

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: P842592

Luminaire Tested: **ARCH4-70-722-U-T4W**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P842592
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2310-189-19)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-70-722-U-T4W
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2200K, 605mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10976 lumens
Efficiency: N/A
Efficacy: 148.7 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G2

Input Watts (W): 73.8
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

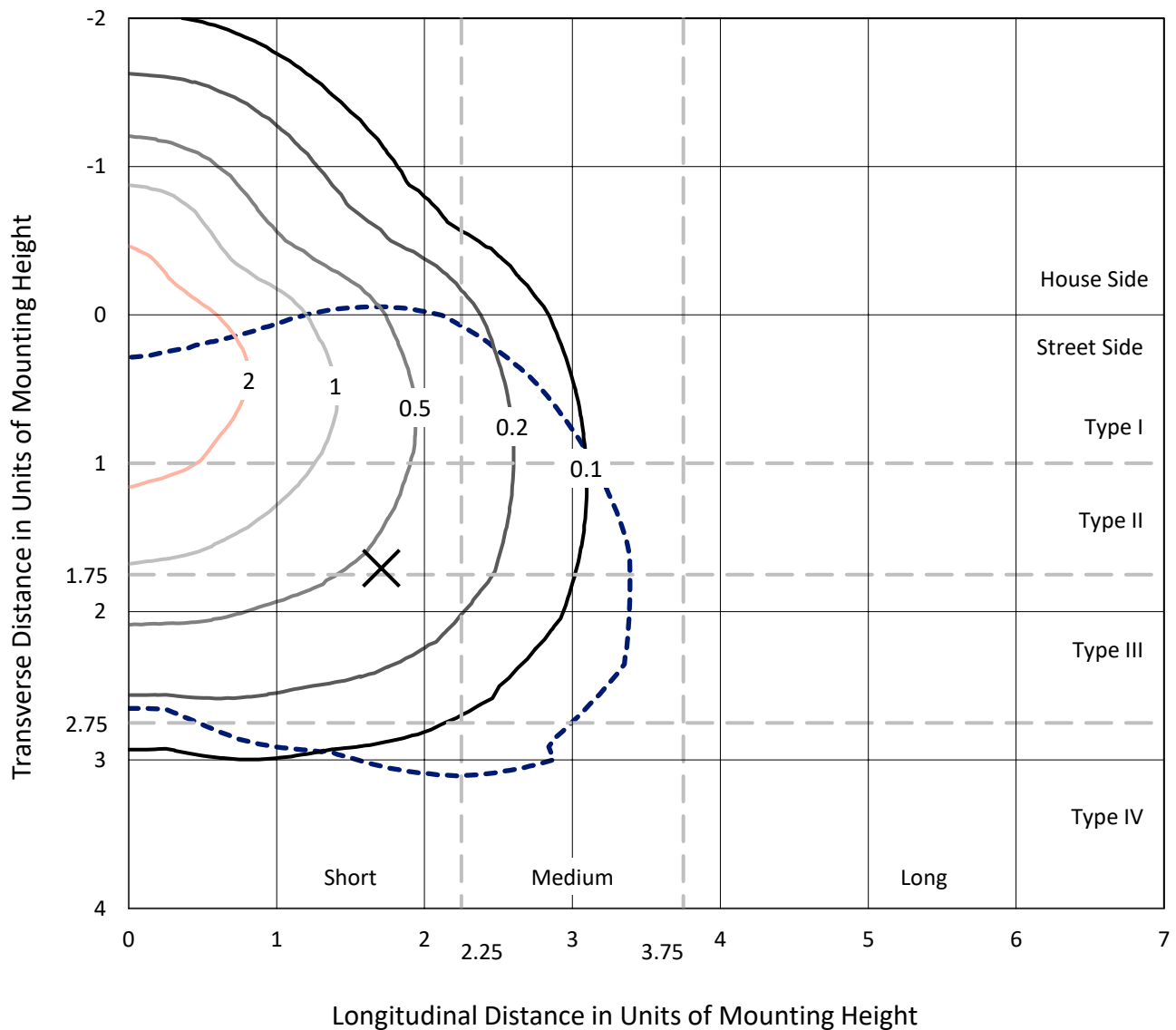


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Iso-Footcandle Lines of Horizontal Illumination

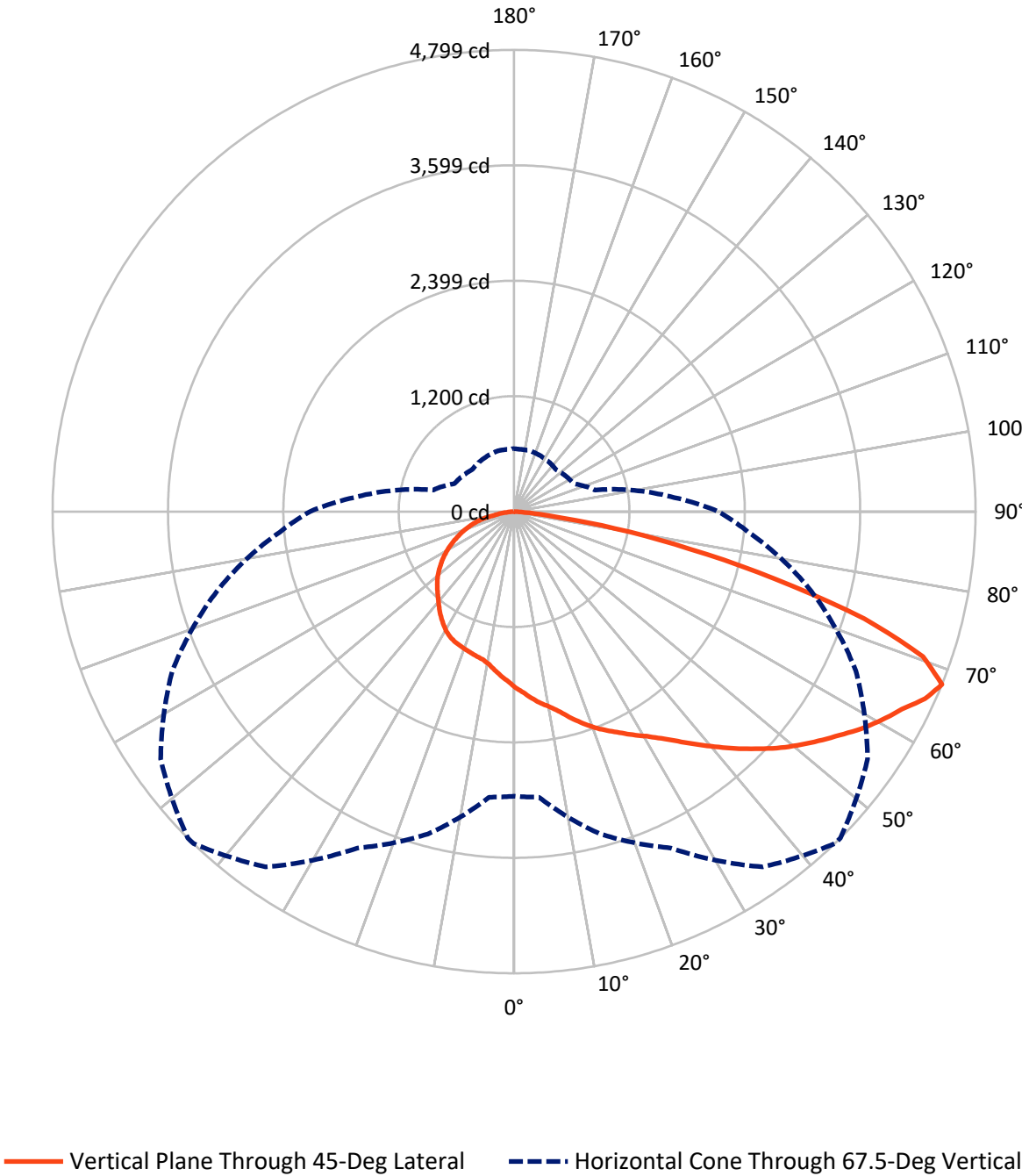
× Max cd
- - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2932.2	0.0	2932.2
	% Fixture	26.7	0.0	26.7
Street Side	Lumens	8043.7	0.0	8043.7
	% Fixture	73.3	0.0	73.3
Total	Lumens	10976.0	0.0	10976.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	175.3	1.6
10°-20°	541.4	4.9
20°-30°	934.6	8.5
30°-40°	1378.2	12.6
40°-50°	1867.1	17.0
50°-60°	2282.1	20.8
60°-70°	2353.7	21.4
70°-80°	1289.2	11.7
80°-90°	154.5	1.4
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°	10976.0	100.0
0°-180°	10976.0	100.0

Coefficient of Utilization



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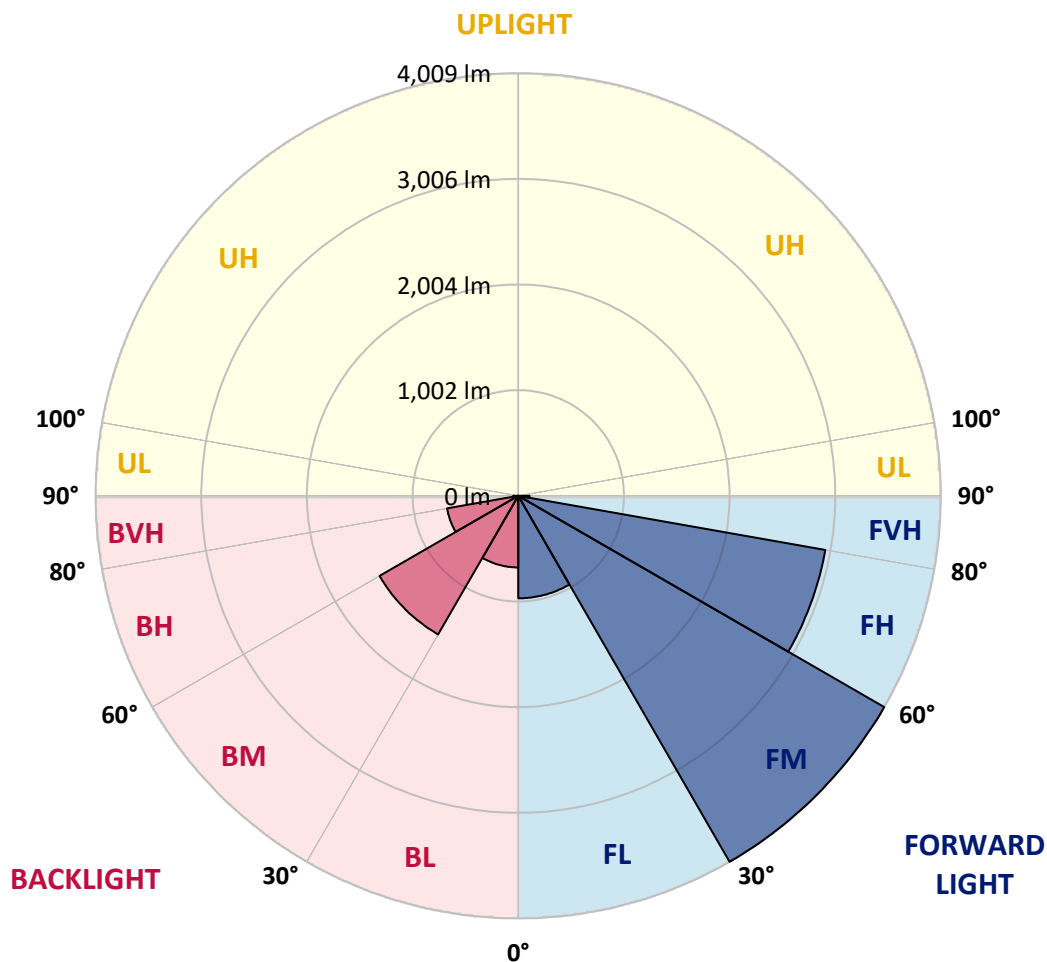
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	971.7	8.9			
FM	(30°-60°)	4008.5	36.5			
FH	(60°-80°)	2957.1	26.9			G2/5000
FVH	(80°-90°)	106.4	1.0			G2/225
BL	(0°-30°)	679.6	6.2	B2/1000		
BM	(30°-60°)	1518.9	13.8	B2/2500		
BH	(60°-80°)	685.7	6.2	B2/1000		G2/1000
BVH	(80°-90°)	48.1	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 IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	1830.6	1830.6	1830.6	1830.6	1830.6	1830.6	1830.6	1830.6	1830.6	1830.6	1830.6
2.5°	1910.8	1909.1	1912.4	1900.7	1885.7	1884.0	1884.0	1874.0	1862.3	1838.9	1820.6
5°	2001.0	1997.6	1999.3	1982.6	1962.5	1952.5	1950.8	1929.1	1902.4	1865.7	1832.3
7.5°	2084.5	2081.1	2079.5	2061.1	2031.0	2014.3	2012.6	1980.9	1949.2	1892.4	1844.0
10°	2163.0	2159.6	2156.3	2131.2	2094.5	2069.4	2066.1	2026.0	1985.9	1915.8	1854.0
12.5°	2263.2	2256.5	2253.2	2223.1	2169.6	2142.9	2137.9	2084.5	2034.4	1949.2	1874.0
15°	2368.4	2363.4	2358.4	2330.0	2269.9	2234.8	2226.4	2159.6	2091.1	1992.6	1904.1
17.5°	2446.9	2441.9	2441.9	2416.8	2361.7	2321.6	2315.0	2234.8	2149.6	2032.7	1927.5
20°	2495.3	2490.3	2495.3	2480.3	2438.6	2405.2	2398.5	2309.9	2208.1	2069.4	1947.5
22.5°	2530.4	2525.4	2533.8	2527.1	2497.0	2477.0	2472.0	2385.1	2268.2	2107.8	1967.5
25°	2592.2	2592.2	2592.2	2580.5	2552.1	2545.5	2545.5	2470.3	2345.0	2158.0	1997.6
27.5°	2715.8	2709.1	2700.8	2667.4	2618.9	2617.3	2627.3	2557.1	2433.5	2223.1	2034.4
30°	2897.9	2894.5	2862.8	2792.6	2710.8	2702.5	2709.1	2650.7	2528.8	2291.6	2076.1
32.5°	3133.4	3121.7	3056.5	2951.3	2834.4	2796.0	2809.4	2747.6	2629.0	2361.7	2116.2
35°	3300.4	3303.7	3257.0	3161.8	3023.1	2921.3	2931.3	2856.1	2737.5	2440.2	2166.3
37.5°	3492.5	3504.2	3434.0	3362.2	3233.6	3059.9	3069.9	2968.0	2846.1	2538.8	2219.8
40°	3758.1	3734.7	3616.1	3530.9	3388.9	3205.2	3213.6	3093.3	2971.4	2632.3	2281.6
42.5°	3980.2	3938.4	3794.8	3686.2	3515.9	3358.9	3367.2	3228.6	3098.3	2735.9	2350.0
45°	4299.2	4184.0	3976.9	3923.4	3646.1	3509.2	3517.5	3372.2	3231.9	2846.1	2423.5
47.5°	4484.6	4300.9	4168.9	4140.5	3789.8	3664.5	3674.5	3524.2	3375.6	2971.4	2500.4
50°	4472.9	4354.3	4315.9	4245.8	3916.7	3809.8	3819.9	3681.2	3520.9	3095.0	2573.8
52.5°	4396.1	4417.8	4397.8	4280.8	4043.7	3950.1	3961.8	3836.6	3669.5	3210.2	2642.3
55°	4514.7	4529.7	4491.3	4337.6	4184.0	4090.4	4103.8	4000.2	3816.5	3312.1	2700.8
57.5°	4656.6	4603.2	4564.8	4437.8	4329.3	4242.4	4257.5	4167.3	3943.4	3393.9	2745.9
60°	4650.0	4538.1	4576.5	4444.5	4427.8	4382.7	4396.1	4304.2	4040.3	3454.1	2764.3
62.5°	4307.6	4247.4	4441.2	4396.1	4508.0	4508.0	4524.7	4387.7	4098.8	3479.1	2754.2
65°	3713.0	3716.3	4057.0	4244.1	4603.2	4680.0	4693.4	4439.5	4065.4	3405.6	2660.7
67.5°	2958.0	2979.7	3469.1	3858.3	4508.0	4796.9	4798.6	4486.3	3921.7	3198.5	2443.6
70°	2164.6	2181.3	2759.2	3231.9	4058.7	4538.1	4511.3	4354.3	3609.4	2837.7	2104.5
72.5°	1463.1	1478.2	2072.8	2482.0	3330.5	3864.9	3806.5	3848.2	3076.6	2331.7	1692.0
75°	983.8	1002.1	1474.8	1775.5	2450.2	2934.6	2804.3	2914.6	2380.1	1765.4	1234.3
77.5°	619.7	631.4	937.0	1164.2	1673.6	1997.6	1867.3	1869.0	1371.3	950.4	663.1
80°	394.2	397.5	567.9	671.4	968.7	1200.9	1062.3	863.5	618.0	504.4	395.8
82.5°	228.8	223.8	339.1	379.1	461.0	456.0	377.5	357.4	270.6	252.2	202.1
85°	91.9	85.2	148.7	138.6	140.3	148.7	110.2	110.2	88.5	68.5	50.1
87.5°	18.4	18.4	20.0	18.4	18.4	20.0	15.0	15.0	13.4	13.4	13.4
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°	1830.6	1830.6	1830.6	1830.6	1830.6	1830.6	1830.6	1830.6	1830.6	1830.6	1830.6
2.5°	1817.2	1813.9	1805.5	1783.8	1772.1	1765.4	1755.4	1752.1	1750.4	1752.1	1757.1
5°	1822.2	1810.5	1787.2	1752.1	1728.7	1713.7	1697.0	1690.3	1685.3	1685.3	1690.3
7.5°	1825.6	1807.2	1767.1	1715.3	1681.9	1658.6	1638.5	1630.2	1628.5	1633.5	1635.2
10°	1827.2	1800.5	1743.7	1678.6	1635.2	1605.1	1585.1	1580.1	1585.1	1595.1	1596.8
12.5°	1838.9	1802.2	1730.4	1653.5	1601.8	1571.7	1556.7	1556.7	1570.0	1588.4	1590.1
15°	1859.0	1813.9	1723.7	1633.5	1580.1	1553.3	1548.3	1556.7	1576.7	1605.1	1608.4
17.5°	1874.0	1820.6	1708.7	1606.8	1551.7	1535.0	1543.3	1563.3	1591.7	1630.2	1633.5
20°	1884.0	1820.6	1686.9	1575.0	1523.3	1519.9	1543.3	1575.0	1605.1	1650.2	1655.2
22.5°	1894.1	1817.2	1661.9	1536.6	1491.5	1501.6	1545.0	1585.1	1615.1	1663.6	1671.9
25°	1912.4	1822.2	1636.8	1498.2	1458.1	1486.5	1543.3	1591.7	1623.5	1673.6	1686.9
27.5°	1937.5	1833.9	1618.5	1463.1	1424.7	1463.1	1531.6	1590.1	1623.5	1671.9	1686.9
30°	1964.2	1847.3	1596.8	1424.7	1386.3	1429.7	1506.6	1571.7	1610.1	1655.2	1673.6
32.5°	1992.6	1862.3	1578.4	1383.0	1339.5	1384.6	1469.8	1543.3	1585.1	1626.8	1646.9
35°	2031.0	1889.0	1568.4	1349.6	1297.8	1337.9	1423.0	1506.6	1551.7	1590.1	1613.5
37.5°	2077.8	1922.5	1563.3	1316.2	1252.7	1286.1	1372.9	1461.5	1509.9	1541.6	1563.3
40°	2131.2	1964.2	1561.7	1284.4	1207.6	1232.6	1321.2	1409.7	1456.5	1481.5	1499.9
42.5°	2191.4	2011.0	1558.3	1252.7	1162.5	1182.5	1271.1	1357.9	1398.0	1419.7	1436.4
45°	2254.8	2057.7	1551.7	1214.3	1114.1	1137.4	1219.3	1296.1	1337.9	1356.2	1374.6
47.5°	2318.3	2104.5	1538.3	1170.8	1070.6	1092.3	1164.2	1231.0	1264.4	1281.1	1299.5
50°	2380.1	2146.3	1506.6	1120.7	1025.5	1045.6	1100.7	1145.8	1170.8	1184.2	1202.6
52.5°	2435.2	2174.7	1461.5	1062.3	980.4	990.5	1027.2	1065.6	1085.7	1087.3	1104.0
55°	2482.0	2189.7	1396.3	1002.1	932.0	933.7	953.7	983.8	992.1	985.4	997.1
57.5°	2508.7	2181.3	1324.5	940.3	881.9	875.2	890.2	905.3	906.9	890.2	901.9
60°	2515.4	2142.9	1231.0	878.5	831.8	813.4	818.4	815.1	811.7	805.1	815.1
62.5°	2482.0	2061.1	1127.4	818.4	778.3	749.9	748.3	746.6	751.6	753.3	755.0
65°	2360.1	1907.4	1003.8	756.6	721.5	683.1	681.5	701.5	708.2	698.2	701.5
67.5°	2124.6	1671.9	868.5	684.8	649.7	616.3	629.7	641.4	653.1	649.7	653.1
70°	1790.5	1372.9	744.9	604.6	571.2	552.9	567.9	577.9	579.6	576.2	579.6
72.5°	1408.0	1072.3	629.7	522.8	492.7	484.4	502.7	511.1	526.1	532.8	534.5
75°	1017.2	791.7	516.1	434.3	409.2	409.2	425.9	440.9	454.3	446.0	440.9
77.5°	567.9	472.7	370.8	299.0	304.0	327.4	334.0	350.8	364.1	362.4	359.1
80°	344.1	295.6	250.5	193.7	192.1	210.5	253.9	282.3	289.0	273.9	272.2
82.5°	178.7	155.3	133.6	108.6	120.3	140.3	147.0	177.0	195.4	188.7	197.1
85°	45.1	43.4	48.4	50.1	61.8	68.5	75.2	88.5	58.5	28.4	28.4
87.5°	13.4	13.4	16.7	16.7	21.7	26.7	25.1	25.1	13.4	1.7	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)