

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: P836669

Luminaire Tested: **ARCH3-60-722-U-T2U**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P836669
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: ARCH3-60-722-U-T2U
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2200K, 505mA LIGHTSQUARE WITH 40 LEDS AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9169 lumens
Efficiency: N/A
Efficacy: 145.1 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

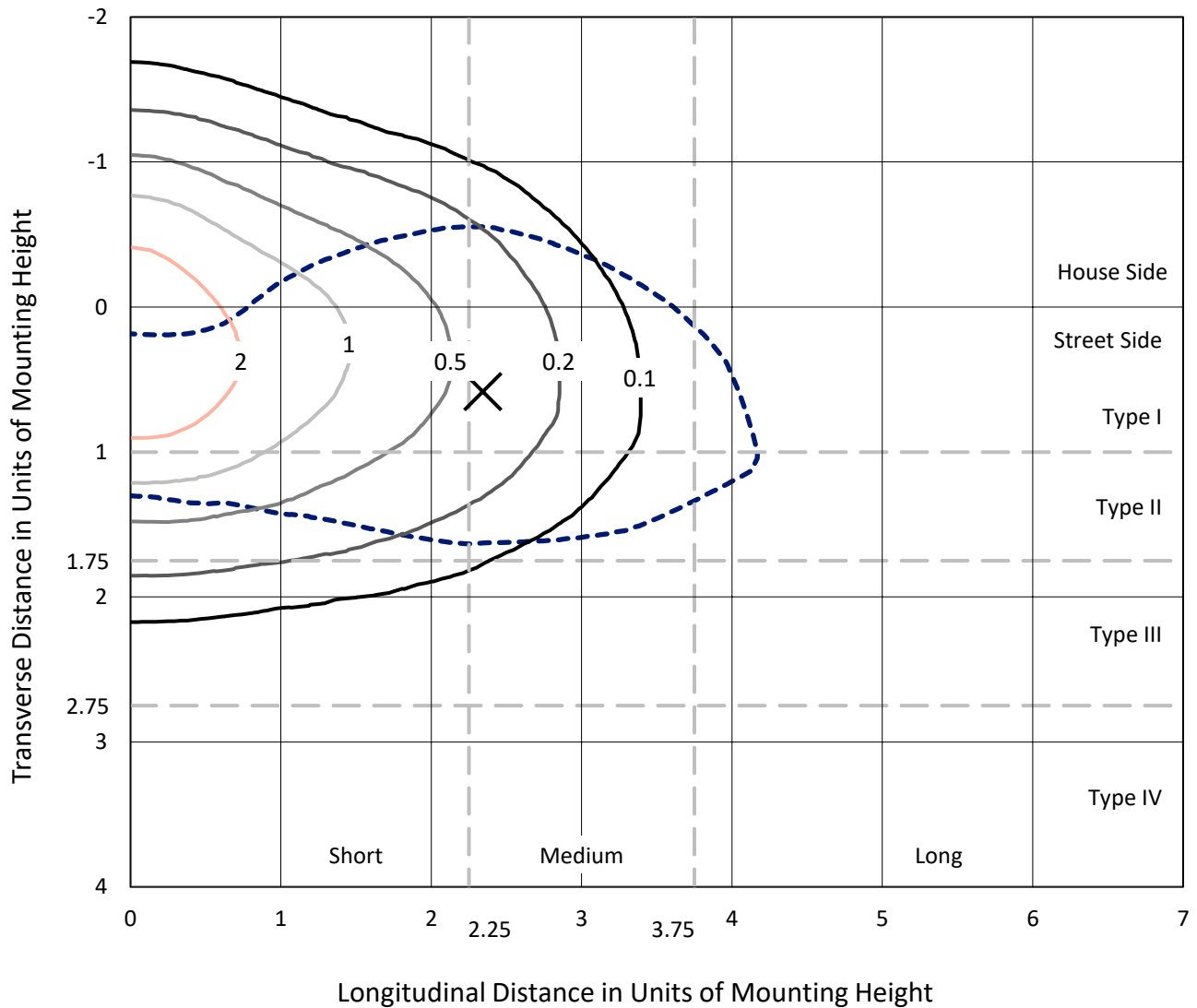
Input Watts (W): 63.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P836669
 CATALOG NUMBER: ARCH3-60-722-U-T2U

Iso-Footcandle Lines of Horizontal Illumination

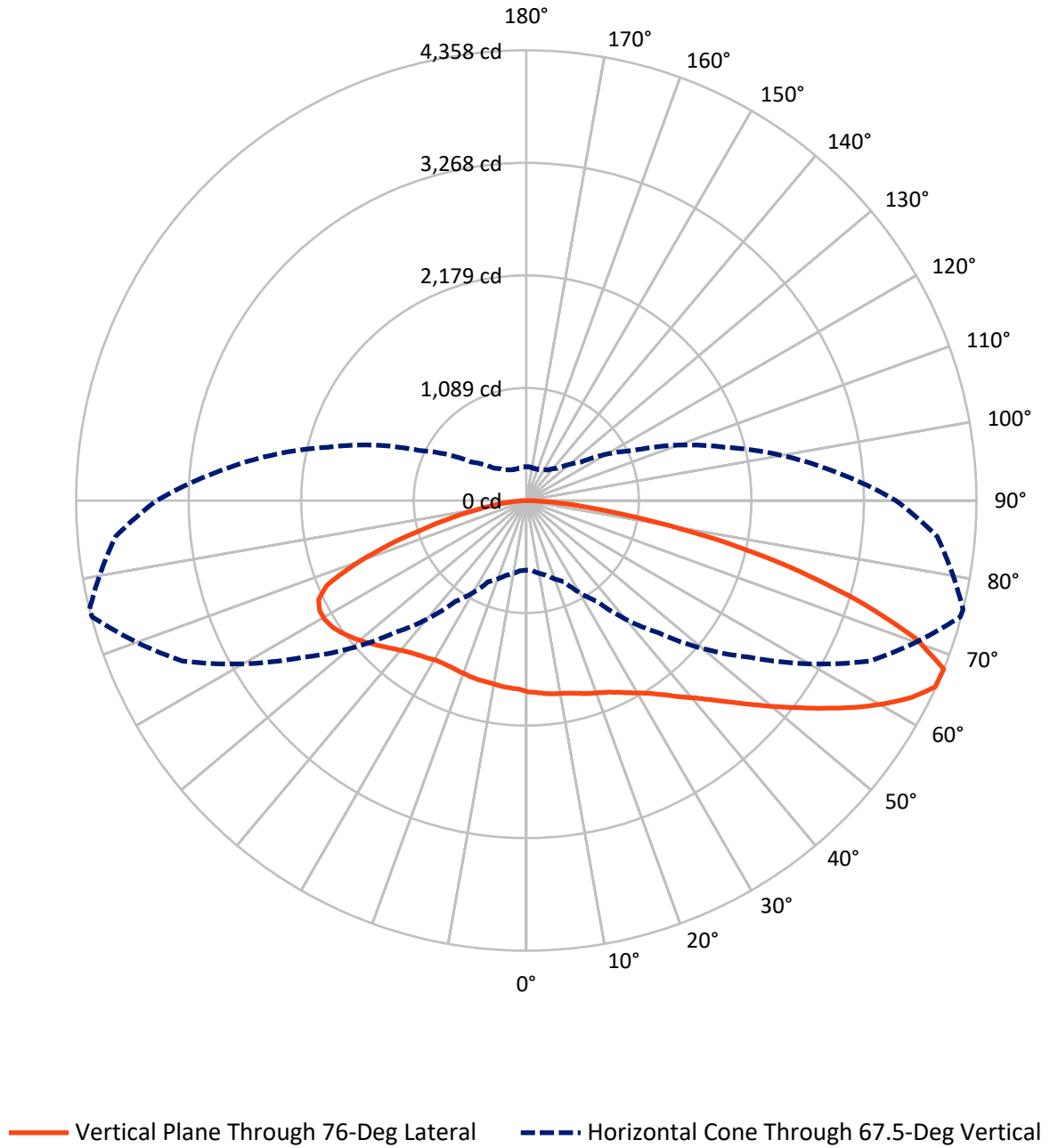
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.4 fc
 Type II - Medium - N/A

REPORT NUMBER: P836669
CATALOG NUMBER: ARCH3-60-722-U-T2U

Luminous Intensity Polar Plot



REPORT NUMBER: P836669
 CATALOG NUMBER: ARCH3-60-722-U-T2U

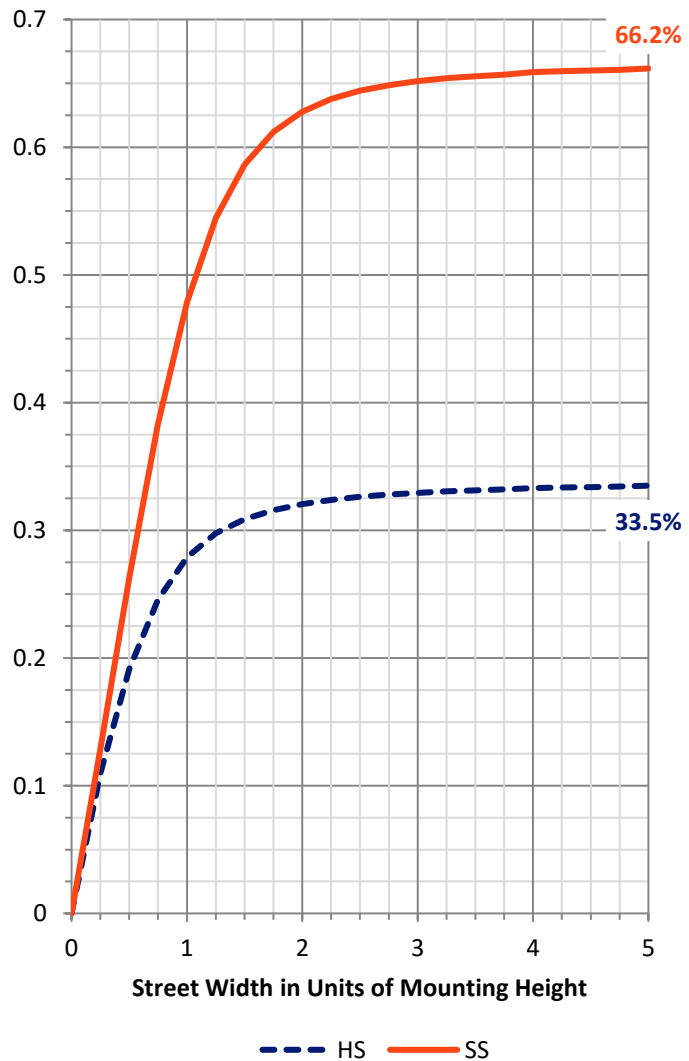
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3098.2	0.0	3098.2
	% Fixture	33.8	0.0	33.8
Street Side	Lumens	6070.7	0.0	6070.7
	% Fixture	66.2	0.0	66.2
Total	Lumens	9169.0	0.0	9169.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	178.6	1.9
10°-20°	546.0	6.0
20°-30°	927.7	10.1
30°-40°	1319.9	14.4
40°-50°	1667.0	18.2
50°-60°	1804.9	19.7
60°-70°	1678.7	18.3
70°-80°	901.6	9.8
80°-90°	144.5	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°	9169.0	100.0
0°-180°	9169.0	100.0

Coefficient of Utilization



REPORT NUMBER: P836669

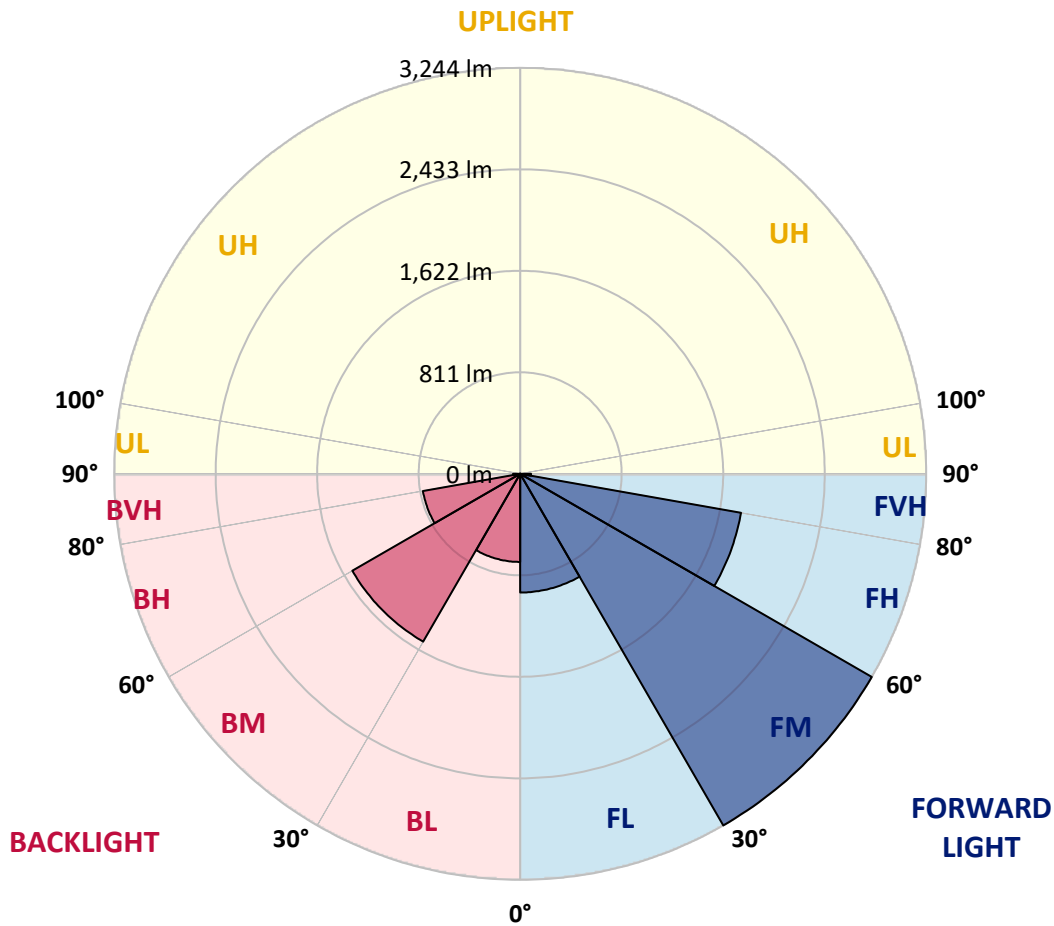
CATALOG NUMBER: ARCH3-60-722-U-T2U

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	948.2	10.3			
FM (30°-60°)	3243.6	35.4			
FH (60°-80°)	1791.5	19.5			G1/1800
FVH (80°-90°)	87.4	1.0			G1/100
BL (0°-30°)	704.1	7.7	B2/1000		
BM (30°-60°)	1548.2	16.9	B2/2500		
BH (60°-80°)	788.8	8.6	B2/1000		G2/1000
BVH (80°-90°)	57.1	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



REPORT NUMBER: P836669

CATALOG NUMBER: ARCH3-60-722-U-T2U

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1852.1	1852.1	1852.1	1852.1	1852.1	1852.1	1852.1	1852.1	1852.1	1852.1	1852.1
2.5°	1908.3	1904.9	1891.3	1893.0	1893.0	1891.3	1870.8	1862.3	1862.3	1860.6	1841.9
5°	1976.4	1971.3	1956.0	1952.6	1945.7	1937.2	1904.9	1886.2	1877.7	1876.0	1850.4
7.5°	2056.4	2049.6	2030.9	2020.6	2003.6	1981.5	1940.6	1911.7	1891.3	1889.6	1853.8
10°	2136.4	2129.6	2107.5	2088.7	2064.9	2029.2	1976.4	1933.8	1901.5	1898.1	1855.5
12.5°	2231.7	2224.9	2197.7	2173.9	2138.1	2090.4	2020.6	1962.8	1918.5	1913.4	1860.6
15°	2332.2	2322.0	2294.7	2267.5	2223.2	2161.9	2078.5	2001.9	1945.7	1937.2	1876.0
17.5°	2415.6	2402.0	2379.8	2352.6	2303.2	2231.7	2136.4	2041.1	1971.3	1964.5	1891.3
20°	2487.1	2476.9	2453.0	2427.5	2374.7	2296.4	2190.9	2080.2	1995.1	1986.6	1903.2
22.5°	2555.2	2541.6	2527.9	2509.2	2451.3	2364.5	2253.9	2127.9	2025.8	2015.5	1918.5
25°	2633.5	2618.2	2613.1	2602.8	2534.7	2446.2	2330.5	2187.5	2068.3	2056.4	1945.7
27.5°	2730.5	2713.5	2703.3	2703.3	2621.6	2529.6	2412.2	2257.3	2117.7	2107.5	1979.8
30°	2832.7	2812.2	2796.9	2796.9	2705.0	2613.1	2492.2	2327.1	2173.9	2161.9	2024.1
32.5°	2922.9	2902.4	2885.4	2883.7	2788.4	2696.5	2575.6	2403.7	2241.9	2226.6	2078.5
35°	2992.7	2973.9	2958.6	2962.0	2871.8	2781.6	2669.2	2505.8	2327.1	2310.0	2150.0
37.5°	3035.2	3028.4	3019.9	3031.8	2948.4	2863.3	2766.3	2604.5	2424.1	2408.8	2238.5
40°	3057.4	3052.2	3086.3	3101.6	3013.1	2936.5	2863.3	2706.7	2529.6	2512.6	2340.7
42.5°	3089.7	3132.3	3145.9	3142.5	3060.8	2992.7	2951.8	2817.3	2653.9	2638.6	2463.2
45°	2973.9	2963.7	3038.6	3079.5	3064.2	3028.4	3035.2	2950.1	2798.6	2783.3	2604.5
47.5°	2819.0	2805.4	2848.0	2948.4	3008.0	3042.0	3110.1	3088.0	2965.4	2951.8	2769.7
50°	2492.2	2510.9	2669.2	2803.7	2921.2	3038.6	3173.1	3236.1	3149.3	3135.7	2946.7
52.5°	2129.6	2148.3	2313.4	2623.3	2815.6	3013.1	3219.1	3384.2	3348.5	3333.1	3135.7
55°	1865.7	1906.6	2093.8	2318.6	2665.8	2933.1	3246.3	3535.7	3562.9	3549.3	3341.6
57.5°	1603.6	1634.2	1775.5	1974.7	2461.5	2793.5	3244.6	3677.0	3787.6	3774.0	3551.0
60°	1295.5	1334.6	1447.0	1661.5	2189.2	2626.7	3196.9	3787.6	4003.8	3993.6	3753.6
62.5°	1084.4	1096.3	1176.3	1361.9	1838.5	2415.6	3089.7	3847.2	4199.6	4192.8	3935.8
65°	873.3	875.0	948.2	1103.1	1499.7	2153.4	2907.6	3825.1	4347.7	4351.1	4066.8
67.5°	674.1	682.6	749.0	866.5	1191.6	1813.0	2647.1	3675.3	4349.4	4357.9	3991.9
70°	466.4	473.2	573.7	687.7	921.0	1445.3	2294.7	3278.7	3991.9	3998.7	3578.3
72.5°	328.5	332.0	439.2	549.8	720.1	1089.5	1731.3	2711.8	3402.9	3408.0	3009.7
75°	245.1	248.5	309.8	417.1	551.5	754.1	1183.1	2076.8	2718.6	2718.6	2376.4
77.5°	173.6	175.3	200.9	287.7	367.7	509.0	711.6	1360.1	1995.1	1998.5	1731.3
80°	117.5	119.2	131.1	194.1	229.8	275.8	386.4	713.3	1258.0	1263.1	1099.7
82.5°	61.3	64.7	73.2	98.7	115.8	153.2	199.2	362.6	696.2	709.9	660.5
85°	23.8	23.8	27.2	32.3	42.6	59.6	91.9	137.9	314.9	325.1	291.1
87.5°	8.5	8.5	10.2	10.2	11.9	13.6	15.3	20.4	35.7	35.7	34.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P836669
 CATALOG NUMBER: ARCH3-60-722-U-T2U

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1852.1	1852.1	1852.1	1852.1	1852.1	1852.1	1852.1	1852.1	1852.1	1852.1	1852.1
2.5°	1835.1	1835.1	1826.6	1830.0	1828.3	1824.9	1821.5	1826.6	1821.5	1809.6	1807.9
5°	1838.5	1835.1	1821.5	1819.8	1814.7	1807.9	1799.3	1802.8	1794.2	1784.0	1782.3
7.5°	1840.2	1833.4	1814.7	1807.9	1797.6	1784.0	1770.4	1770.4	1758.5	1748.3	1746.6
10°	1836.8	1828.3	1802.8	1789.1	1770.4	1750.0	1731.3	1726.1	1712.5	1700.6	1700.6
12.5°	1838.5	1826.6	1794.2	1772.1	1746.6	1721.0	1697.2	1690.4	1678.5	1666.6	1664.9
15°	1848.7	1831.7	1790.8	1761.9	1724.4	1695.5	1670.0	1664.9	1654.6	1646.1	1646.1
17.5°	1858.9	1836.8	1785.7	1744.9	1698.9	1666.6	1642.7	1642.7	1635.9	1630.8	1630.8
20°	1864.0	1838.5	1775.5	1721.0	1668.3	1634.2	1612.1	1615.5	1613.8	1612.1	1612.1
22.5°	1876.0	1841.9	1767.0	1698.9	1635.9	1600.2	1579.7	1584.9	1583.2	1583.2	1584.9
25°	1894.7	1850.4	1760.2	1678.5	1605.3	1566.1	1544.0	1547.4	1547.4	1547.4	1547.4
27.5°	1920.2	1867.4	1758.5	1659.8	1574.6	1530.4	1503.1	1503.1	1496.3	1498.0	1499.7
30°	1959.4	1899.8	1761.9	1642.7	1542.3	1486.1	1453.8	1448.7	1447.0	1450.4	1452.1
32.5°	2007.0	1944.0	1782.3	1630.8	1508.3	1436.8	1395.9	1394.2	1389.1	1389.1	1389.1
35°	2066.6	1986.6	1801.0	1629.1	1474.2	1384.0	1339.7	1334.6	1322.7	1317.6	1317.6
37.5°	2143.2	2053.0	1823.2	1617.2	1445.3	1332.9	1280.1	1263.1	1249.5	1247.8	1247.8
40°	2236.8	2127.9	1855.5	1603.6	1414.6	1280.1	1210.3	1181.4	1183.1	1189.9	1189.9
42.5°	2347.5	2219.8	1896.4	1596.8	1370.4	1225.7	1128.6	1094.6	1106.5	1113.3	1115.0
45°	2476.9	2328.8	1942.3	1588.3	1329.5	1164.4	1041.8	999.3	1004.4	1006.1	1007.8
47.5°	2626.7	2449.6	1990.0	1581.4	1283.5	1087.8	946.5	890.3	888.6	878.4	881.8
50°	2783.3	2577.3	2039.4	1569.5	1227.4	997.6	846.1	779.7	766.0	750.7	752.4
52.5°	2950.1	2708.4	2085.3	1550.8	1157.6	905.6	750.7	679.2	652.0	635.0	638.4
55°	3134.0	2842.9	2129.6	1521.9	1084.4	813.7	665.6	592.4	558.4	544.7	546.4
57.5°	3302.5	2972.2	2161.9	1486.1	1004.4	730.3	590.7	519.2	497.1	495.4	497.1
60°	3465.9	3081.2	2175.6	1436.8	922.7	653.7	520.9	466.4	451.1	459.6	461.3
62.5°	3603.8	3151.0	2168.7	1370.4	839.2	580.5	464.7	425.6	415.4	432.4	434.1
65°	3683.8	3173.1	2121.1	1275.0	749.0	509.0	412.0	369.4	364.3	374.5	379.6
67.5°	3578.3	3035.2	1991.7	1144.0	648.6	442.6	360.9	326.8	318.3	326.8	326.8
70°	3171.4	2630.1	1685.3	936.3	537.9	377.9	313.2	289.4	282.6	289.4	287.7
72.5°	2642.0	2187.5	1327.8	730.3	423.9	318.3	272.4	250.2	243.4	236.6	233.2
75°	2049.6	1661.5	963.5	536.2	320.0	255.3	228.1	207.7	190.7	197.5	194.1
77.5°	1501.4	1166.1	682.6	371.1	229.8	197.5	178.7	163.4	151.5	165.1	163.4
80°	966.9	754.1	456.2	248.5	158.3	137.9	131.1	122.6	134.5	175.3	178.7
82.5°	590.7	478.4	272.4	161.7	103.8	91.9	85.1	85.1	137.9	151.5	153.2
85°	263.9	253.6	148.1	83.4	57.9	52.8	47.7	61.3	56.2	40.9	42.6
87.5°	42.6	44.3	32.3	28.9	22.1	22.1	17.0	11.9	8.5	5.1	5.1
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)