

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: P800151

Luminaire Tested: **ARCH2-80-730-U-T3**

Issue Date: 4/4/2024

Test Information

Test Method: LM-79-08
Report Number: P800151
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: ARCH2-80-730-U-T3
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 630mA LIGHTSQUARES WITH 10 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11001 lumens
Efficiency: N/A
Efficacy: 130.5 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

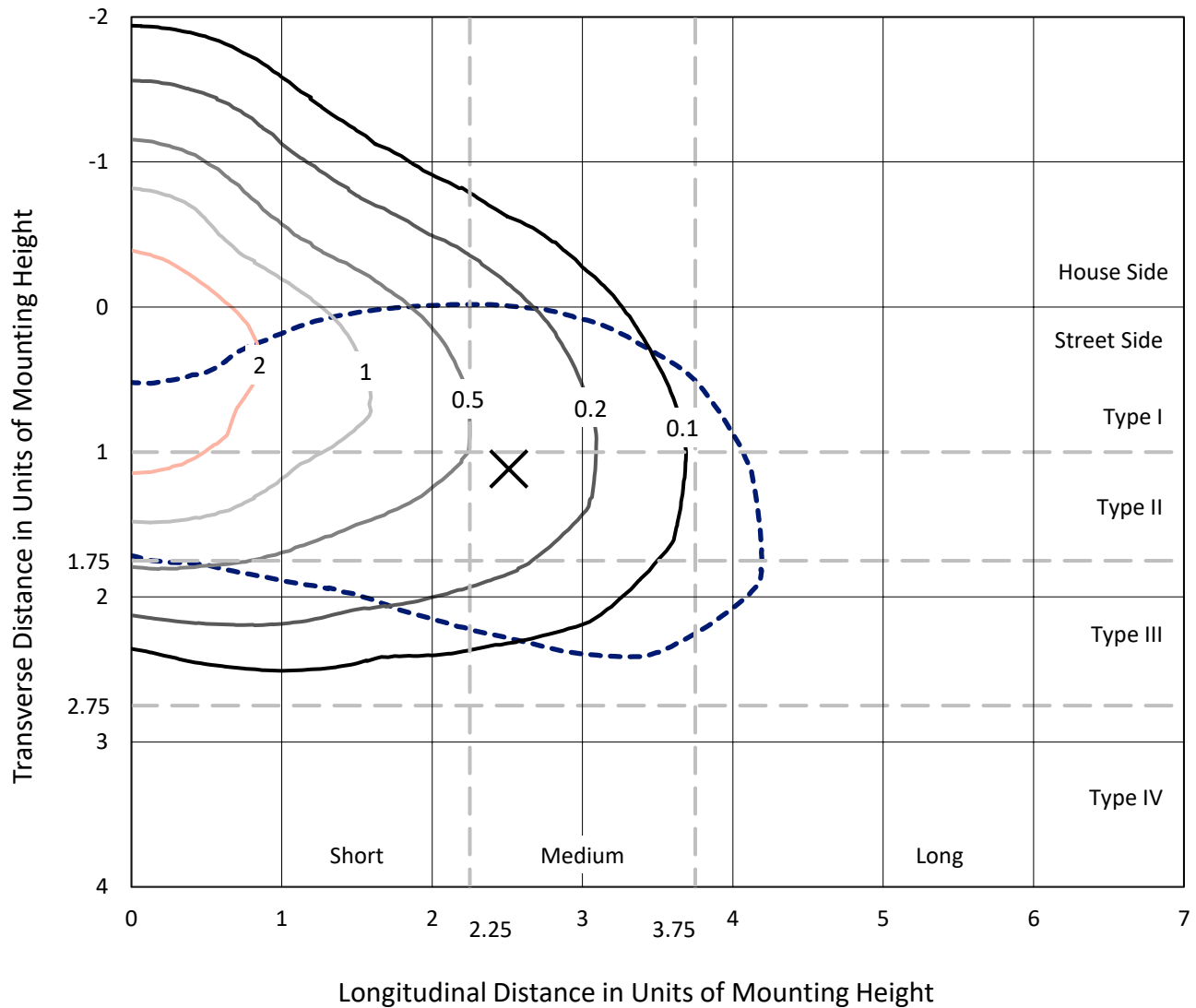
Input Watts (W): 84.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P800151
CATALOG NUMBER: ARCH2-80-730-U-T3

Iso-Footcandle Lines of Horizontal Illumination

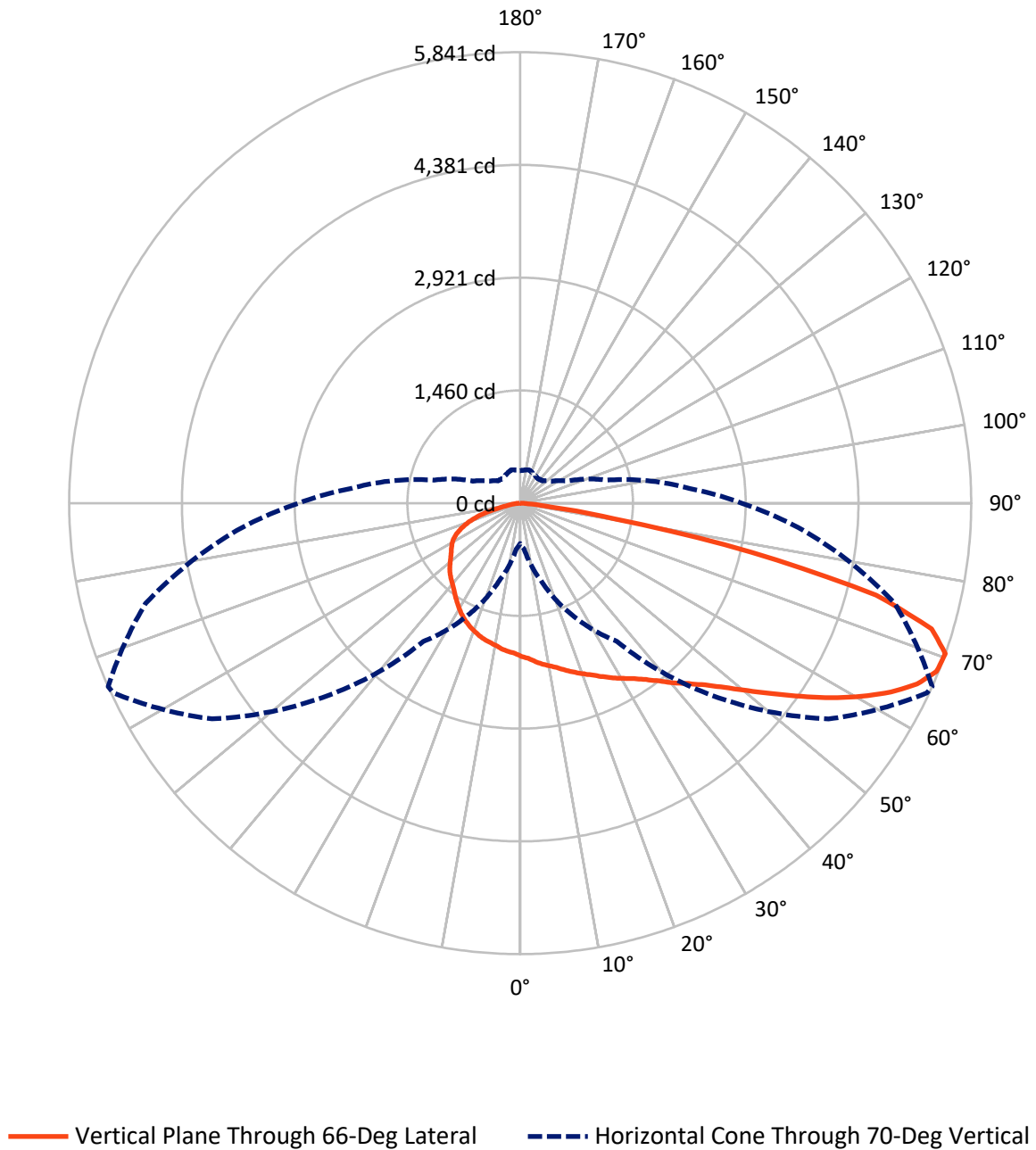
✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.4 fc
Type III - Medium - N/A

REPORT NUMBER: P800151
CATALOG NUMBER: ARCH2-80-730-U-T3

Luminous Intensity Polar Plot



REPORT NUMBER: P800151

CATALOG NUMBER: ARCH2-80-730-U-T3

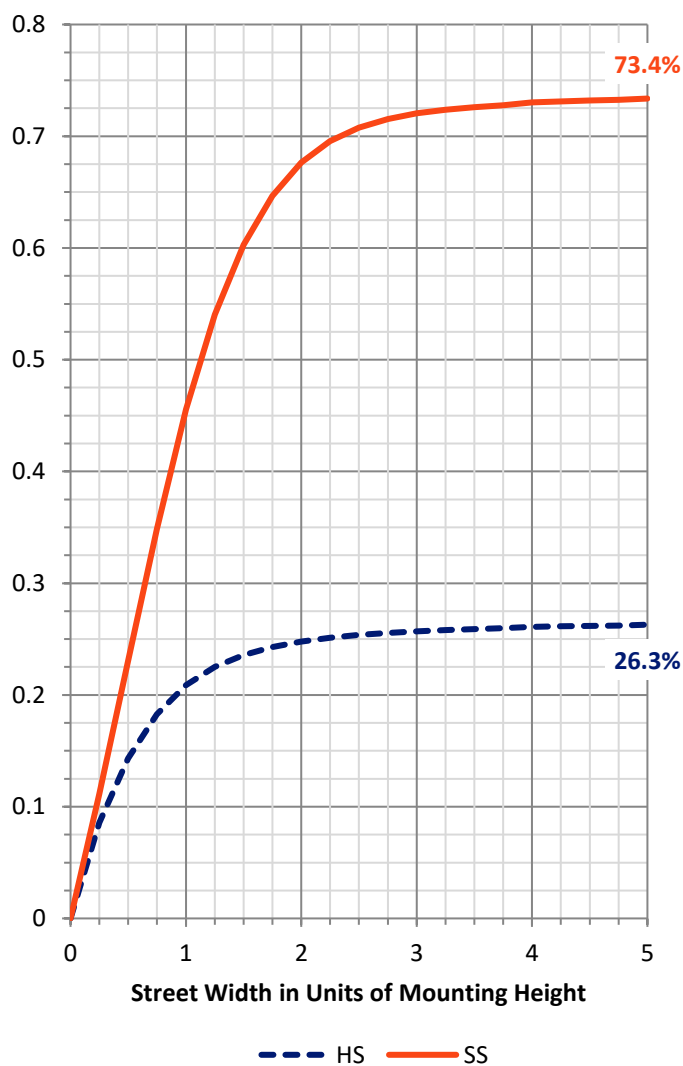
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2915.0	0.0	2915.0
	% Fixture	26.5	0.0	26.5
Street Side	Lumens	8086.0	0.0	8086.0
	% Fixture	73.5	0.0	73.5
Total	Lumens	11001.0	0.0	11001.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	190.8	1.7
10°-20°	572.3	5.2
20°-30°	959.3	8.7
30°-40°	1436.4	13.1
40°-50°	1920.5	17.5
50°-60°	2242.2	20.4
60°-70°	2229.5	20.3
70°-80°	1319.9	12.0
80°-90°	130.1	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°	11001.0	100.0
0°-180°	11001.0	100.0

Coefficient of Utilization



REPORT NUMBER: P800151

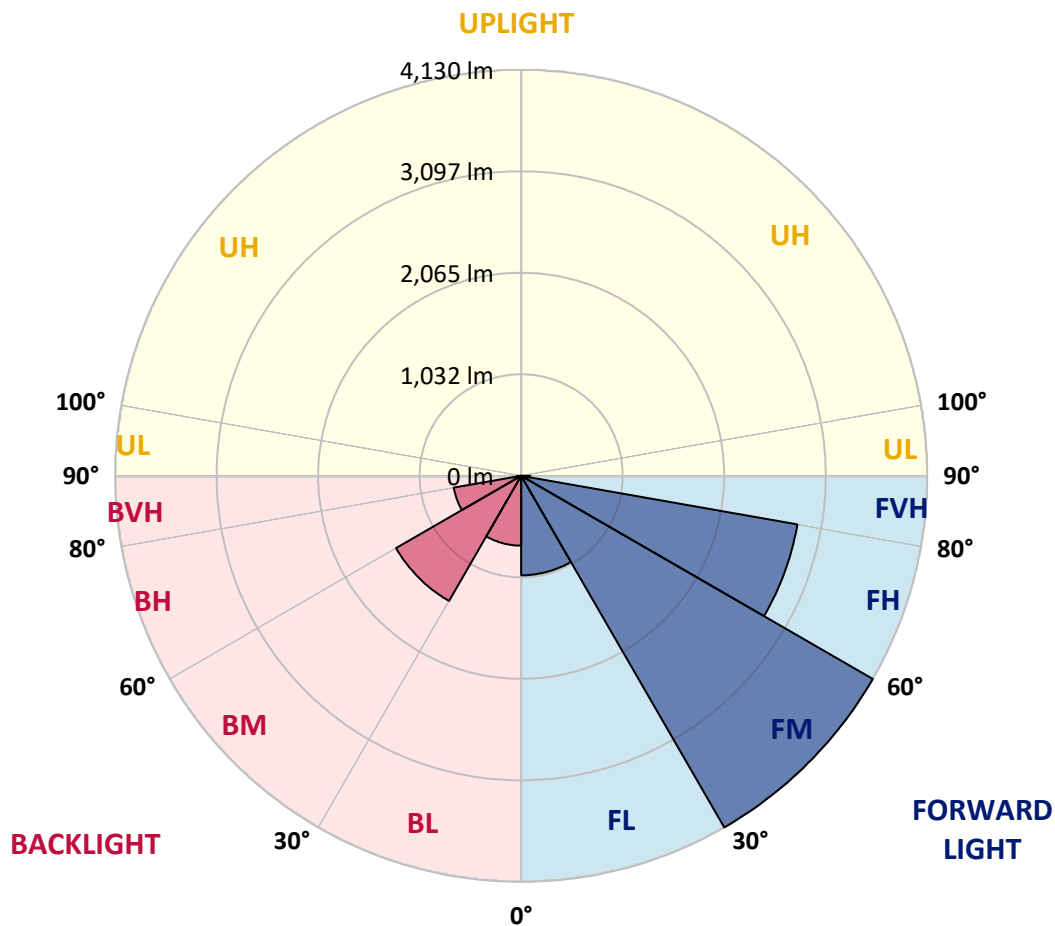
CATALOG NUMBER: ARCH2-80-730-U-T3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1011.8	9.2			
FM	(30°-60°)	4129.6	37.5			
FH	(60°-80°)	2853.1	25.9			G2/5000
FVH	(80°-90°)	91.4	0.8			G1/100
BL	(0°-30°)	710.6	6.5	B2/1000		
BM	(30°-60°)	1469.5	13.4	B2/2500		
BH	(60°-80°)	696.3	6.3	B2/1000		G2/1000
BVH	(80°-90°)	38.7	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: P800151

CATALOG NUMBER: ARCH2-80-730-U-T3

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	1985.4	1985.4	1985.4	1985.4	1985.4	1985.4	1985.4	1985.4	1985.4	1985.4	1985.4
2.5°	2058.4	2055.2	2053.6	2047.1	2032.5	2039.0	2024.4	2014.6	2013.0	1990.3	1977.3
5°	2142.8	2141.1	2137.9	2128.2	2105.5	2108.7	2084.4	2066.5	2061.7	2026.0	1998.4
7.5°	2214.1	2210.9	2209.3	2196.3	2172.0	2170.3	2141.1	2115.2	2107.1	2058.4	2016.2
10°	2269.3	2264.4	2267.7	2254.7	2228.7	2223.9	2186.6	2152.5	2144.4	2082.8	2024.4
12.5°	2316.3	2313.1	2318.0	2306.6	2285.5	2280.6	2243.3	2199.5	2189.8	2118.4	2042.2
15°	2368.2	2356.9	2366.6	2361.8	2347.2	2345.5	2311.5	2262.8	2249.8	2163.9	2069.8
17.5°	2395.8	2389.3	2400.7	2402.3	2395.8	2407.2	2374.7	2316.3	2305.0	2206.0	2094.1
20°	2415.3	2405.5	2418.5	2428.3	2433.1	2455.8	2429.9	2373.1	2360.1	2246.6	2116.8
22.5°	2481.8	2460.7	2462.3	2468.8	2472.1	2504.5	2488.3	2433.1	2420.1	2296.9	2144.4
25°	2648.9	2606.7	2579.1	2559.6	2536.9	2564.5	2554.8	2501.3	2489.9	2356.9	2178.5
27.5°	2908.4	2854.9	2799.7	2742.9	2653.7	2642.4	2626.2	2577.5	2564.5	2416.9	2212.5
30°	3203.6	3150.1	3085.2	2994.4	2827.3	2739.7	2702.4	2648.9	2634.3	2470.4	2245.0
32.5°	3497.2	3450.2	3385.3	3275.0	3036.5	2858.1	2778.6	2723.5	2708.9	2528.8	2283.9
35°	3725.9	3696.7	3654.6	3516.7	3244.2	2997.6	2888.9	2822.4	2806.2	2621.3	2355.3
37.5°	3910.8	3889.8	3854.1	3709.7	3395.0	3137.1	3015.5	2939.2	2921.4	2721.9	2431.5
40°	4183.4	4128.2	4099.0	3889.8	3526.4	3263.6	3158.2	3078.7	3059.2	2828.9	2493.1
42.5°	4415.3	4374.8	4339.1	4050.3	3651.3	3372.3	3292.8	3219.8	3193.9	2934.3	2559.6
45°	4454.2	4470.5	4452.6	4129.8	3849.2	3479.4	3429.1	3382.0	3357.7	3077.1	2660.2
47.5°	4455.9	4455.9	4350.4	4175.2	4094.1	3599.4	3575.1	3591.3	3565.3	3258.8	2780.3
50°	4339.1	4360.2	4305.0	4186.6	4159.0	3719.4	3753.5	3841.1	3815.1	3451.8	2910.0
52.5°	4097.4	4167.1	4165.5	4168.8	4064.9	3821.6	3941.7	4141.2	4097.4	3669.2	3047.9
55°	3670.8	3810.3	3935.2	4042.2	3983.8	3883.3	4172.0	4460.7	4415.3	3912.5	3187.4
57.5°	3305.8	3395.0	3550.7	3854.1	3888.1	3936.8	4387.7	4794.9	4754.3	4181.7	3333.4
60°	2888.9	3012.2	3167.9	3599.4	3771.3	4006.5	4624.6	5120.9	5082.0	4454.2	3474.5
62.5°	2248.2	2407.2	2718.6	3208.5	3601.0	4050.3	4811.1	5408.0	5390.2	4712.2	3601.0
65°	1566.9	1708.1	2144.4	2728.3	3330.1	4030.9	4960.3	5664.3	5648.1	4923.0	3690.2
67.5°	914.9	1078.7	1571.8	2196.3	2851.6	3896.2	5009.0	5815.2	5815.2	5051.2	3714.6
70°	522.3	598.5	1036.5	1601.0	2186.6	3524.8	4872.7	5813.5	5841.1	5022.0	3614.0
72.5°	365.0	399.0	697.5	1077.1	1482.6	2851.6	4515.9	5532.9	5570.2	4746.2	3270.1
75°	283.9	308.2	491.5	734.8	934.3	1936.8	3735.7	4665.1	4764.1	4045.5	2644.0
77.5°	215.7	233.6	287.1	459.0	598.5	1112.7	2465.6	3059.2	3065.7	2476.9	1417.7
80°	157.3	175.2	191.4	280.6	317.9	520.7	931.1	1278.2	1242.5	1198.7	767.2
82.5°	94.1	111.9	116.8	152.5	155.7	222.2	326.0	412.0	395.8	527.2	360.1
85°	40.6	56.8	60.0	69.7	66.5	90.8	129.8	108.7	97.3	111.9	77.9
87.5°	9.7	16.2	16.2	17.8	14.6	22.7	24.3	17.8	16.2	19.5	19.5
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: P800151

CATALOG NUMBER: ARCH2-80-730-U-T3

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1985.4	1985.4	1985.4	1985.4	1985.4	1985.4	1985.4	1985.4	1985.4	1985.4	1985.4
2.5°	1974.1	1969.2	1970.8	1943.3	1935.1	1927.0	1922.2	1918.9	1915.7	1920.5	1925.4
5°	1988.7	1977.3	1964.3	1923.8	1907.6	1889.7	1876.8	1865.4	1860.5	1860.5	1865.4
7.5°	2000.0	1980.6	1953.0	1899.5	1870.3	1845.9	1824.8	1810.2	1802.1	1802.1	1807.0
10°	2001.7	1974.1	1930.3	1865.4	1826.5	1790.8	1766.4	1750.2	1738.9	1738.9	1742.1
12.5°	2011.4	1974.1	1917.3	1839.4	1790.8	1747.0	1717.8	1693.5	1688.6	1688.6	1691.8
15°	2027.6	1982.2	1909.2	1816.7	1758.3	1708.1	1675.6	1649.7	1639.9	1646.4	1648.0
17.5°	2042.2	1987.1	1894.6	1787.5	1717.8	1662.6	1626.9	1604.2	1591.3	1605.9	1605.9
20°	2051.9	1987.1	1873.5	1750.2	1674.0	1612.4	1578.3	1550.7	1541.0	1558.8	1560.4
22.5°	2066.5	1985.4	1850.8	1712.9	1626.9	1562.1	1528.0	1506.9	1502.0	1521.5	1528.0
25°	2082.8	1988.7	1826.5	1670.7	1575.0	1511.8	1485.8	1476.1	1479.3	1503.7	1511.8
27.5°	2100.6	1995.2	1802.1	1623.7	1518.3	1461.5	1446.9	1451.8	1464.7	1495.6	1505.3
30°	2116.8	1996.8	1768.1	1568.6	1453.4	1399.9	1406.3	1427.4	1446.9	1477.7	1489.1
32.5°	2137.9	1998.4	1732.4	1508.5	1383.6	1344.7	1373.9	1408.0	1427.4	1456.6	1469.6
35°	2189.8	2026.0	1704.8	1450.1	1318.8	1297.7	1346.3	1390.1	1401.5	1427.4	1438.8
37.5°	2249.8	2071.4	1690.2	1390.1	1255.5	1250.6	1312.3	1356.1	1359.3	1375.5	1386.9
40°	2287.1	2090.9	1674.0	1339.8	1198.7	1202.0	1265.2	1299.3	1292.8	1304.2	1312.3
42.5°	2324.4	2097.4	1639.9	1297.7	1145.2	1148.4	1197.1	1221.4	1224.7	1249.0	1260.4
45°	2387.7	2115.2	1602.6	1258.7	1096.5	1085.2	1114.4	1146.8	1189.0	1236.0	1249.0
47.5°	2472.1	2152.5	1563.7	1211.7	1049.5	1012.2	1023.5	1080.3	1124.1	1167.9	1176.0
50°	2558.0	2189.8	1528.0	1154.9	1002.4	934.3	939.2	991.1	1026.8	1060.8	1065.7
52.5°	2642.4	2222.3	1497.2	1101.4	948.9	841.9	861.3	914.9	939.2	955.4	960.3
55°	2726.7	2249.8	1469.6	1056.0	887.3	768.9	786.7	837.0	861.3	869.4	872.7
57.5°	2814.3	2282.3	1448.5	1017.0	817.5	704.0	715.3	751.0	773.7	783.5	780.2
60°	2887.3	2309.8	1437.2	976.5	747.8	644.0	640.7	673.2	705.6	715.3	712.1
62.5°	2944.1	2327.7	1419.3	924.6	686.1	583.9	567.7	609.9	644.0	650.5	655.3
65°	2974.9	2329.3	1375.5	858.1	622.9	519.1	507.7	549.9	571.0	577.5	577.5
67.5°	2970.0	2303.4	1289.6	768.9	564.5	460.7	450.9	476.9	507.7	512.6	507.7
70°	2869.5	2196.3	1151.7	674.8	494.7	408.8	390.9	416.9	446.1	428.2	420.1
72.5°	2584.0	1918.9	948.9	571.0	416.9	343.9	335.8	361.7	363.3	366.6	358.5
75°	2039.0	1429.1	710.5	444.5	337.4	288.7	287.1	282.2	288.7	301.7	292.0
77.5°	1070.6	713.7	384.4	272.5	244.9	232.0	220.6	219.0	238.4	246.6	236.8
80°	580.7	400.7	220.6	163.8	149.2	150.9	165.5	162.2	183.3	188.2	180.1
82.5°	253.0	189.8	108.7	98.9	98.9	97.3	102.2	113.5	136.3	136.3	108.7
85°	55.2	47.0	42.2	48.7	55.2	55.2	55.2	55.2	38.9	21.1	14.6
87.5°	17.8	17.8	17.8	19.5	21.1	21.1	17.8	13.0	8.1	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)