

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: P799929

Luminaire Tested: **ARCH2-60-740-U-T4W**

Issue Date: 4/4/2024

Test Information

Test Method: LM-79-08
Report Number: P799929
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2310-189-19)
Test Lab: INNOVATION CENTER
Issue Date: 4/4/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH2-60-740-U-T4W
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 4000K, 485mA LIGHTSQUARES WITH 10 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9001 lumens
Efficiency: N/A
Efficacy: 141.1 lumens/watt
Luminous Opening: Rectangular (W 0.67' x L: 0.33' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G2

Input Watts (W): 63.8
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



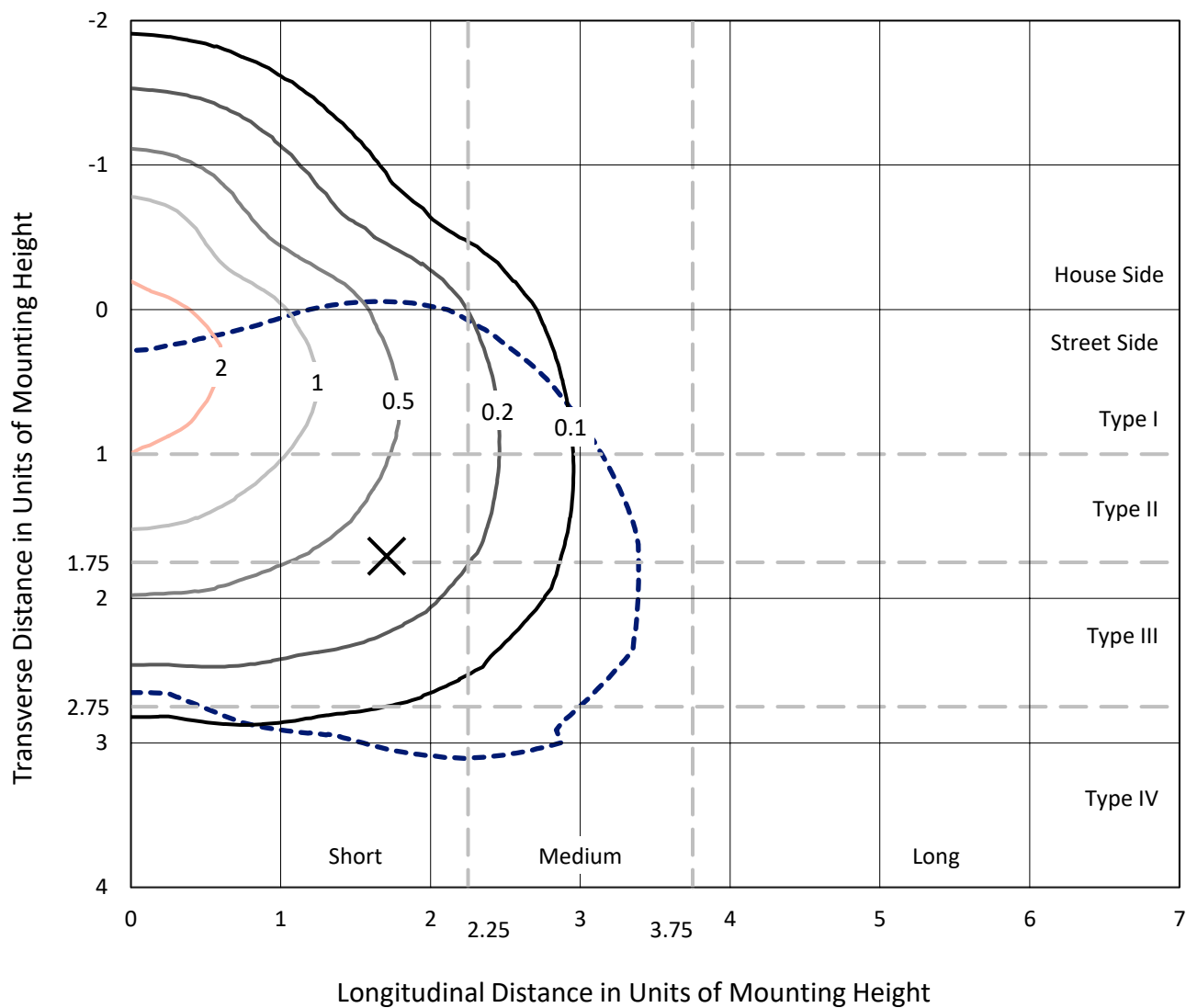
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

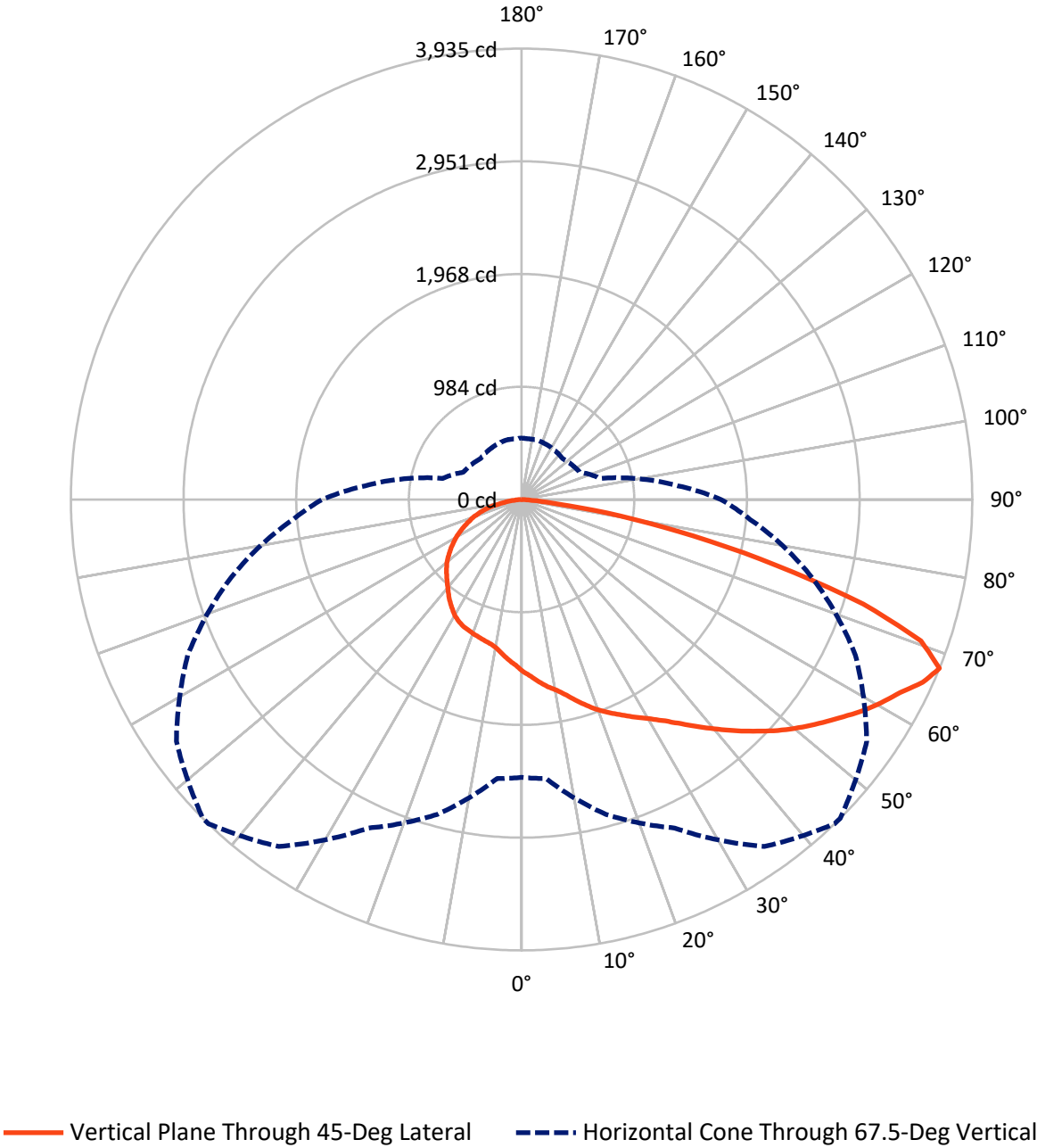


Based on 25 foot mounting height. Maximum calculated value = 2.8 fc

Type IV - Short - N/A

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Luminous Intensity Polar Plot



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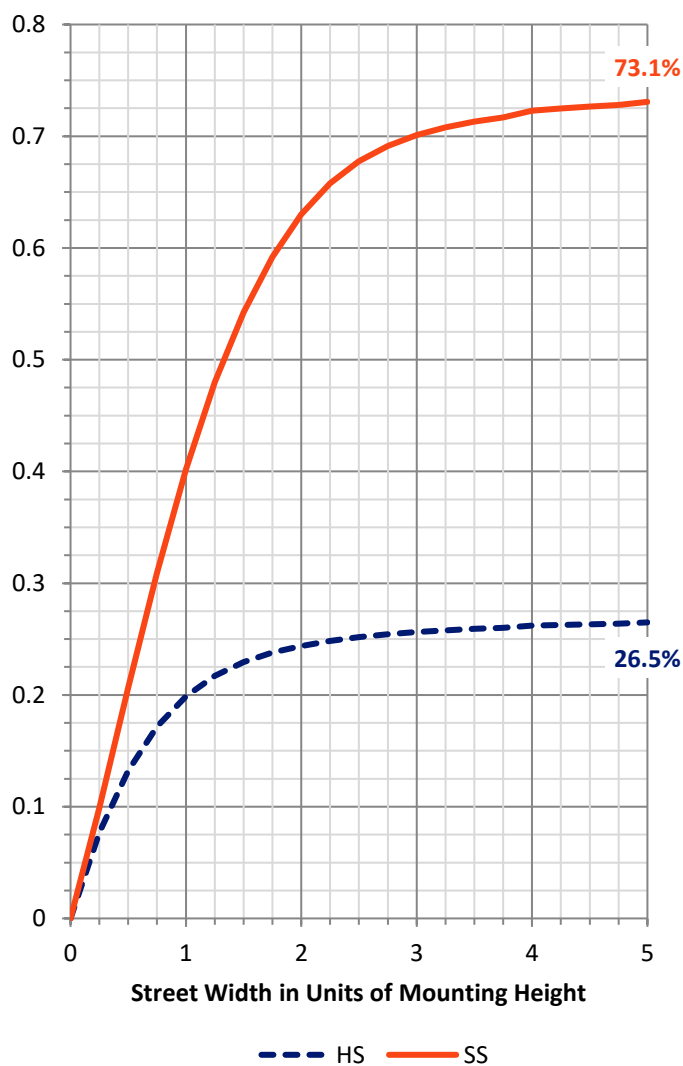
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2404.6	0.0	2404.6
	% Fixture	26.7	0.0	26.7
Street Side	Lumens	6596.4	0.0	6596.4
	% Fixture	73.3	0.0	73.3
Total	Lumens	9001.0	0.0	9001.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	143.7	1.6
10°-20°	444.0	4.9
20°-30°	766.4	8.5
30°-40°	1130.2	12.6
40°-50°	1531.2	17.0
50°-60°	1871.5	20.8
60°-70°	1930.1	21.4
70°-80°	1057.2	11.7
80°-90°	126.7	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°	9001.0	100.0
0°-180°	9001.0	100.0

Coefficient of Utilization



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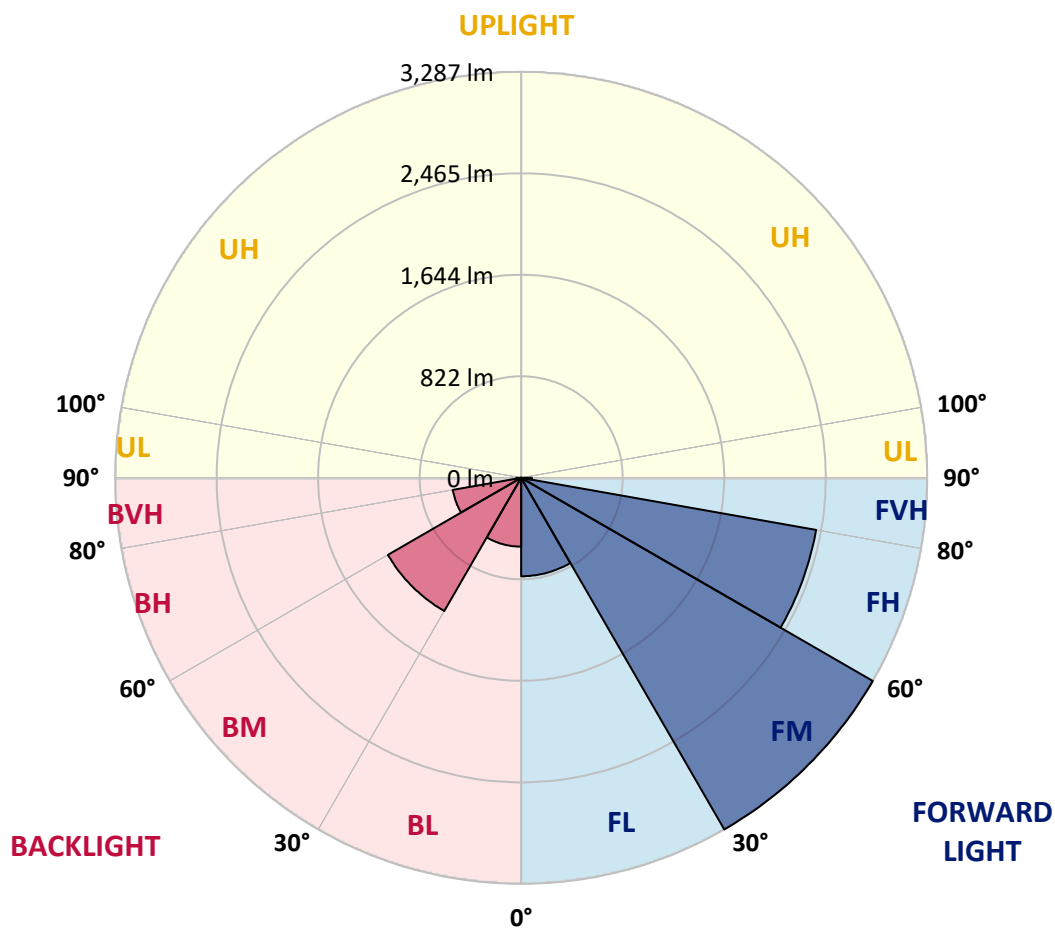
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	796.8	8.9			
FM	(30°-60°)	3287.3	36.5			
FH	(60°-80°)	2425.0	26.9			G2/5000
FVH	(80°-90°)	87.3	1.0			G1/100
BL	(0°-30°)	557.3	6.2	B2/1000		
BM	(30°-60°)	1245.6	13.8	B2/2500		
BH	(60°-80°)	562.3	6.2	B2/1000		G2/1000
BVH	(80°-90°)	39.4	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°	1501.2	1501.2	1501.2	1501.2	1501.2	1501.2	1501.2	1501.2	1501.2	1501.2	1501.2
2.5°	1566.9	1565.6	1568.3	1558.7	1546.4	1545.0	1545.0	1536.8	1527.2	1508.0	1493.0
5°	1640.9	1638.2	1639.5	1625.8	1609.4	1601.2	1599.8	1582.0	1560.1	1530.0	1502.6
7.5°	1709.4	1706.7	1705.3	1690.2	1665.6	1651.9	1650.5	1624.5	1598.4	1551.9	1512.2
10°	1773.8	1771.0	1768.3	1747.7	1717.6	1697.1	1694.3	1661.5	1628.6	1571.1	1520.4
12.5°	1855.9	1850.5	1847.7	1823.1	1779.2	1757.3	1753.2	1709.4	1668.3	1598.4	1536.8
15°	1942.2	1938.1	1934.0	1910.7	1861.4	1832.7	1825.8	1771.0	1714.9	1634.1	1561.5
17.5°	2006.6	2002.5	2002.5	1982.0	1936.8	1903.9	1898.4	1832.7	1762.8	1666.9	1580.6
20°	2046.3	2042.2	2046.3	2034.0	1999.8	1972.4	1966.9	1894.3	1810.7	1697.1	1597.1
22.5°	2075.1	2071.0	2077.8	2072.4	2047.7	2031.3	2027.2	1955.9	1860.1	1728.6	1613.5
25°	2125.8	2125.8	2125.8	2116.2	2092.9	2087.4	2087.4	2025.8	1923.1	1769.7	1638.2
27.5°	2227.1	2221.7	2214.8	2187.4	2147.7	2146.3	2154.5	2097.0	1995.7	1823.1	1668.3
30°	2376.4	2373.7	2347.7	2290.1	2223.0	2216.2	2221.7	2173.7	2073.7	1879.2	1702.5
32.5°	2569.6	2560.0	2506.6	2420.3	2324.4	2292.9	2303.8	2253.2	2155.9	1936.8	1735.4
35°	2706.5	2709.3	2670.9	2592.9	2479.2	2395.6	2403.8	2342.2	2244.9	2001.1	1776.5
37.5°	2864.1	2873.6	2816.1	2757.2	2651.7	2509.3	2517.5	2434.0	2334.0	2082.0	1820.3
40°	3081.8	3062.7	2965.4	2895.6	2779.1	2628.5	2635.3	2536.7	2436.7	2158.7	1871.0
42.5°	3264.0	3229.8	3112.0	3022.9	2883.2	2754.5	2761.3	2647.6	2540.8	2243.6	1927.2
45°	3525.6	3431.1	3261.3	3217.4	2990.1	2877.7	2884.6	2765.4	2650.4	2334.0	1987.4
47.5°	3677.7	3527.0	3418.8	3395.5	3107.9	3005.1	3013.3	2890.1	2768.2	2436.7	2050.4
50°	3668.1	3570.8	3539.3	3481.8	3212.0	3124.3	3132.5	3018.8	2887.3	2538.1	2110.7
52.5°	3605.1	3622.9	3606.4	3510.6	3316.1	3239.4	3248.9	3146.2	3009.2	2632.6	2166.9
55°	3702.3	3714.6	3683.1	3557.1	3431.1	3354.4	3365.4	3280.4	3129.8	2716.1	2214.8
57.5°	3818.7	3774.9	3743.4	3639.3	3550.3	3479.0	3491.4	3417.4	3233.9	2783.2	2251.8
60°	3813.3	3721.5	3753.0	3644.8	3631.1	3594.1	3605.1	3529.7	3313.3	2832.5	2266.9
62.5°	3532.5	3483.2	3642.0	3605.1	3696.8	3696.8	3710.5	3598.2	3361.3	2853.1	2258.6
65°	3044.9	3047.6	3327.0	3480.4	3774.9	3837.9	3848.9	3640.7	3333.9	2792.8	2181.9
67.5°	2425.7	2443.6	2844.9	3164.0	3696.8	3933.8	3935.2	3679.0	3216.1	2623.0	2003.9
70°	1775.1	1788.8	2262.8	2650.4	3328.4	3721.5	3699.6	3570.8	2959.9	2327.1	1725.8
72.5°	1199.9	1212.2	1699.8	2035.4	2731.2	3169.5	3121.6	3155.8	2523.0	1912.1	1387.5
75°	806.8	821.8	1209.4	1456.0	2009.4	2406.6	2299.7	2390.1	1951.8	1447.8	1012.2
77.5°	508.2	517.7	768.4	954.7	1372.4	1638.2	1531.3	1532.7	1124.5	779.4	543.8
80°	323.3	326.0	465.7	550.6	794.4	984.8	871.1	708.1	506.8	413.7	324.6
82.5°	187.6	183.5	278.1	310.9	378.0	373.9	309.6	293.1	221.9	206.8	165.7
85°	75.3	69.9	121.9	113.7	115.1	121.9	90.4	90.4	72.6	56.2	41.1
87.5°	15.1	15.1	16.4	15.1	15.1	16.4	12.3	12.3	11.0	11.0	11.0
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°	1501.2	1501.2	1501.2	1501.2	1501.2	1501.2	1501.2	1501.2	1501.2	1501.2	1501.2
2.5°	1490.2	1487.5	1480.7	1462.8	1453.3	1447.8	1439.6	1436.8	1435.5	1436.8	1440.9
5°	1494.3	1484.8	1465.6	1436.8	1417.6	1405.3	1391.6	1386.1	1382.0	1382.0	1386.1
7.5°	1497.1	1482.0	1449.1	1406.7	1379.3	1360.1	1343.7	1336.8	1335.5	1339.6	1340.9
10°	1498.5	1476.5	1430.0	1376.6	1340.9	1316.3	1299.8	1295.7	1299.8	1308.1	1309.4
12.5°	1508.0	1477.9	1419.0	1356.0	1313.5	1288.9	1276.6	1276.6	1287.5	1302.6	1304.0
15°	1524.5	1487.5	1413.5	1339.6	1295.7	1273.8	1269.7	1276.6	1293.0	1316.3	1319.0
17.5°	1536.8	1493.0	1401.2	1317.7	1272.5	1258.8	1265.6	1282.0	1305.3	1336.8	1339.6
20°	1545.0	1493.0	1383.4	1291.6	1249.2	1246.4	1265.6	1291.6	1316.3	1353.3	1357.4
22.5°	1553.2	1490.2	1362.9	1260.1	1223.1	1231.4	1267.0	1299.8	1324.5	1364.2	1371.1
25°	1568.3	1494.3	1342.3	1228.6	1195.8	1219.0	1265.6	1305.3	1331.4	1372.4	1383.4
27.5°	1588.9	1503.9	1327.2	1199.9	1168.4	1199.9	1256.0	1304.0	1331.4	1371.1	1383.4
30°	1610.8	1514.9	1309.4	1168.4	1136.9	1172.5	1235.5	1288.9	1320.4	1357.4	1372.4
32.5°	1634.1	1527.2	1294.4	1134.1	1098.5	1135.5	1205.3	1265.6	1299.8	1334.1	1350.5
35°	1665.6	1549.1	1286.2	1106.7	1064.3	1097.1	1167.0	1235.5	1272.5	1304.0	1323.1
37.5°	1703.9	1576.5	1282.0	1079.3	1027.3	1054.7	1125.9	1198.5	1238.2	1264.2	1282.0
40°	1747.7	1610.8	1280.7	1053.3	990.3	1010.8	1083.4	1156.0	1194.4	1214.9	1230.0
42.5°	1797.1	1649.1	1277.9	1027.3	953.3	969.8	1042.3	1113.6	1146.4	1164.2	1177.9
45°	1849.1	1687.5	1272.5	995.8	913.6	932.8	999.9	1062.9	1097.1	1112.2	1127.3
47.5°	1901.1	1725.8	1261.5	960.2	878.0	895.8	954.7	1009.5	1036.9	1050.6	1065.6
50°	1951.8	1760.1	1235.5	919.1	841.0	857.4	902.6	939.6	960.2	971.1	986.2
52.5°	1997.0	1783.4	1198.5	871.1	804.0	812.2	842.4	873.9	890.3	891.7	905.4
55°	2035.4	1795.7	1145.1	821.8	764.3	765.7	782.1	806.8	813.6	808.1	817.7
57.5°	2057.3	1788.8	1086.2	771.1	723.2	717.7	730.1	742.4	743.7	730.1	739.6
60°	2062.8	1757.3	1009.5	720.5	682.1	667.0	671.2	668.4	665.7	660.2	668.4
62.5°	2035.4	1690.2	924.6	671.2	638.3	615.0	613.6	612.3	616.4	617.7	619.1
65°	1935.4	1564.2	823.2	620.5	591.7	560.2	558.8	575.3	580.8	572.5	575.3
67.5°	1742.3	1371.1	712.2	561.6	532.8	505.4	516.4	526.0	535.6	532.8	535.6
70°	1468.3	1125.9	610.9	495.8	468.4	453.4	465.7	473.9	475.3	472.5	475.3
72.5°	1154.7	879.4	516.4	428.7	404.1	397.2	412.3	419.1	431.5	436.9	438.3
75°	834.2	649.2	423.2	356.1	335.6	335.6	349.3	361.6	372.6	365.7	361.6
77.5°	465.7	387.6	304.1	245.2	249.3	268.5	273.9	287.6	298.6	297.2	294.5
80°	282.2	242.4	205.5	158.9	157.5	172.6	208.2	231.5	237.0	224.6	223.3
82.5°	146.6	127.4	109.6	89.0	98.6	115.1	120.5	145.2	160.3	154.8	161.6
85°	37.0	35.6	39.7	41.1	50.7	56.2	61.6	72.6	47.9	23.3	23.3
87.5°	11.0	11.0	13.7	13.7	17.8	21.9	20.5	20.5	11.0	1.4	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)