

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: P799223

Luminaire Tested: **ARCH2-100-722-U-T3**

Issue Date: 4/4/2024

Test Information

Test Method: LM-79-08
Report Number: P799223
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: ARCH2-100-722-U-T3
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2200K, 760mA LIGHTSQUARES WITH 10 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11065 lumens
Efficiency: N/A
Efficacy: 107.1 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): 103.3
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



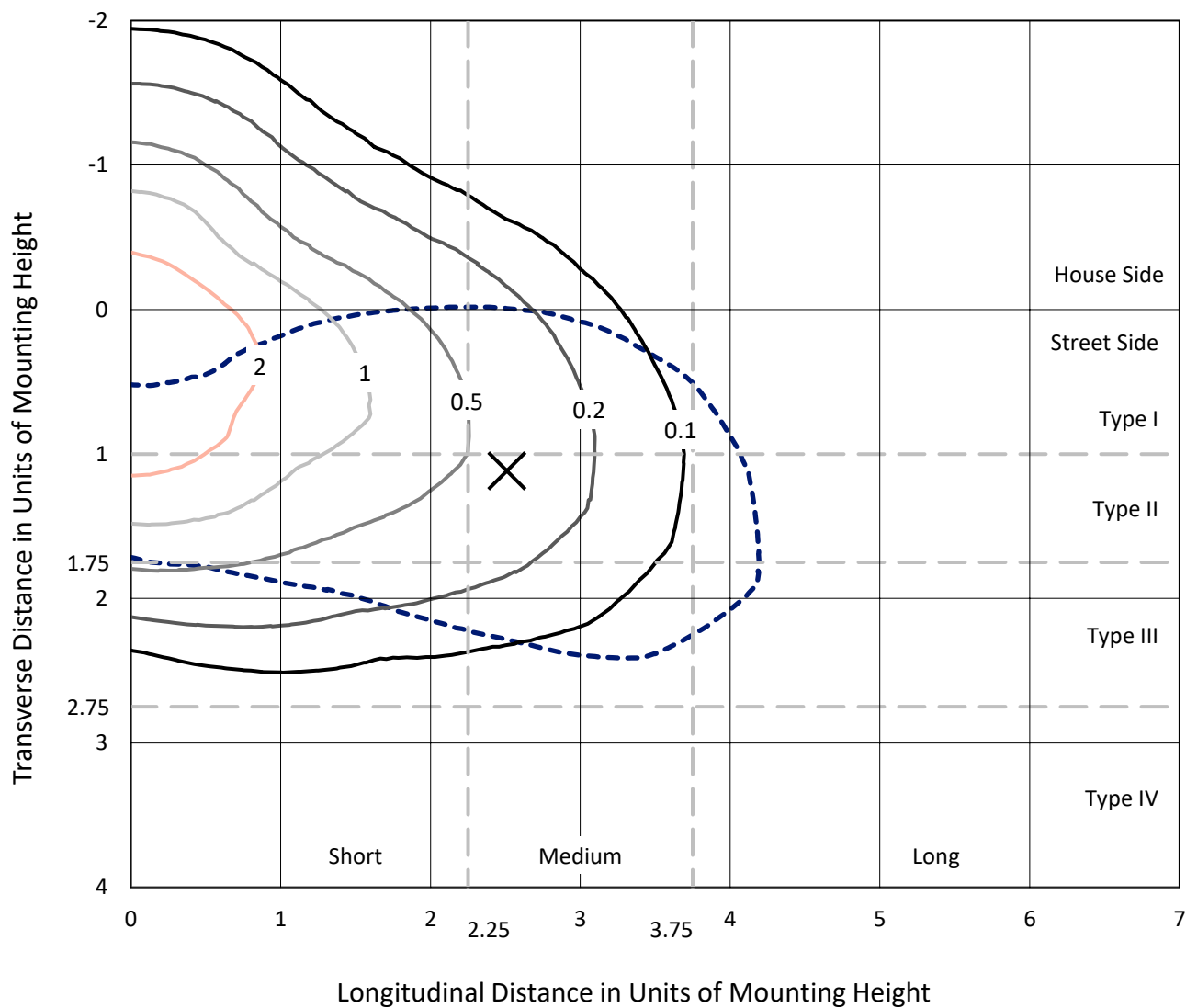
REPORT NUMBER: P799223

CATALOG NUMBER: ARCH2-100-722-U-T3

Iso-Footcandle Lines of Horizontal Illumination

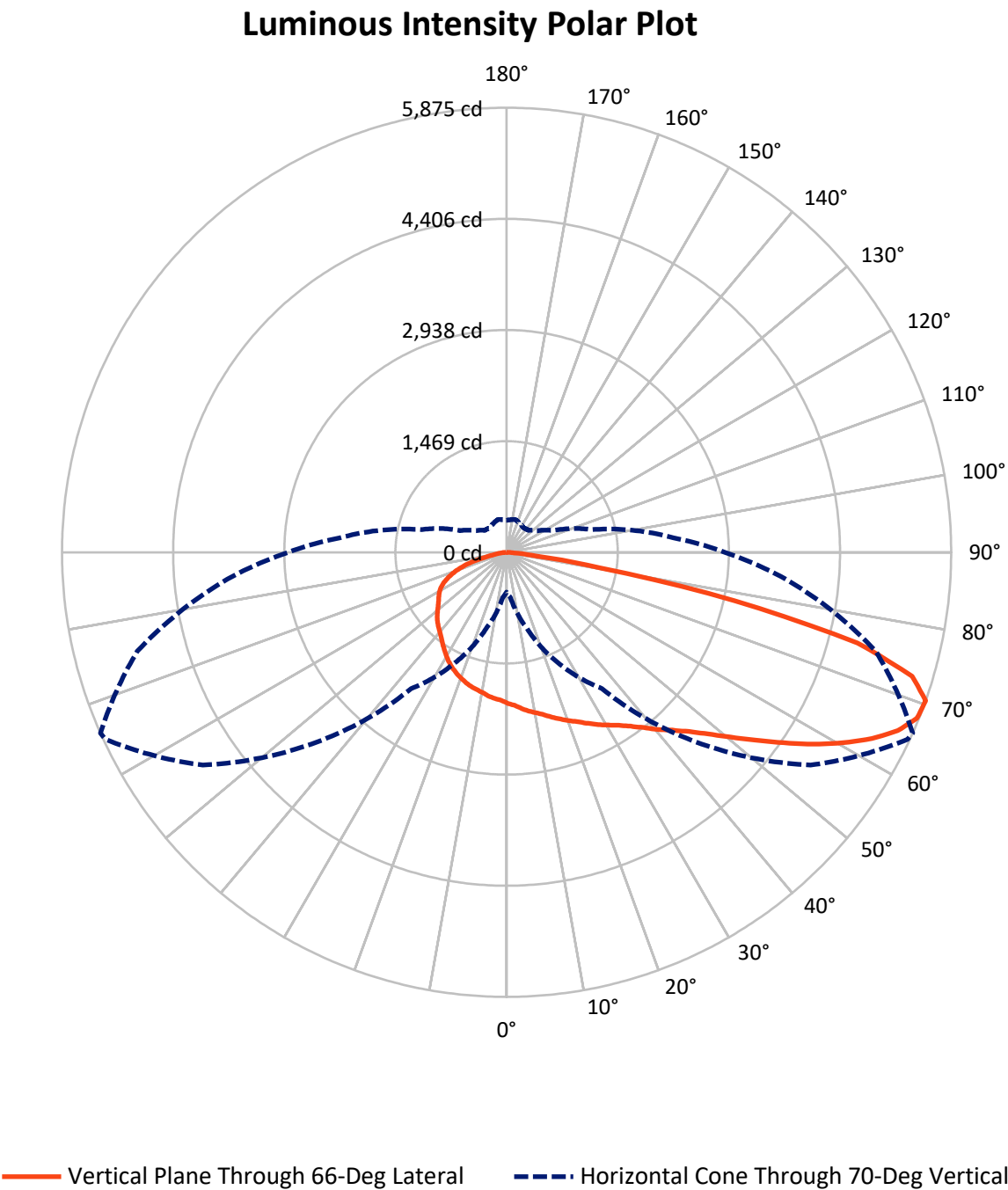
✕ Max cd

--- 1/2 Max cd



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

REPORT NUMBER: P799223
CATALOG NUMBER: ARCH2-100-722-U-T3



REPORT NUMBER: P799223

CATALOG NUMBER: ARCH2-100-722-U-T3

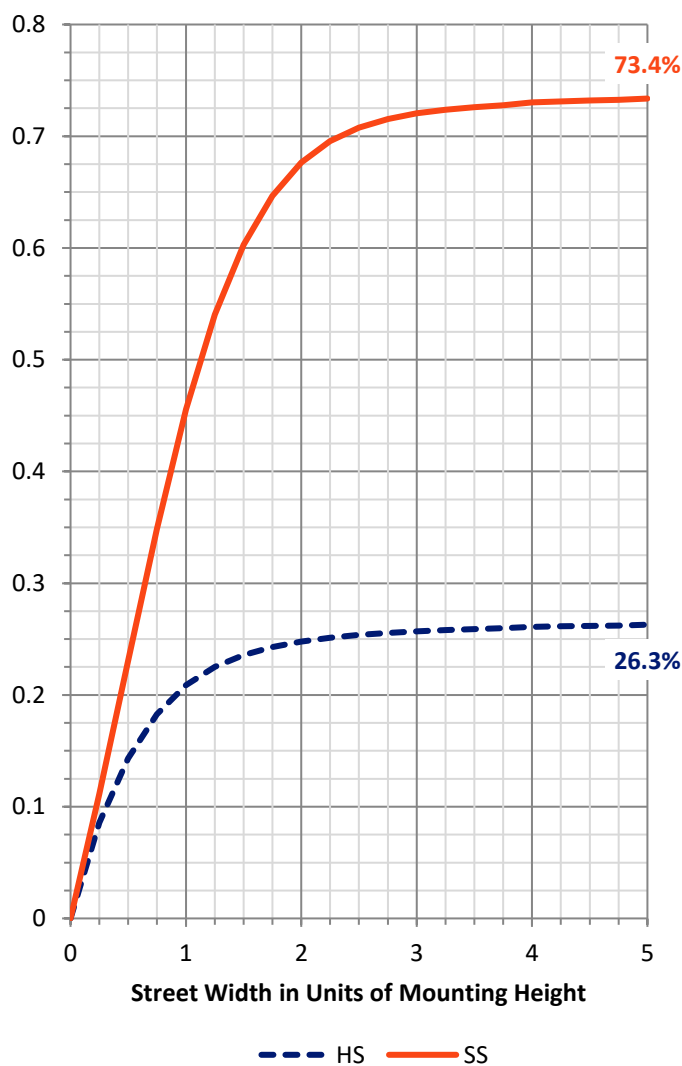
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2932.0	0.0	2932.0
	% Fixture	26.5	0.0	26.5
Street Side	Lumens	8133.0	0.0	8133.0
	% Fixture	73.5	0.0	73.5
Total	Lumens	11065.0	0.0	11065.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	191.9	1.7
10°-20°	575.6	5.2
20°-30°	964.9	8.7
30°-40°	1444.8	13.1
40°-50°	1931.6	17.5
50°-60°	2255.3	20.4
60°-70°	2242.5	20.3
70°-80°	1327.6	12.0
80°-90°	130.8	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°	11065.0	100.0
0°-180°	11065.0	100.0

Coefficient of Utilization



REPORT NUMBER: P799223

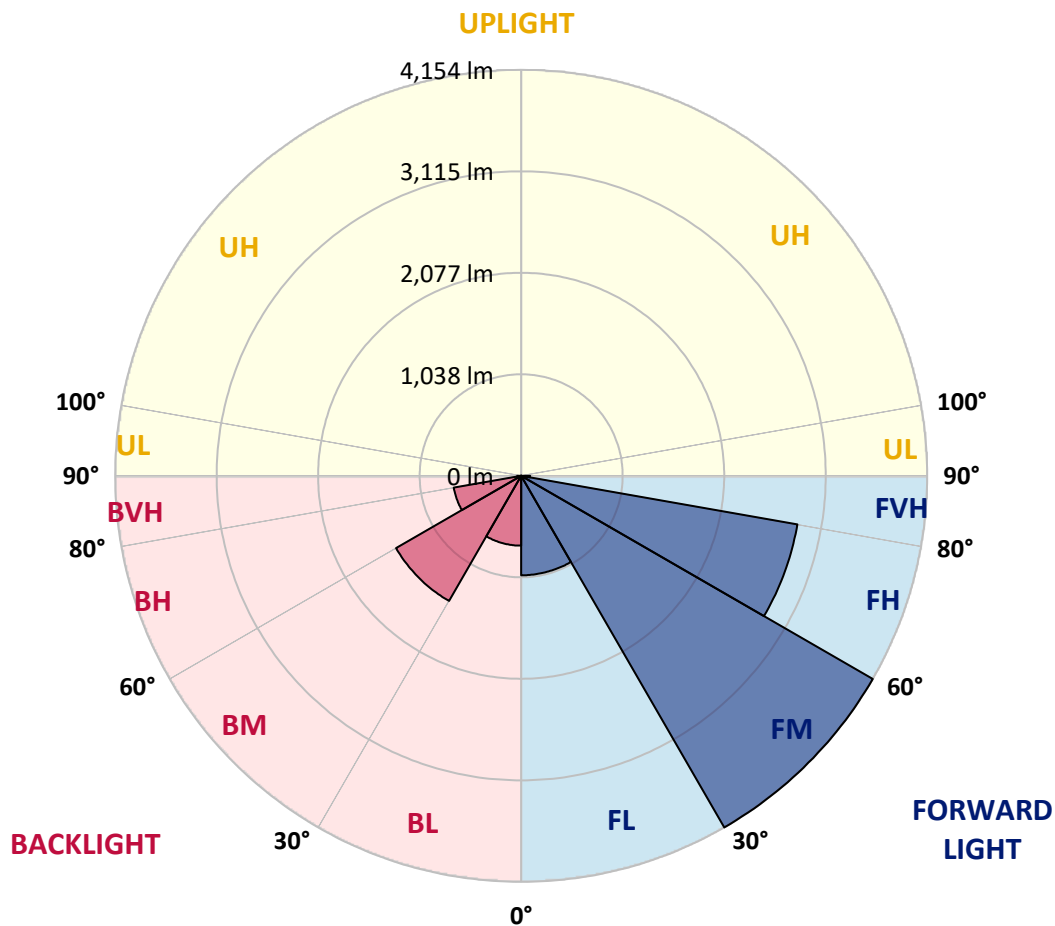
CATALOG NUMBER: ARCH2-100-722-U-T3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1017.7	9.2			
FM	(30°-60°)	4153.7	37.5			
FH	(60°-80°)	2869.7	25.9			G2/5000
FVH	(80°-90°)	92.0	0.8			G1/100
BL	(0°-30°)	714.7	6.5	B2/1000		
BM	(30°-60°)	1478.0	13.4	B2/2500		
BH	(60°-80°)	700.4	6.3	B2/1000		G2/1000
BVH	(80°-90°)	38.9	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



REPORT NUMBER: P799223

CATALOG NUMBER: ARCH2-100-722-U-T3

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	1997.0	1997.0	1997.0	1997.0	1997.0	1997.0	1997.0	1997.0	1997.0	1997.0	1997.0
2.5°	2070.4	2067.1	2065.5	2059.0	2044.3	2050.8	2036.1	2026.3	2024.7	2001.9	1988.8
5°	2155.2	2153.6	2150.3	2140.6	2117.7	2121.0	2096.5	2078.6	2073.7	2037.8	2010.0
7.5°	2227.0	2223.8	2222.1	2209.1	2184.6	2183.0	2153.6	2127.5	2119.3	2070.4	2028.0
10°	2282.5	2277.6	2280.9	2267.8	2241.7	2236.8	2199.3	2165.0	2156.9	2094.9	2036.1
12.5°	2329.8	2326.5	2331.4	2320.0	2298.8	2293.9	2256.4	2212.3	2202.6	2130.8	2054.1
15°	2382.0	2370.6	2380.4	2375.5	2360.8	2359.2	2324.9	2276.0	2262.9	2176.4	2081.8
17.5°	2409.8	2403.2	2414.6	2416.3	2409.8	2421.2	2388.5	2329.8	2318.4	2218.9	2106.3
20°	2429.3	2419.5	2432.6	2442.4	2447.3	2470.1	2444.0	2386.9	2373.9	2259.7	2129.1
22.5°	2496.2	2475.0	2476.6	2483.2	2486.4	2519.1	2502.8	2447.3	2434.2	2310.2	2156.9
25°	2664.3	2621.9	2594.1	2574.5	2551.7	2579.4	2569.6	2515.8	2504.4	2370.6	2191.1
27.5°	2925.3	2871.5	2816.0	2758.9	2669.2	2657.7	2641.4	2592.5	2579.4	2431.0	2225.4
30°	3222.3	3168.4	3103.2	3011.8	2843.7	2755.6	2718.1	2664.3	2649.6	2484.8	2258.0
32.5°	3517.6	3470.2	3405.0	3294.0	3054.2	2874.7	2794.8	2739.3	2724.6	2543.5	2297.2
35°	3747.6	3718.2	3675.8	3537.1	3263.0	3015.0	2905.7	2838.8	2822.5	2636.5	2369.0
37.5°	3933.6	3912.4	3876.5	3731.3	3414.8	3155.4	3033.0	2956.3	2938.4	2737.7	2445.6
40°	4207.7	4152.2	4122.9	3912.4	3546.9	3282.6	3176.6	3096.6	3077.0	2845.4	2507.6
42.5°	4441.0	4400.2	4364.3	4073.9	3672.6	3391.9	3312.0	3238.6	3212.5	2951.4	2574.5
45°	4480.2	4496.5	4478.5	4153.9	3871.6	3499.6	3449.0	3401.7	3377.2	3095.0	2675.7
47.5°	4481.8	4481.8	4375.7	4199.5	4118.0	3620.3	3595.9	3612.2	3586.1	3277.7	2796.4
50°	4364.3	4385.5	4330.1	4211.0	4183.2	3741.1	3775.3	3863.4	3837.3	3471.9	2926.9
52.5°	4121.2	4191.4	4189.7	4193.0	4088.6	3843.9	3964.6	4165.3	4121.2	3690.5	3065.6
55°	3692.1	3832.4	3958.1	4065.7	4007.0	3905.9	4196.3	4486.7	4441.0	3935.2	3205.9
57.5°	3325.0	3414.8	3571.4	3876.5	3910.8	3959.7	4413.3	4822.8	4782.0	4206.1	3352.8
60°	2905.7	3029.7	3186.4	3620.3	3793.3	4029.9	4651.5	5150.7	5111.6	4480.2	3494.7
62.5°	2261.3	2421.2	2734.4	3227.1	3622.0	4073.9	4839.1	5439.5	5421.5	4739.6	3622.0
65°	1576.0	1718.0	2156.9	2744.2	3349.5	4054.3	4989.2	5697.3	5681.0	4951.7	3711.7
67.5°	920.2	1085.0	1580.9	2209.1	2868.2	3918.9	5038.1	5849.0	5849.0	5080.6	3736.2
70°	525.3	602.0	1042.5	1610.3	2199.3	3545.3	4901.1	5847.4	5875.1	5051.2	3635.0
72.5°	367.1	401.4	701.6	1083.3	1491.2	2868.2	4542.2	5565.1	5602.6	4773.8	3289.1
75°	285.5	310.0	494.4	739.1	939.8	1948.0	3757.4	4692.3	4791.8	4069.0	2659.4
77.5°	217.0	234.9	288.8	461.7	602.0	1119.2	2479.9	3077.0	3083.6	2491.3	1425.9
80°	158.3	176.2	192.5	282.3	319.8	523.7	936.5	1285.6	1249.7	1205.7	771.7
82.5°	94.6	112.6	117.5	153.4	156.6	223.5	327.9	414.4	398.1	530.2	362.2
85°	40.8	57.1	60.4	70.2	66.9	91.4	130.5	109.3	97.9	112.6	78.3
87.5°	9.8	16.3	16.3	17.9	14.7	22.8	24.5	17.9	16.3	19.6	19.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P799223

CATALOG NUMBER: ARCH2-100-722-U-T3

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1997.0	1997.0	1997.0	1997.0	1997.0	1997.0	1997.0	1997.0	1997.0	1997.0	1997.0
2.5°	1985.6	1980.7	1982.3	1954.6	1946.4	1938.2	1933.4	1930.1	1926.8	1931.7	1936.6
5°	2000.2	1988.8	1975.8	1935.0	1918.7	1900.7	1887.7	1876.2	1871.4	1871.4	1876.2
7.5°	2011.7	1992.1	1964.4	1910.5	1881.1	1856.7	1835.5	1820.8	1812.6	1812.6	1817.5
10°	2013.3	1985.6	1941.5	1876.2	1837.1	1801.2	1776.7	1760.4	1749.0	1749.0	1752.3
12.5°	2023.1	1985.6	1928.5	1850.1	1801.2	1757.1	1727.8	1703.3	1698.4	1698.4	1701.7
15°	2039.4	1993.7	1920.3	1827.3	1768.6	1718.0	1685.4	1659.3	1649.5	1656.0	1657.6
17.5°	2054.1	1998.6	1905.6	1797.9	1727.8	1672.3	1636.4	1613.6	1600.5	1615.2	1615.2
20°	2063.9	1998.6	1884.4	1760.4	1683.7	1621.7	1587.5	1559.7	1549.9	1567.9	1569.5
22.5°	2078.6	1997.0	1861.6	1722.9	1636.4	1571.2	1536.9	1515.7	1510.8	1530.4	1536.9
25°	2094.9	2000.2	1837.1	1680.5	1584.2	1520.6	1494.5	1484.7	1487.9	1512.4	1520.6
27.5°	2112.8	2006.8	1812.6	1633.2	1527.1	1470.0	1455.3	1460.2	1473.3	1504.3	1514.1
30°	2129.1	2008.4	1778.4	1577.7	1461.8	1408.0	1414.5	1435.7	1455.3	1486.3	1497.7
32.5°	2150.3	2010.0	1742.5	1517.3	1391.7	1352.5	1381.9	1416.2	1435.7	1465.1	1478.2
35°	2202.6	2037.8	1714.7	1458.6	1326.4	1305.2	1354.2	1398.2	1409.6	1435.7	1447.2
37.5°	2262.9	2083.5	1700.0	1398.2	1262.8	1257.9	1319.9	1364.0	1367.2	1383.5	1394.9
40°	2300.4	2103.0	1683.7	1347.6	1205.7	1209.0	1272.6	1306.8	1300.3	1311.7	1319.9
42.5°	2338.0	2109.6	1649.5	1305.2	1151.9	1155.1	1204.1	1228.5	1231.8	1256.3	1267.7
45°	2401.6	2127.5	1611.9	1266.1	1102.9	1091.5	1120.9	1153.5	1195.9	1243.2	1256.3
47.5°	2486.4	2165.0	1572.8	1218.7	1055.6	1018.1	1029.5	1086.6	1130.6	1174.7	1182.9
50°	2572.9	2202.6	1536.9	1161.6	1008.3	939.8	944.7	996.9	1032.8	1067.0	1071.9
52.5°	2657.7	2235.2	1505.9	1107.8	954.4	846.8	866.3	920.2	944.7	961.0	965.9
55°	2742.6	2262.9	1478.2	1062.1	892.4	773.3	791.3	841.9	866.3	874.5	877.8
57.5°	2830.7	2295.5	1456.9	1023.0	822.3	708.1	719.5	755.4	778.2	788.0	784.8
60°	2904.1	2323.3	1445.5	982.2	752.1	647.7	644.5	677.1	709.7	719.5	716.2
62.5°	2961.2	2341.2	1427.6	930.0	690.1	587.3	571.0	613.5	647.7	654.2	659.1
65°	2992.2	2342.9	1383.5	863.1	626.5	522.1	510.7	553.1	574.3	580.8	580.8
67.5°	2987.3	2316.8	1297.1	773.3	567.8	463.4	453.6	479.7	510.7	515.6	510.7
70°	2886.2	2209.1	1158.4	678.7	497.6	411.1	393.2	419.3	448.7	430.7	422.6
72.5°	2599.0	1930.1	954.4	574.3	419.3	345.9	337.7	363.8	365.5	368.7	360.6
75°	2050.8	1437.4	714.6	447.0	339.4	290.4	288.8	283.9	290.4	303.5	293.7
77.5°	1076.8	717.9	386.7	274.1	246.4	233.3	221.9	220.3	239.8	248.0	238.2
80°	584.1	403.0	221.9	164.8	150.1	151.7	166.4	163.2	184.4	189.3	181.1
82.5°	254.5	190.9	109.3	99.5	99.5	97.9	102.8	114.2	137.0	137.0	109.3
85°	55.5	47.3	42.4	48.9	55.5	55.5	55.5	55.5	39.2	21.2	14.7
87.5°	17.9	17.9	17.9	19.6	21.2	21.2	17.9	13.1	8.2	1.6	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)