

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: P842464

Luminaire Tested: **ARCH4-50-730-U-T3**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P842464
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2310-189-18)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-50-730-U-T3
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 435mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9359 lumens
Efficiency: N/A
Efficacy: 175.9 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G2

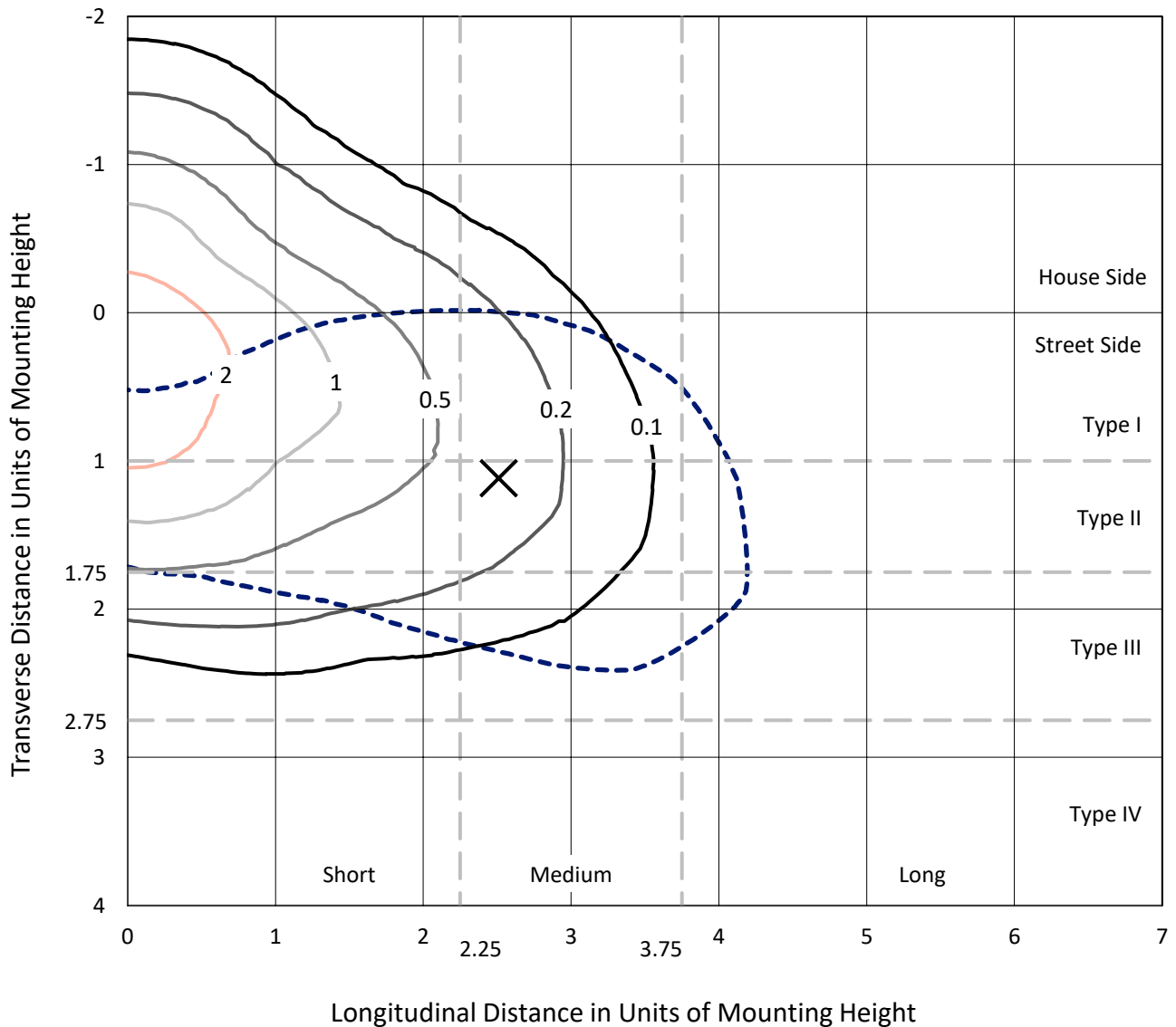
Input Watts (W): 53.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

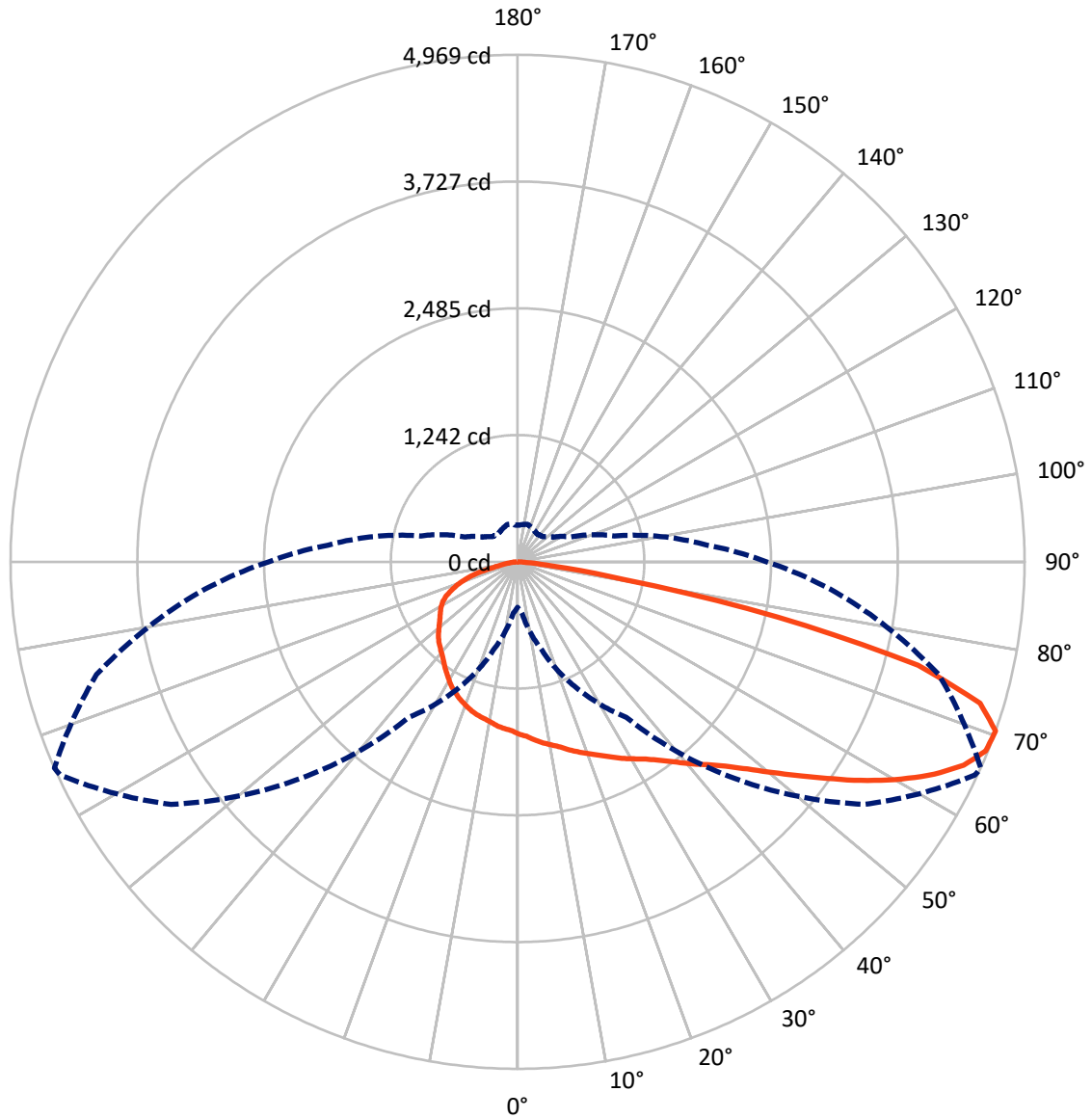
✕ Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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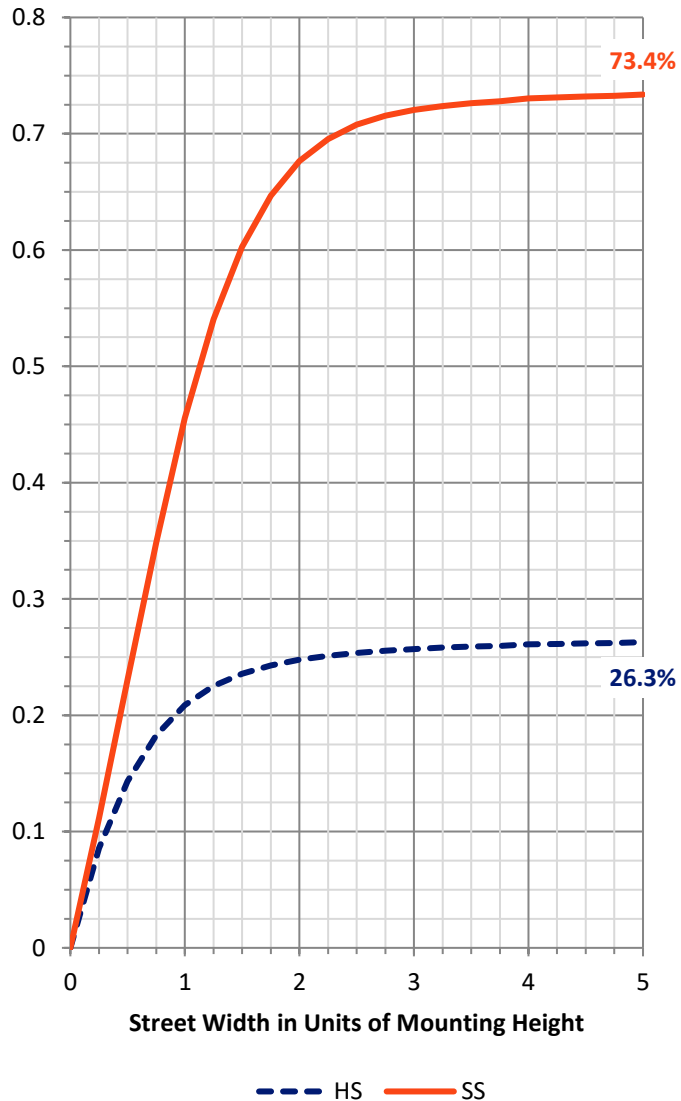
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2479.9	0.0	2479.9
	% Fixture	26.5	0.0	26.5
Street Side	Lumens	6879.1	0.0	6879.1
	% Fixture	73.5	0.0	73.5
Total	Lumens	9359.0	0.0	9359.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	162.3	1.7
10°-20°	486.9	5.2
20°-30°	816.1	8.7
30°-40°	1222.0	13.1
40°-50°	1633.8	17.5
50°-60°	1907.5	20.4
60°-70°	1896.8	20.3
70°-80°	1122.9	12.0
80°-90°	110.7	1.2
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°	9359.0	100.0
0°-180°	9359.0	100.0

Coefficient of Utilization

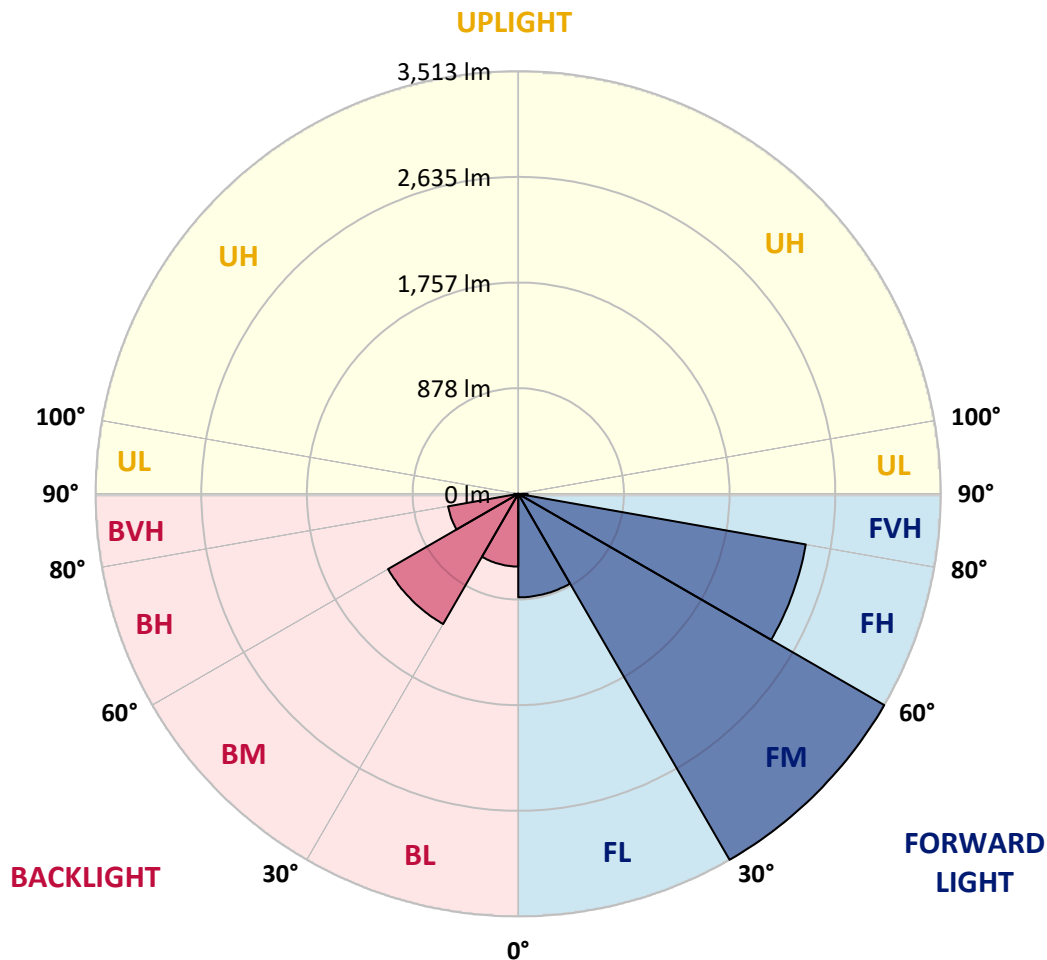


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	860.8	9.2			
FM (30°-60°)	3513.2	37.5			
FH (60°-80°)	2427.3	25.9			G2/5000
FVH (80°-90°)	77.8	0.8			G1/100
BL (0°-30°)	604.5	6.5	B2/1000		
BM (30°-60°)	1250.1	13.4	B2/2500		
BH (60°-80°)	592.4	6.3	B2/1000		G2/1000
BVH (80°-90°)	32.9	0.4			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 III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	1689.1	1689.1	1689.1	1689.1	1689.1	1689.1	1689.1	1689.1	1689.1	1689.1	1689.1
2.5°	1751.2	1748.4	1747.0	1741.5	1729.1	1734.6	1722.2	1713.9	1712.5	1693.2	1682.2
5°	1822.9	1821.6	1818.8	1810.5	1791.2	1794.0	1773.3	1758.1	1753.9	1723.6	1700.1
7.5°	1883.7	1880.9	1879.5	1868.5	1847.8	1846.4	1821.6	1799.5	1792.6	1751.2	1715.3
10°	1930.6	1926.4	1929.2	1918.2	1896.1	1891.9	1860.2	1831.2	1824.3	1771.9	1722.2
12.5°	1970.6	1967.8	1972.0	1962.3	1944.4	1940.2	1908.5	1871.2	1863.0	1802.2	1737.4
15°	2014.8	2005.1	2013.4	2009.2	1996.8	1995.4	1966.5	1925.1	1914.0	1840.9	1760.8
17.5°	2038.2	2032.7	2042.4	2043.7	2038.2	2047.9	2020.3	1970.6	1960.9	1876.8	1781.5
20°	2054.8	2046.5	2057.5	2065.8	2070.0	2089.3	2067.2	2018.9	2007.9	1911.3	1800.9
22.5°	2111.4	2093.4	2094.8	2100.3	2103.1	2130.7	2116.9	2070.0	2058.9	1954.0	1824.3
25°	2253.5	2217.6	2194.2	2177.6	2158.3	2181.7	2173.5	2127.9	2118.3	2005.1	1853.3
27.5°	2474.3	2428.8	2381.8	2333.5	2257.6	2248.0	2234.2	2192.8	2181.7	2056.2	1882.3
30°	2725.4	2679.9	2624.7	2547.4	2405.3	2330.8	2299.0	2253.5	2241.1	2101.7	1909.9
32.5°	2975.2	2935.2	2880.0	2786.2	2583.3	2431.5	2363.9	2317.0	2304.6	2151.4	1943.0
35°	3169.8	3145.0	3109.1	2991.8	2759.9	2550.2	2457.7	2401.2	2387.4	2230.0	2003.7
37.5°	3327.1	3309.2	3278.8	3156.0	2888.3	2668.9	2565.4	2500.5	2485.3	2315.6	2068.6
40°	3558.9	3512.0	3487.2	3309.2	3000.1	2776.5	2686.8	2619.2	2602.6	2406.7	2121.0
42.5°	3756.3	3721.8	3691.4	3445.8	3106.3	2869.0	2801.3	2739.2	2717.2	2496.4	2177.6
45°	3789.4	3803.2	3788.0	3513.4	3274.7	2960.0	2917.3	2877.2	2856.5	2617.8	2263.2
47.5°	3790.8	3790.8	3701.1	3552.0	3483.1	3062.2	3041.5	3055.3	3033.2	2772.4	2365.3
50°	3691.4	3709.4	3662.4	3561.7	3538.2	3164.3	3193.3	3267.8	3245.7	2936.6	2475.7
52.5°	3485.8	3545.1	3543.8	3546.5	3458.2	3251.2	3353.3	3523.1	3485.8	3121.5	2593.0
55°	3122.9	3241.6	3347.8	3438.9	3389.2	3303.7	3549.3	3794.9	3756.3	3328.5	2711.6
57.5°	2812.4	2888.3	3020.8	3278.8	3307.8	3349.2	3732.8	4079.2	4044.7	3557.6	2835.8
60°	2457.7	2562.6	2695.1	3062.2	3208.4	3408.5	3934.3	4356.6	4323.5	3789.4	2955.9
62.5°	1912.6	2047.9	2312.8	2729.6	3063.5	3445.8	4093.0	4600.8	4585.6	4008.8	3063.5
65°	1333.1	1453.1	1824.3	2321.1	2833.1	3429.2	4220.0	4818.9	4805.1	4188.2	3139.4
67.5°	778.3	917.7	1337.2	1868.5	2426.0	3314.7	4261.4	4947.2	4947.2	4297.2	3160.1
70°	444.4	509.2	881.8	1362.0	1860.2	2998.7	4145.4	4945.8	4969.3	4272.4	3074.6
72.5°	310.5	339.5	593.4	916.3	1261.3	2426.0	3841.8	4707.1	4738.8	4037.8	2782.0
75°	241.5	262.2	418.1	625.1	794.9	1647.7	3178.1	3968.8	4053.0	3441.7	2249.4
77.5°	183.5	198.7	244.3	390.5	509.2	946.7	2097.6	2602.6	2608.1	2107.2	1206.1
80°	133.9	149.0	162.8	238.7	270.5	443.0	792.1	1087.4	1057.1	1019.8	652.7
82.5°	80.0	95.2	99.4	129.7	132.5	189.1	277.4	350.5	336.7	448.5	306.4
85°	34.5	48.3	51.1	59.3	56.6	77.3	110.4	92.5	82.8	95.2	66.2
87.5°	8.3	13.8	13.8	15.2	12.4	19.3	20.7	15.2	13.8	16.6	16.6
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°	1689.1	1689.1	1689.1	1689.1	1689.1	1689.1	1689.1	1689.1	1689.1	1689.1	1689.1
2.5°	1679.4	1675.3	1676.7	1653.2	1646.3	1639.4	1635.3	1632.5	1629.7	1633.9	1638.0
5°	1691.8	1682.2	1671.1	1636.6	1622.8	1607.7	1596.6	1587.0	1582.8	1582.8	1587.0
7.5°	1701.5	1684.9	1661.5	1615.9	1591.1	1570.4	1552.5	1540.0	1533.1	1533.1	1537.3
10°	1702.9	1679.4	1642.2	1587.0	1553.8	1523.5	1502.8	1489.0	1479.3	1479.3	1482.1
12.5°	1711.2	1679.4	1631.1	1564.9	1523.5	1486.2	1461.4	1440.7	1436.6	1436.6	1439.3
15°	1725.0	1686.3	1624.2	1545.6	1495.9	1453.1	1425.5	1403.4	1395.2	1400.7	1402.1
17.5°	1737.4	1690.5	1611.8	1520.7	1461.4	1414.5	1384.1	1364.8	1353.8	1366.2	1366.2
20°	1745.7	1690.5	1593.9	1489.0	1424.1	1371.7	1342.7	1319.3	1311.0	1326.2	1327.5
22.5°	1758.1	1689.1	1574.5	1457.3	1384.1	1328.9	1299.9	1282.0	1277.9	1294.4	1299.9
25°	1771.9	1691.8	1553.8	1421.4	1340.0	1286.1	1264.1	1255.8	1258.5	1279.2	1286.1
27.5°	1787.1	1697.4	1533.1	1381.4	1291.7	1243.4	1230.9	1235.1	1246.1	1272.3	1280.6
30°	1800.9	1698.7	1504.2	1334.4	1236.5	1190.9	1196.4	1214.4	1230.9	1257.2	1266.8
32.5°	1818.8	1700.1	1473.8	1283.4	1177.1	1144.0	1168.8	1197.8	1214.4	1239.2	1250.3
35°	1863.0	1723.6	1450.4	1233.7	1121.9	1104.0	1145.4	1182.6	1192.3	1214.4	1224.0
37.5°	1914.0	1762.2	1437.9	1182.6	1068.1	1064.0	1116.4	1153.7	1156.4	1170.2	1179.9
40°	1945.8	1778.8	1424.1	1139.9	1019.8	1022.6	1076.4	1105.4	1099.8	1109.5	1116.4
42.5°	1977.5	1784.3	1395.2	1104.0	974.3	977.0	1018.4	1039.1	1041.9	1062.6	1072.2
45°	2031.3	1799.5	1363.4	1070.9	932.9	923.2	948.0	975.6	1011.5	1051.5	1062.6
47.5°	2103.1	1831.2	1330.3	1030.8	892.8	861.1	870.8	919.1	956.3	993.6	1000.5
50°	2176.2	1863.0	1299.9	982.5	852.8	794.9	799.0	843.2	873.5	902.5	906.6
52.5°	2248.0	1890.6	1273.7	937.0	807.3	716.2	732.8	778.3	799.0	812.8	816.9
55°	2319.7	1914.0	1250.3	898.4	754.8	654.1	669.3	712.1	732.8	739.7	742.4
57.5°	2394.3	1941.6	1232.3	865.2	695.5	598.9	608.6	638.9	658.2	666.5	663.8
60°	2456.4	1965.1	1222.7	830.7	636.2	547.8	545.1	572.7	600.3	608.6	605.8
62.5°	2504.7	1980.3	1207.5	786.6	583.7	496.8	483.0	518.9	547.8	553.4	557.5
65°	2530.9	1981.6	1170.2	730.0	529.9	441.6	431.9	467.8	485.8	491.3	491.3
67.5°	2526.7	1959.6	1097.1	654.1	480.2	391.9	383.6	405.7	431.9	436.1	431.9
70°	2441.2	1868.5	979.8	574.1	420.9	347.8	332.6	354.7	379.5	364.3	357.4
72.5°	2198.3	1632.5	807.3	485.8	354.7	292.6	285.7	307.7	309.1	311.9	305.0
75°	1734.6	1215.8	604.4	378.1	287.0	245.6	244.3	240.1	245.6	256.7	248.4
77.5°	910.8	607.2	327.1	231.8	208.4	197.3	187.7	186.3	202.9	209.8	201.5
80°	494.0	340.9	187.7	139.4	127.0	128.3	140.8	138.0	155.9	160.1	153.2
82.5°	215.3	161.5	92.5	84.2	84.2	82.8	86.9	96.6	115.9	115.9	92.5
85°	46.9	40.0	35.9	41.4	46.9	46.9	46.9	46.9	33.1	17.9	12.4
87.5°	15.2	15.2	15.2	16.6	17.9	17.9	15.2	11.0	6.9	1.4	0.0
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)