

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: P800055

Luminaire Tested: **ARCH2-70-740-U-T3**

Issue Date: 4/4/2024

Test Information

Test Method: LM-79-08
Report Number: P800055
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2310-189-18)
Test Lab: INNOVATION CENTER
Issue Date: 4/4/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH2-70-740-U-T3
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 4000K, 555mA LIGHTSQUARES WITH 10 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10462 lumens
Efficiency: N/A
Efficacy: 142.1 lumens/watt
Luminous Opening: Rectangular (W 0.67' x L: 0.33' x H: 0')
IES Classification: Type III - 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

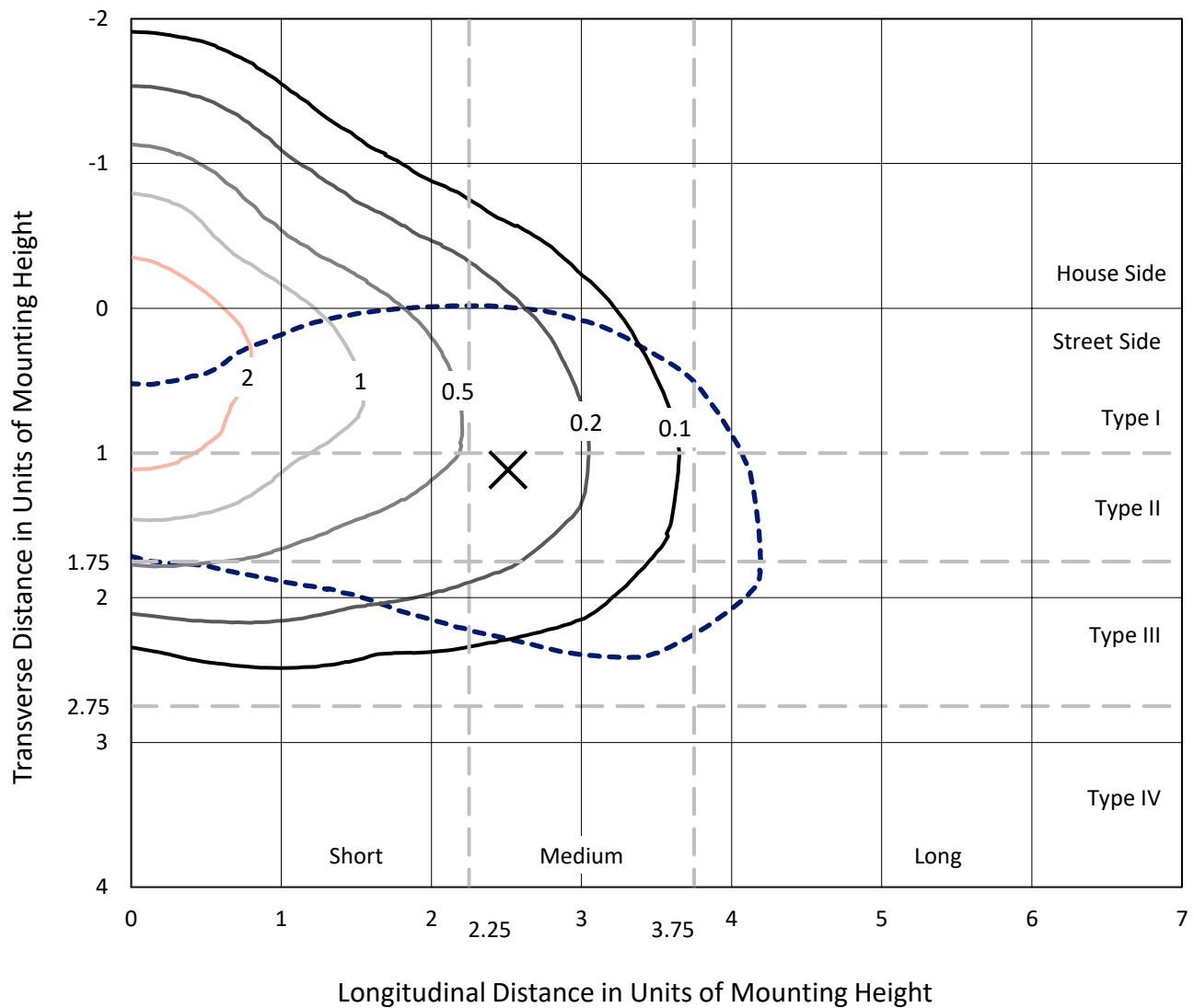


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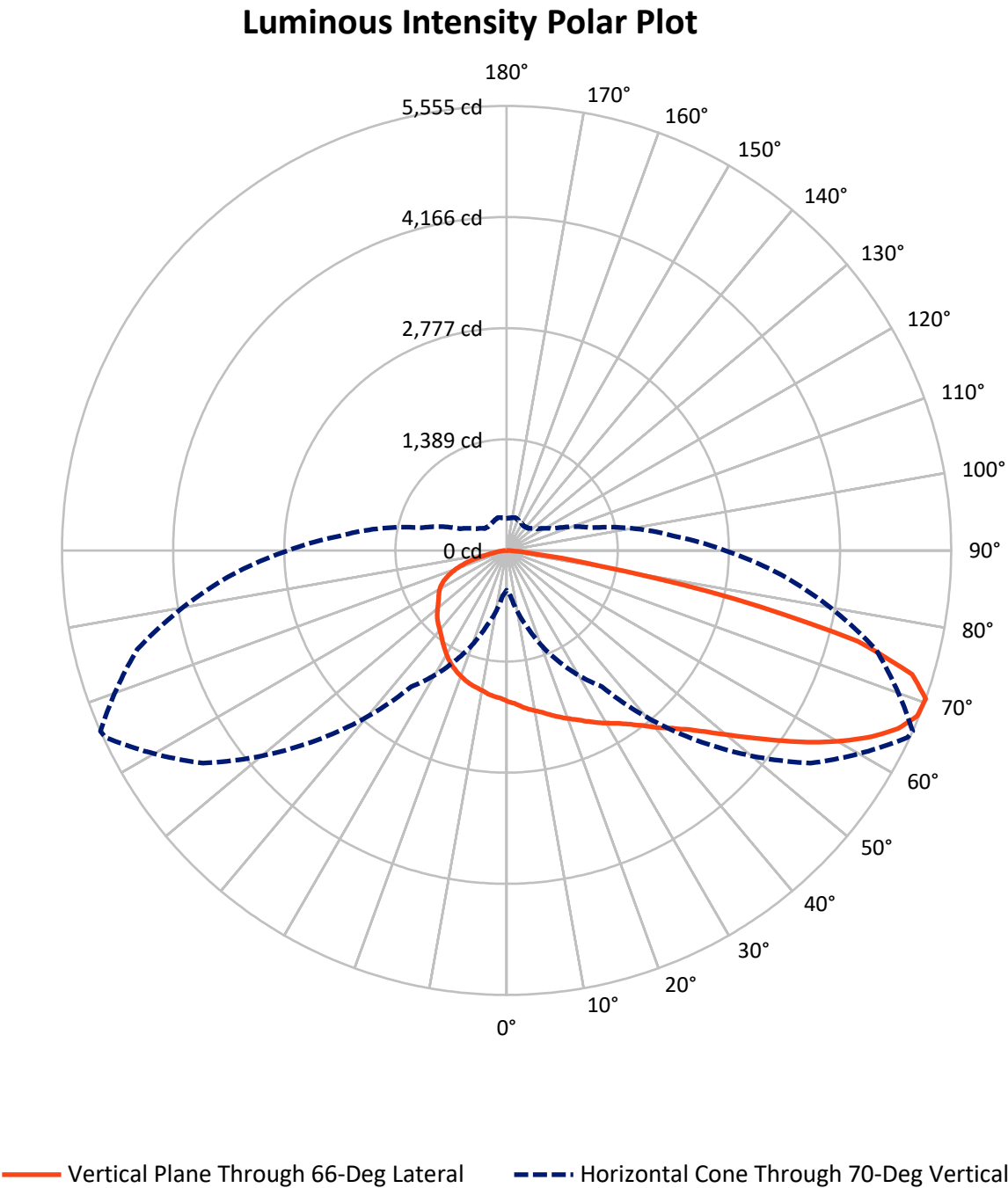
Iso-Footcandle Lines of Horizontal Illumination

× Max cd
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.3 fc
Type III - Medium - N/A

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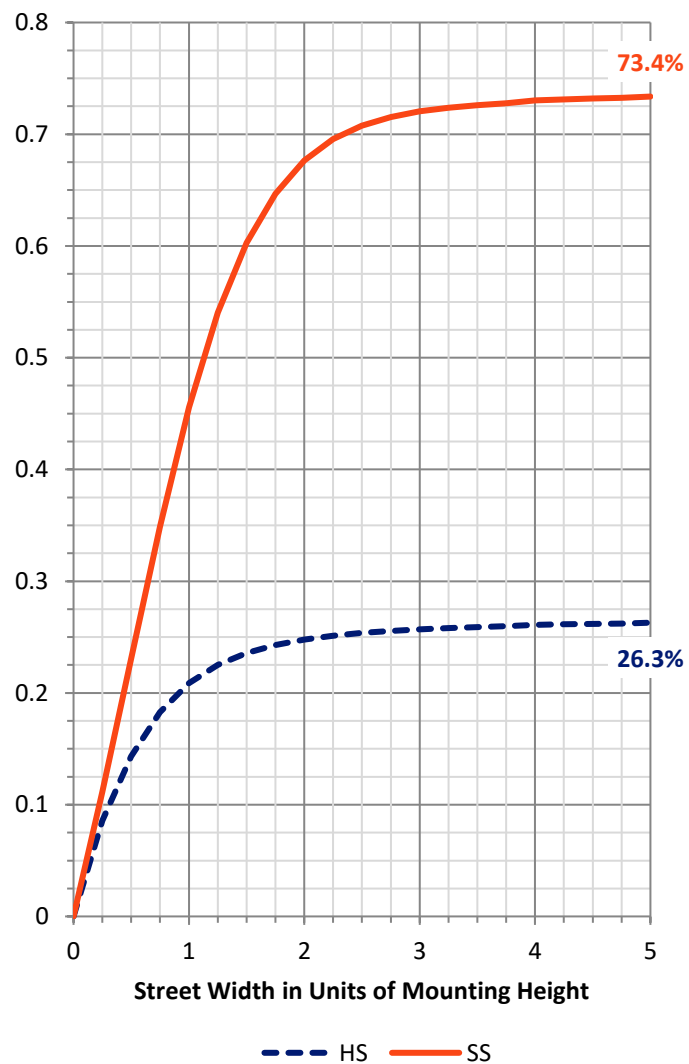
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2772.2	0.0	2772.2
	% Fixture	26.5	0.0	26.5
Street Side	Lumens	7689.8	0.0	7689.8
	% Fixture	73.5	0.0	73.5
Total	Lumens	10462.0	0.0	10462.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	181.4	1.7
10°-20°	544.2	5.2
20°-30°	912.3	8.7
30°-40°	1366.0	13.1
40°-50°	1826.4	17.5
50°-60°	2132.4	20.4
60°-70°	2120.3	20.3
70°-80°	1255.2	12.0
80°-90°	123.7	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°	10462.0	100.0
0°-180°	10462.0	100.0

Coefficient of Utilization



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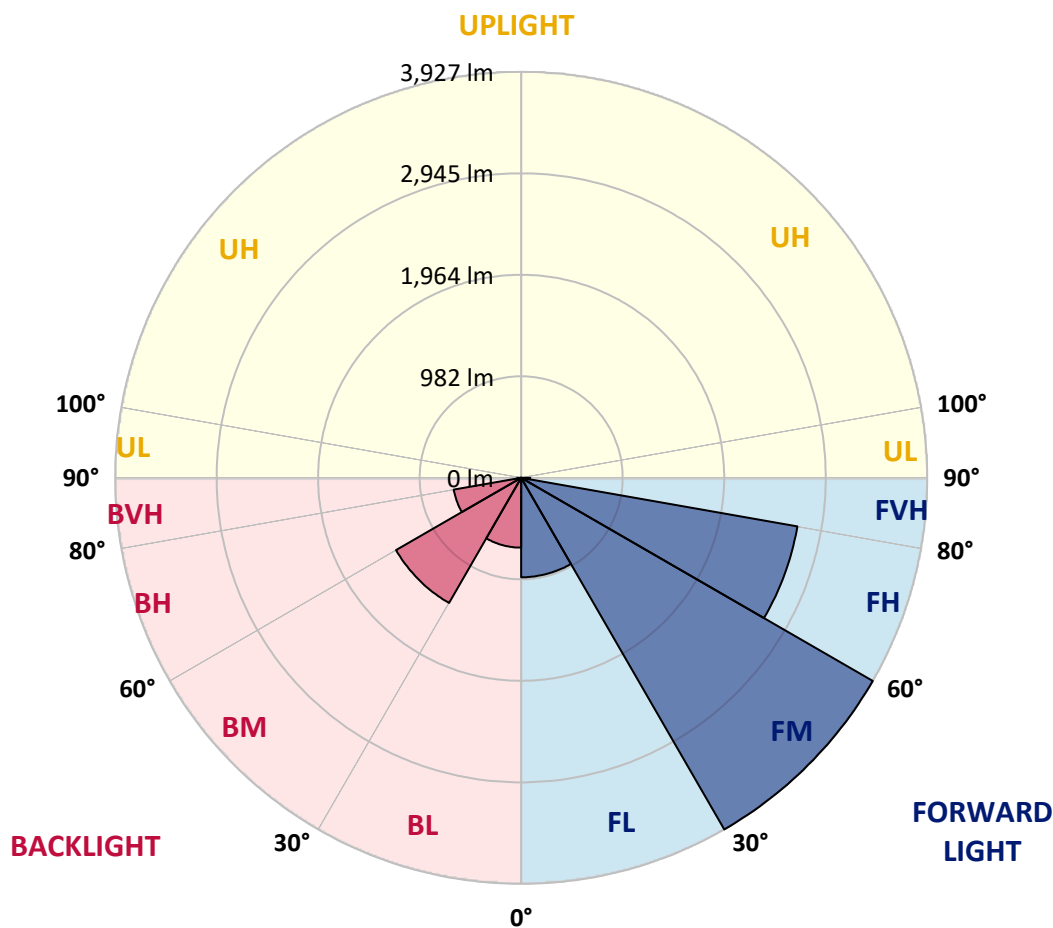
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	962.2	9.2			
FM	(30°-60°)	3927.3	37.5			
FH	(60°-80°)	2713.3	25.9			G2/5000
FVH	(80°-90°)	86.9	0.8			G1/100
BL	(0°-30°)	675.7	6.5	B2/1000		
BM	(30°-60°)	1397.5	13.4	B2/2500		
BH	(60°-80°)	662.2	6.3	B2/1000		G2/1000
BVH	(80°-90°)	36.8	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°	1888.2	1888.2	1888.2	1888.2	1888.2	1888.2	1888.2	1888.2	1888.2	1888.2	1888.2
2.5°	1957.6	1954.5	1952.9	1946.8	1932.9	1939.1	1925.2	1915.9	1914.4	1892.8	1880.4
5°	2037.8	2036.2	2033.2	2023.9	2002.3	2005.4	1982.3	1965.3	1960.7	1926.7	1900.5
7.5°	2105.7	2102.6	2101.0	2088.7	2065.6	2064.0	2036.2	2011.6	2003.8	1957.6	1917.5
10°	2158.1	2153.5	2156.6	2144.2	2119.5	2114.9	2079.4	2047.0	2039.3	1980.7	1925.2
12.5°	2202.8	2199.8	2204.4	2193.6	2173.5	2168.9	2133.4	2091.8	2082.5	2014.6	1942.1
15°	2252.2	2241.4	2250.7	2246.0	2232.2	2230.6	2198.2	2151.9	2139.6	2057.8	1968.4
17.5°	2278.4	2272.3	2283.1	2284.6	2278.4	2289.2	2258.4	2202.8	2192.0	2097.9	1991.5
20°	2296.9	2287.7	2300.0	2309.3	2313.9	2335.5	2310.8	2256.8	2244.5	2136.5	2013.1
22.5°	2360.2	2340.1	2341.7	2347.9	2350.9	2381.8	2366.4	2313.9	2301.6	2184.3	2039.3
25°	2519.1	2479.0	2452.7	2434.2	2412.6	2438.9	2429.6	2378.7	2367.9	2241.4	2071.7
27.5°	2765.9	2715.0	2662.5	2608.6	2523.7	2512.9	2497.5	2451.2	2438.9	2298.5	2104.1
30°	3046.7	2995.7	2934.0	2847.7	2688.8	2605.5	2570.0	2519.1	2505.2	2349.4	2135.0
32.5°	3325.9	3281.1	3219.4	3114.5	2887.8	2718.1	2642.5	2590.0	2576.2	2404.9	2172.0
35°	3543.4	3515.6	3475.5	3344.4	3085.2	2850.7	2747.4	2684.1	2668.7	2492.9	2239.9
37.5°	3719.2	3699.2	3665.2	3527.9	3228.7	2983.4	2867.7	2795.2	2778.2	2588.5	2312.4
40°	3978.4	3925.9	3898.2	3699.2	3353.6	3103.7	3003.5	2927.9	2909.4	2690.3	2371.0
42.5°	4199.0	4160.4	4126.5	3851.9	3472.4	3207.1	3131.5	3062.1	3037.4	2790.6	2434.2
45°	4236.0	4251.4	4234.5	3927.5	3660.6	3308.9	3261.1	3216.3	3193.2	2926.3	2529.9
47.5°	4237.5	4237.5	4137.3	3970.7	3893.5	3423.0	3399.9	3415.3	3390.7	3099.1	2644.0
50°	4126.5	4146.5	4094.1	3981.5	3955.2	3537.2	3569.6	3652.9	3628.2	3282.7	2767.4
52.5°	3896.6	3963.0	3961.4	3964.5	3865.8	3634.4	3748.5	3938.3	3896.6	3489.4	2898.6
55°	3490.9	3623.6	3742.4	3844.2	3788.6	3693.0	3967.6	4242.2	4199.0	3720.8	3031.2
57.5°	3143.8	3228.7	3376.8	3665.2	3697.6	3743.9	4172.8	4560.0	4521.4	3976.8	3170.1
60°	2747.4	2864.6	3012.7	3423.0	3586.6	3810.2	4398.0	4870.0	4833.0	4236.0	3304.3
62.5°	2138.1	2289.2	2585.4	3051.3	3424.6	3851.9	4575.4	5143.1	5126.1	4481.3	3424.6
65°	1490.2	1624.4	2039.3	2594.7	3167.0	3833.4	4717.3	5386.8	5371.4	4681.8	3509.4
67.5°	870.0	1025.8	1494.8	2088.7	2711.9	3705.3	4763.6	5530.3	5530.3	4803.7	3532.6
70°	496.7	569.2	985.7	1522.6	2079.4	3352.1	4634.0	5528.7	5554.9	4775.9	3436.9
72.5°	347.1	379.5	663.3	1024.3	1409.9	2711.9	4294.6	5261.8	5297.3	4513.7	3109.9
75°	270.0	293.1	467.4	698.8	888.5	1841.9	3552.6	4436.5	4530.6	3847.3	2514.5
77.5°	205.2	222.1	273.0	436.6	569.2	1058.2	2344.8	2909.4	2915.5	2355.6	1348.2
80°	149.6	166.6	182.0	266.9	302.4	495.2	885.5	1215.6	1181.6	1140.0	729.7
82.5°	89.5	106.4	111.1	145.0	148.1	211.3	310.1	391.8	376.4	501.3	342.5
85°	38.6	54.0	57.1	66.3	63.2	86.4	123.4	103.4	92.6	106.4	74.0
87.5°	9.3	15.4	15.4	17.0	13.9	21.6	23.1	17.0	15.4	18.5	18.5
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°	1888.2	1888.2	1888.2	1888.2	1888.2	1888.2	1888.2	1888.2	1888.2	1888.2	1888.2
2.5°	1877.4	1872.7	1874.3	1848.0	1840.3	1832.6	1828.0	1824.9	1821.8	1826.4	1831.1
5°	1891.2	1880.4	1868.1	1829.5	1814.1	1797.1	1784.8	1774.0	1769.4	1769.4	1774.0
7.5°	1902.0	1883.5	1857.3	1806.4	1778.6	1755.5	1735.4	1721.6	1713.8	1713.8	1718.5
10°	1903.6	1877.4	1835.7	1774.0	1737.0	1703.0	1679.9	1664.5	1653.7	1653.7	1656.8
12.5°	1912.8	1877.4	1823.4	1749.3	1703.0	1661.4	1633.6	1610.5	1605.9	1605.9	1608.9
15°	1928.3	1885.1	1815.7	1727.7	1672.2	1624.4	1593.5	1568.8	1559.6	1565.7	1567.3
17.5°	1942.1	1889.7	1801.8	1700.0	1633.6	1581.2	1547.2	1525.6	1513.3	1527.2	1527.2
20°	1951.4	1889.7	1781.7	1664.5	1592.0	1533.4	1501.0	1474.7	1465.5	1482.4	1484.0
22.5°	1965.3	1888.2	1760.1	1629.0	1547.2	1485.5	1453.1	1433.1	1428.5	1447.0	1453.1
25°	1980.7	1891.2	1737.0	1588.9	1497.9	1437.7	1413.0	1403.8	1406.9	1430.0	1437.7
27.5°	1997.7	1897.4	1713.8	1544.2	1443.9	1389.9	1376.0	1380.6	1393.0	1422.3	1431.5
30°	2013.1	1899.0	1681.4	1491.7	1382.2	1331.3	1337.4	1357.5	1376.0	1405.3	1416.1
32.5°	2033.2	1900.5	1647.5	1434.6	1315.8	1278.8	1306.6	1339.0	1357.5	1385.3	1397.6
35°	2082.5	1926.7	1621.3	1379.1	1254.1	1234.1	1280.4	1322.0	1332.8	1357.5	1368.3
37.5°	2139.6	1969.9	1607.4	1322.0	1194.0	1189.4	1248.0	1289.6	1292.7	1308.1	1318.9
40°	2175.1	1988.4	1592.0	1274.2	1140.0	1143.1	1203.2	1235.6	1229.5	1240.3	1248.0
42.5°	2210.6	1994.6	1559.6	1234.1	1089.1	1092.2	1138.4	1161.6	1164.7	1187.8	1198.6
45°	2270.7	2011.6	1524.1	1197.1	1042.8	1032.0	1059.8	1090.6	1130.7	1175.5	1187.8
47.5°	2350.9	2047.0	1487.1	1152.3	998.1	962.6	973.4	1027.4	1069.0	1110.7	1118.4
50°	2432.7	2082.5	1453.1	1098.3	953.3	888.5	893.2	942.5	976.5	1008.9	1013.5
52.5°	2512.9	2113.4	1423.8	1047.4	902.4	800.6	819.1	870.0	893.2	908.6	913.2
55°	2593.1	2139.6	1397.6	1004.2	843.8	731.2	748.2	796.0	819.1	826.8	829.9
57.5°	2676.4	2170.5	1377.5	967.2	777.5	669.5	680.3	714.2	735.8	745.1	742.0
60°	2745.8	2196.7	1366.8	928.7	711.1	612.4	609.3	640.2	671.0	680.3	677.2
62.5°	2799.8	2213.6	1349.8	879.3	652.5	555.3	539.9	580.0	612.4	618.6	623.2
65°	2829.1	2215.2	1308.1	816.0	592.4	493.6	482.8	522.9	543.0	549.2	549.2
67.5°	2824.5	2190.5	1226.4	731.2	536.8	438.1	428.8	453.5	482.8	487.5	482.8
70°	2728.9	2088.7	1095.3	641.7	470.5	388.7	371.8	396.5	424.2	407.2	399.5
72.5°	2457.4	1824.9	902.4	543.0	396.5	327.0	319.3	344.0	345.5	348.6	340.9
75°	1939.1	1359.0	675.7	422.7	320.9	274.6	273.0	268.4	274.6	286.9	277.7
77.5°	1018.1	678.7	365.6	259.2	232.9	220.6	209.8	208.3	226.8	234.5	225.2
80°	552.3	381.0	209.8	155.8	141.9	143.5	157.3	154.3	174.3	178.9	171.2
82.5°	240.6	180.5	103.4	94.1	94.1	92.6	97.2	108.0	129.6	129.6	103.4
85°	52.4	44.7	40.1	46.3	52.4	52.4	52.4	52.4	37.0	20.1	13.9
87.5°	17.0	17.0	17.0	18.5	20.1	20.1	17.0	12.3	7.7	1.5	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)