

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: P836671

Luminaire Tested: **ARCH3-60-722-U-T3**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P836671
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2310-189-18)
Test Lab: INNOVATION CENTER
Issue Date: 5/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH3-60-722-U-T3
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2200K, 505mA LIGHTSQUARE WITH 40 LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9113 lumens
Efficiency: N/A
Efficacy: 144.2 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G2

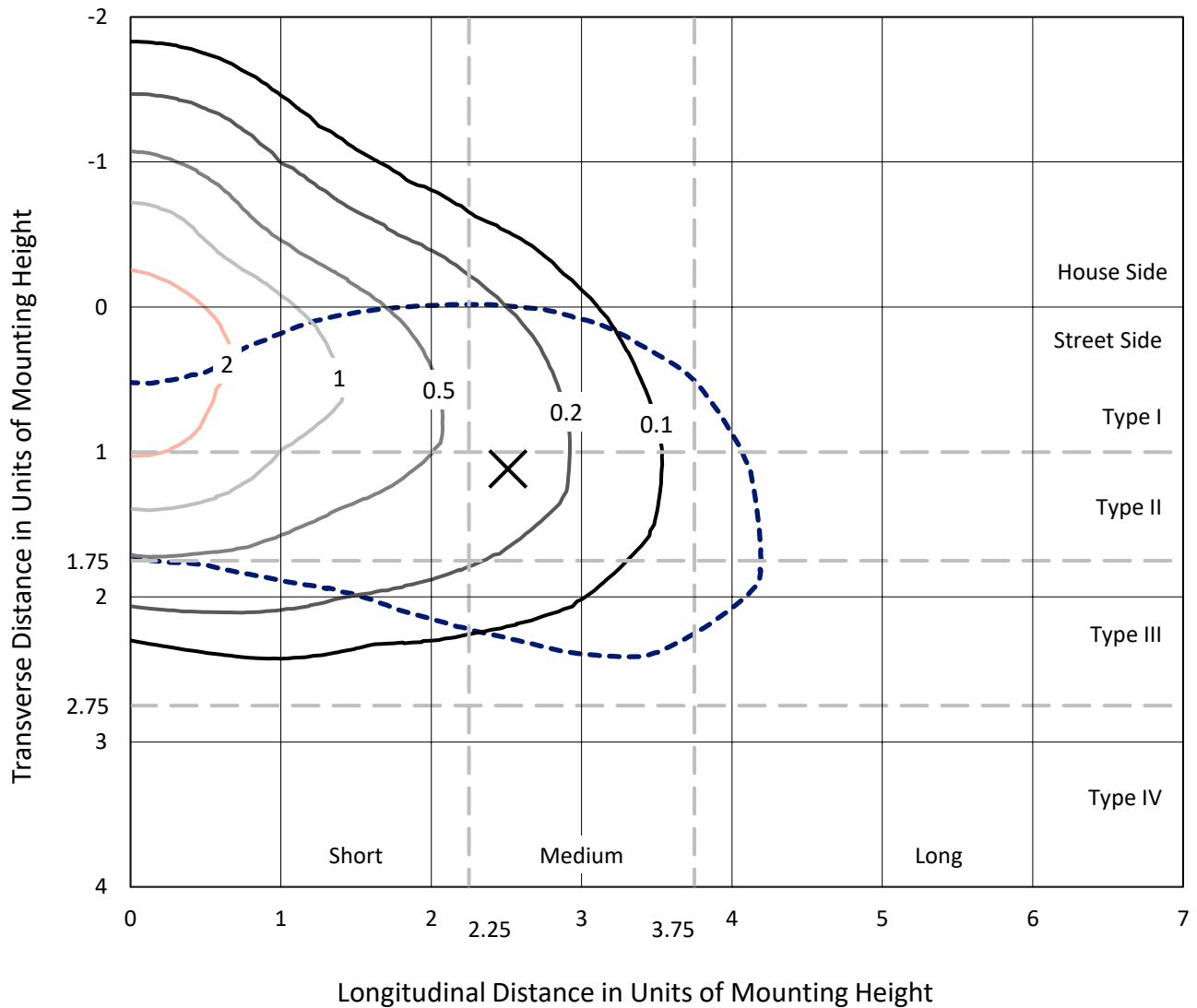
Input Watts (W): 63.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P836671
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Iso-Footcandle Lines of Horizontal Illumination

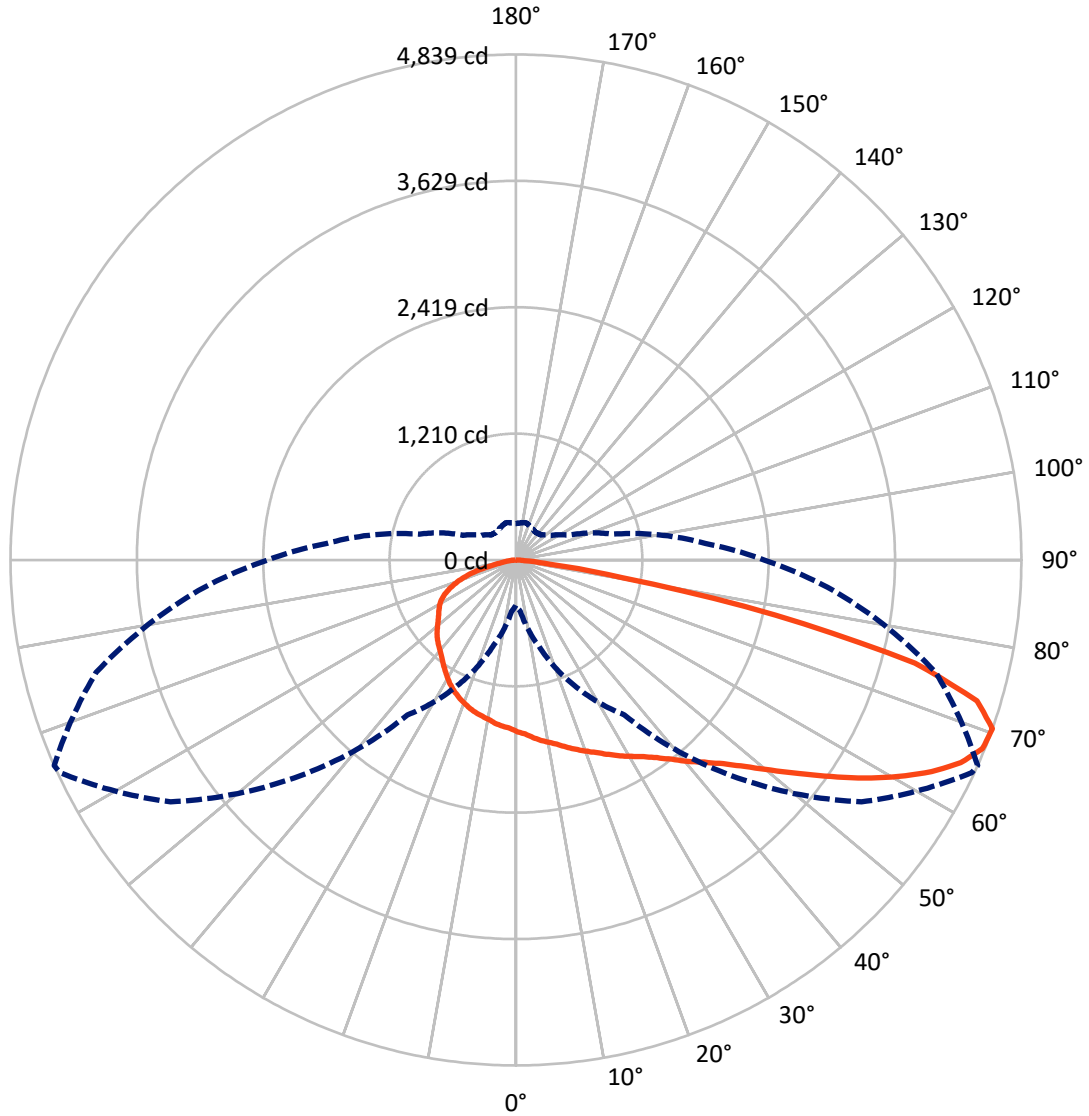
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.9 fc
 Type III - Medium - N/A

REPORT NUMBER: P836671
CATALOG NUMBER: ARCH3-60-722-U-T3

Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

REPORT NUMBER: P836671
 CATALOG NUMBER: ARCH3-60-722-U-T3

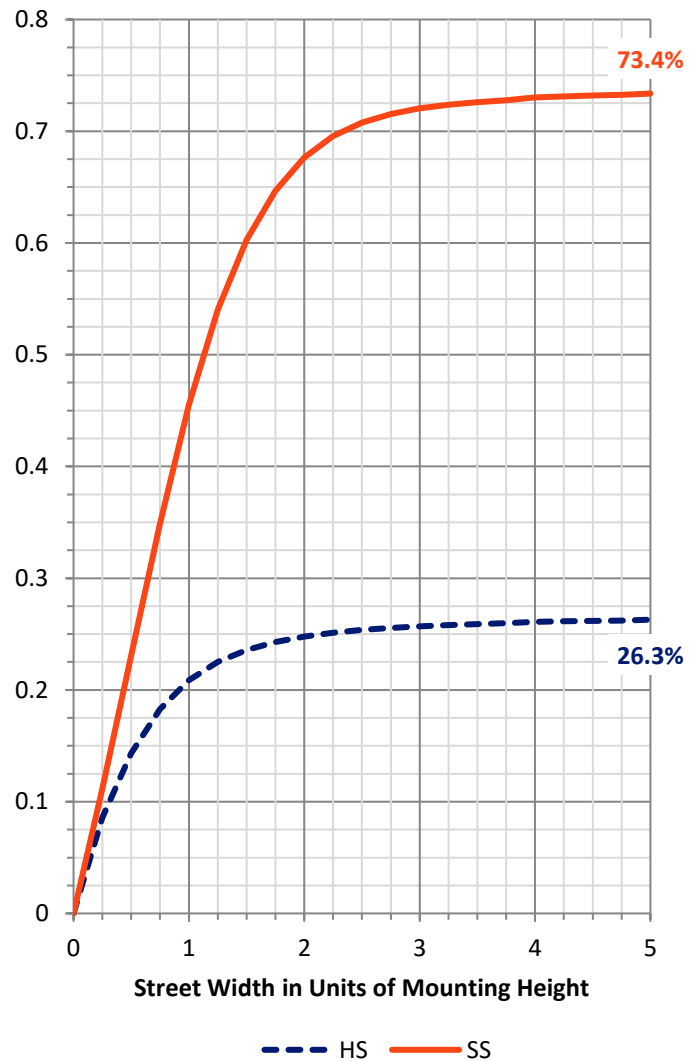
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2414.7	0.0	2414.7
	% Fixture	26.5	0.0	26.5
Street Side	Lumens	6698.3	0.0	6698.3
	% Fixture	73.5	0.0	73.5
Total	Lumens	9113.0	0.0	9113.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	158.0	1.7
10°-20°	474.1	5.2
20°-30°	794.7	8.7
30°-40°	1189.9	13.1
40°-50°	1590.9	17.5
50°-60°	1857.4	20.4
60°-70°	1846.9	20.3
70°-80°	1093.4	12.0
80°-90°	107.8	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°	9113.0	100.0
0°-180°	9113.0	100.0



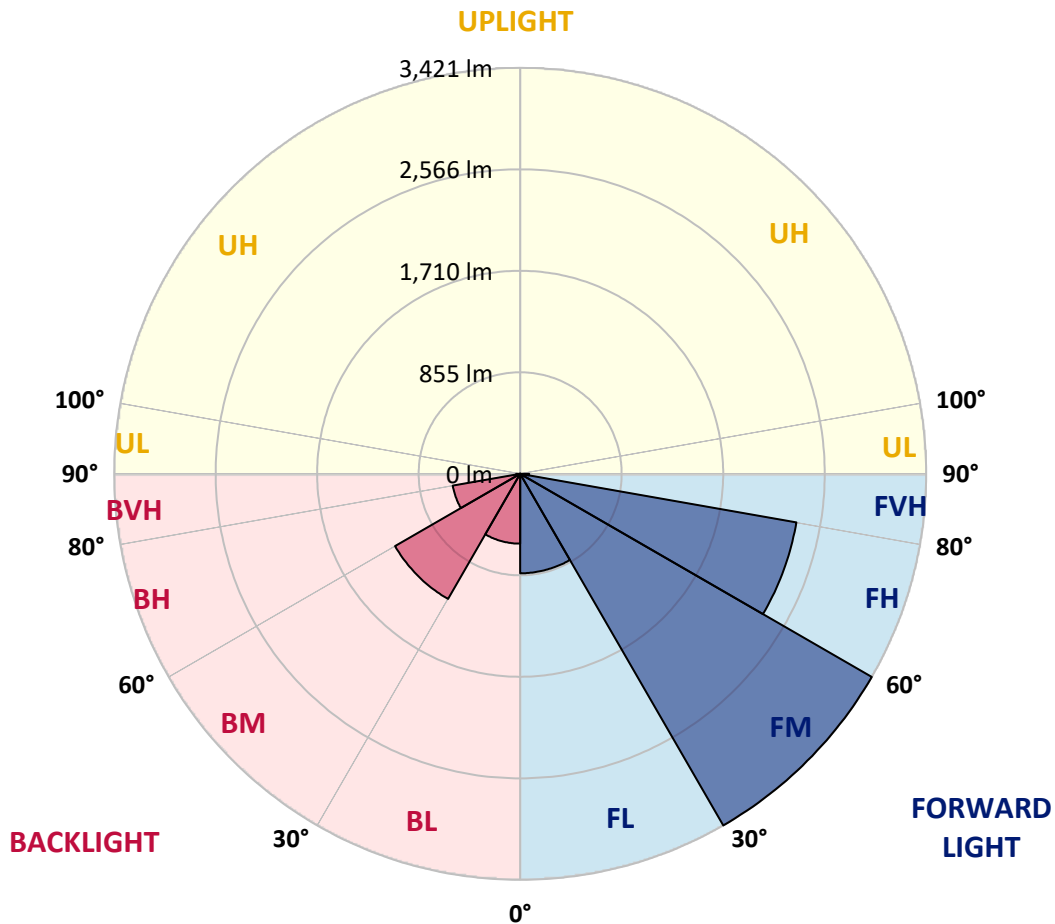
REPORT NUMBER: P836671
 CATALOG NUMBER: ARCH3-60-722-U-T3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	838.2	9.2			
FM (30°-60°)	3420.9	37.5			
FH (60°-80°)	2363.5	25.9			G2/5000
FVH (80°-90°)	75.7	0.8			G1/100
BL (0°-30°)	588.6	6.5	B2/1000		
BM (30°-60°)	1217.3	13.4	B2/2500		
BH (60°-80°)	576.8	6.3	B2/1000		G2/1000
BVH (80°-90°)	32.0	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: P836671
 CATALOG NUMBER: ARCH3-60-722-U-T3

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	1644.7	1644.7	1644.7	1644.7	1644.7	1644.7	1644.7	1644.7	1644.7	1644.7	1644.7
2.5°	1705.2	1702.5	1701.1	1695.7	1683.7	1689.0	1676.9	1668.9	1667.5	1648.7	1638.0
5°	1775.0	1773.7	1771.0	1762.9	1744.1	1746.8	1726.7	1711.9	1707.8	1678.3	1655.4
7.5°	1834.2	1831.5	1830.1	1819.4	1799.2	1797.9	1773.7	1752.2	1745.5	1705.2	1670.2
10°	1879.8	1875.8	1878.5	1867.7	1846.2	1842.2	1811.3	1783.1	1776.4	1725.3	1676.9
12.5°	1918.8	1916.1	1920.1	1910.7	1893.3	1889.2	1858.3	1822.1	1814.0	1754.9	1691.7
15°	1961.8	1952.4	1960.5	1956.4	1944.3	1943.0	1914.8	1874.5	1863.7	1792.5	1714.6
17.5°	1984.6	1979.3	1988.7	1990.0	1984.6	1994.1	1967.2	1918.8	1909.4	1827.4	1734.7
20°	2000.8	1992.7	2003.5	2011.5	2015.6	2034.4	2012.9	1965.8	1955.1	1861.0	1753.5
22.5°	2055.9	2038.4	2039.7	2045.1	2047.8	2074.7	2061.2	2015.6	2004.8	1902.7	1776.4
25°	2194.3	2159.3	2136.5	2120.4	2101.5	2124.4	2116.3	2072.0	2062.6	1952.4	1804.6
27.5°	2409.3	2364.9	2319.2	2272.2	2198.3	2188.9	2175.5	2135.1	2124.4	2002.1	1832.8
30°	2653.8	2609.5	2555.7	2480.5	2342.1	2269.5	2238.6	2194.3	2182.2	2046.5	1859.7
32.5°	2897.0	2858.1	2804.3	2712.9	2515.4	2367.6	2301.8	2256.1	2244.0	2094.8	1891.9
35°	3086.5	3062.3	3027.4	2913.1	2687.4	2483.2	2393.1	2338.0	2324.6	2171.4	1951.1
37.5°	3239.7	3222.2	3192.6	3073.0	2812.4	2598.7	2497.9	2434.8	2420.0	2254.7	2014.2
40°	3465.4	3419.7	3395.5	3222.2	2921.2	2703.5	2616.2	2550.3	2534.2	2343.4	2065.3
42.5°	3657.6	3624.0	3594.4	3355.2	3024.7	2793.6	2727.7	2667.2	2645.7	2430.8	2120.4
45°	3689.8	3703.2	3688.5	3421.1	3188.6	2882.2	2840.6	2801.6	2781.5	2549.0	2203.7
47.5°	3691.1	3691.1	3603.8	3458.7	3391.5	2981.7	2961.5	2975.0	2953.5	2699.5	2303.1
50°	3594.4	3611.9	3566.2	3468.1	3445.2	3081.1	3109.3	3181.9	3160.4	2859.4	2410.6
52.5°	3394.2	3452.0	3450.6	3453.3	3367.3	3165.8	3265.2	3430.5	3394.2	3039.4	2524.8
55°	3040.8	3156.4	3259.8	3348.5	3300.1	3216.8	3456.0	3695.2	3657.6	3241.0	2640.4
57.5°	2738.5	2812.4	2941.4	3192.6	3220.8	3261.2	3634.7	3972.0	3938.4	3464.1	2761.3
60°	2393.1	2495.3	2624.2	2981.7	3124.1	3318.9	3830.9	4242.1	4209.8	3689.8	2878.2
62.5°	1862.4	1994.1	2252.0	2657.8	2983.0	3355.2	3985.4	4479.9	4465.1	3903.4	2983.0
65°	1298.0	1414.9	1776.4	2260.1	2758.6	3339.1	4109.0	4692.2	4678.8	4078.1	3056.9
67.5°	757.8	893.6	1302.0	1819.4	2362.2	3227.6	4149.3	4817.2	4817.2	4184.3	3077.1
70°	432.7	495.8	858.6	1326.2	1811.3	2919.9	4036.5	4815.8	4838.7	4160.1	2993.8
72.5°	302.3	330.6	577.8	892.2	1228.1	2362.2	3740.9	4583.4	4614.3	3931.7	2708.9
75°	235.1	255.3	407.1	608.7	774.0	1604.4	3094.5	3864.5	3946.4	3351.2	2190.2
77.5°	178.7	193.5	237.8	380.3	495.8	921.8	2042.4	2534.2	2539.6	2051.8	1174.4
80°	130.3	145.1	158.6	232.5	263.4	431.3	771.3	1058.8	1029.3	993.0	635.6
82.5°	77.9	92.7	96.7	126.3	129.0	184.1	270.1	341.3	327.9	436.7	298.3
85°	33.6	47.0	49.7	57.8	55.1	75.2	107.5	90.0	80.6	92.7	64.5
87.5°	8.1	13.4	13.4	14.8	12.1	18.8	20.2	14.8	13.4	16.1	16.1
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: P836671
 CATALOG NUMBER: ARCH3-60-722-U-T3

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1644.7	1644.7	1644.7	1644.7	1644.7	1644.7	1644.7	1644.7	1644.7	1644.7	1644.7
2.5°	1635.3	1631.3	1632.6	1609.8	1603.0	1596.3	1592.3	1589.6	1586.9	1590.9	1595.0
5°	1647.4	1638.0	1627.2	1593.6	1580.2	1565.4	1554.7	1545.3	1541.2	1541.2	1545.3
7.5°	1656.8	1640.7	1617.8	1573.5	1549.3	1529.1	1511.7	1499.6	1492.9	1492.9	1496.9
10°	1658.1	1635.3	1599.0	1545.3	1513.0	1483.4	1463.3	1449.9	1440.4	1440.4	1443.1
12.5°	1666.2	1635.3	1588.3	1523.8	1483.4	1447.2	1423.0	1402.8	1398.8	1398.8	1401.5
15°	1679.6	1642.0	1581.5	1504.9	1456.6	1414.9	1388.0	1366.5	1358.5	1363.9	1365.2
17.5°	1691.7	1646.0	1569.4	1480.8	1423.0	1377.3	1347.7	1328.9	1318.2	1330.3	1330.3
20°	1699.8	1646.0	1552.0	1449.9	1386.7	1335.6	1307.4	1284.6	1276.5	1291.3	1292.6
22.5°	1711.9	1644.7	1533.2	1418.9	1347.7	1294.0	1265.8	1248.3	1244.3	1260.4	1265.8
25°	1725.3	1647.4	1513.0	1384.0	1304.7	1252.3	1230.8	1222.8	1225.5	1245.6	1252.3
27.5°	1740.1	1652.8	1492.9	1345.0	1257.7	1210.7	1198.6	1202.6	1213.4	1238.9	1247.0
30°	1753.5	1654.1	1464.6	1299.4	1204.0	1159.6	1165.0	1182.5	1198.6	1224.1	1233.5
32.5°	1771.0	1655.4	1435.1	1249.6	1146.2	1113.9	1138.1	1166.3	1182.5	1206.6	1217.4
35°	1814.0	1678.3	1412.2	1201.3	1092.4	1075.0	1115.3	1151.6	1161.0	1182.5	1191.9
37.5°	1863.7	1715.9	1400.1	1151.6	1040.0	1036.0	1087.1	1123.3	1126.0	1139.5	1148.9
40°	1894.6	1732.0	1386.7	1109.9	993.0	995.7	1048.1	1076.3	1070.9	1080.3	1087.1
42.5°	1925.5	1737.4	1358.5	1075.0	948.7	951.3	991.7	1011.8	1014.5	1034.6	1044.1
45°	1977.9	1752.2	1327.6	1042.7	908.3	898.9	923.1	950.0	984.9	1023.9	1034.6
47.5°	2047.8	1783.1	1295.3	1003.7	869.4	838.5	847.9	894.9	931.2	967.5	974.2
50°	2119.0	1814.0	1265.8	956.7	830.4	774.0	778.0	821.0	850.6	878.8	882.8
52.5°	2188.9	1840.9	1240.2	912.4	786.1	697.4	713.5	757.8	778.0	791.4	795.5
55°	2258.8	1863.7	1217.4	874.7	735.0	636.9	651.7	693.3	713.5	720.2	722.9
57.5°	2331.3	1890.6	1199.9	842.5	677.2	583.2	592.6	622.1	640.9	649.0	646.3
60°	2391.8	1913.4	1190.5	808.9	619.4	533.4	530.8	557.6	584.5	592.6	589.9
62.5°	2438.8	1928.2	1175.7	765.9	568.4	483.7	470.3	505.2	533.4	538.8	542.9
65°	2464.3	1929.6	1139.5	710.8	516.0	430.0	420.6	455.5	473.0	478.4	478.4
67.5°	2460.3	1908.1	1068.2	636.9	467.6	381.6	373.5	395.0	420.6	424.6	420.6
70°	2377.0	1819.4	954.0	559.0	409.8	338.6	323.8	345.3	369.5	354.7	348.0
72.5°	2140.5	1589.6	786.1	473.0	345.3	284.9	278.1	299.6	301.0	303.7	297.0
75°	1689.0	1183.8	588.5	368.2	279.5	239.2	237.8	233.8	239.2	249.9	241.9
77.5°	886.8	591.2	318.5	225.7	202.9	192.1	182.7	181.4	197.5	204.2	196.2
80°	481.0	331.9	182.7	135.7	123.6	125.0	137.1	134.4	151.8	155.9	149.2
82.5°	209.6	157.2	90.0	82.0	82.0	80.6	84.7	94.1	112.9	112.9	90.0
85°	45.7	39.0	34.9	40.3	45.7	45.7	45.7	45.7	32.2	17.5	12.1
87.5°	14.8	14.8	14.8	16.1	17.5	17.5	14.8	10.7	6.7	1.3	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)