

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: P836691

Luminaire Tested: **ARCH3-60-730-U-T4W**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P836691
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2310-189-19)
Test Lab: INNOVATION CENTER
Issue Date: 5/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH3-60-730-U-T4W
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 3000K, 505mA LIGHTSQUARE WITH 40 LEDS AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10153 lumens
Efficiency: N/A
Efficacy: 160.6 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type IV - Short
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



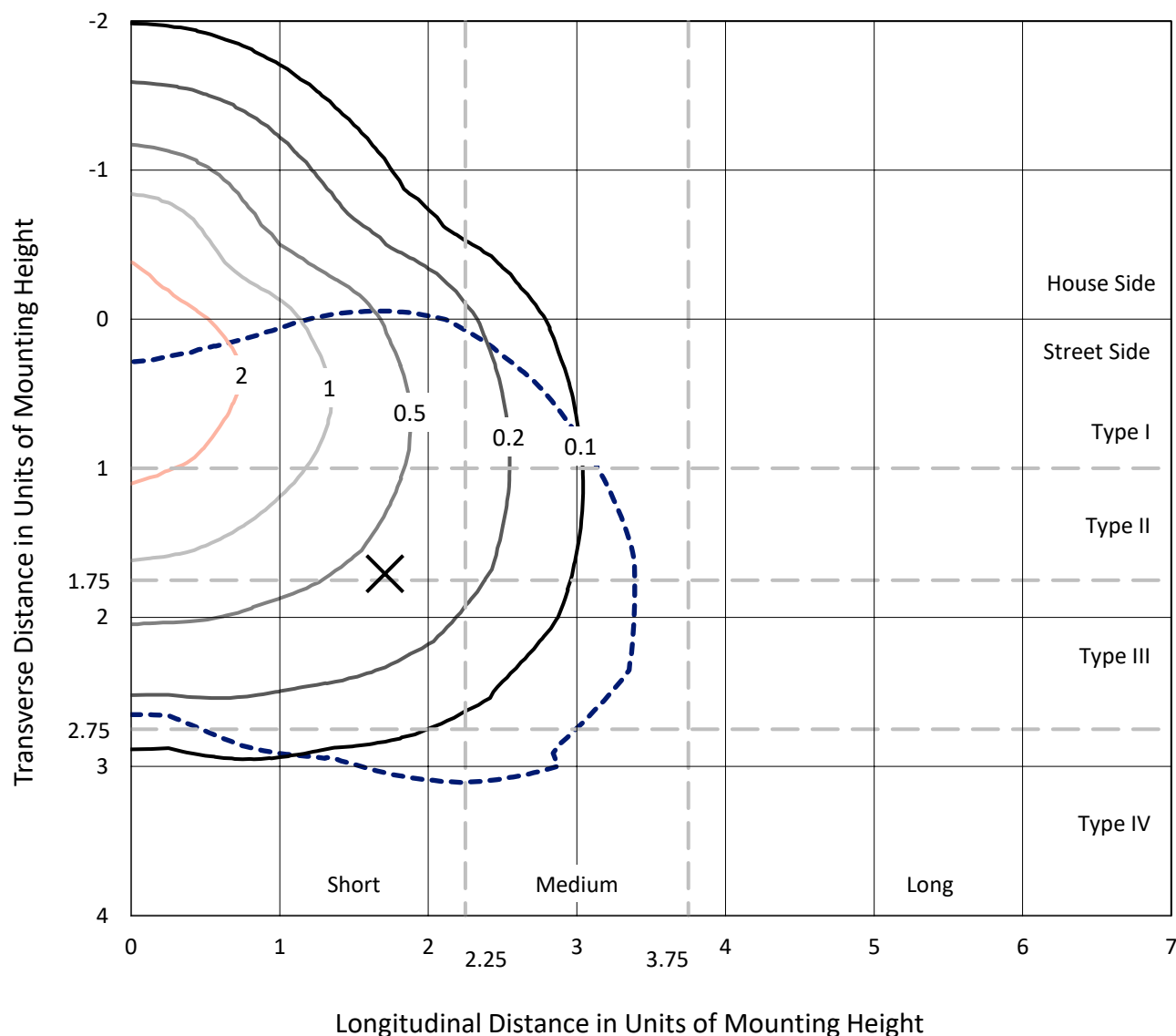
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

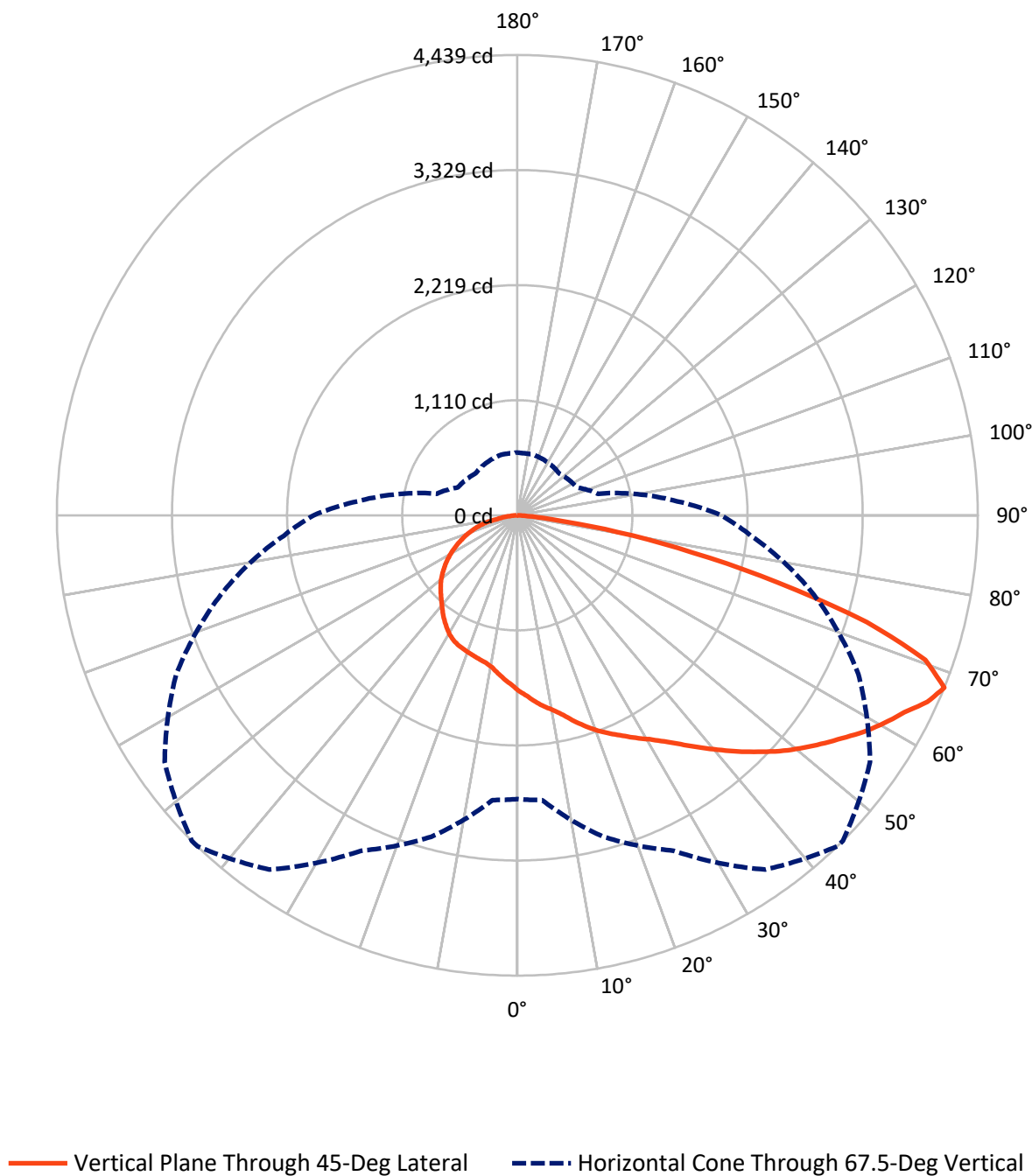


Based on 25 foot mounting height. Maximum calculated value = 3.1 fc

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	2712.4	0.0	2712.4
	% Fixture	26.7	0.0	26.7
Street Side	Lumens	7440.6	0.0	7440.6
	% Fixture	73.3	0.0	73.3
Total	Lumens	10153.0	0.0	10153.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	162.1	1.6
10°-20°	500.8	4.9
20°-30°	864.5	8.5
30°-40°	1274.8	12.6
40°-50°	1727.1	17.0
50°-60°	2111.0	20.8
60°-70°	2177.2	21.4
70°-80°	1192.5	11.7
80°-90°	142.9	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°	10153.0	100.0
0°-180°	10153.0	100.0

Coefficient of Utilization



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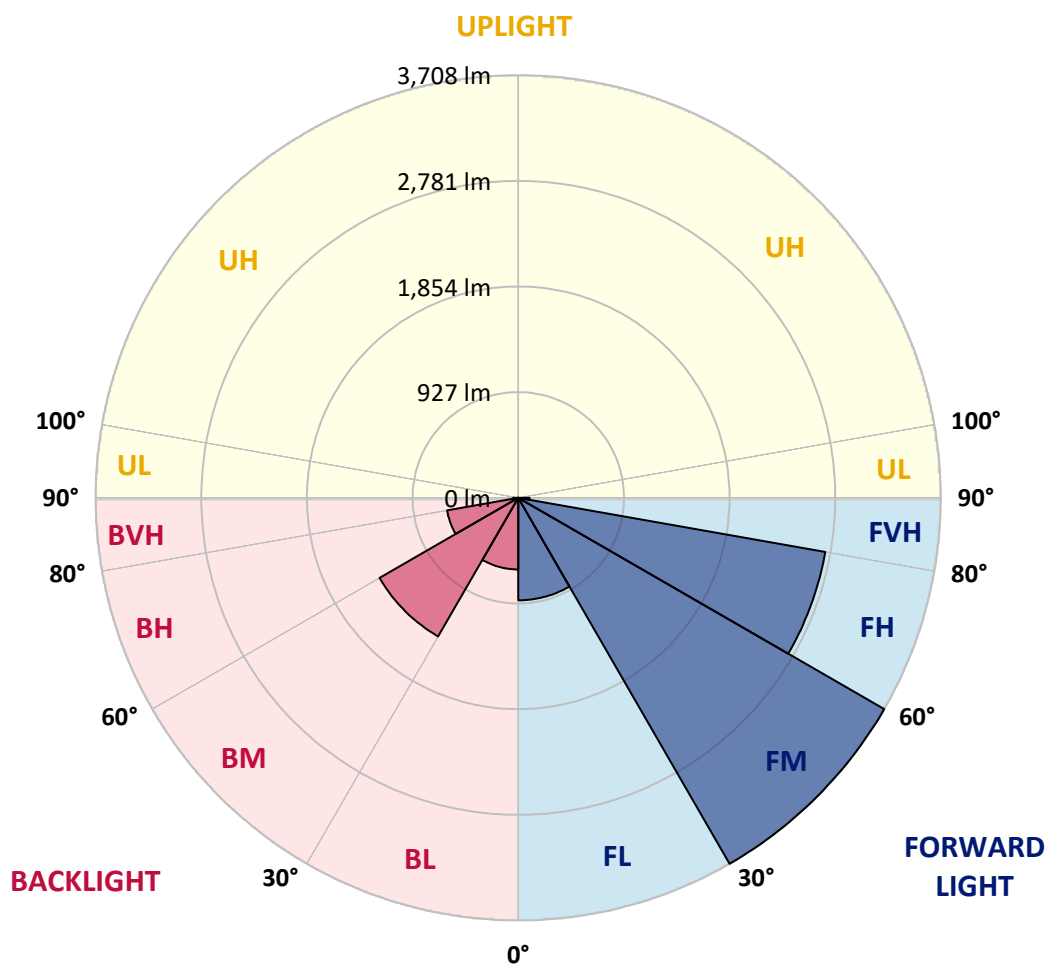
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	898.8	8.9			
FM	(30°-60°)	3708.0	36.5			
FH	(60°-80°)	2735.4	26.9			G2/5000
FVH	(80°-90°)	98.5	1.0			G1/100
BL	(0°-30°)	628.6	6.2	B2/1000		
BM	(30°-60°)	1405.0	13.8	B2/2500		
BH	(60°-80°)	634.3	6.2	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 IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	1693.3	1693.3	1693.3	1693.3	1693.3	1693.3	1693.3	1693.3	1693.3	1693.3	1693.3
2.5°	1767.5	1765.9	1769.0	1758.2	1744.3	1742.8	1742.8	1733.5	1722.7	1701.1	1684.1
5°	1850.9	1847.8	1849.4	1833.9	1815.4	1806.1	1804.6	1784.5	1759.8	1725.8	1694.9
7.5°	1928.2	1925.1	1923.5	1906.5	1878.7	1863.3	1861.7	1832.4	1803.0	1750.5	1705.7
10°	2000.8	1997.7	1994.6	1971.4	1937.4	1914.3	1911.2	1874.1	1837.0	1772.1	1715.0
12.5°	2093.5	2087.3	2084.2	2056.4	2007.0	1982.2	1977.6	1928.2	1881.8	1803.0	1733.5
15°	2190.8	2186.2	2181.6	2155.3	2099.7	2067.2	2059.5	1997.7	1934.3	1843.2	1761.3
17.5°	2263.4	2258.8	2258.8	2235.6	2184.6	2147.6	2141.4	2067.2	1988.4	1880.3	1782.9
20°	2308.2	2303.6	2308.2	2294.3	2255.7	2224.8	2218.6	2136.7	2042.5	1914.3	1801.5
22.5°	2340.7	2336.1	2343.8	2337.6	2309.8	2291.2	2286.6	2206.3	2098.1	1949.8	1820.0
25°	2397.9	2397.9	2397.9	2387.0	2360.8	2354.6	2354.6	2285.1	2169.2	1996.1	1847.8
27.5°	2512.2	2506.0	2498.3	2467.4	2422.6	2421.0	2430.3	2365.4	2251.1	2056.4	1881.8
30°	2680.6	2677.5	2648.1	2583.3	2507.5	2499.8	2506.0	2451.9	2339.1	2119.7	1920.4
32.5°	2898.4	2887.6	2827.4	2730.0	2621.9	2586.3	2598.7	2541.5	2431.8	2184.6	1957.5
35°	3052.9	3056.0	3012.8	2924.7	2796.5	2702.2	2711.5	2642.0	2532.3	2257.3	2003.9
37.5°	3230.6	3241.4	3176.5	3110.1	2991.1	2830.5	2839.7	2745.5	2632.7	2348.4	2053.3
40°	3476.3	3454.6	3344.9	3266.1	3134.8	2964.9	2972.6	2861.4	2748.6	2434.9	2110.5
42.5°	3681.8	3643.1	3510.3	3409.8	3252.2	3107.0	3114.7	2986.5	2866.0	2530.7	2173.8
45°	3976.8	3870.2	3678.7	3629.2	3372.8	3246.1	3253.8	3119.4	2989.6	2632.7	2241.8
47.5°	4148.3	3978.4	3856.3	3830.1	3505.6	3389.7	3399.0	3260.0	3122.5	2748.6	2312.9
50°	4137.5	4027.8	3992.3	3927.4	3623.0	3524.2	3533.4	3405.2	3256.9	2862.9	2380.9
52.5°	4066.5	4086.5	4068.0	3959.9	3740.5	3653.9	3664.8	3548.9	3394.4	2969.5	2444.2
55°	4176.2	4190.1	4154.5	4012.4	3870.2	3783.7	3796.1	3700.3	3530.3	3063.7	2498.3
57.5°	4307.5	4258.0	4222.5	4105.1	4004.7	3924.3	3938.2	3854.8	3647.8	3139.5	2540.0
60°	4301.3	4197.8	4233.3	4111.3	4095.8	4054.1	4066.5	3981.5	3737.4	3195.1	2557.0
62.5°	3984.6	3929.0	4108.2	4066.5	4170.0	4170.0	4185.4	4058.7	3791.4	3218.2	2547.7
65°	3434.6	3437.6	3752.8	3925.9	4258.0	4329.1	4341.5	4106.6	3760.5	3150.3	2461.2
67.5°	2736.2	2756.3	3209.0	3569.0	4170.0	4437.3	4438.8	4149.9	3627.7	2958.7	2260.3
70°	2002.3	2017.8	2552.4	2989.6	3754.4	4197.8	4173.1	4027.8	3338.8	2625.0	1946.7
72.5°	1353.4	1367.3	1917.4	2295.9	3080.7	3575.1	3521.1	3559.7	2845.9	2156.8	1565.1
75°	910.0	927.0	1364.2	1642.3	2266.5	2714.6	2594.1	2696.0	2201.6	1633.1	1141.8
77.5°	573.2	584.0	866.7	1076.9	1548.1	1847.8	1727.3	1728.9	1268.5	879.1	613.4
80°	364.6	367.7	525.3	621.1	896.1	1110.9	982.6	798.8	571.7	466.6	366.2
82.5°	211.7	207.0	313.6	350.7	426.4	421.8	349.2	330.6	250.3	233.3	186.9
85°	85.0	78.8	137.5	128.2	129.8	137.5	102.0	102.0	81.9	63.3	46.4
87.5°	17.0	17.0	18.5	17.0	17.0	18.5	13.9	13.9	12.4	12.4	12.4
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°	1693.3	1693.3	1693.3	1693.3	1693.3	1693.3	1693.3	1693.3	1693.3	1693.3	1693.3
2.5°	1681.0	1677.9	1670.2	1650.1	1639.3	1633.1	1623.8	1620.7	1619.2	1620.7	1625.3
5°	1685.6	1674.8	1653.2	1620.7	1599.1	1585.2	1569.7	1563.5	1558.9	1558.9	1563.5
7.5°	1688.7	1671.7	1634.6	1586.7	1555.8	1534.2	1515.7	1507.9	1506.4	1511.0	1512.6
10°	1690.2	1665.5	1613.0	1552.7	1512.6	1484.8	1466.2	1461.6	1466.2	1475.5	1477.0
12.5°	1701.1	1667.1	1600.6	1529.6	1481.7	1453.9	1439.9	1439.9	1452.3	1469.3	1470.8
15°	1719.6	1677.9	1594.4	1511.0	1461.6	1436.9	1432.2	1439.9	1458.5	1484.8	1487.8
17.5°	1733.5	1684.1	1580.5	1486.3	1435.3	1419.9	1427.6	1446.1	1472.4	1507.9	1511.0
20°	1742.8	1684.1	1560.5	1456.9	1409.0	1406.0	1427.6	1456.9	1484.8	1526.5	1531.1
22.5°	1752.0	1681.0	1537.3	1421.4	1379.7	1389.0	1429.1	1466.2	1494.0	1538.8	1546.6
25°	1769.0	1685.6	1514.1	1385.9	1348.8	1375.1	1427.6	1472.4	1501.7	1548.1	1560.5
27.5°	1792.2	1696.4	1497.1	1353.4	1317.9	1353.4	1416.8	1470.8	1501.7	1546.6	1560.5
30°	1816.9	1708.8	1477.0	1317.9	1282.4	1322.5	1393.6	1453.9	1489.4	1531.1	1548.1
32.5°	1843.2	1722.7	1460.0	1279.3	1239.1	1280.8	1359.6	1427.6	1466.2	1504.8	1523.4
35°	1878.7	1747.4	1450.8	1248.4	1200.5	1237.6	1316.3	1393.6	1435.3	1470.8	1492.5
37.5°	1922.0	1778.3	1446.1	1217.5	1158.8	1189.7	1270.0	1351.9	1396.7	1426.0	1446.1
40°	1971.4	1816.9	1444.6	1188.1	1117.0	1140.2	1222.1	1304.0	1347.2	1370.4	1387.4
42.5°	2027.0	1860.2	1441.5	1158.8	1075.3	1093.9	1175.8	1256.1	1293.2	1313.3	1328.7
45°	2085.8	1903.4	1435.3	1123.2	1030.5	1052.1	1127.9	1198.9	1237.6	1254.5	1271.5
47.5°	2144.5	1946.7	1423.0	1083.1	990.3	1010.4	1076.9	1138.7	1169.6	1185.0	1202.0
50°	2201.6	1985.3	1393.6	1036.7	948.6	967.2	1018.2	1059.9	1083.1	1095.4	1112.4
52.5°	2252.6	2011.6	1351.9	982.6	906.9	916.2	950.2	985.7	1004.3	1005.8	1021.2
55°	2295.9	2025.5	1291.6	927.0	862.1	863.7	882.2	910.0	917.7	911.6	922.4
57.5°	2320.6	2017.8	1225.2	869.8	815.8	809.6	823.5	837.4	838.9	823.5	834.3
60°	2326.8	1982.2	1138.7	812.7	769.4	752.4	757.1	754.0	750.9	744.7	754.0
62.5°	2295.9	1906.5	1042.9	757.1	720.0	693.7	692.2	690.6	695.3	696.8	698.3
65°	2183.1	1764.4	928.5	699.9	667.4	631.9	630.4	648.9	655.1	645.8	648.9
67.5°	1965.2	1546.6	803.4	633.5	601.0	570.1	582.5	593.3	604.1	601.0	604.1
70°	1656.2	1270.0	689.1	559.3	528.4	511.4	525.3	534.6	536.1	533.0	536.1
72.5°	1302.4	991.9	582.5	483.6	455.8	448.1	465.0	472.8	486.7	492.9	494.4
75°	940.9	732.3	477.4	401.7	378.5	378.5	394.0	407.9	420.2	412.5	407.9
77.5°	525.3	437.2	343.0	276.6	281.2	302.8	309.0	324.5	336.8	335.3	332.2
80°	318.3	273.5	231.8	179.2	177.7	194.7	234.8	261.1	267.3	253.4	251.8
82.5°	165.3	143.7	123.6	100.4	111.2	129.8	136.0	163.8	180.8	174.6	182.3
85°	41.7	40.2	44.8	46.4	57.2	63.3	69.5	81.9	54.1	26.3	26.3
87.5°	12.4	12.4	15.5	15.5	20.1	24.7	23.2	23.2	12.4	1.5	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)