

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: P842520

Luminaire Tested: **ARCH4-60-722-U-T4W**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P842520
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2310-189-19)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-60-722-U-T4W
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2200K, 520mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9470 lumens
Efficiency: N/A
Efficacy: 150.3 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G2

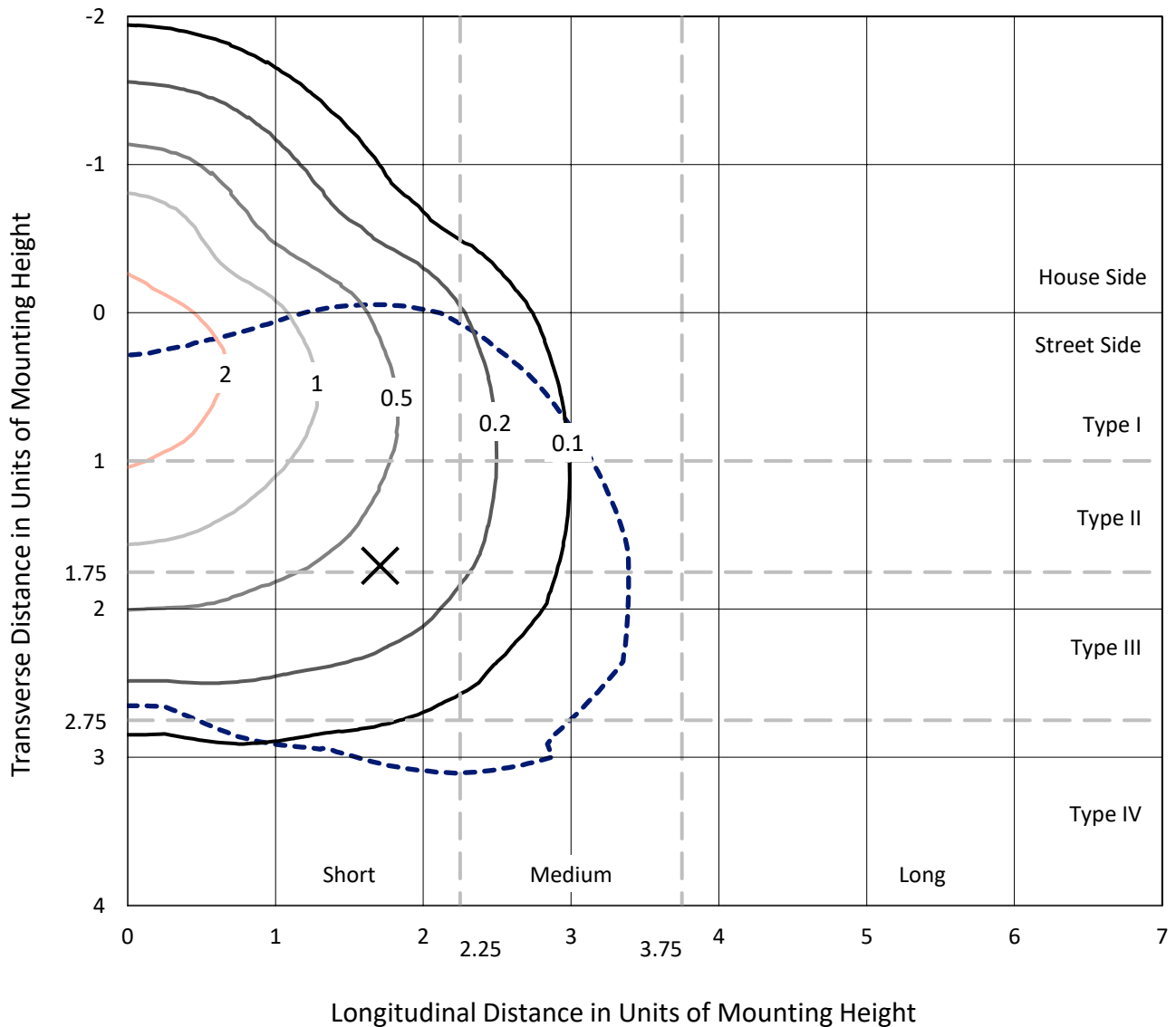
Input Watts (W): 63
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

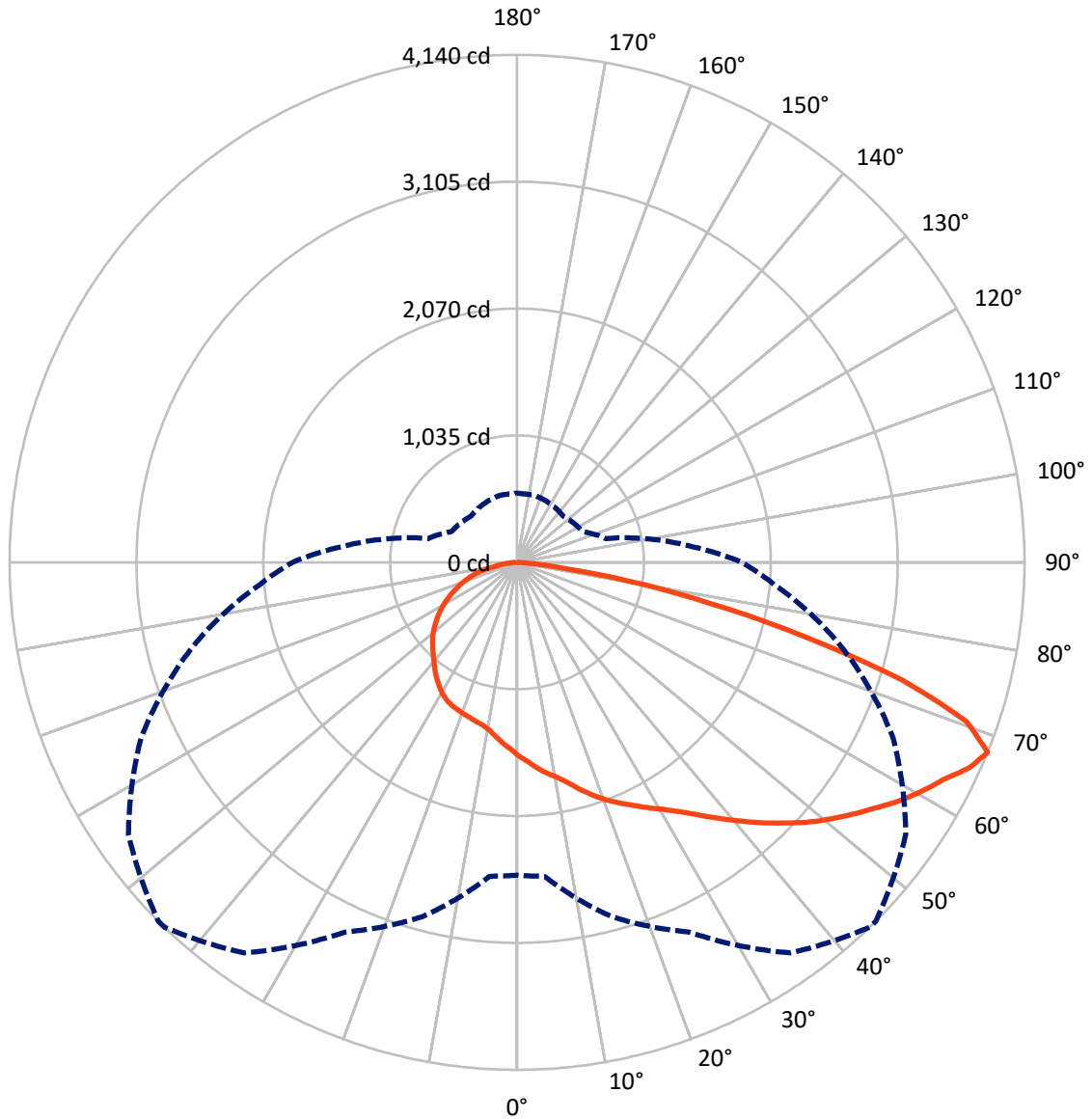
✕ Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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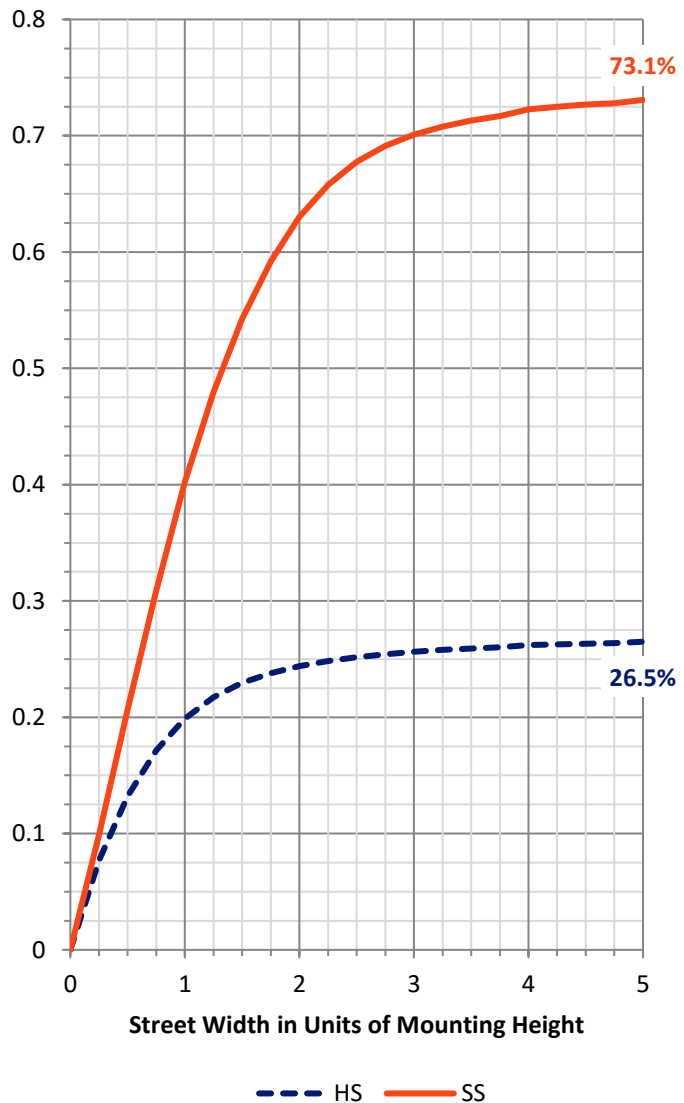
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2529.9	0.0	2529.9
	% Fixture	26.7	0.0	26.7
Street Side	Lumens	6940.1	0.0	6940.1
	% Fixture	73.3	0.0	73.3
Total	Lumens	9470.0	0.0	9470.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	151.2	1.6
10°-20°	467.1	4.9
20°-30°	806.3	8.5
30°-40°	1189.1	12.6
40°-50°	1611.0	17.0
50°-60°	1969.0	20.8
60°-70°	2030.7	21.4
70°-80°	1112.3	11.7
80°-90°	133.3	1.4
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°	9470.0	100.0
0°-180°	9470.0	100.0

Coefficient of Utilization



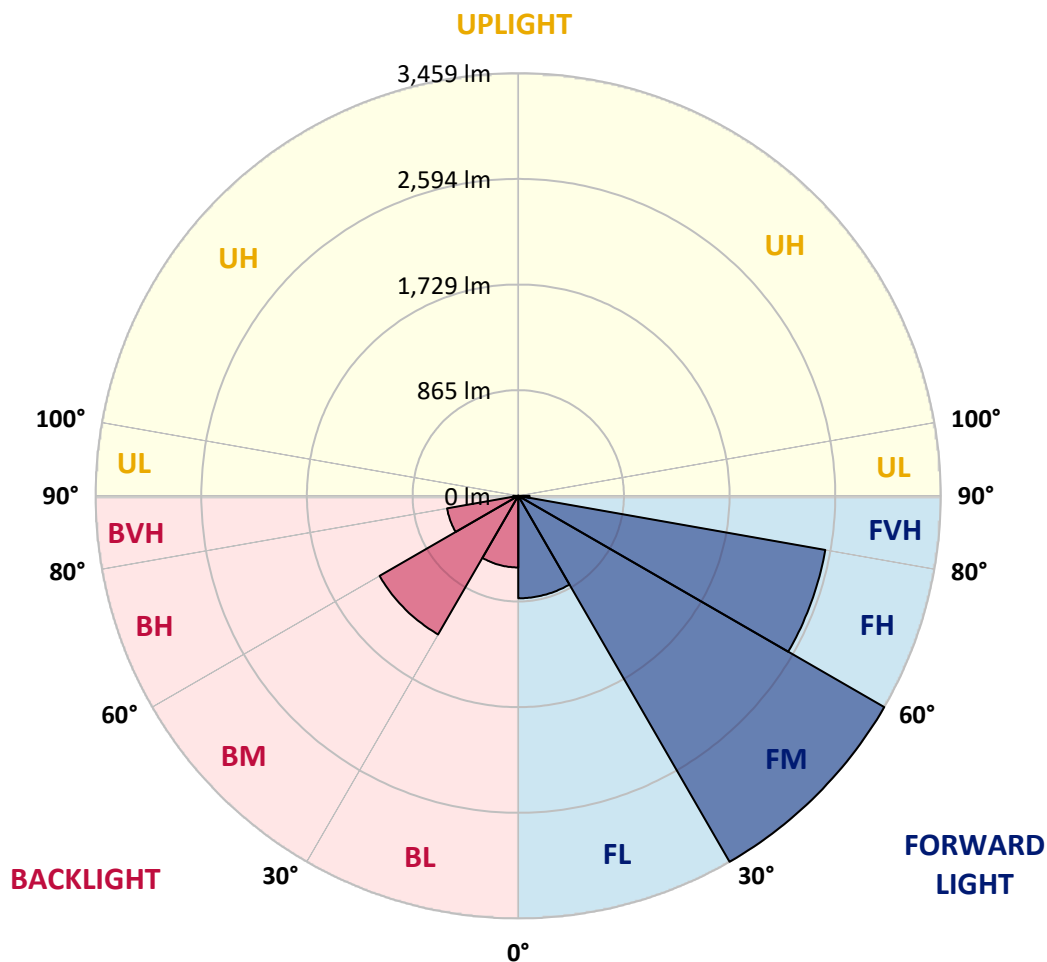
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	838.4	8.9			
FM (30°-60°)	3458.5	36.5			
FH (60°-80°)	2551.4	26.9			G2/5000
FVH (80°-90°)	91.8	1.0			G1/100
BL (0°-30°)	586.4	6.2	B2/1000		
BM (30°-60°)	1310.5	13.8	B2/2500		
BH (60°-80°)	591.6	6.2	B2/1000		G2/1000
BVH (80°-90°)	41.5	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 IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	1579.4	1579.4	1579.4	1579.4	1579.4	1579.4	1579.4	1579.4	1579.4	1579.4	1579.4
2.5°	1648.6	1647.1	1650.0	1639.9	1627.0	1625.5	1625.5	1616.9	1606.8	1586.6	1570.8
5°	1726.4	1723.5	1725.0	1710.6	1693.3	1684.6	1683.2	1664.4	1641.4	1609.7	1580.9
7.5°	1798.5	1795.6	1794.1	1778.3	1752.3	1737.9	1736.5	1709.1	1681.7	1632.7	1590.9
10°	1866.2	1863.3	1860.4	1838.8	1807.1	1785.5	1782.6	1748.0	1713.4	1652.9	1599.6
12.5°	1952.7	1946.9	1944.0	1918.1	1872.0	1848.9	1844.6	1798.5	1755.2	1681.7	1616.9
15°	2043.4	2039.1	2034.8	2010.3	1958.4	1928.2	1921.0	1863.3	1804.2	1719.2	1642.8
17.5°	2111.2	2106.8	2106.8	2085.2	2037.7	2003.1	1997.3	1928.2	1854.7	1753.8	1663.0
20°	2153.0	2148.6	2153.0	2140.0	2104.0	2075.1	2069.4	1993.0	1905.1	1785.5	1680.3
22.5°	2183.2	2178.9	2186.1	2180.3	2154.4	2137.1	2132.8	2057.9	1957.0	1818.6	1697.6
25°	2236.5	2236.5	2236.5	2226.5	2202.0	2196.2	2196.2	2131.3	2023.3	1861.9	1723.5
27.5°	2343.2	2337.4	2330.2	2301.4	2259.6	2258.2	2266.8	2206.3	2099.6	1918.1	1755.2
30°	2500.3	2497.4	2470.0	2409.5	2338.9	2331.7	2337.4	2287.0	2181.8	1977.2	1791.3
32.5°	2703.5	2693.4	2637.2	2546.4	2445.5	2412.4	2423.9	2370.6	2268.2	2037.7	1825.8
35°	2847.6	2850.4	2810.1	2728.0	2608.3	2520.4	2529.1	2464.2	2361.9	2105.4	1869.1
37.5°	3013.3	3023.4	2962.8	2900.9	2789.9	2640.0	2648.7	2560.8	2455.6	2190.4	1915.2
40°	3242.4	3222.2	3119.9	3046.4	2923.9	2765.4	2772.6	2668.9	2563.7	2271.1	1968.5
42.5°	3434.1	3398.1	3274.1	3180.4	3033.5	2898.0	2905.2	2785.6	2673.2	2360.5	2027.6
45°	3709.3	3609.9	3431.2	3385.1	3145.9	3027.7	3034.9	2909.5	2788.5	2455.6	2091.0
47.5°	3869.3	3710.8	3596.9	3572.4	3269.8	3161.7	3170.4	3040.7	2912.4	2563.7	2157.3
50°	3859.2	3756.9	3723.7	3663.2	3379.3	3287.1	3295.7	3176.1	3037.8	2670.3	2220.7
52.5°	3792.9	3811.6	3794.3	3693.5	3488.8	3408.1	3418.2	3310.1	3166.0	2769.7	2279.8
55°	3895.2	3908.2	3875.0	3742.5	3609.9	3529.2	3540.7	3451.4	3292.9	2857.6	2330.2
57.5°	4017.7	3971.6	3938.5	3828.9	3735.3	3660.3	3673.3	3595.5	3402.4	2928.3	2369.1
60°	4011.9	3915.4	3948.5	3834.7	3820.3	3781.4	3792.9	3713.6	3486.0	2980.1	2385.0
62.5°	3716.5	3664.6	3831.8	3792.9	3889.5	3889.5	3903.9	3785.7	3536.4	3001.8	2376.3
65°	3203.5	3206.4	3500.4	3661.8	3971.6	4037.9	4049.4	3830.4	3507.6	2938.3	2295.6
67.5°	2552.1	2570.9	2993.1	3328.9	3889.5	4138.8	4140.2	3870.7	3383.6	2759.7	2108.3
70°	1867.6	1882.0	2380.7	2788.5	3501.8	3915.4	3892.3	3756.9	3114.2	2448.4	1815.8
72.5°	1262.4	1275.3	1788.4	2141.4	2873.5	3334.6	3284.2	3320.2	2654.5	2011.7	1459.8
75°	848.8	864.6	1272.5	1531.9	2114.1	2532.0	2419.6	2514.7	2053.5	1523.2	1065.0
77.5°	534.6	544.7	808.4	1004.4	1444.0	1723.5	1611.1	1612.6	1183.1	820.0	572.1
80°	340.1	343.0	490.0	579.3	835.8	1036.1	916.5	745.0	533.2	435.2	341.5
82.5°	197.4	193.1	292.5	327.1	397.7	393.4	325.7	308.4	233.5	217.6	174.4
85°	79.3	73.5	128.3	119.6	121.1	128.3	95.1	95.1	76.4	59.1	43.2
87.5°	15.9	15.9	17.3	15.9	15.9	17.3	13.0	13.0	11.5	11.5	11.5
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°	1579.4	1579.4	1579.4	1579.4	1579.4	1579.4	1579.4	1579.4	1579.4	1579.4	1579.4
2.5°	1567.9	1565.0	1557.8	1539.1	1529.0	1523.2	1514.6	1511.7	1510.2	1511.7	1516.0
5°	1572.2	1562.1	1541.9	1511.7	1491.5	1478.5	1464.1	1458.4	1454.0	1454.0	1458.4
7.5°	1575.1	1559.2	1524.7	1480.0	1451.2	1431.0	1413.7	1406.5	1405.0	1409.4	1410.8
10°	1576.5	1553.5	1504.5	1448.3	1410.8	1384.9	1367.6	1363.3	1367.6	1376.2	1377.7
12.5°	1586.6	1554.9	1493.0	1426.7	1382.0	1356.1	1343.1	1343.1	1354.6	1370.5	1371.9
15°	1603.9	1565.0	1487.2	1409.4	1363.3	1340.2	1335.9	1343.1	1360.4	1384.9	1387.8
17.5°	1616.9	1570.8	1474.2	1386.3	1338.8	1324.3	1331.6	1348.8	1373.3	1406.5	1409.4
20°	1625.5	1570.8	1455.5	1358.9	1314.3	1311.4	1331.6	1358.9	1384.9	1423.8	1428.1
22.5°	1634.2	1567.9	1433.9	1325.8	1286.9	1295.5	1333.0	1367.6	1393.5	1435.3	1442.5
25°	1650.0	1572.2	1412.3	1292.6	1258.1	1282.6	1331.6	1373.3	1400.7	1444.0	1455.5
27.5°	1671.6	1582.3	1396.4	1262.4	1229.2	1262.4	1321.5	1371.9	1400.7	1442.5	1455.5
30°	1694.7	1593.8	1377.7	1229.2	1196.1	1233.6	1299.8	1356.1	1389.2	1428.1	1444.0
32.5°	1719.2	1606.8	1361.8	1193.2	1155.7	1194.6	1268.1	1331.6	1367.6	1403.6	1420.9
35°	1752.3	1629.9	1353.2	1164.4	1119.7	1154.3	1227.8	1299.8	1338.8	1371.9	1392.1
37.5°	1792.7	1658.7	1348.8	1135.6	1080.8	1109.6	1184.6	1260.9	1302.7	1330.1	1348.8
40°	1838.8	1694.7	1347.4	1108.2	1041.9	1063.5	1139.9	1216.3	1256.6	1278.2	1294.1
42.5°	1890.7	1735.1	1344.5	1080.8	1003.0	1020.3	1096.7	1171.6	1206.2	1224.9	1239.3
45°	1945.4	1775.4	1338.8	1047.7	961.2	981.4	1052.0	1118.3	1154.3	1170.2	1186.0
47.5°	2000.2	1815.8	1327.2	1010.2	923.7	942.5	1004.4	1062.1	1090.9	1105.3	1121.2
50°	2053.5	1851.8	1299.8	967.0	884.8	902.1	949.7	988.6	1010.2	1021.7	1037.6
52.5°	2101.1	1876.3	1260.9	916.5	845.9	854.6	886.3	919.4	936.7	938.1	952.5
55°	2141.4	1889.2	1204.7	864.6	804.1	805.6	822.9	848.8	856.0	850.2	860.3
57.5°	2164.5	1882.0	1142.8	811.3	760.9	755.1	768.1	781.1	782.5	768.1	778.2
60°	2170.3	1848.9	1062.1	758.0	717.7	701.8	706.1	703.2	700.4	694.6	703.2
62.5°	2141.4	1778.3	972.7	706.1	671.5	647.0	645.6	644.2	648.5	649.9	651.4
65°	2036.2	1645.7	866.1	652.8	622.5	589.4	588.0	605.3	611.0	602.4	605.3
67.5°	1833.0	1442.5	749.4	590.8	560.6	531.8	543.3	553.4	563.5	560.6	563.5
70°	1544.8	1184.6	642.7	521.7	492.8	477.0	490.0	498.6	500.1	497.2	500.1
72.5°	1214.8	925.2	543.3	451.1	425.1	417.9	433.8	441.0	453.9	459.7	461.1
75°	877.6	683.1	445.3	374.7	353.1	353.1	367.5	380.4	392.0	384.8	380.4
77.5°	490.0	407.8	319.9	258.0	262.3	282.5	288.2	302.6	314.2	312.7	309.8
80°	296.9	255.1	216.2	167.2	165.7	181.6	219.0	243.5	249.3	236.3	234.9
82.5°	154.2	134.0	115.3	93.7	103.8	121.1	126.8	152.8	168.6	162.8	170.0
85°	38.9	37.5	41.8	43.2	53.3	59.1	64.8	76.4	50.4	24.5	24.5
87.5°	11.5	11.5	14.4	14.4	18.7	23.1	21.6	21.6	11.5	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)