

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: P800005

Luminaire Tested: **ARCH2-70-727-U-T2U**

Issue Date: 4/4/2024

Test Information

Test Method: LM-79-08
Report Number: P800005
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-18)
Test Lab: INNOVATION CENTER
Issue Date: 4/4/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH2-70-727-U-T2U
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 555mA LIGHTSQUARES WITH 10 LEDS EACH AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9658 lumens
Efficiency: N/A
Efficacy: 131.2 lumens/watt
Luminous Opening: Rectangular (W 0.67' x L: 0.33' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G2

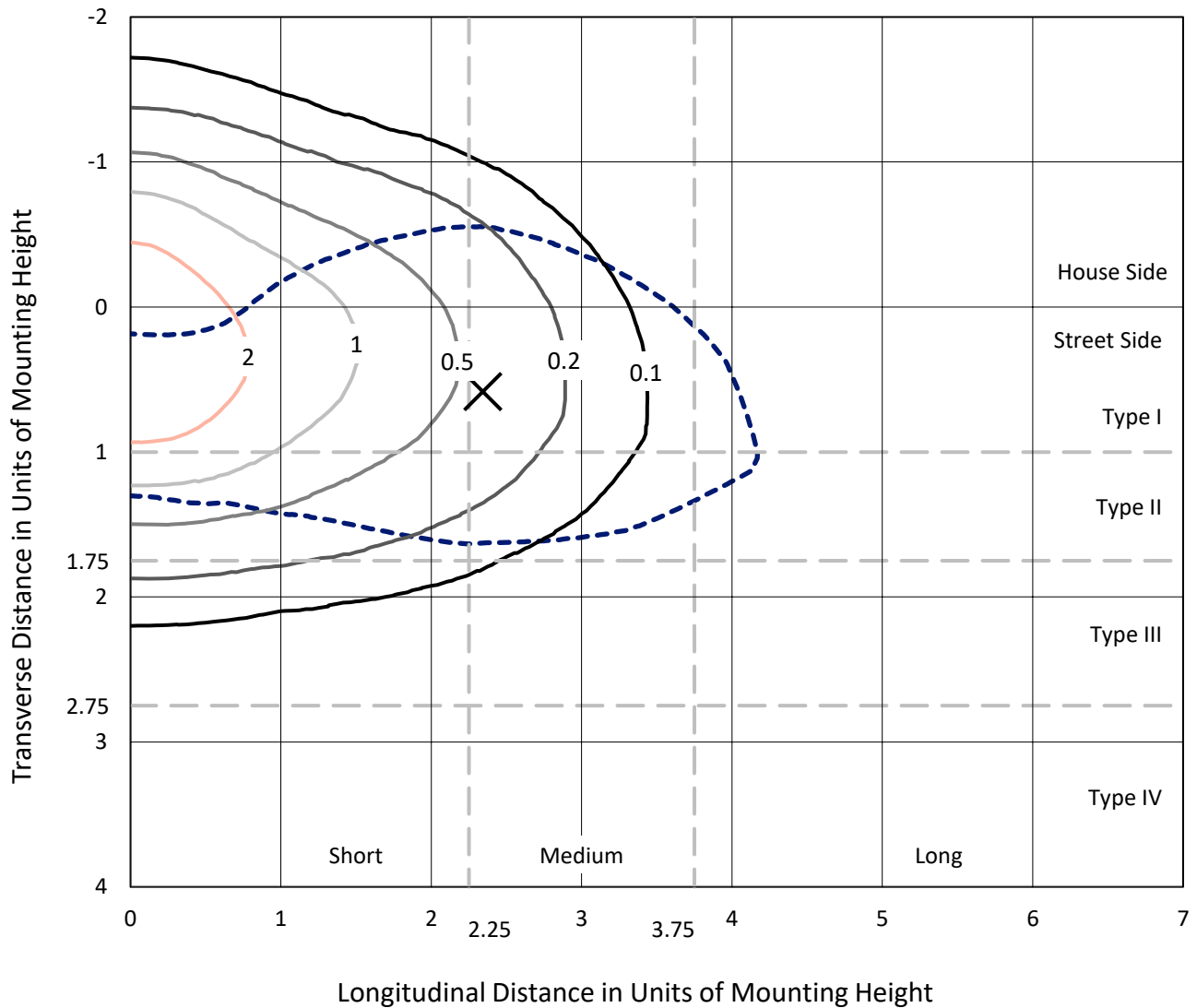
Input Watts (W): 73.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

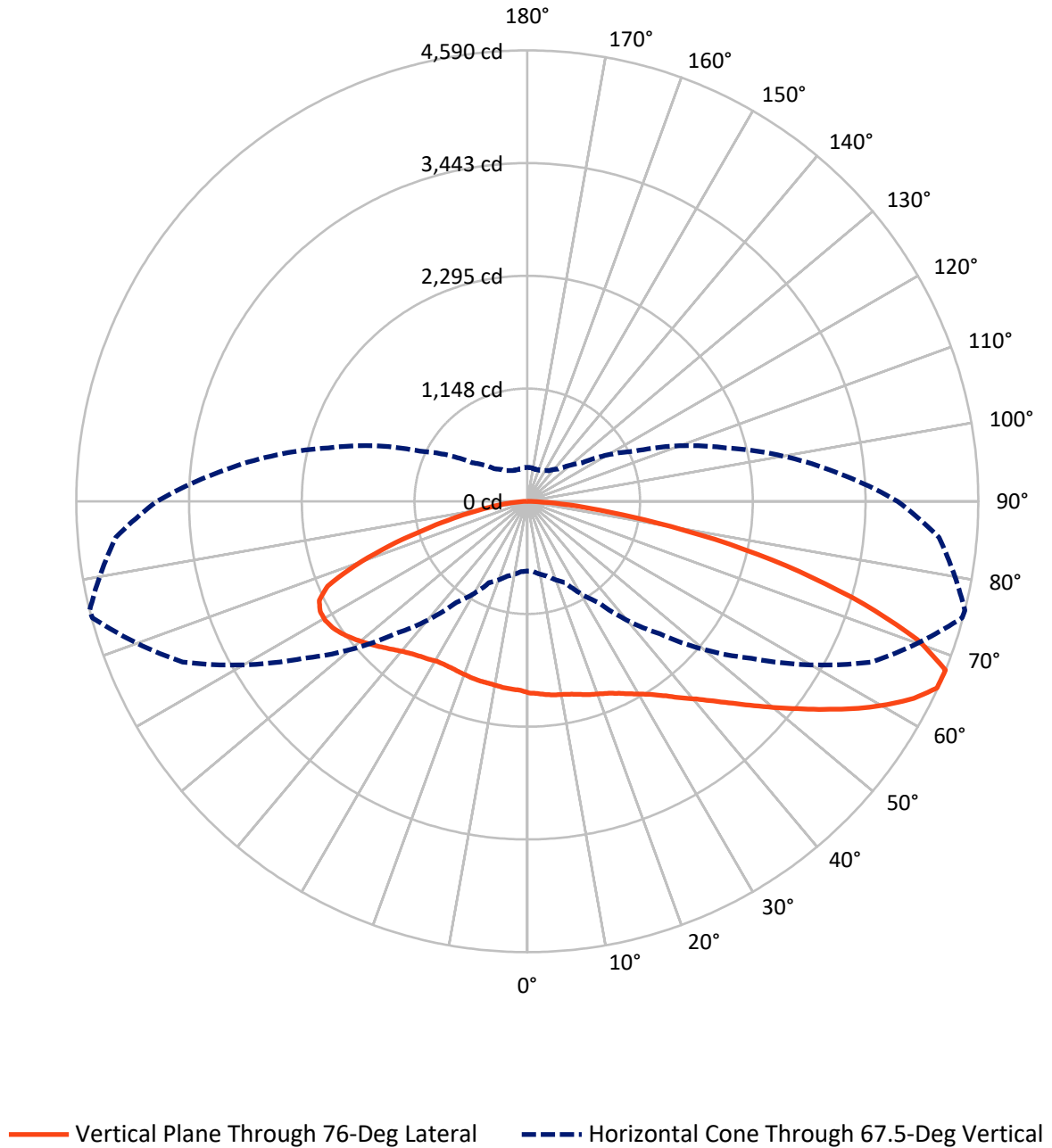
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.5 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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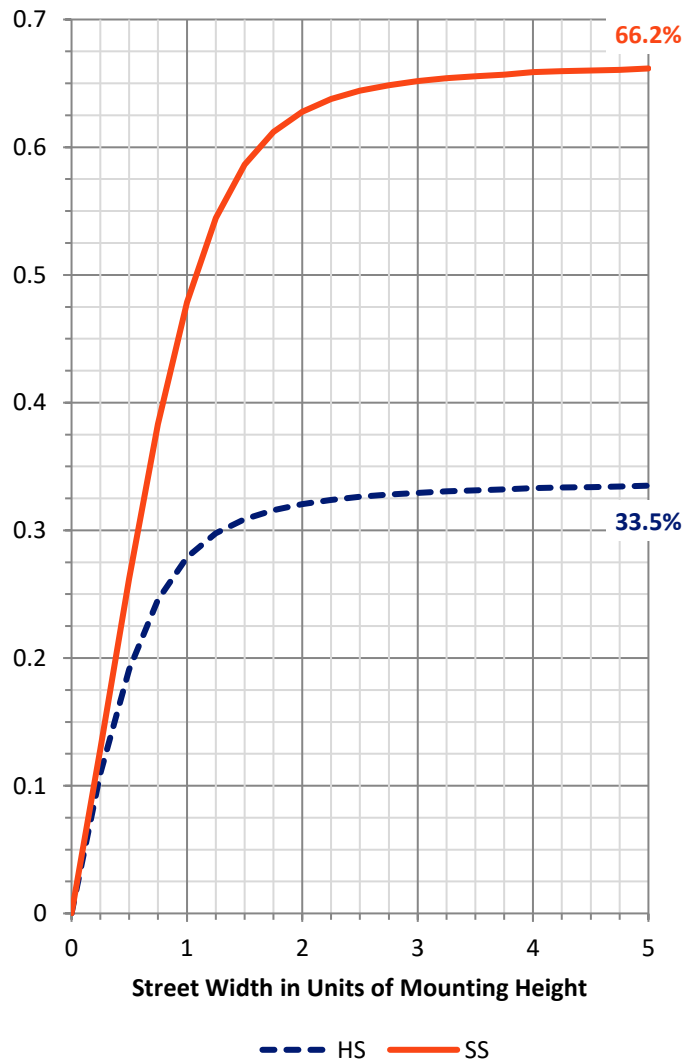
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3263.5	0.0	3263.5
	% Fixture	33.8	0.0	33.8
Street Side	Lumens	6394.5	0.0	6394.5
	% Fixture	66.2	0.0	66.2
Total	Lumens	9658.0	0.0	9658.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	188.1	1.9
10°-20°	575.1	6.0
20°-30°	977.1	10.1
30°-40°	1390.3	14.4
40°-50°	1755.9	18.2
50°-60°	1901.1	19.7
60°-70°	1768.3	18.3
70°-80°	949.7	9.8
80°-90°	152.2	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°	9658.0	100.0
0°-180°	9658.0	100.0

Coefficient of Utilization



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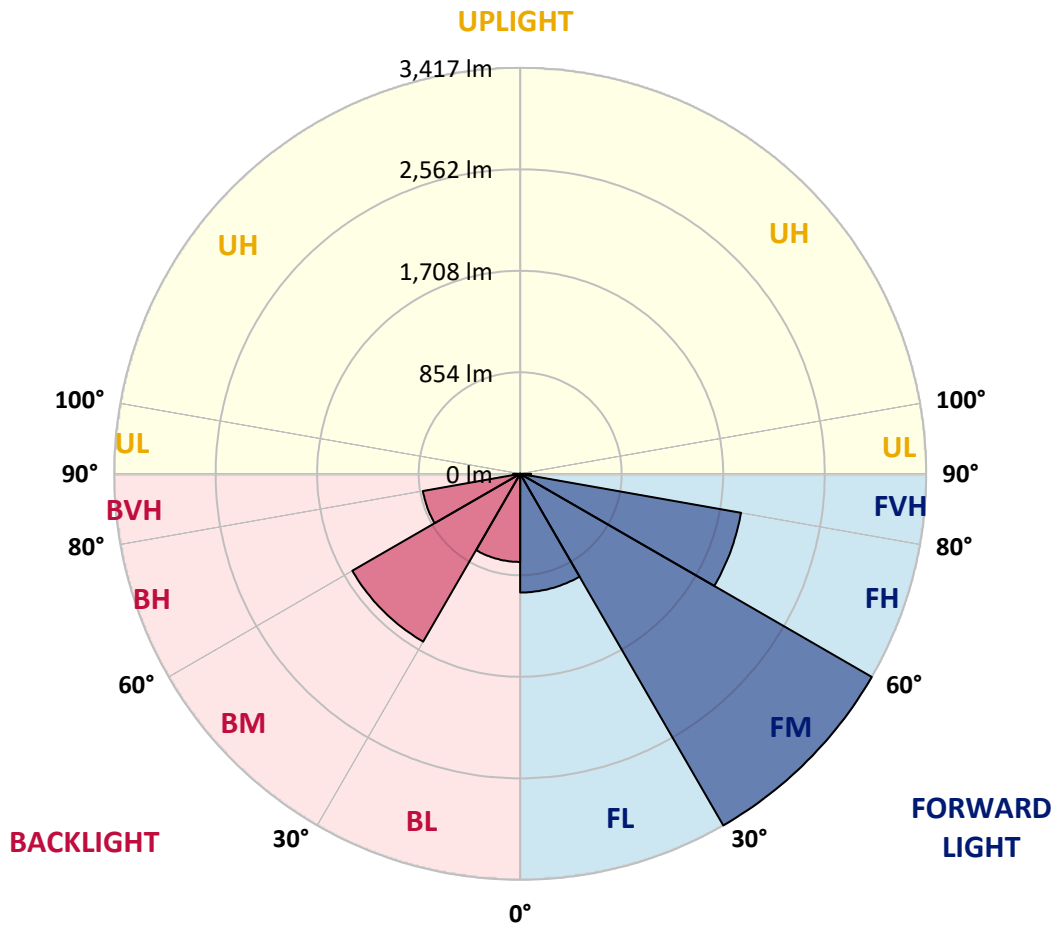
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	998.7	10.3			
FM (30°-60°)	3416.6	35.4			
FH (60°-80°)	1887.1	19.5			G2/5000
FVH (80°-90°)	92.1	1.0			G1/100
BL (0°-30°)	741.6	7.7	B2/1000		
BM (30°-60°)	1630.8	16.9	B2/2500		
BH (60°-80°)	830.9	8.6	B2/1000		G2/1000
BVH (80°-90°)	60.1	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



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1950.9	1950.9	1950.9	1950.9	1950.9	1950.9	1950.9	1950.9	1950.9	1950.9	1950.9
2.5°	2010.1	2006.5	1992.1	1993.9	1993.9	1992.1	1970.6	1961.7	1961.7	1959.9	1940.1
5°	2081.8	2076.4	2060.3	2056.7	2049.5	2040.5	2006.5	1986.8	1977.8	1976.0	1949.1
7.5°	2166.1	2158.9	2139.2	2128.4	2110.5	2087.2	2044.1	2013.7	1992.1	1990.3	1952.7
10°	2250.3	2243.2	2219.9	2200.1	2175.0	2137.4	2081.8	2037.0	2002.9	1999.3	1954.5
12.5°	2350.8	2343.6	2314.9	2289.8	2252.1	2201.9	2128.4	2067.4	2020.8	2015.4	1959.9
15°	2456.5	2445.8	2417.1	2388.4	2341.8	2277.2	2189.4	2108.7	2049.5	2040.5	1976.0
17.5°	2544.4	2530.1	2506.8	2478.1	2426.1	2350.8	2250.3	2149.9	2076.4	2069.2	1992.1
20°	2619.7	2609.0	2583.9	2557.0	2501.4	2418.9	2307.7	2191.2	2101.5	2092.5	2004.7
22.5°	2691.4	2677.1	2662.8	2643.0	2582.1	2490.6	2374.1	2241.4	2133.8	2123.0	2020.8
25°	2773.9	2757.8	2752.4	2741.7	2669.9	2576.7	2454.8	2304.1	2178.6	2166.1	2049.5
27.5°	2876.1	2858.2	2847.4	2847.4	2761.4	2664.5	2540.8	2377.7	2230.6	2219.9	2085.4
30°	2983.7	2962.2	2946.1	2946.1	2849.2	2752.4	2625.1	2451.2	2289.8	2277.2	2132.0
32.5°	3078.8	3057.2	3039.3	3037.5	2937.1	2840.3	2713.0	2531.9	2361.5	2345.4	2189.4
35°	3152.3	3132.5	3116.4	3120.0	3025.0	2929.9	2811.6	2639.4	2451.2	2433.2	2264.7
37.5°	3197.1	3189.9	3181.0	3193.5	3105.7	3016.0	2913.8	2743.4	2553.4	2537.2	2357.9
40°	3220.4	3215.0	3250.9	3267.0	3173.8	3093.1	3016.0	2851.0	2664.5	2646.6	2465.5
42.5°	3254.5	3299.3	3313.7	3310.1	3224.0	3152.3	3109.2	2967.6	2795.4	2779.3	2594.6
45°	3132.5	3121.8	3200.7	3243.7	3227.6	3189.9	3197.1	3107.4	2947.9	2931.7	2743.4
47.5°	2969.4	2955.0	2999.9	3105.7	3168.4	3204.3	3276.0	3252.7	3123.6	3109.2	2917.4
50°	2625.1	2644.8	2811.6	2953.2	3077.0	3200.7	3342.3	3408.7	3317.2	3302.9	3103.9
52.5°	2243.2	2262.9	2436.8	2763.2	2965.8	3173.8	3390.8	3564.7	3527.0	3510.9	3302.9
55°	1965.2	2008.3	2205.5	2442.2	2808.0	3089.5	3419.4	3724.3	3753.0	3738.6	3519.9
57.5°	1689.1	1721.4	1870.2	2080.0	2592.8	2942.5	3417.7	3873.1	3989.7	3975.3	3740.4
60°	1364.6	1405.8	1524.1	1750.1	2305.9	2766.8	3367.4	3989.7	4217.4	4206.6	3953.8
62.5°	1142.2	1154.8	1239.0	1434.5	1936.5	2544.4	3254.5	4052.4	4423.6	4416.4	4145.7
65°	919.9	921.7	998.8	1161.9	1579.7	2268.3	3062.6	4029.1	4579.6	4583.2	4283.7
67.5°	710.1	719.0	789.0	912.7	1255.2	1909.7	2788.3	3871.3	4581.4	4590.3	4204.8
70°	491.3	498.5	604.3	724.4	970.1	1522.3	2417.1	3453.5	4204.8	4212.0	3769.1
72.5°	346.1	349.7	462.6	579.2	758.5	1147.6	1823.6	2856.4	3584.4	3589.8	3170.2
75°	258.2	261.8	326.3	439.3	581.0	794.3	1246.2	2187.6	2863.6	2863.6	2503.2
77.5°	182.9	184.7	211.6	303.0	387.3	536.1	749.5	1432.7	2101.5	2105.1	1823.6
80°	123.7	125.5	138.1	204.4	242.1	290.5	407.0	751.3	1325.1	1330.5	1158.3
82.5°	64.6	68.1	77.1	104.0	121.9	161.4	209.8	381.9	733.4	747.7	695.7
85°	25.1	25.1	28.7	34.1	44.8	62.8	96.8	145.2	331.7	342.5	306.6
87.5°	9.0	9.0	10.8	10.8	12.6	14.3	16.1	21.5	37.7	37.7	35.9
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°	1950.9	1950.9	1950.9	1950.9	1950.9	1950.9	1950.9	1950.9	1950.9	1950.9	1950.9
2.5°	1933.0	1933.0	1924.0	1927.6	1925.8	1922.2	1918.6	1924.0	1918.6	1906.1	1904.3
5°	1936.5	1933.0	1918.6	1916.8	1911.4	1904.3	1895.3	1898.9	1889.9	1879.2	1877.4
7.5°	1938.3	1931.2	1911.4	1904.3	1893.5	1879.2	1864.8	1864.8	1852.3	1841.5	1839.7
10°	1934.8	1925.8	1898.9	1884.5	1864.8	1843.3	1823.6	1818.2	1803.9	1791.3	1791.3
12.5°	1936.5	1924.0	1889.9	1866.6	1839.7	1812.8	1787.7	1780.6	1768.0	1755.4	1753.7
15°	1947.3	1929.4	1886.3	1855.9	1816.4	1785.9	1759.0	1753.7	1742.9	1733.9	1733.9
17.5°	1958.1	1934.8	1881.0	1837.9	1789.5	1755.4	1730.3	1730.3	1723.2	1717.8	1717.8
20°	1963.4	1936.5	1870.2	1812.8	1757.2	1721.4	1698.1	1701.7	1699.9	1698.1	1698.1
22.5°	1976.0	1940.1	1861.2	1789.5	1723.2	1685.5	1664.0	1669.4	1667.6	1667.6	1669.4
25°	1995.7	1949.1	1854.1	1768.0	1690.9	1649.7	1626.3	1629.9	1629.9	1629.9	1629.9
27.5°	2022.6	1967.0	1852.3	1748.3	1658.6	1612.0	1583.3	1583.3	1576.1	1577.9	1579.7
30°	2063.9	2001.1	1855.9	1730.3	1624.6	1565.4	1531.3	1525.9	1524.1	1527.7	1529.5
32.5°	2114.1	2047.7	1877.4	1717.8	1588.7	1513.4	1470.3	1468.6	1463.2	1463.2	1463.2
35°	2176.8	2092.5	1897.1	1716.0	1552.8	1457.8	1411.2	1405.8	1393.2	1387.9	1387.9
37.5°	2257.5	2162.5	1920.4	1703.4	1522.3	1404.0	1348.4	1330.5	1316.1	1314.3	1314.3
40°	2356.1	2241.4	1954.5	1689.1	1490.1	1348.4	1274.9	1244.4	1246.2	1253.4	1253.4
42.5°	2472.7	2338.2	1997.5	1681.9	1443.4	1291.0	1188.8	1153.0	1165.5	1172.7	1174.5
45°	2609.0	2453.0	2045.9	1673.0	1400.4	1226.5	1097.4	1052.6	1057.9	1059.7	1061.5
47.5°	2766.8	2580.3	2096.1	1665.8	1352.0	1145.8	997.0	937.8	936.0	925.2	928.8
50°	2931.7	2714.8	2148.1	1653.2	1292.8	1050.8	891.2	821.2	806.9	790.8	792.6
52.5°	3107.4	2852.8	2196.5	1633.5	1219.3	953.9	790.8	715.4	686.8	668.8	672.4
55°	3301.1	2994.5	2243.2	1603.0	1142.2	857.1	701.1	624.0	588.1	573.8	575.6
57.5°	3478.6	3130.8	2277.2	1565.4	1057.9	769.2	622.2	546.9	523.6	521.8	523.6
60°	3650.8	3245.5	2291.6	1513.4	971.9	688.6	548.7	491.3	475.2	484.1	485.9
62.5°	3796.0	3319.0	2284.4	1443.4	884.0	611.4	489.5	448.3	437.5	455.4	457.2
65°	3880.3	3342.3	2234.2	1343.0	789.0	536.1	433.9	389.1	383.7	394.5	399.9
67.5°	3769.1	3197.1	2097.9	1205.0	683.2	466.2	380.1	344.3	335.3	344.3	344.3
70°	3340.5	2770.3	1775.2	986.2	566.6	398.1	329.9	304.8	297.7	304.8	303.0
72.5°	2782.9	2304.1	1398.6	769.2	446.5	335.3	286.9	263.6	256.4	249.2	245.7
75°	2158.9	1750.1	1014.9	564.8	337.1	269.0	240.3	218.8	200.8	208.0	204.4
77.5°	1581.5	1228.3	719.0	390.9	242.1	208.0	188.3	172.1	159.6	173.9	172.1
80°	1018.5	794.3	480.6	261.8	166.8	145.2	138.1	129.1	141.7	184.7	188.3
82.5°	622.2	503.9	286.9	170.3	109.4	96.8	89.7	89.7	145.2	159.6	161.4
85°	277.9	267.2	156.0	87.9	61.0	55.6	50.2	64.6	59.2	43.0	44.8
87.5°	44.8	46.6	34.1	30.5	23.3	23.3	17.9	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)