

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: P842662

Luminaire Tested: **ARCH4-80-722-U-T3**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P842662
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: ARCH4-80-722-U-T3
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2200K, 685mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12657 lumens
Efficiency: N/A
Efficacy: 151.8 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

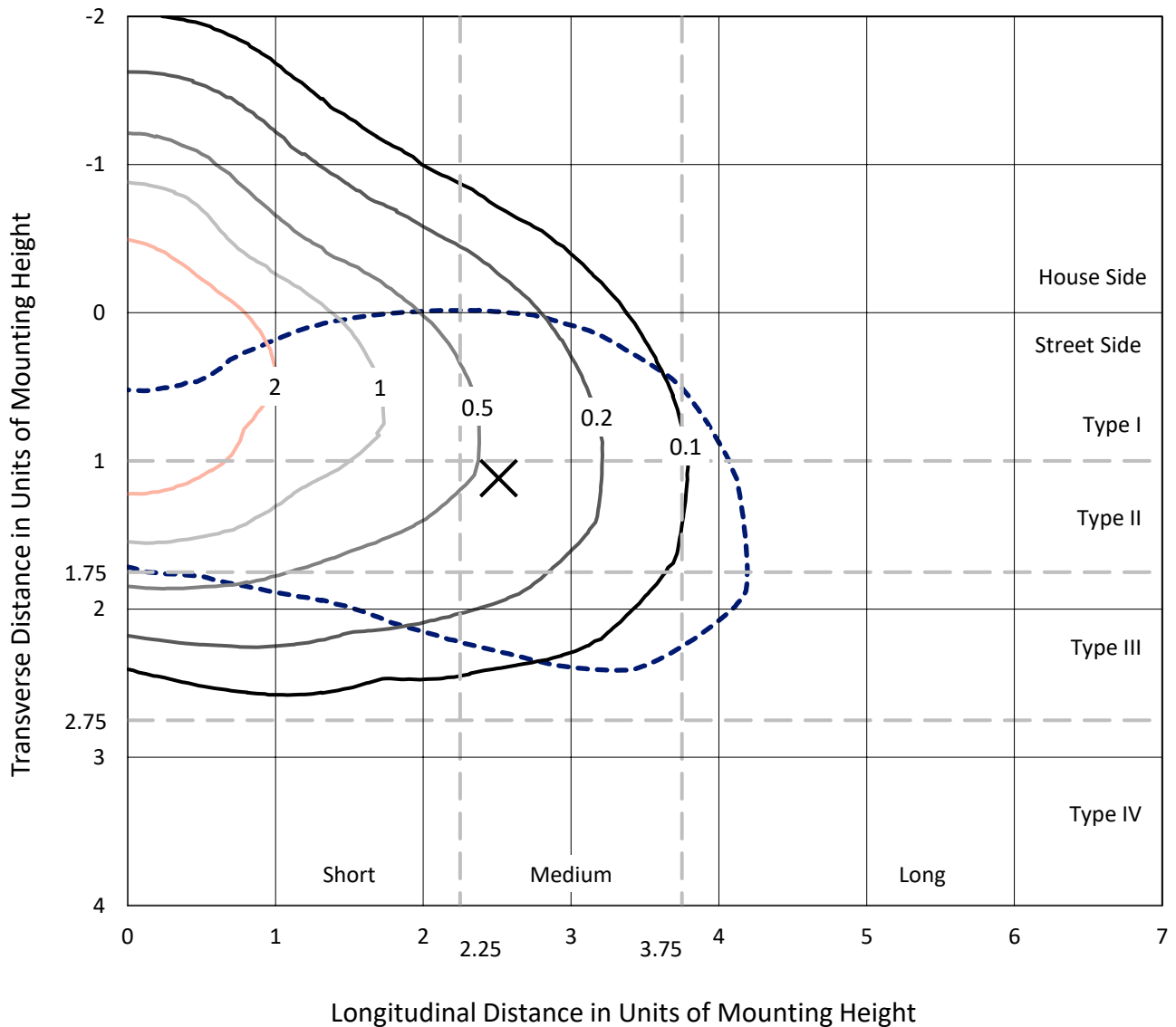
Input Watts (W): 83.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

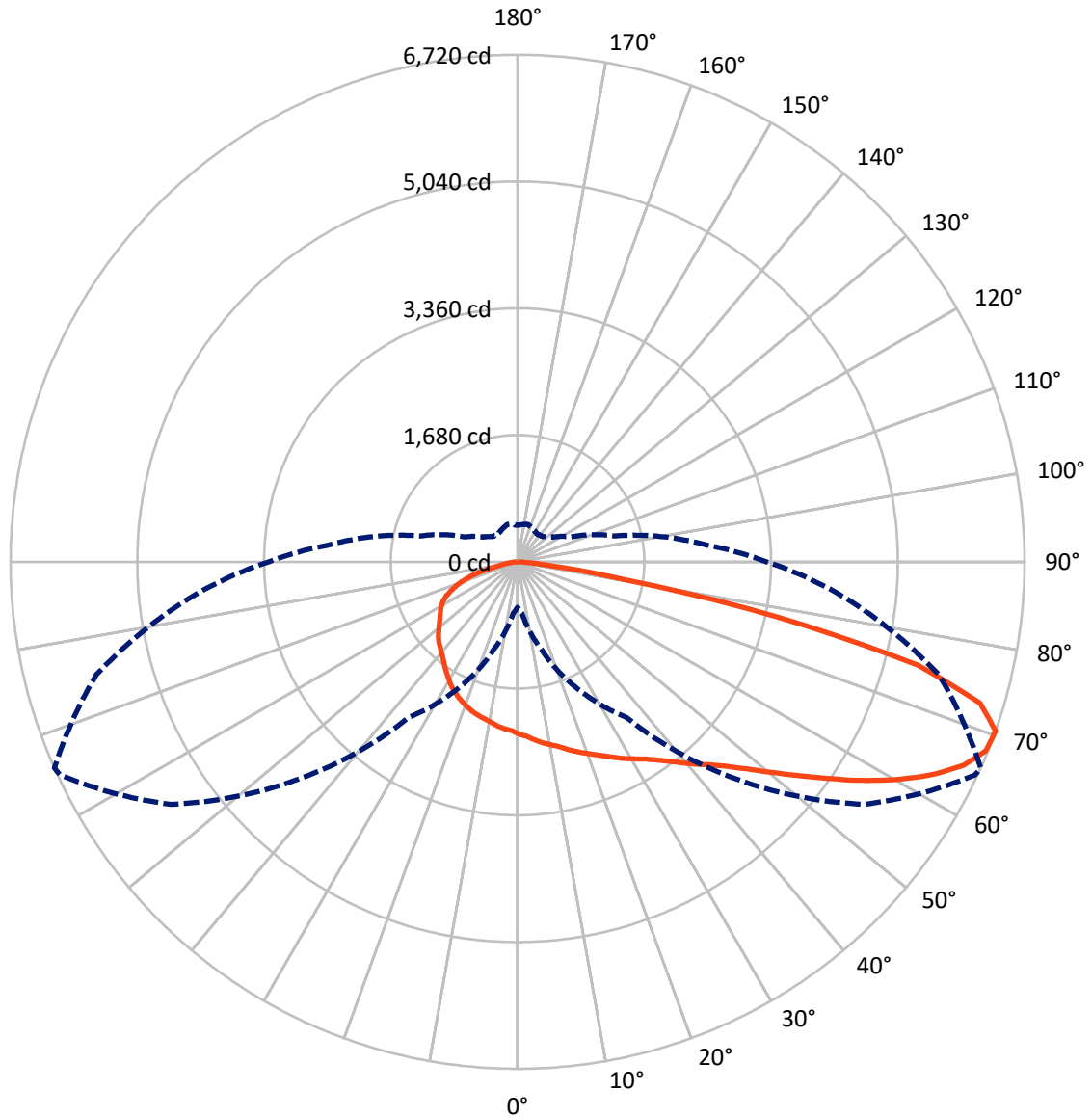
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4 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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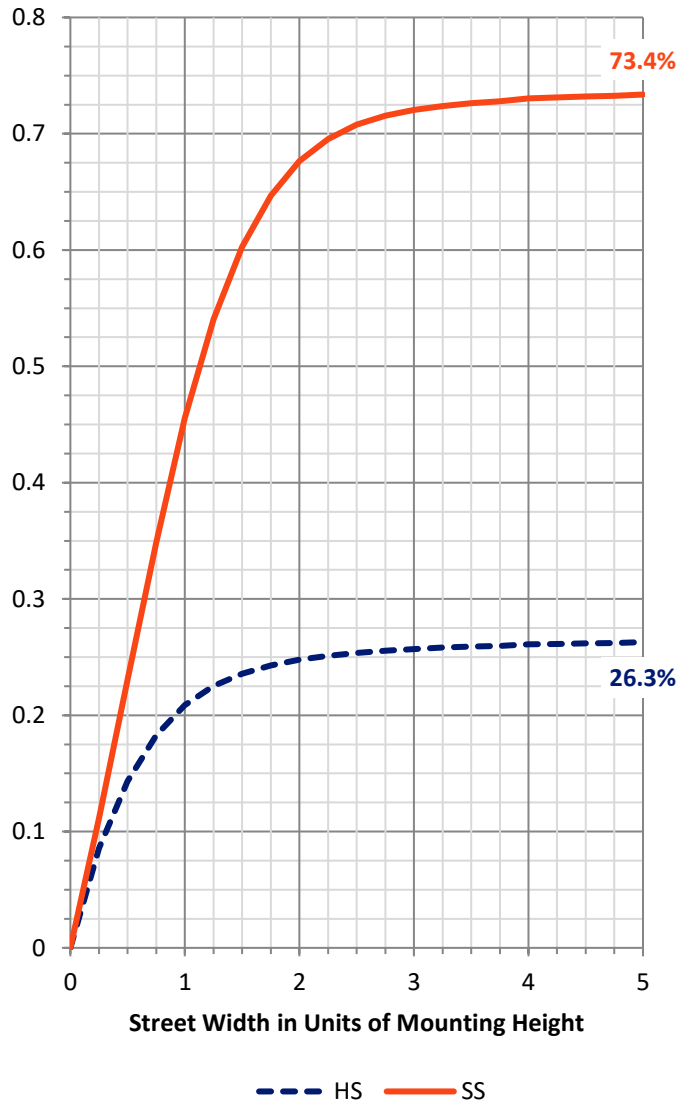
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3353.8	0.0	3353.8
	% Fixture	26.5	0.0	26.5
Street Side	Lumens	9303.2	0.0	9303.2
	% Fixture	73.5	0.0	73.5
Total	Lumens	12657.0	0.0	12657.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	219.5	1.7
10°-20°	658.4	5.2
20°-30°	1103.7	8.7
30°-40°	1652.6	13.1
40°-50°	2209.6	17.5
50°-60°	2579.7	20.4
60°-70°	2565.1	20.3
70°-80°	1518.6	12.0
80°-90°	149.7	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°	12657.0	100.0
0°-180°	12657.0	100.0

Coefficient of Utilization

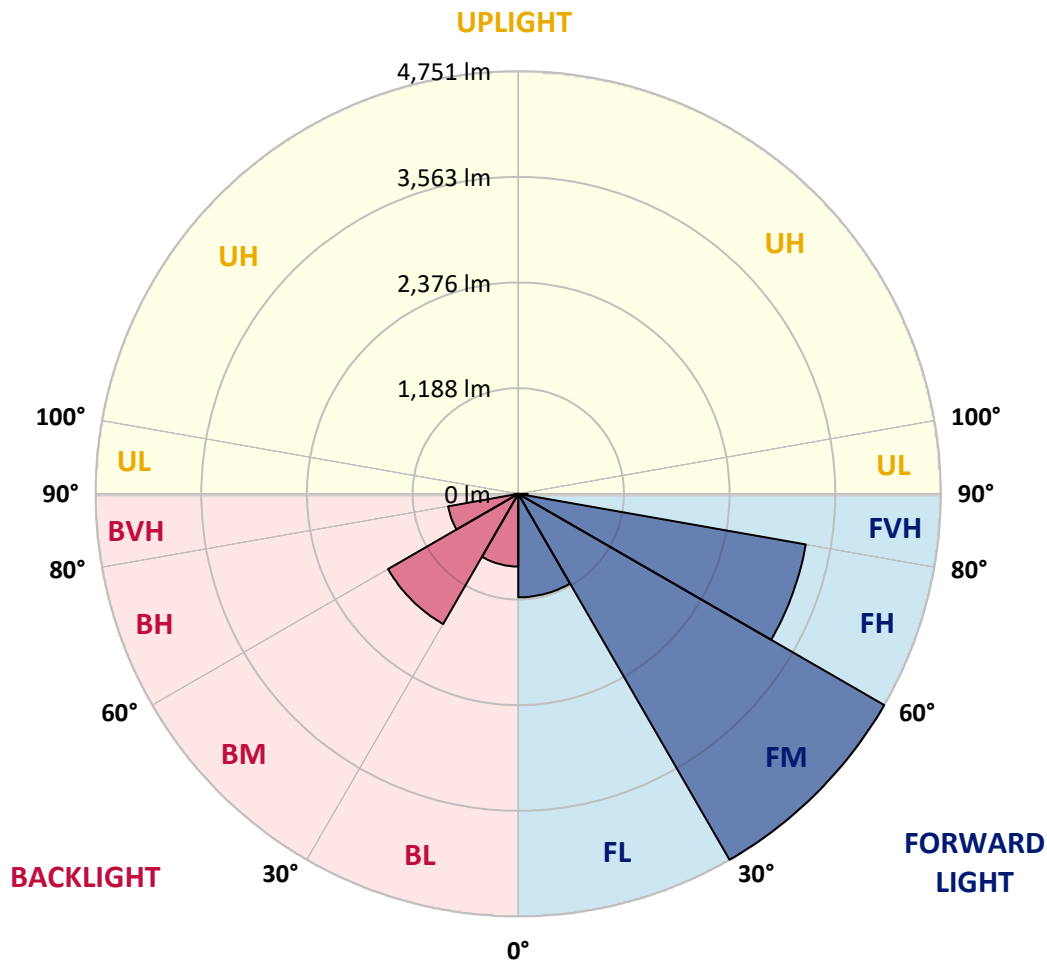


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1164.1	9.2			
FM (30°-60°)	4751.3	37.5			
FH (60°-80°)	3282.6	25.9			G2/5000
FVH (80°-90°)	105.2	0.8			G2/225
BL (0°-30°)	817.5	6.5	B2/1000		
BM (30°-60°)	1690.7	13.4	B2/2500		
BH (60°-80°)	801.1	6.3	B2/1000		G2/1000
BVH (80°-90°)	44.5	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 III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	2284.3	2284.3	2284.3	2284.3	2284.3	2284.3	2284.3	2284.3	2284.3	2284.3	2284.3
2.5°	2368.3	2364.5	2362.7	2355.2	2338.4	2345.9	2329.1	2317.9	2316.0	2289.9	2275.0
5°	2465.3	2463.5	2459.7	2448.5	2422.4	2426.1	2398.1	2377.6	2372.0	2331.0	2299.2
7.5°	2547.4	2543.7	2541.8	2526.9	2498.9	2497.1	2463.5	2433.6	2424.3	2368.3	2319.8
10°	2610.9	2605.3	2609.0	2594.1	2564.2	2558.6	2515.7	2476.5	2467.2	2396.3	2329.1
12.5°	2665.0	2661.3	2666.9	2653.8	2629.6	2624.0	2581.0	2530.6	2519.4	2437.3	2349.6
15°	2724.7	2711.7	2722.9	2717.3	2700.5	2698.6	2659.4	2603.4	2588.5	2489.6	2381.3
17.5°	2756.5	2749.0	2762.1	2763.9	2756.5	2769.5	2732.2	2665.0	2652.0	2538.1	2409.3
20°	2778.9	2767.7	2782.6	2793.8	2799.4	2825.5	2795.7	2730.3	2715.4	2584.8	2435.5
22.5°	2855.4	2831.1	2833.0	2840.4	2844.2	2881.5	2862.8	2799.4	2784.5	2642.6	2467.2
25°	3047.6	2999.1	2967.4	2945.0	2918.8	2950.6	2939.4	2877.8	2864.7	2711.7	2506.4
27.5°	3346.2	3284.6	3221.2	3155.8	3053.2	3040.1	3021.5	2965.5	2950.6	2780.7	2545.6
30°	3685.9	3624.3	3549.6	3445.1	3252.9	3152.1	3109.2	3047.6	3030.8	2842.3	2582.9
32.5°	4023.7	3969.5	3894.9	3768.0	3493.6	3288.3	3196.9	3133.4	3116.7	2909.5	2627.7
35°	4286.8	4253.2	4204.7	4046.0	3732.5	3448.8	3323.8	3247.3	3228.6	3015.9	2709.8
37.5°	4499.5	4475.3	4434.2	4268.1	3906.1	3609.3	3469.4	3381.7	3361.1	3131.6	2797.5
40°	4813.1	4749.6	4716.0	4475.3	4057.2	3754.9	3633.6	3542.2	3519.8	3254.8	2868.4
42.5°	5080.0	5033.3	4992.2	4660.0	4200.9	3880.0	3788.5	3704.5	3674.7	3376.1	2945.0
45°	5124.7	5143.4	5122.9	4751.5	4428.6	4003.1	3945.3	3891.1	3863.2	3540.3	3060.7
47.5°	5126.6	5126.6	5005.3	4803.7	4710.4	4141.2	4113.2	4131.9	4102.0	3749.3	3198.8
50°	4992.2	5016.5	4953.0	4816.8	4785.1	4279.3	4318.5	4419.3	4389.4	3971.4	3348.1
52.5°	4714.2	4794.4	4792.6	4796.3	4676.8	4396.9	4535.0	4764.6	4714.2	4221.5	3506.7
55°	4223.3	4383.8	4527.5	4650.7	4583.5	4467.8	4800.0	5132.2	5080.0	4501.4	3667.2
57.5°	3803.4	3906.1	4085.2	4434.2	4473.4	4529.4	5048.2	5516.7	5470.0	4811.2	3835.2
60°	3323.8	3465.6	3644.8	4141.2	4339.1	4609.7	5320.7	5891.8	5847.0	5124.7	3997.5
62.5°	2586.6	2769.5	3127.8	3691.5	4143.1	4660.0	5535.3	6222.1	6201.6	5421.5	4143.1
65°	1802.8	1965.2	2467.2	3139.0	3831.4	4637.7	5707.0	6517.0	6498.3	5664.1	4245.7
67.5°	1052.6	1241.1	1808.4	2526.9	3280.9	4482.8	5763.0	6690.5	6690.5	5811.5	4273.7
70°	600.9	688.6	1192.5	1842.0	2515.7	4055.4	5606.2	6688.7	6720.4	5777.9	4158.0
72.5°	419.9	459.1	802.5	1239.2	1705.8	3280.9	5195.7	6365.8	6408.7	5460.7	3762.4
75°	326.6	354.6	565.5	845.4	1075.0	2228.3	4298.0	5367.4	5481.2	4654.4	3042.0
77.5°	248.2	268.7	330.3	528.2	688.6	1280.3	2836.7	3519.8	3527.2	2849.8	1631.1
80°	181.0	201.6	220.2	322.9	365.8	599.1	1071.2	1470.6	1429.6	1379.2	882.7
82.5°	108.2	128.8	134.4	175.4	179.2	255.7	375.1	474.0	455.4	606.5	414.3
85°	46.7	65.3	69.1	80.2	76.5	104.5	149.3	125.0	112.0	128.8	89.6
87.5°	11.2	18.7	18.7	20.5	16.8	26.1	28.0	20.5	18.7	22.4	22.4
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°	2284.3	2284.3	2284.3	2284.3	2284.3	2284.3	2284.3	2284.3	2284.3	2284.3	2284.3
2.5°	2271.2	2265.6	2267.5	2235.8	2226.4	2217.1	2211.5	2207.8	2204.1	2209.6	2215.2
5°	2288.0	2275.0	2260.0	2213.4	2194.7	2174.2	2159.3	2146.2	2140.6	2140.6	2146.2
7.5°	2301.1	2278.7	2247.0	2185.4	2151.8	2123.8	2099.5	2082.7	2073.4	2073.4	2079.0
10°	2303.0	2271.2	2220.8	2146.2	2101.4	2060.3	2032.4	2013.7	2000.6	2000.6	2004.4
12.5°	2314.2	2271.2	2205.9	2116.3	2060.3	2010.0	1976.4	1948.4	1942.8	1942.8	1946.5
15°	2332.8	2280.6	2196.6	2090.2	2023.0	1965.2	1927.8	1898.0	1886.8	1894.3	1896.1
17.5°	2349.6	2286.2	2179.8	2056.6	1976.4	1912.9	1871.9	1845.7	1830.8	1847.6	1847.6
20°	2360.8	2286.2	2155.5	2013.7	1926.0	1855.1	1815.9	1784.1	1772.9	1793.5	1795.3
22.5°	2377.6	2284.3	2129.4	1970.8	1871.9	1797.2	1758.0	1733.8	1728.2	1750.6	1758.0
25°	2396.3	2288.0	2101.4	1922.2	1812.1	1739.4	1709.5	1698.3	1702.0	1730.0	1739.4
27.5°	2416.8	2295.5	2073.4	1868.1	1746.8	1681.5	1664.7	1670.3	1685.2	1720.7	1731.9
30°	2435.5	2297.4	2034.2	1804.7	1672.2	1610.6	1618.0	1642.3	1664.7	1700.2	1713.2
32.5°	2459.7	2299.2	1993.2	1735.6	1591.9	1547.1	1580.7	1619.9	1642.3	1675.9	1690.8
35°	2519.4	2331.0	1961.4	1668.4	1517.3	1493.0	1549.0	1599.4	1612.4	1642.3	1655.4
37.5°	2588.5	2383.2	1944.6	1599.4	1444.5	1438.9	1509.8	1560.2	1563.9	1582.6	1595.7
40°	2631.4	2405.6	1926.0	1541.5	1379.2	1382.9	1455.7	1494.9	1487.4	1500.5	1509.8
42.5°	2674.3	2413.1	1886.8	1493.0	1317.6	1321.3	1377.3	1405.3	1409.0	1437.0	1450.1
45°	2747.1	2433.6	1843.9	1448.2	1261.6	1248.5	1282.1	1319.4	1368.0	1422.1	1437.0
47.5°	2844.2	2476.5	1799.1	1394.1	1207.5	1164.5	1177.6	1242.9	1293.3	1343.7	1353.0
50°	2943.1	2519.4	1758.0	1328.8	1153.3	1075.0	1080.6	1140.3	1181.3	1220.5	1226.1
52.5°	3040.1	2556.8	1722.6	1267.2	1091.8	968.6	991.0	1052.6	1080.6	1099.2	1104.8
55°	3137.2	2588.5	1690.8	1214.9	1020.8	884.6	905.1	963.0	991.0	1000.3	1004.0
57.5°	3238.0	2625.8	1666.6	1170.1	940.6	810.0	823.0	864.1	890.2	901.4	897.7
60°	3321.9	2657.6	1653.5	1123.5	860.3	740.9	737.2	774.5	811.8	823.0	819.3
62.5°	3387.3	2678.1	1633.0	1063.8	789.4	671.9	653.2	701.7	740.9	748.4	754.0
65°	3422.7	2679.9	1582.6	987.3	716.6	597.2	584.1	632.7	656.9	664.4	664.4
67.5°	3417.1	2650.1	1483.7	884.6	649.5	530.0	518.8	548.7	584.1	589.7	584.1
70°	3301.4	2526.9	1325.0	776.4	569.2	470.3	449.8	479.6	513.2	492.7	483.4
72.5°	2972.9	2207.8	1091.8	656.9	479.6	395.6	386.3	416.2	418.0	421.8	412.4
75°	2345.9	1644.2	817.4	511.4	388.2	332.2	330.3	324.7	332.2	347.1	335.9
77.5°	1231.7	821.2	442.3	313.5	281.8	266.9	253.8	251.9	274.3	283.7	272.5
80°	668.1	461.0	253.8	188.5	171.7	173.6	190.4	186.6	210.9	216.5	207.2
82.5°	291.1	218.4	125.0	113.8	113.8	112.0	117.6	130.6	156.8	156.8	125.0
85°	63.5	54.1	48.5	56.0	63.5	63.5	63.5	63.5	44.8	24.3	16.8
87.5°	20.5	20.5	20.5	22.4	24.3	24.3	20.5	14.9	9.3	1.9	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)