

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: P842518

Luminaire Tested: **ARCH4-60-722-U-T3**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P842518
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: ARCH4-60-722-U-T3
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2200K, 520mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9714 lumens
Efficiency: N/A
Efficacy: 154.2 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

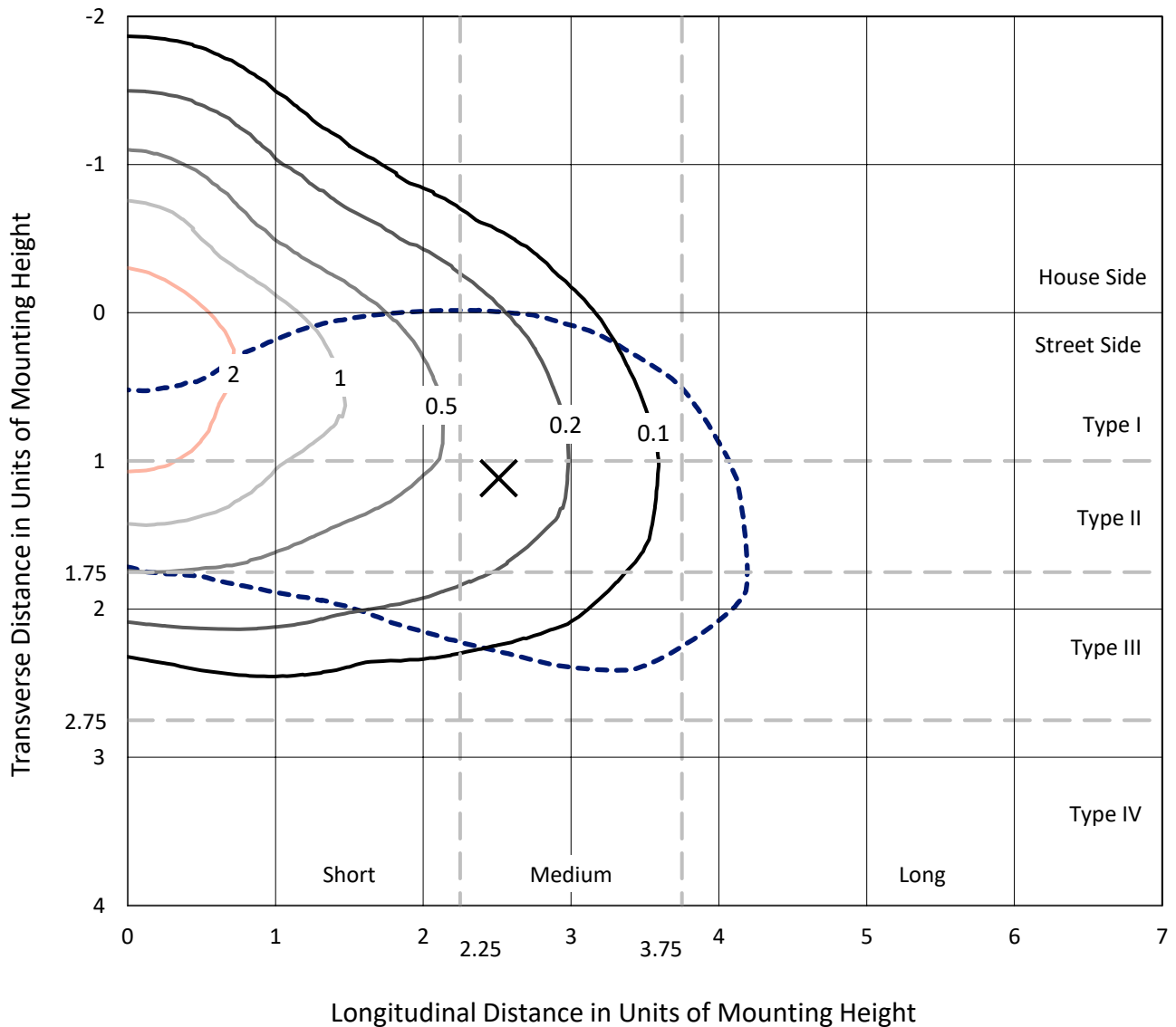
Input Watts (W): 63
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

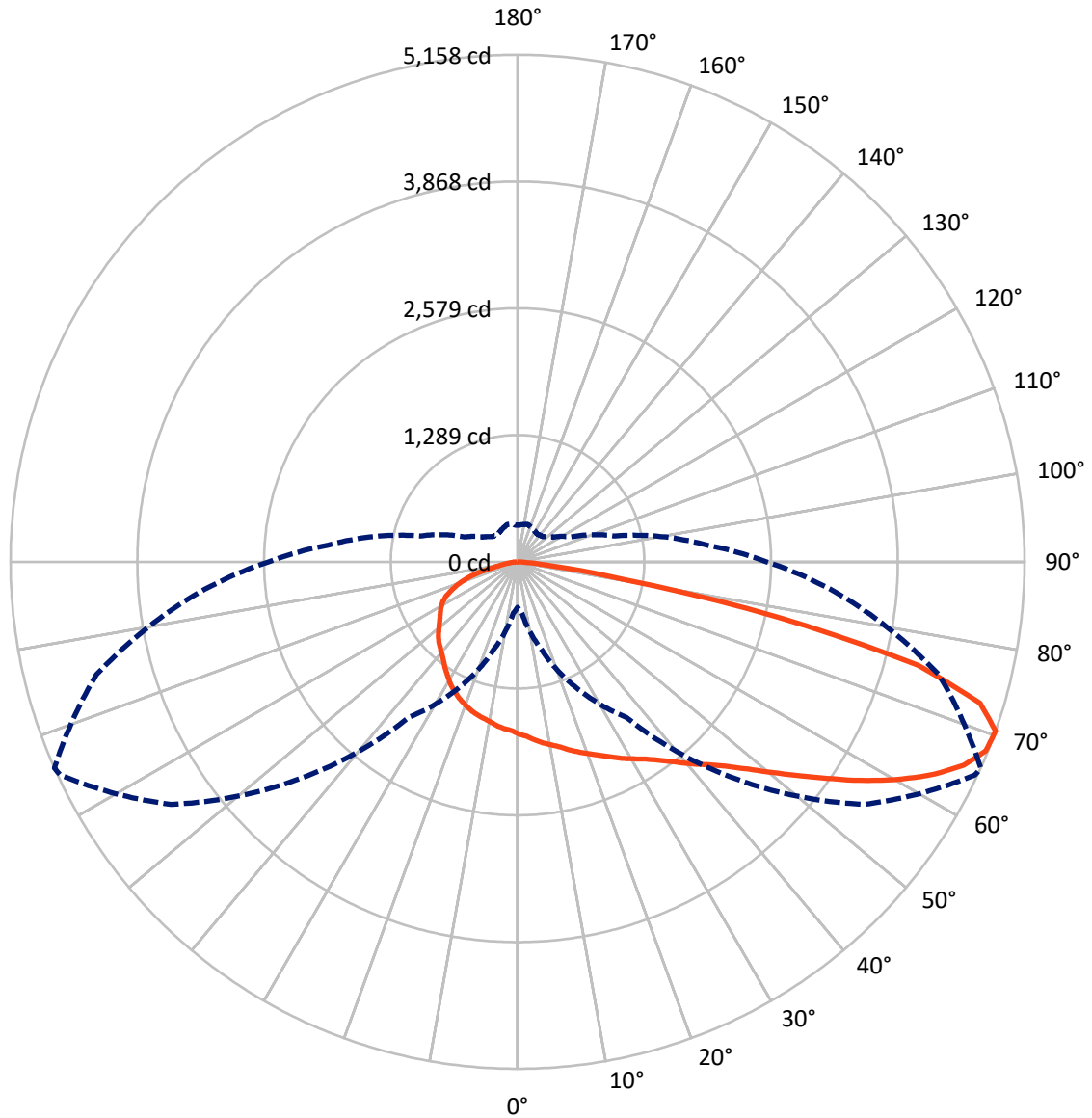
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3 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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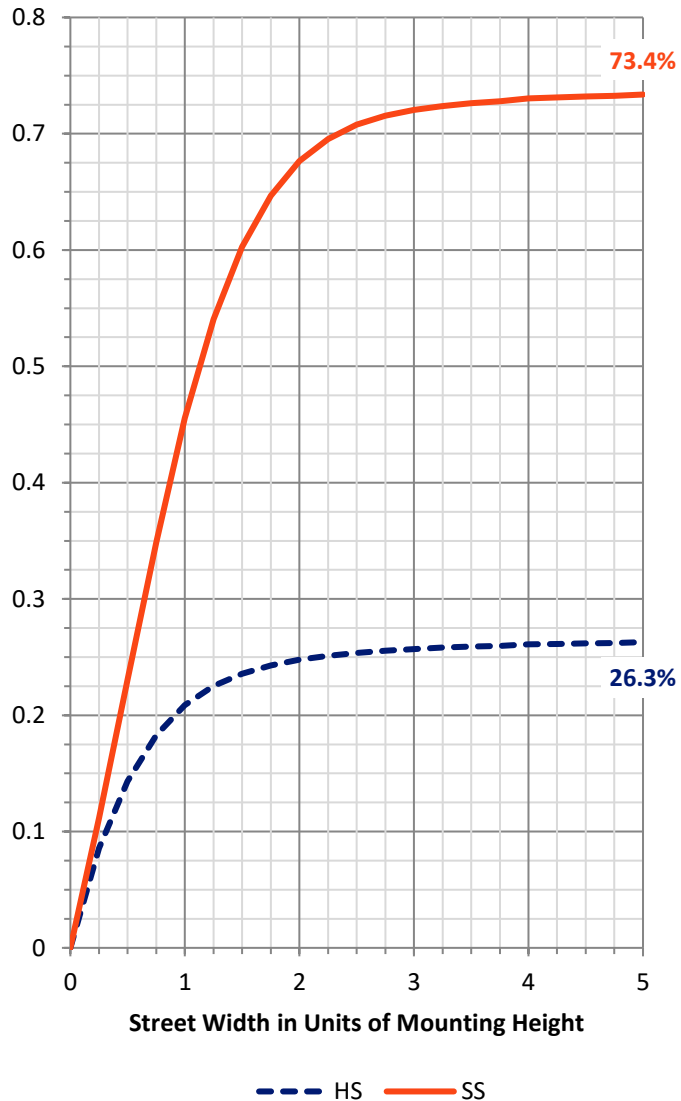
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2574.0	0.0	2574.0
	% Fixture	26.5	0.0	26.5
Street Side	Lumens	7140.0	0.0	7140.0
	% Fixture	73.5	0.0	73.5
Total	Lumens	9714.0	0.0	9714.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	168.5	1.7
10°-20°	505.3	5.2
20°-30°	847.1	8.7
30°-40°	1268.4	13.1
40°-50°	1695.8	17.5
50°-60°	1979.9	20.4
60°-70°	1968.7	20.3
70°-80°	1165.5	12.0
80°-90°	114.9	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°	9714.0	100.0
0°-180°	9714.0	100.0

Coefficient of Utilization

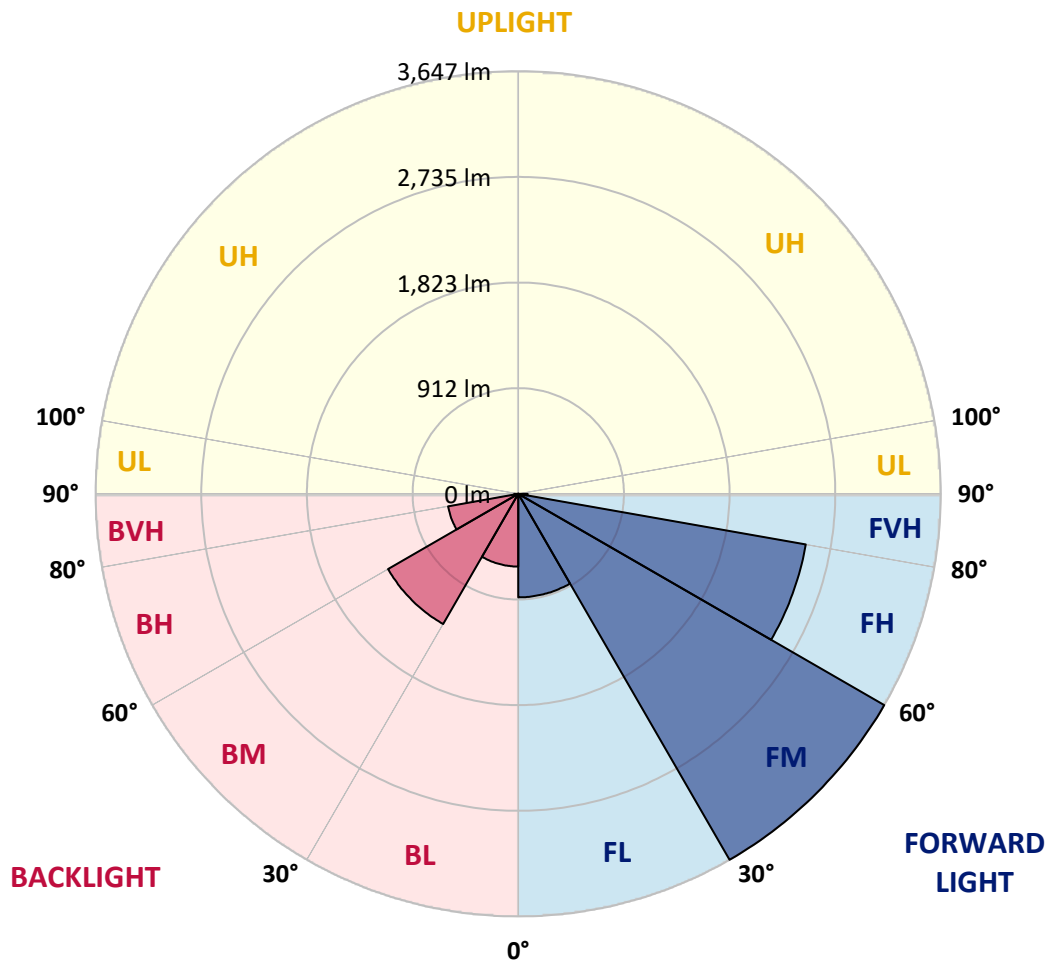


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	893.4	9.2			
FM (30°-60°)	3646.5	37.5			
FH (60°-80°)	2519.3	25.9			G2/5000
FVH (80°-90°)	80.7	0.8			G1/100
BL (0°-30°)	627.4	6.5	B2/1000		
BM (30°-60°)	1297.6	13.4	B2/2500		
BH (60°-80°)	614.9	6.3	B2/1000		G2/1000
BVH (80°-90°)	34.1	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°	1753.2	1753.2	1753.2	1753.2	1753.2	1753.2	1753.2	1753.2	1753.2	1753.2	1753.2
2.5°	1817.6	1814.7	1813.3	1807.6	1794.7	1800.4	1787.5	1778.9	1777.5	1757.5	1746.0
5°	1892.1	1890.7	1887.8	1879.2	1859.1	1862.0	1840.5	1824.8	1820.5	1789.0	1764.6
7.5°	1955.1	1952.2	1950.8	1939.4	1917.9	1916.4	1890.7	1867.7	1860.6	1817.6	1780.4
10°	2003.8	1999.5	2002.4	1990.9	1968.0	1963.7	1930.8	1900.7	1893.5	1839.1	1787.5
12.5°	2045.3	2042.5	2046.8	2036.8	2018.1	2013.8	1980.9	1942.2	1933.6	1870.6	1803.3
15°	2091.2	2081.2	2089.8	2085.5	2072.6	2071.1	2041.1	1998.1	1986.6	1910.7	1827.6
17.5°	2115.5	2109.8	2119.8	2121.3	2115.5	2125.6	2096.9	2045.3	2035.3	1948.0	1849.1
20°	2132.7	2124.1	2135.6	2144.2	2148.5	2168.5	2145.6	2095.5	2084.0	1983.8	1869.2
22.5°	2191.4	2172.8	2174.3	2180.0	2182.9	2211.5	2197.2	2148.5	2137.0	2028.2	1893.5
25°	2339.0	2301.7	2277.4	2260.2	2240.1	2264.5	2255.9	2208.6	2198.6	2081.2	1923.6
27.5°	2568.1	2520.9	2472.2	2422.0	2343.3	2333.2	2318.9	2276.0	2264.5	2134.2	1953.7
30°	2828.8	2781.6	2724.3	2644.1	2496.5	2419.2	2386.2	2339.0	2326.1	2181.4	1982.3
32.5°	3088.1	3046.5	2989.2	2891.8	2681.3	2523.7	2453.6	2404.9	2392.0	2233.0	2016.7
35°	3290.0	3264.3	3227.0	3105.3	2864.6	2646.9	2551.0	2492.2	2477.9	2314.6	2079.7
37.5°	3453.3	3434.7	3403.2	3275.7	2997.8	2770.1	2662.7	2595.4	2579.6	2403.4	2147.0
40°	3693.9	3645.2	3619.5	3434.7	3113.9	2881.8	2788.7	2718.5	2701.3	2498.0	2201.5
42.5°	3898.8	3863.0	3831.4	3576.5	3224.1	2977.8	2907.6	2843.1	2820.2	2591.1	2260.2
45°	3933.1	3947.5	3931.7	3646.7	3398.9	3072.3	3027.9	2986.4	2964.9	2717.1	2349.0
47.5°	3934.6	3934.6	3841.5	3686.8	3615.2	3178.3	3156.8	3171.1	3148.2	2877.5	2455.0
50°	3831.4	3850.1	3801.4	3696.8	3672.5	3284.3	3314.4	3391.7	3368.8	3048.0	2569.6
52.5°	3618.0	3679.6	3678.2	3681.1	3589.4	3374.5	3480.5	3656.7	3618.0	3239.9	2691.3
55°	3241.3	3364.5	3474.8	3569.3	3517.8	3429.0	3683.9	3938.9	3898.8	3454.7	2814.5
57.5°	2919.1	2997.8	3135.3	3403.2	3433.3	3476.2	3874.4	4233.9	4198.1	3692.5	2943.4
60°	2551.0	2659.8	2797.3	3178.3	3330.1	3537.8	4083.5	4521.8	4487.4	3933.1	3068.0
62.5°	1985.2	2125.6	2400.6	2833.1	3179.7	3576.5	4248.3	4775.3	4759.6	4160.9	3179.7
65°	1383.6	1508.2	1893.5	2409.2	2940.5	3559.3	4380.0	5001.7	4987.3	4347.1	3258.5
67.5°	807.8	952.5	1387.9	1939.4	2518.0	3440.4	4423.0	5134.9	5134.9	4460.2	3280.0
70°	461.2	528.5	915.3	1413.7	1930.8	3112.4	4302.7	5133.4	5157.8	4434.5	3191.2
72.5°	322.3	352.3	615.9	951.1	1309.1	2518.0	3987.6	4885.6	4918.6	4191.0	2887.6
75°	250.7	272.1	434.0	648.8	825.0	1710.2	3298.6	4119.3	4206.7	3572.2	2334.7
77.5°	190.5	206.3	253.5	405.3	528.5	982.6	2177.1	2701.3	2707.1	2187.1	1251.8
80°	138.9	154.7	169.0	247.8	280.7	459.8	822.1	1128.7	1097.2	1058.5	677.5
82.5°	83.1	98.8	103.1	134.6	137.5	196.2	287.9	363.8	349.5	465.5	318.0
85°	35.8	50.1	53.0	61.6	58.7	80.2	114.6	96.0	85.9	98.8	68.8
87.5°	8.6	14.3	14.3	15.8	12.9	20.1	21.5	15.8	14.3	17.2	17.2
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°	1753.2	1753.2	1753.2	1753.2	1753.2	1753.2	1753.2	1753.2	1753.2	1753.2	1753.2
2.5°	1743.1	1738.8	1740.3	1715.9	1708.8	1701.6	1697.3	1694.4	1691.6	1695.9	1700.2
5°	1756.0	1746.0	1734.5	1698.7	1684.4	1668.6	1657.2	1647.2	1642.9	1642.9	1647.2
7.5°	1766.0	1748.9	1724.5	1677.2	1651.5	1630.0	1611.4	1598.5	1591.3	1591.3	1595.6
10°	1767.5	1743.1	1704.5	1647.2	1612.8	1581.3	1559.8	1545.5	1535.4	1535.4	1538.3
12.5°	1776.1	1743.1	1693.0	1624.2	1581.3	1542.6	1516.8	1495.3	1491.0	1491.0	1493.9
15°	1790.4	1750.3	1685.8	1604.2	1552.6	1508.2	1479.6	1456.7	1448.1	1453.8	1455.2
17.5°	1803.3	1754.6	1672.9	1578.4	1516.8	1468.1	1436.6	1416.6	1405.1	1418.0	1418.0
20°	1811.9	1754.6	1654.3	1545.5	1478.2	1423.7	1393.6	1369.3	1360.7	1376.5	1377.9
22.5°	1824.8	1753.2	1634.3	1512.5	1436.6	1379.3	1349.2	1330.6	1326.3	1343.5	1349.2
25°	1839.1	1756.0	1612.8	1475.3	1390.8	1334.9	1312.0	1303.4	1306.3	1327.8	1334.9
27.5°	1854.9	1761.7	1591.3	1433.7	1340.6	1290.5	1277.6	1281.9	1293.4	1320.6	1329.2
30°	1869.2	1763.2	1561.2	1385.1	1283.4	1236.1	1241.8	1260.4	1277.6	1304.8	1314.9
32.5°	1887.8	1764.6	1529.7	1332.1	1221.8	1187.4	1213.2	1243.3	1260.4	1286.2	1297.7
35°	1933.6	1789.0	1505.4	1280.5	1164.5	1145.9	1188.8	1227.5	1237.5	1260.4	1270.5
37.5°	1986.6	1829.1	1492.5	1227.5	1108.6	1104.3	1158.7	1197.4	1200.3	1214.6	1224.6
40°	2019.6	1846.3	1478.2	1183.1	1058.5	1061.3	1117.2	1147.3	1141.6	1151.6	1158.7
42.5°	2052.5	1852.0	1448.1	1145.9	1011.2	1014.1	1057.0	1078.5	1081.4	1102.9	1112.9
45°	2108.4	1867.7	1415.1	1111.5	968.2	958.2	984.0	1012.6	1049.9	1091.4	1102.9
47.5°	2182.9	1900.7	1380.8	1069.9	926.7	893.8	903.8	953.9	992.6	1031.3	1038.4
50°	2258.8	1933.6	1349.2	1019.8	885.2	825.0	829.3	875.1	906.7	936.7	941.0
52.5°	2333.2	1962.3	1322.0	972.5	837.9	743.4	760.6	807.8	829.3	843.6	847.9
55°	2407.7	1986.6	1297.7	932.4	783.5	678.9	694.7	739.1	760.6	767.7	770.6
57.5°	2485.1	2015.3	1279.1	898.1	721.9	621.6	631.7	663.2	683.2	691.8	688.9
60°	2549.5	2039.6	1269.0	862.3	660.3	568.6	565.8	594.4	623.1	631.7	628.8
62.5°	2599.7	2055.4	1253.3	816.4	605.9	515.6	501.3	538.6	568.6	574.4	578.7
65°	2626.9	2056.8	1214.6	757.7	550.0	458.3	448.3	485.6	504.2	509.9	509.9
67.5°	2622.6	2033.9	1138.7	678.9	498.4	406.8	398.2	421.1	448.3	452.6	448.3
70°	2533.8	1939.4	1016.9	595.8	436.9	360.9	345.2	368.1	393.9	378.1	371.0
72.5°	2281.7	1694.4	837.9	504.2	368.1	303.7	296.5	319.4	320.8	323.7	316.5
75°	1800.4	1261.9	627.4	392.5	297.9	255.0	253.5	249.2	255.0	266.4	257.8
77.5°	945.3	630.2	339.5	240.6	216.3	204.8	194.8	193.4	210.6	217.7	209.1
80°	512.8	353.8	194.8	144.7	131.8	133.2	146.1	143.2	161.9	166.1	159.0
82.5°	223.4	167.6	96.0	87.4	87.4	85.9	90.2	100.3	120.3	120.3	96.0
85°	48.7	41.5	37.2	43.0	48.7	48.7	48.7	48.7	34.4	18.6	12.9
87.5°	15.8	15.8	15.8	17.2	18.6	18.6	15.8	11.5	7.2	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)