

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: P842516

Luminaire Tested: **ARCH4-60-722-U-T2U**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P842516
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-18)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-60-722-U-T2U
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2200K, 520mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9729 lumens
Efficiency: N/A
Efficacy: 154.4 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G2

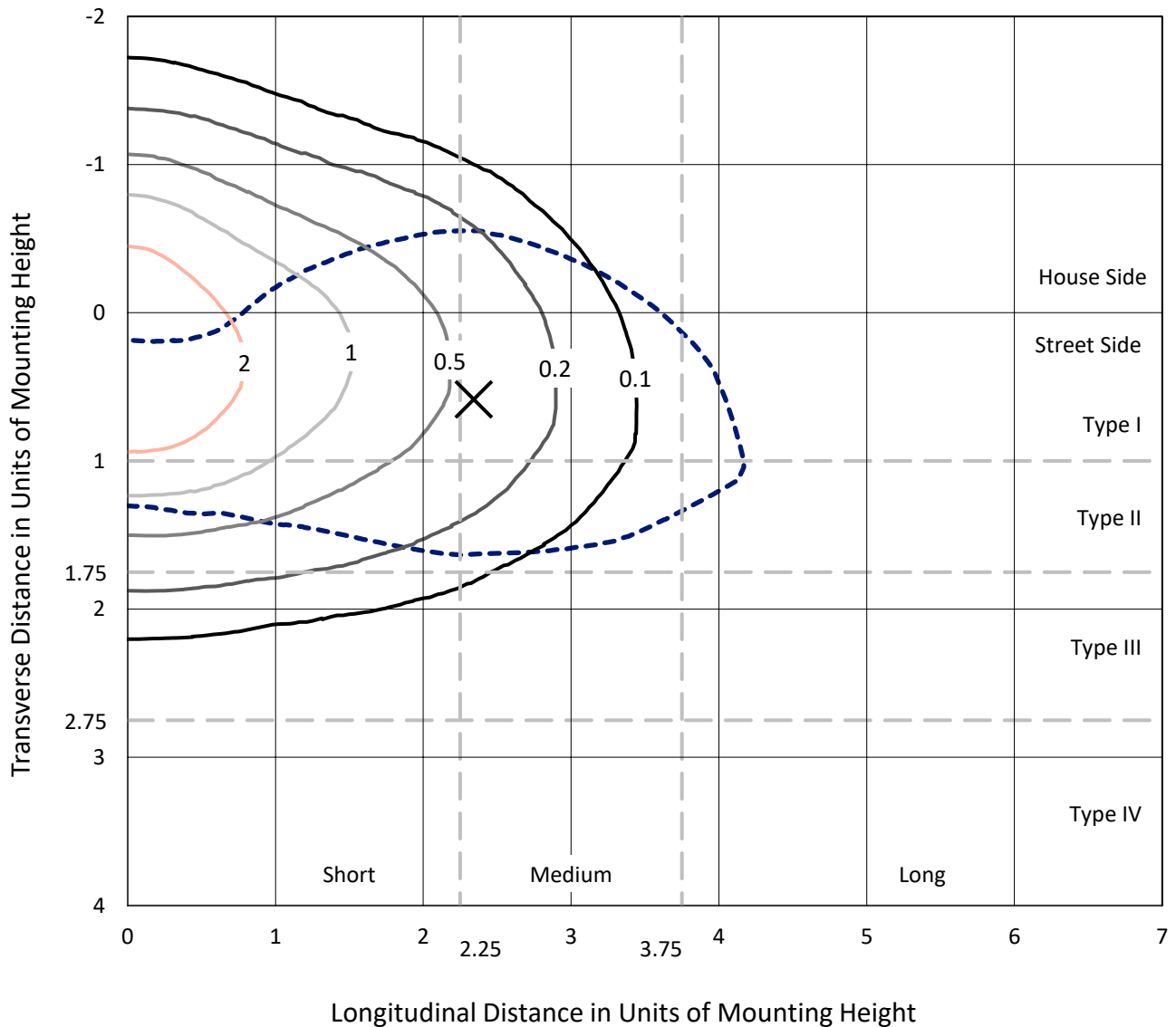
Input Watts (W): 63
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

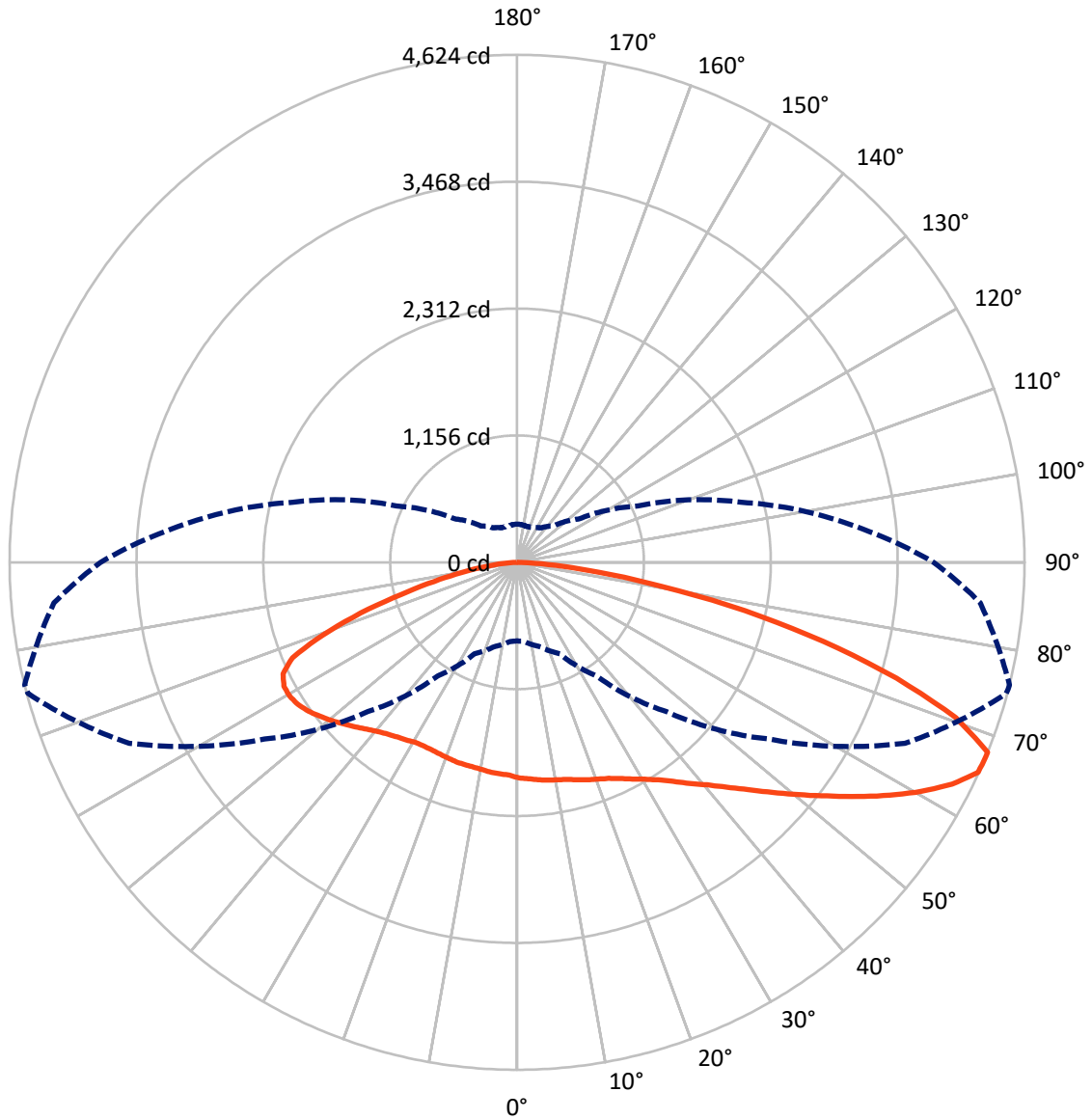
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.6 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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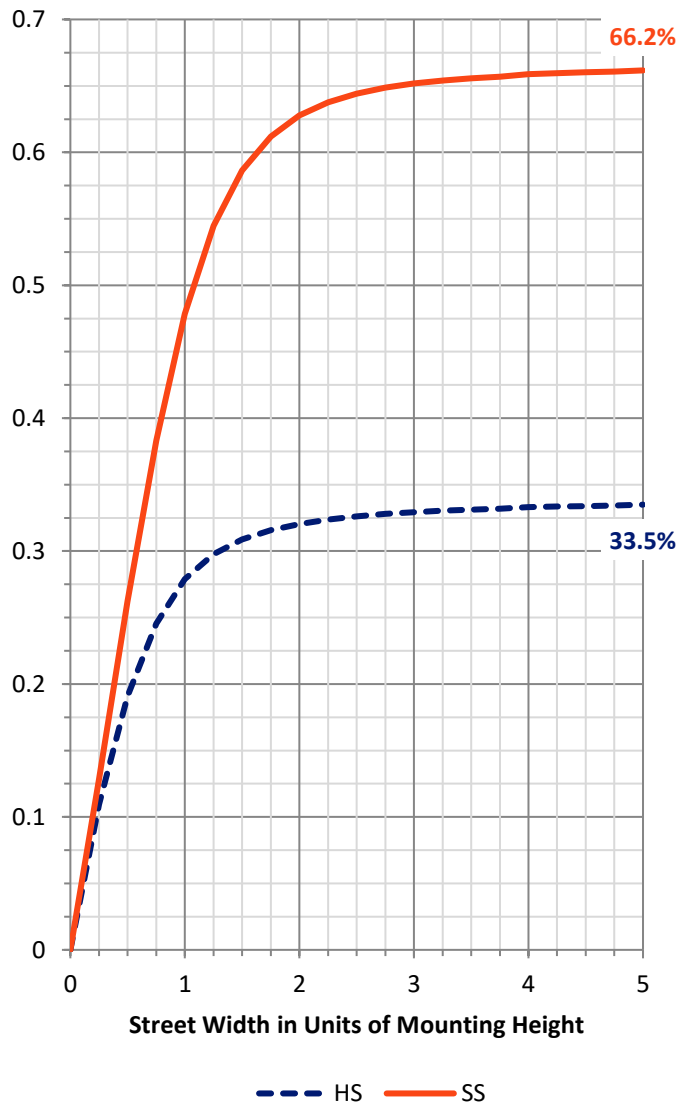
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3287.5	0.0	3287.5
	% Fixture	33.8	0.0	33.8
Street Side	Lumens	6441.5	0.0	6441.5
	% Fixture	66.2	0.0	66.2
Total	Lumens	9729.0	0.0	9729.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	189.5	1.9
10°-20°	579.3	6.0
20°-30°	984.3	10.1
30°-40°	1400.6	14.4
40°-50°	1768.9	18.2
50°-60°	1915.1	19.7
60°-70°	1781.3	18.3
70°-80°	956.7	9.8
80°-90°	153.3	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°	9729.0	100.0
0°-180°	9729.0	100.0

Coefficient of Utilization

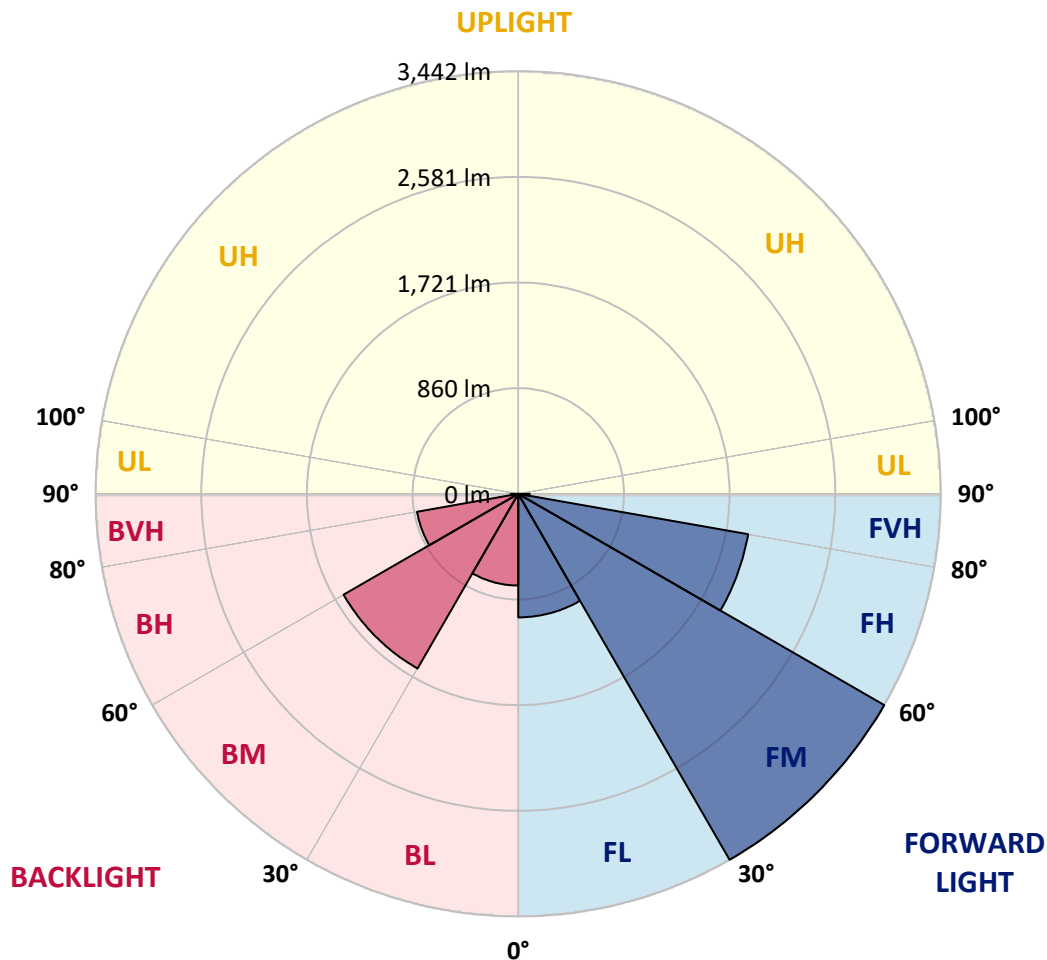


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1006.1	10.3			
FM (30°-60°)	3441.7	35.4			
FH (60°-80°)	1901.0	19.5			G2/5000
FVH (80°-90°)	92.7	1.0			G1/100
BL (0°-30°)	747.1	7.7	B2/1000		
BM (30°-60°)	1642.8	16.9	B2/2500		
BH (60°-80°)	837.0	8.6	B2/1000		G2/1000
BVH (80°-90°)	60.6	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°	1965.2	1965.2	1965.2	1965.2	1965.2	1965.2	1965.2	1965.2	1965.2	1965.2	1965.2
2.5°	2024.8	2021.2	2006.8	2008.6	2008.6	2006.8	1985.1	1976.1	1976.1	1974.3	1954.4
5°	2097.1	2091.7	2075.4	2071.8	2064.6	2055.6	2021.2	2001.4	1992.3	1990.5	1963.4
7.5°	2182.0	2174.8	2154.9	2144.1	2126.0	2102.5	2059.2	2028.5	2006.8	2005.0	1967.0
10°	2266.9	2259.7	2236.2	2216.3	2191.0	2153.1	2097.1	2051.9	2017.6	2014.0	1968.8
12.5°	2368.0	2360.8	2331.9	2306.6	2268.7	2218.1	2144.1	2082.6	2035.7	2030.3	1974.3
15°	2474.6	2463.8	2434.9	2406.0	2359.0	2294.0	2205.5	2124.2	2064.6	2055.6	1990.5
17.5°	2563.1	2548.7	2525.2	2496.3	2443.9	2368.0	2266.9	2165.7	2091.7	2084.5	2006.8
20°	2639.0	2628.1	2602.9	2575.8	2519.8	2436.7	2324.7	2207.3	2117.0	2107.9	2019.4
22.5°	2711.2	2696.8	2682.3	2662.5	2601.0	2508.9	2391.5	2257.9	2149.5	2138.6	2035.7
25°	2794.3	2778.1	2772.6	2761.8	2689.6	2595.6	2472.8	2321.1	2194.6	2182.0	2064.6
27.5°	2897.3	2879.2	2868.4	2868.4	2781.7	2684.1	2559.5	2395.1	2247.0	2236.2	2100.7
30°	3005.7	2984.0	2967.7	2967.7	2870.2	2772.6	2644.4	2469.2	2306.6	2294.0	2147.7
32.5°	3101.4	3079.7	3061.7	3059.8	2958.7	2861.2	2732.9	2550.5	2378.9	2362.6	2205.5
35°	3175.4	3155.6	3139.3	3142.9	3047.2	2951.5	2832.3	2658.8	2469.2	2451.1	2281.3
37.5°	3220.6	3213.4	3204.3	3217.0	3128.5	3038.2	2935.2	2763.6	2572.1	2555.9	2375.3
40°	3244.1	3238.7	3274.8	3291.0	3197.1	3115.8	3038.2	2872.0	2684.1	2666.1	2483.6
42.5°	3278.4	3323.6	3338.0	3334.4	3247.7	3175.4	3132.1	2989.4	2816.0	2799.7	2613.7
45°	3155.6	3144.7	3224.2	3267.6	3251.3	3213.4	3220.6	3130.3	2969.5	2953.3	2763.6
47.5°	2991.2	2976.8	3021.9	3128.5	3191.7	3227.8	3300.1	3276.6	3146.5	3132.1	2938.8
50°	2644.4	2664.3	2832.3	2974.9	3099.6	3224.2	3366.9	3433.7	3341.6	3327.2	3126.7
52.5°	2259.7	2279.5	2454.7	2783.5	2987.6	3197.1	3415.7	3590.9	3553.0	3536.7	3327.2
55°	1979.7	2023.0	2221.7	2460.2	2828.6	3112.2	3444.6	3751.7	3780.6	3766.1	3545.7
57.5°	1701.5	1734.0	1884.0	2095.3	2611.9	2964.1	3442.8	3901.6	4019.0	4004.5	3767.9
60°	1374.6	1416.1	1535.3	1762.9	2322.9	2787.1	3392.2	4019.0	4248.4	4237.5	3982.9
62.5°	1150.6	1163.2	1248.1	1445.0	1950.8	2563.1	3278.4	4082.2	4456.1	4448.9	4176.1
65°	926.6	928.4	1006.1	1170.5	1591.3	2284.9	3085.1	4058.7	4613.2	4616.9	4315.2
67.5°	715.3	724.3	794.8	919.4	1264.4	1923.7	2808.8	3899.8	4615.1	4624.1	4235.7
70°	494.9	502.1	608.7	729.7	977.2	1533.5	2434.9	3478.9	4235.7	4243.0	3796.8
72.5°	348.6	352.2	466.0	583.4	764.1	1156.0	1837.0	2877.4	3610.8	3616.2	3193.5
75°	260.1	263.7	328.7	442.5	585.2	800.2	1255.4	2203.7	2884.6	2884.6	2521.6
77.5°	184.2	186.0	213.1	305.3	390.2	540.1	755.0	1443.2	2117.0	2120.6	1837.0
80°	124.6	126.4	139.1	205.9	243.8	292.6	410.0	756.8	1334.8	1340.3	1166.9
82.5°	65.0	68.6	77.7	104.8	122.8	162.6	211.3	384.7	738.8	753.2	700.8
85°	25.3	25.3	28.9	34.3	45.2	63.2	97.5	146.3	334.2	345.0	308.9
87.5°	9.0	9.0	10.8	10.8	12.6	14.5	16.3	21.7	37.9	37.9	36.1
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°	1965.2	1965.2	1965.2	1965.2	1965.2	1965.2	1965.2	1965.2	1965.2	1965.2	1965.2
2.5°	1947.2	1947.2	1938.1	1941.8	1939.9	1936.3	1932.7	1938.1	1932.7	1920.1	1918.3
5°	1950.8	1947.2	1932.7	1930.9	1925.5	1918.3	1909.2	1912.9	1903.8	1893.0	1891.2
7.5°	1952.6	1945.4	1925.5	1918.3	1907.4	1893.0	1878.5	1878.5	1865.9	1855.1	1853.2
10°	1949.0	1939.9	1912.9	1898.4	1878.5	1856.9	1837.0	1831.6	1817.1	1804.5	1804.5
12.5°	1950.8	1938.1	1903.8	1880.3	1853.2	1826.2	1800.9	1793.6	1781.0	1768.4	1766.5
15°	1961.6	1943.6	1900.2	1869.5	1829.8	1799.1	1772.0	1766.5	1755.7	1746.7	1746.7
17.5°	1972.5	1949.0	1894.8	1851.4	1802.7	1768.4	1743.1	1743.1	1735.8	1730.4	1730.4
20°	1977.9	1950.8	1884.0	1826.2	1770.2	1734.0	1710.6	1714.2	1712.4	1710.6	1710.6
22.5°	1990.5	1954.4	1874.9	1802.7	1735.8	1697.9	1676.2	1681.6	1679.8	1679.8	1681.6
25°	2010.4	1963.4	1867.7	1781.0	1703.3	1661.8	1638.3	1641.9	1641.9	1641.9	1641.9
27.5°	2037.5	1981.5	1865.9	1761.1	1670.8	1623.8	1594.9	1594.9	1587.7	1589.5	1591.3
30°	2079.0	2015.8	1869.5	1743.1	1636.5	1576.9	1542.6	1537.1	1535.3	1539.0	1540.8
32.5°	2129.6	2062.8	1891.2	1730.4	1600.4	1524.5	1481.2	1479.3	1473.9	1473.9	1473.9
35°	2192.8	2107.9	1911.0	1728.6	1564.2	1468.5	1421.5	1416.1	1403.5	1398.1	1398.1
37.5°	2274.1	2178.4	1934.5	1716.0	1533.5	1414.3	1358.3	1340.3	1325.8	1324.0	1324.0
40°	2373.5	2257.9	1968.8	1701.5	1501.0	1358.3	1284.3	1253.6	1255.4	1262.6	1262.6
42.5°	2490.9	2355.4	2012.2	1694.3	1454.1	1300.5	1197.6	1161.4	1174.1	1181.3	1183.1
45°	2628.1	2471.0	2061.0	1685.3	1410.7	1235.5	1105.4	1060.3	1065.7	1067.5	1069.3
47.5°	2787.1	2599.2	2111.5	1678.0	1361.9	1154.2	1004.3	944.7	942.9	932.0	935.7
50°	2953.3	2734.7	2163.9	1665.4	1302.3	1058.5	897.7	827.3	812.8	796.6	798.4
52.5°	3130.3	2873.8	2212.7	1645.5	1228.3	960.9	796.6	720.7	691.8	673.7	677.4
55°	3325.4	3016.5	2259.7	1614.8	1150.6	863.4	706.3	628.6	592.5	578.0	579.8
57.5°	3504.2	3153.8	2294.0	1576.9	1065.7	774.9	626.8	550.9	527.4	525.6	527.4
60°	3677.6	3269.4	2308.4	1524.5	979.0	693.6	552.7	494.9	478.7	487.7	489.5
62.5°	3823.9	3343.4	2301.2	1454.1	890.5	615.9	493.1	451.6	440.7	458.8	460.6
65°	3908.8	3366.9	2250.6	1352.9	794.8	540.1	437.1	392.0	386.5	397.4	402.8
67.5°	3796.8	3220.6	2113.4	1213.8	688.2	469.6	382.9	346.8	337.8	346.8	346.8
70°	3365.1	2790.7	1788.2	993.5	570.8	401.0	332.4	307.1	299.8	307.1	305.3
72.5°	2803.4	2321.1	1408.9	774.9	449.8	337.8	289.0	265.5	258.3	251.1	247.5
75°	2174.8	1762.9	1022.4	569.0	339.6	270.9	242.0	220.4	202.3	209.5	205.9
77.5°	1593.1	1237.3	724.3	393.8	243.8	209.5	189.7	173.4	160.8	175.2	173.4
80°	1026.0	800.2	484.1	263.7	168.0	146.3	139.1	130.1	142.7	186.0	189.7
82.5°	626.8	507.6	289.0	171.6	110.2	97.5	90.3	90.3	146.3	160.8	162.6
85°	280.0	269.1	157.1	88.5	61.4	56.0	50.6	65.0	59.6	43.4	45.2
87.5°	45.2	47.0	34.3	30.7	23.5	23.5	18.1	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)