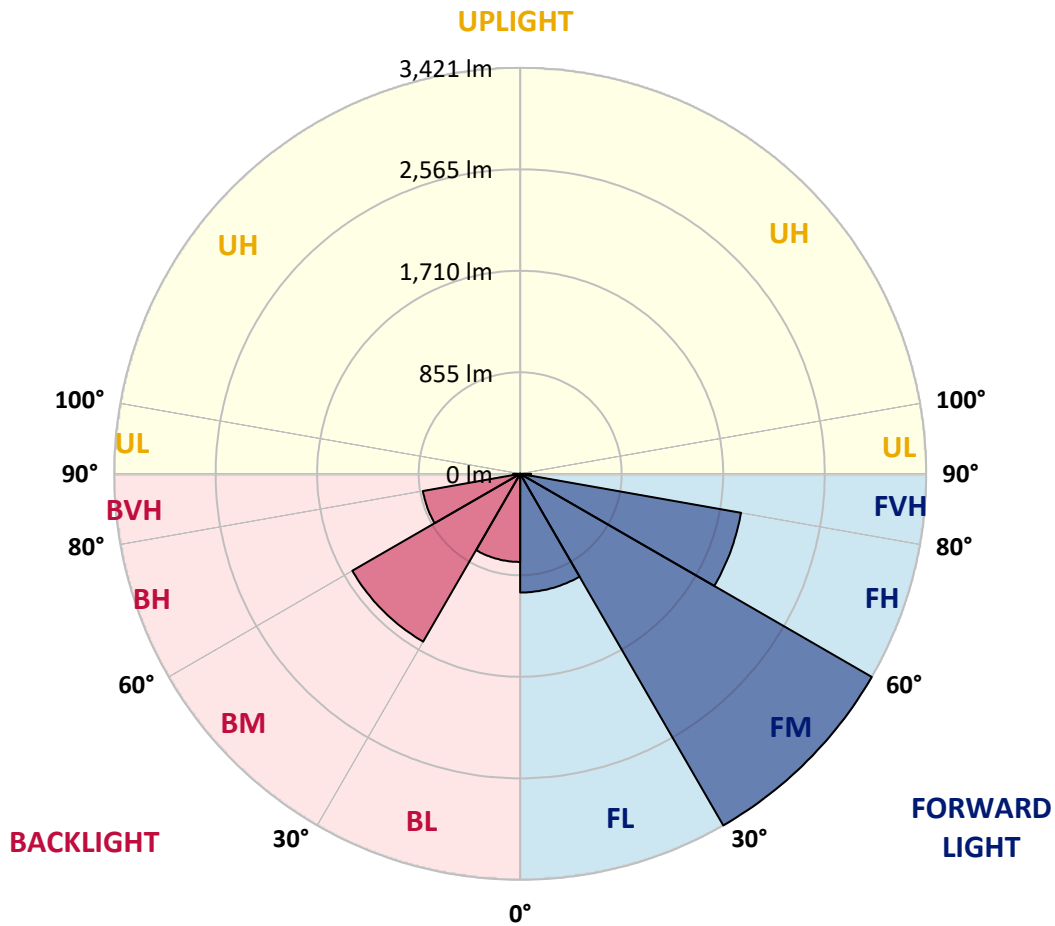
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	999.9	10.3			
FM (30°-60°)	3420.5	35.4			
FH (60°-80°)	1889.2	19.5			G2/5000
FVH (80°-90°)	92.2	1.0			G1/100
BL (0°-30°)	742.5	7.7	B2/1000		
BM (30°-60°)	1632.7	16.9	B2/2500		
BH (60°-80°)	831.9	8.6	B2/1000		G2/1000
BVH (80°-90°)	60.2	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°	1953.1	1953.1	1953.1	1953.1	1953.1	1953.1	1953.1	1953.1	1953.1	1953.1	1953.1
2.5°	2012.4	2008.8	1994.4	1996.2	1996.2	1994.4	1972.9	1963.9	1963.9	1962.1	1942.3
5°	2084.2	2078.8	2062.6	2059.0	2051.8	2042.9	2008.8	1989.0	1980.0	1978.2	1951.3
7.5°	2168.5	2161.4	2141.6	2130.8	2112.9	2089.5	2046.5	2015.9	1994.4	1992.6	1954.9
10°	2252.9	2245.7	2222.4	2202.6	2177.5	2139.8	2084.2	2039.3	2005.2	2001.6	1956.7
12.5°	2353.4	2346.3	2317.5	2292.4	2254.7	2204.4	2130.8	2069.8	2023.1	2017.7	1962.1
15°	2459.3	2448.6	2419.9	2391.1	2344.5	2279.8	2191.9	2111.1	2051.8	2042.9	1978.2
17.5°	2547.3	2532.9	2509.6	2480.9	2428.8	2353.4	2252.9	2152.4	2078.8	2071.6	1994.4
20°	2622.7	2611.9	2586.8	2559.9	2504.2	2421.6	2310.4	2193.7	2103.9	2094.9	2007.0
22.5°	2694.5	2680.1	2665.8	2646.0	2585.0	2493.5	2376.8	2243.9	2136.2	2125.5	2023.1
25°	2777.1	2760.9	2755.5	2744.8	2673.0	2579.6	2457.6	2306.8	2181.1	2168.5	2051.8
27.5°	2879.4	2861.5	2850.7	2850.7	2764.5	2667.6	2543.7	2380.4	2233.2	2222.4	2087.8
30°	2987.1	2965.6	2949.4	2949.4	2852.5	2755.5	2628.1	2454.0	2292.4	2279.8	2134.4
32.5°	3082.3	3060.7	3042.8	3041.0	2940.4	2843.5	2716.1	2534.7	2364.2	2348.0	2191.9
35°	3155.9	3136.1	3120.0	3123.6	3028.4	2933.3	2814.8	2642.5	2454.0	2436.0	2267.3
37.5°	3200.7	3193.6	3184.6	3197.2	3109.2	3019.4	2917.1	2746.6	2556.3	2540.1	2360.6
40°	3224.1	3218.7	3254.6	3270.8	3177.4	3096.6	3019.4	2854.3	2667.6	2649.6	2468.3
42.5°	3258.2	3303.1	3317.4	3313.8	3227.7	3155.9	3112.8	2971.0	2798.6	2782.5	2597.6
45°	3136.1	3125.3	3204.3	3247.4	3231.3	3193.6	3200.7	3111.0	2951.2	2935.1	2746.6
47.5°	2972.8	2958.4	3003.3	3109.2	3172.0	3207.9	3279.7	3256.4	3127.1	3112.8	2920.7
50°	2628.1	2647.8	2814.8	2956.6	3080.5	3204.3	3346.1	3412.6	3321.0	3306.7	3107.4
52.5°	2245.7	2265.5	2439.6	2766.3	2969.2	3177.4	3394.6	3568.7	3531.0	3514.9	3306.7
55°	1967.5	2010.6	2208.0	2445.0	2811.2	3093.0	3423.3	3728.5	3757.2	3742.9	3523.9
57.5°	1691.0	1723.3	1872.3	2082.4	2595.8	2945.8	3421.5	3877.5	3994.2	3979.8	3744.7
60°	1366.1	1407.4	1525.9	1752.1	2308.6	2769.9	3371.3	3994.2	4222.2	4211.4	3958.3
62.5°	1143.5	1156.1	1240.4	1436.1	1938.8	2547.3	3258.2	4057.0	4428.6	4421.4	4150.4
65°	920.9	922.7	999.9	1163.3	1581.5	2270.9	3066.1	4033.7	4584.8	4588.4	4288.6
67.5°	710.9	719.9	789.9	913.7	1256.6	1911.8	2791.4	3875.7	4586.6	4595.6	4209.6
70°	491.9	499.1	605.0	725.2	971.2	1524.1	2419.9	3457.4	4209.6	4216.8	3773.4
72.5°	346.5	350.1	463.1	579.8	759.3	1148.9	1825.7	2859.7	3588.5	3593.9	3173.8
75°	258.5	262.1	326.7	439.8	581.6	795.2	1247.6	2190.1	2866.8	2866.8	2506.0
77.5°	183.1	184.9	211.8	303.4	387.8	536.7	750.4	1434.3	2103.9	2107.5	1825.7
80°	123.9	125.7	138.2	204.6	242.3	290.8	407.5	752.2	1326.6	1332.0	1159.7
82.5°	64.6	68.2	77.2	104.1	122.1	161.6	210.0	382.4	734.2	748.6	696.5
85°	25.1	25.1	28.7	34.1	44.9	62.8	96.9	145.4	332.1	342.9	307.0
87.5°	9.0	9.0	10.8	10.8	12.6	14.4	16.2	21.5	37.7	37.7	35.9
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°	1953.1	1953.1	1953.1	1953.1	1953.1	1953.1	1953.1	1953.1	1953.1	1953.1	1953.1
2.5°	1935.2	1935.2	1926.2	1929.8	1928.0	1924.4	1920.8	1926.2	1920.8	1908.2	1906.4
5°	1938.8	1935.2	1920.8	1919.0	1913.6	1906.4	1897.5	1901.1	1892.1	1881.3	1879.5
7.5°	1940.6	1933.4	1913.6	1906.4	1895.7	1881.3	1866.9	1866.9	1854.4	1843.6	1841.8
10°	1937.0	1928.0	1901.1	1886.7	1866.9	1845.4	1825.7	1820.3	1805.9	1793.3	1793.3
12.5°	1938.8	1926.2	1892.1	1868.7	1841.8	1814.9	1789.8	1782.6	1770.0	1757.4	1755.7
15°	1949.5	1931.6	1888.5	1858.0	1818.5	1788.0	1761.0	1755.7	1744.9	1735.9	1735.9
17.5°	1960.3	1937.0	1883.1	1840.0	1791.6	1757.4	1732.3	1732.3	1725.1	1719.7	1719.7
20°	1965.7	1938.8	1872.3	1814.9	1759.2	1723.3	1700.0	1703.6	1701.8	1700.0	1700.0
22.5°	1978.2	1942.3	1863.4	1791.6	1725.1	1687.4	1665.9	1671.3	1669.5	1669.5	1671.3
25°	1998.0	1951.3	1856.2	1770.0	1692.8	1651.5	1628.2	1631.8	1631.8	1631.8	1631.8
27.5°	2024.9	1969.3	1854.4	1750.3	1660.5	1613.8	1585.1	1585.1	1577.9	1579.7	1581.5
30°	2066.2	2003.4	1858.0	1732.3	1626.4	1567.2	1533.1	1527.7	1525.9	1529.5	1531.3
32.5°	2116.5	2050.1	1879.5	1719.7	1590.5	1515.1	1472.0	1470.2	1464.8	1464.8	1464.8
35°	2179.3	2094.9	1899.3	1718.0	1554.6	1459.5	1412.8	1407.4	1394.8	1389.4	1389.4
37.5°	2260.1	2164.9	1922.6	1705.4	1524.1	1405.6	1349.9	1332.0	1317.6	1315.8	1315.8
40°	2358.8	2243.9	1956.7	1691.0	1491.8	1349.9	1276.3	1245.8	1247.6	1254.8	1254.8
42.5°	2475.5	2340.9	1999.8	1683.8	1445.1	1292.5	1190.2	1154.3	1166.8	1174.0	1175.8
45°	2611.9	2455.8	2048.3	1674.9	1402.0	1227.9	1098.6	1053.7	1059.1	1060.9	1062.7
47.5°	2769.9	2583.2	2098.5	1667.7	1353.5	1147.1	998.1	938.9	937.1	926.3	929.9
50°	2935.1	2717.8	2150.6	1655.1	1294.3	1052.0	892.2	822.2	807.8	791.7	793.5
52.5°	3111.0	2856.1	2199.1	1635.4	1220.7	955.0	791.7	716.3	687.5	669.6	673.2
55°	3304.9	2997.9	2245.7	1604.9	1143.5	858.1	701.9	624.7	588.8	574.4	576.2
57.5°	3482.6	3134.3	2279.8	1567.2	1059.1	770.1	622.9	547.5	524.2	522.4	524.2
60°	3654.9	3249.2	2294.2	1515.1	973.0	689.3	549.3	491.9	475.7	484.7	486.5
62.5°	3800.3	3322.8	2287.0	1445.1	885.0	612.1	490.1	448.8	438.0	456.0	457.8
65°	3884.7	3346.1	2236.7	1344.6	789.9	536.7	434.4	389.5	384.2	394.9	400.3
67.5°	3773.4	3200.7	2100.3	1206.3	683.9	466.7	380.6	344.7	335.7	344.7	344.7
70°	3344.4	2773.5	1777.2	987.3	567.3	398.5	330.3	305.2	298.0	305.2	303.4
72.5°	2786.1	2306.8	1400.2	770.1	447.0	335.7	287.2	263.9	256.7	249.5	245.9
75°	2161.4	1752.1	1016.1	565.5	337.5	269.3	240.5	219.0	201.1	208.2	204.6
77.5°	1583.3	1229.7	719.9	391.3	242.3	208.2	188.5	172.3	159.8	174.1	172.3
80°	1019.6	795.2	481.1	262.1	166.9	145.4	138.2	129.3	141.8	184.9	188.5
82.5°	622.9	504.4	287.2	170.5	109.5	96.9	89.8	89.8	145.4	159.8	161.6
85°	278.2	267.5	156.2	88.0	61.0	55.6	50.3	64.6	59.2	43.1	44.9
87.5°	44.9	46.7	34.1	30.5	23.3	23.3	18.0	12.6	9.0	5.4	5.4
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)