

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: P842538

Luminaire Tested: **ARCH4-60-730-U-T4W**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P842538
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: ARCH4-60-730-U-T4W
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 520mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10823 lumens
Efficiency: N/A
Efficacy: 171.8 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): 63
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



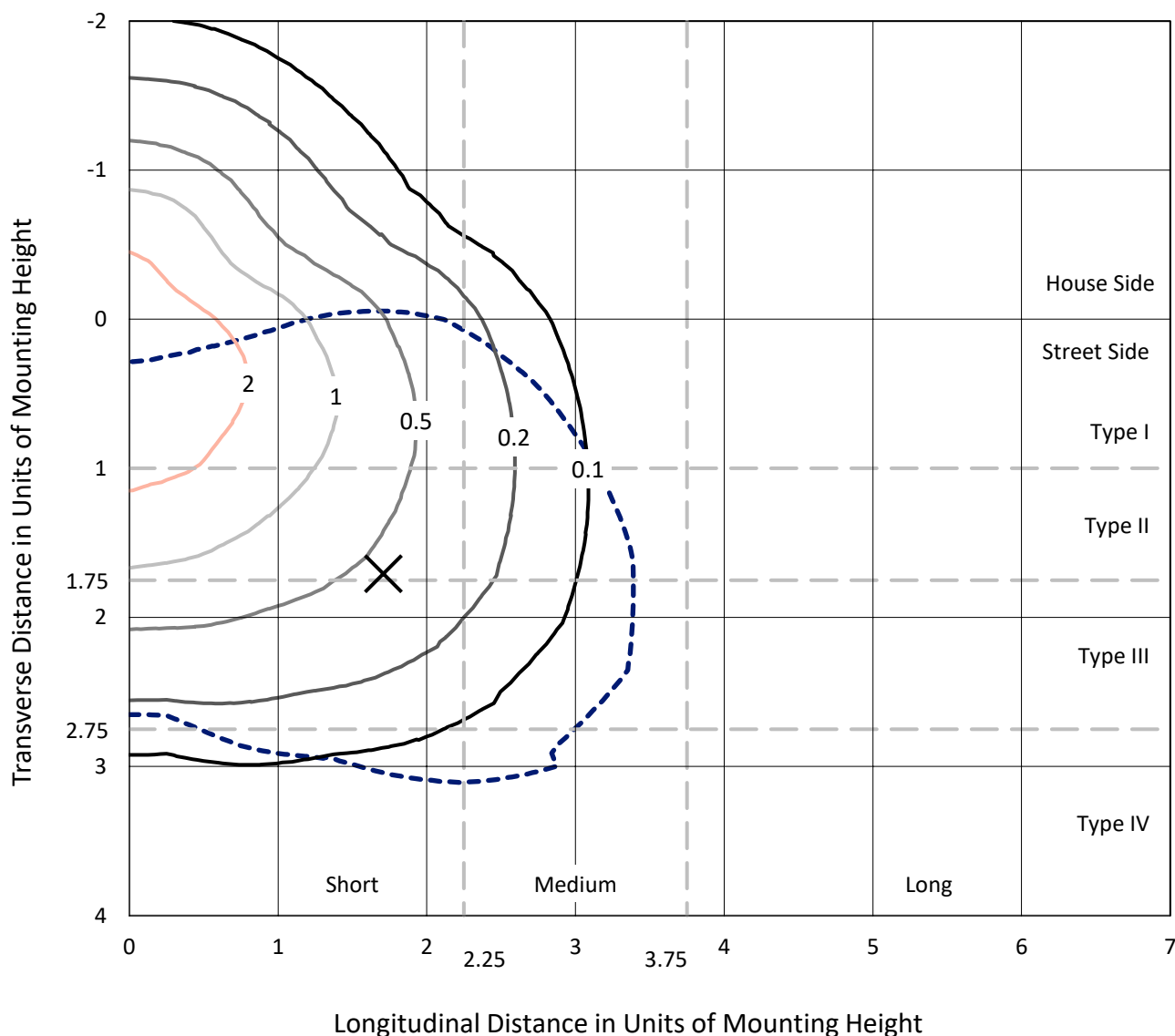
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

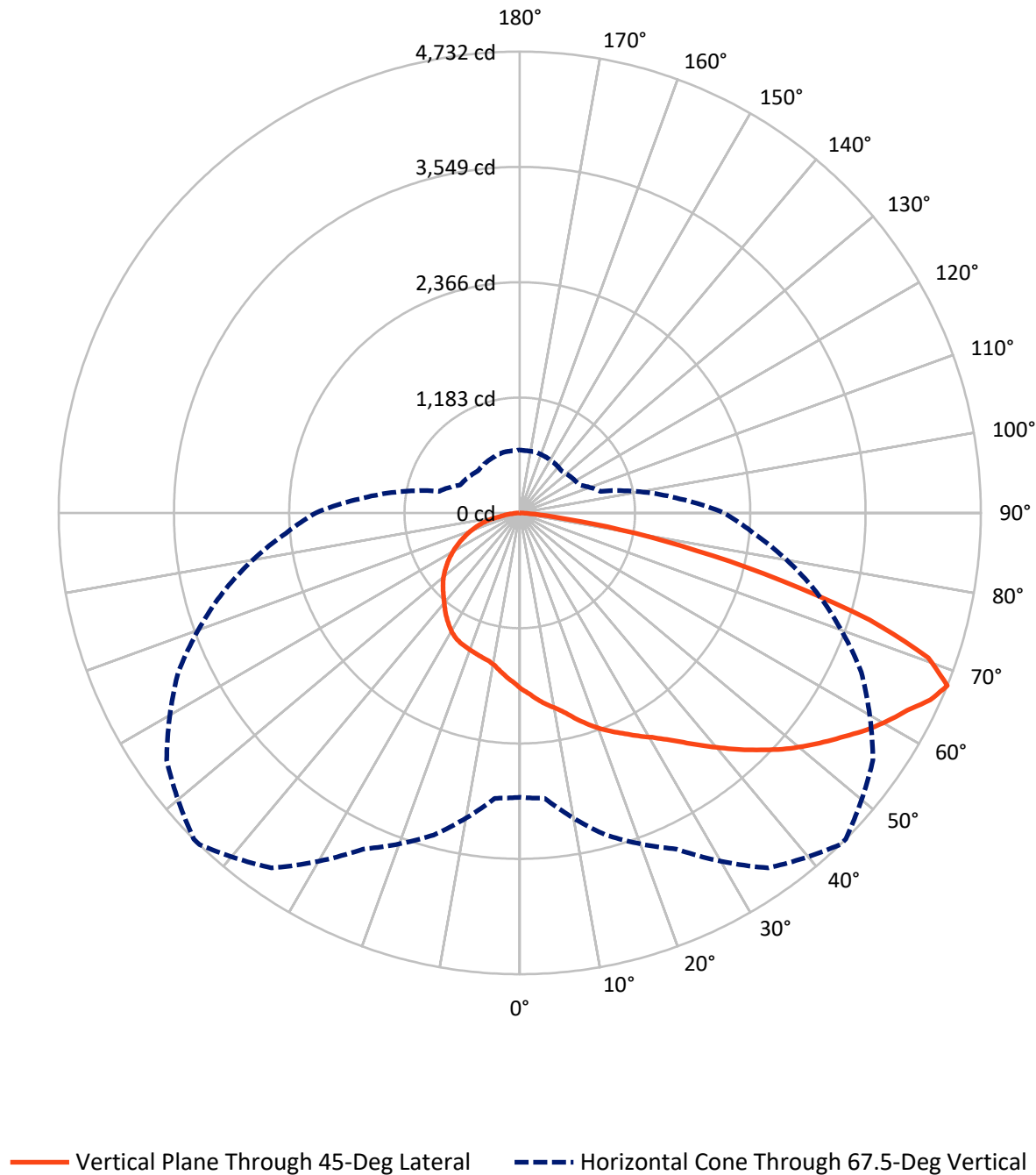


Based on 25 foot mounting height. Maximum calculated value = 3.4 fc

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	2891.4	0.0	2891.4
	% Fixture	26.7	0.0	26.7
Street Side	Lumens	7931.6	0.0	7931.6
	% Fixture	73.3	0.0	73.3
Total	Lumens	10823.0	0.0	10823.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	172.8	1.6
10°-20°	533.9	4.9
20°-30°	921.5	8.5
30°-40°	1359.0	12.6
40°-50°	1841.1	17.0
50°-60°	2250.3	20.8
60°-70°	2320.8	21.4
70°-80°	1271.2	11.7
80°-90°	152.4	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°	10823.0	100.0
0°-180°	10823.0	100.0

Coefficient of Utilization



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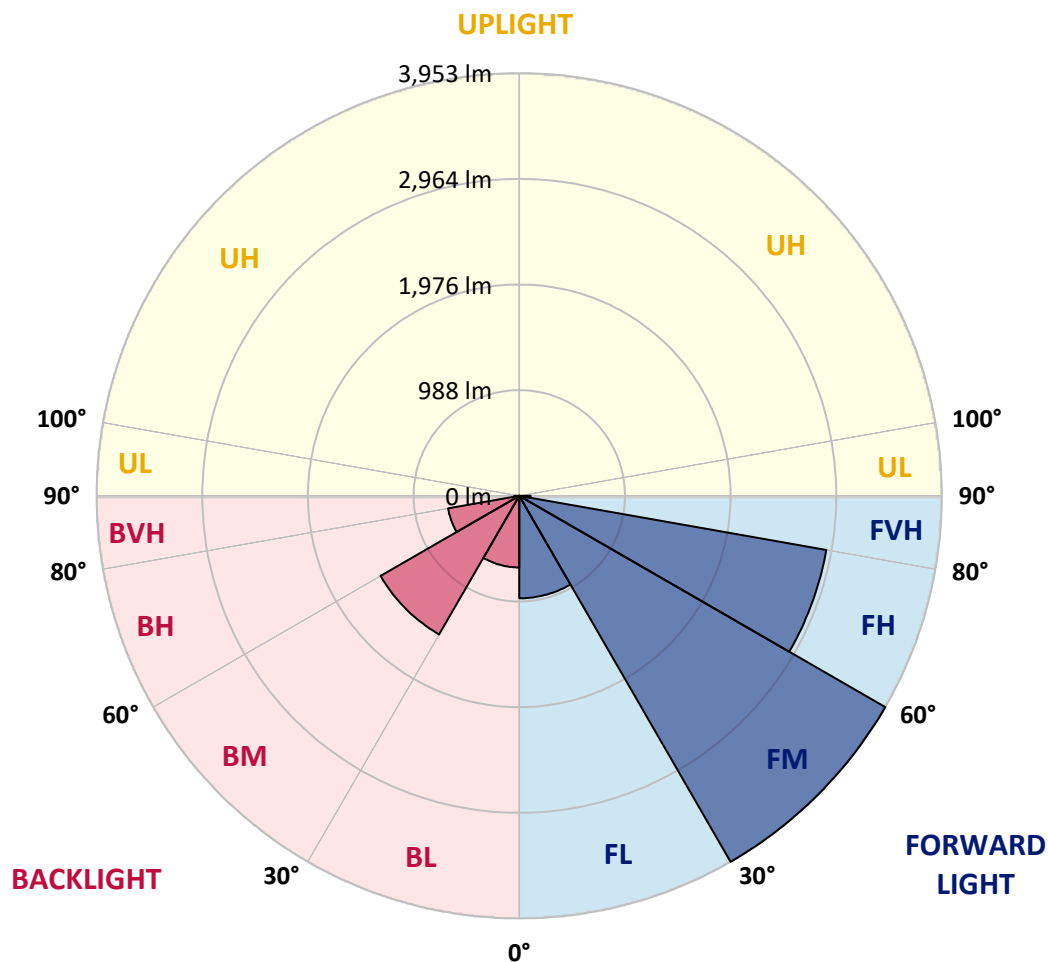
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	958.1	8.9			
FM	(30°-60°)	3952.7	36.5			
FH	(60°-80°)	2915.9	26.9			G2/5000
FVH	(80°-90°)	105.0	1.0			G2/225
BL	(0°-30°)	670.1	6.2	B2/1000		
BM	(30°-60°)	1497.7	13.8	B2/2500		
BH	(60°-80°)	676.2	6.2	B2/1000		G2/1000
BVH	(80°-90°)	47.4	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°	1805.1	1805.1	1805.1	1805.1	1805.1	1805.1	1805.1	1805.1	1805.1	1805.1	1805.1
2.5°	1884.1	1882.5	1885.8	1874.2	1859.4	1857.8	1857.8	1847.9	1836.4	1813.3	1795.2
5°	1973.1	1969.8	1971.4	1954.9	1935.2	1925.3	1923.7	1902.2	1875.9	1839.7	1806.7
7.5°	2055.4	2052.1	2050.5	2032.4	2002.7	1986.2	1984.6	1953.3	1922.0	1866.0	1818.2
10°	2132.8	2129.5	2126.2	2101.5	2065.3	2040.6	2037.3	1997.8	1958.2	1889.1	1828.1
12.5°	2231.6	2225.0	2221.8	2192.1	2139.4	2113.1	2108.1	2055.4	2006.0	1922.0	1847.9
15°	2335.4	2330.5	2325.5	2297.5	2238.2	2203.6	2195.4	2129.5	2062.0	1964.8	1877.5
17.5°	2412.8	2407.9	2407.9	2383.2	2328.8	2289.3	2282.7	2203.6	2119.6	2004.4	1900.6
20°	2460.6	2455.6	2460.6	2445.7	2404.6	2371.6	2365.0	2277.7	2177.3	2040.6	1920.4
22.5°	2495.1	2490.2	2498.4	2491.9	2462.2	2442.4	2437.5	2351.9	2236.6	2078.5	1940.1
25°	2556.1	2556.1	2556.1	2544.6	2516.6	2510.0	2510.0	2435.9	2312.3	2127.9	1969.8
27.5°	2678.0	2671.4	2663.1	2630.2	2582.4	2580.8	2590.7	2521.5	2399.6	2192.1	2006.0
30°	2857.5	2854.2	2822.9	2753.7	2673.0	2664.8	2671.4	2613.7	2493.5	2259.6	2047.2
32.5°	3089.7	3078.2	3013.9	2910.2	2794.9	2757.0	2770.2	2709.3	2592.3	2328.8	2086.7
35°	3254.4	3257.7	3211.6	3117.7	2981.0	2880.5	2890.4	2816.3	2699.4	2406.2	2136.1
37.5°	3443.8	3455.3	3386.2	3315.3	3188.5	3017.2	3027.1	2926.7	2806.4	2503.4	2188.8
40°	3705.7	3682.6	3565.7	3481.7	3341.7	3160.5	3168.8	3050.2	2929.9	2595.6	2249.8
42.5°	3924.7	3883.5	3741.9	3634.8	3466.9	3312.0	3320.3	3183.6	3055.1	2697.7	2317.3
45°	4239.3	4125.6	3921.4	3868.7	3595.3	3460.3	3468.5	3325.2	3186.9	2806.4	2389.7
47.5°	4422.1	4240.9	4110.8	4082.8	3737.0	3613.4	3623.3	3475.1	3328.5	2929.9	2465.5
50°	4410.6	4293.6	4255.8	4186.6	3862.1	3756.7	3766.6	3629.9	3471.8	3051.8	2538.0
52.5°	4334.8	4356.2	4336.5	4221.2	3987.3	3895.1	3906.6	3783.1	3618.4	3165.5	2605.5
55°	4451.7	4466.6	4428.7	4277.2	4125.6	4033.4	4046.6	3944.5	3763.3	3265.9	2663.1
57.5°	4591.7	4539.0	4501.1	4376.0	4268.9	4183.3	4198.1	4109.2	3888.5	3346.6	2707.6
60°	4585.1	4474.8	4512.7	4382.6	4366.1	4321.6	4334.8	4244.2	3984.0	3405.9	2725.7
62.5°	4247.5	4188.2	4379.3	4334.8	4445.2	4445.2	4461.6	4326.6	4041.6	3430.6	2715.8
65°	3661.2	3664.5	4000.5	4184.9	4539.0	4614.8	4628.0	4377.6	4008.7	3358.2	2623.6
67.5°	2916.8	2938.2	3420.7	3804.5	4445.2	4730.1	4731.7	4423.7	3867.1	3153.9	2409.5
70°	2134.5	2150.9	2720.8	3186.9	4002.1	4474.8	4448.4	4293.6	3559.1	2798.2	2075.2
72.5°	1442.7	1457.6	2043.9	2447.4	3284.0	3811.1	3753.4	3794.6	3033.7	2299.2	1668.4
75°	970.1	988.2	1454.3	1750.7	2416.1	2893.7	2765.3	2873.9	2346.9	1740.8	1217.1
77.5°	611.0	622.6	923.9	1147.9	1650.3	1969.8	1841.3	1843.0	1352.2	937.1	653.8
80°	388.7	392.0	560.0	662.1	955.2	1184.2	1047.5	851.5	609.4	497.4	390.3
82.5°	225.6	220.7	334.3	373.9	454.6	449.6	372.2	352.5	266.8	248.7	199.3
85°	90.6	84.0	146.6	136.7	138.3	146.6	108.7	108.7	87.3	67.5	49.4
87.5°	18.1	18.1	19.8	18.1	18.1	19.8	14.8	14.8	13.2	13.2	13.2
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°	1805.1	1805.1	1805.1	1805.1	1805.1	1805.1	1805.1	1805.1	1805.1	1805.1	1805.1
2.5°	1791.9	1788.6	1780.4	1759.0	1747.4	1740.8	1731.0	1727.7	1726.0	1727.7	1732.6
5°	1796.8	1785.3	1762.3	1727.7	1704.6	1689.8	1673.3	1666.7	1661.8	1661.8	1666.7
7.5°	1800.1	1782.0	1742.5	1691.4	1658.5	1635.4	1615.7	1607.4	1605.8	1610.7	1612.4
10°	1801.8	1775.4	1719.4	1655.2	1612.4	1582.7	1563.0	1558.0	1563.0	1572.8	1574.5
12.5°	1813.3	1777.1	1706.3	1630.5	1579.4	1549.8	1535.0	1535.0	1548.1	1566.3	1567.9
15°	1833.1	1788.6	1699.7	1610.7	1558.0	1531.7	1526.7	1535.0	1554.7	1582.7	1586.0
17.5°	1847.9	1795.2	1684.8	1584.4	1530.0	1513.6	1521.8	1541.6	1569.6	1607.4	1610.7
20°	1857.8	1795.2	1663.4	1553.1	1502.0	1498.7	1521.8	1553.1	1582.7	1627.2	1632.1
22.5°	1867.7	1791.9	1638.7	1515.2	1470.7	1480.6	1523.4	1563.0	1592.6	1640.4	1648.6
25°	1885.8	1796.8	1614.0	1477.3	1437.8	1465.8	1521.8	1569.6	1600.8	1650.3	1663.4
27.5°	1910.5	1808.4	1595.9	1442.7	1404.9	1442.7	1510.3	1567.9	1600.8	1648.6	1663.4
30°	1936.8	1821.5	1574.5	1404.9	1367.0	1409.8	1485.6	1549.8	1587.7	1632.1	1650.3
32.5°	1964.8	1836.4	1556.4	1363.7	1320.9	1365.3	1449.3	1521.8	1563.0	1604.1	1623.9
35°	2002.7	1862.7	1546.5	1330.7	1279.7	1319.2	1403.2	1485.6	1530.0	1567.9	1591.0
37.5°	2048.8	1895.7	1541.6	1297.8	1235.2	1268.2	1353.8	1441.1	1488.9	1520.1	1541.6
40°	2101.5	1936.8	1539.9	1266.5	1190.8	1215.5	1302.7	1390.0	1436.2	1460.9	1479.0
42.5°	2160.8	1982.9	1536.6	1235.2	1146.3	1166.0	1253.3	1339.0	1378.5	1399.9	1416.4
45°	2223.4	2029.1	1530.0	1197.3	1098.5	1121.6	1202.3	1278.0	1319.2	1337.3	1355.5
47.5°	2286.0	2075.2	1516.9	1154.5	1055.7	1077.1	1147.9	1213.8	1246.8	1263.2	1281.3
50°	2346.9	2116.3	1485.6	1105.1	1011.2	1031.0	1085.3	1129.8	1154.5	1167.7	1185.8
52.5°	2401.3	2144.3	1441.1	1047.5	966.8	976.6	1012.9	1050.8	1070.5	1072.2	1088.6
55°	2447.4	2159.2	1376.9	988.2	919.0	920.7	940.4	970.1	978.3	971.7	983.2
57.5°	2473.7	2150.9	1306.0	927.2	869.6	863.0	877.8	892.7	894.3	877.8	889.4
60°	2480.3	2113.1	1213.8	866.3	820.2	802.1	807.0	803.7	800.4	793.8	803.7
62.5°	2447.4	2032.4	1111.7	807.0	767.5	739.5	737.8	736.2	741.1	742.8	744.4
65°	2327.2	1880.8	989.8	746.1	711.5	673.6	672.0	691.7	698.3	688.4	691.7
67.5°	2094.9	1648.6	856.4	675.3	640.7	607.7	620.9	632.4	644.0	640.7	644.0
70°	1765.5	1353.8	734.5	596.2	563.3	545.1	560.0	569.8	571.5	568.2	571.5
72.5°	1388.4	1057.4	620.9	515.5	485.9	477.6	495.7	504.0	518.8	525.4	527.0
75°	1003.0	780.7	508.9	428.2	403.5	403.5	420.0	434.8	448.0	439.7	434.8
77.5°	560.0	466.1	365.6	294.8	299.7	322.8	329.4	345.9	359.0	357.4	354.1
80°	339.3	291.5	247.0	191.0	189.4	207.5	250.3	278.3	284.9	270.1	268.5
82.5°	176.2	153.2	131.8	107.1	118.6	138.3	144.9	174.6	192.7	186.1	194.3
85°	44.5	42.8	47.8	49.4	60.9	67.5	74.1	87.3	57.6	28.0	28.0
87.5°	13.2	13.2	16.5	16.5	21.4	26.4	24.7	24.7	13.2	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)