

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: P799159

Luminaire Tested: **ARCH1-60-740-U-T3**

Issue Date: 4/4/2024

Test Information

Test Method: LM-79-08
Report Number: P799159
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2310-189-18)
Test Lab: INNOVATION CENTER
Issue Date: 4/4/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH1-60-740-U-T3
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 4000K, 1640mA LIGHTSQUARE WITH 10 LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7351 lumens
Efficiency: N/A
Efficacy: 122.5 lumens/watt
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

Input Watts (W): 60
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

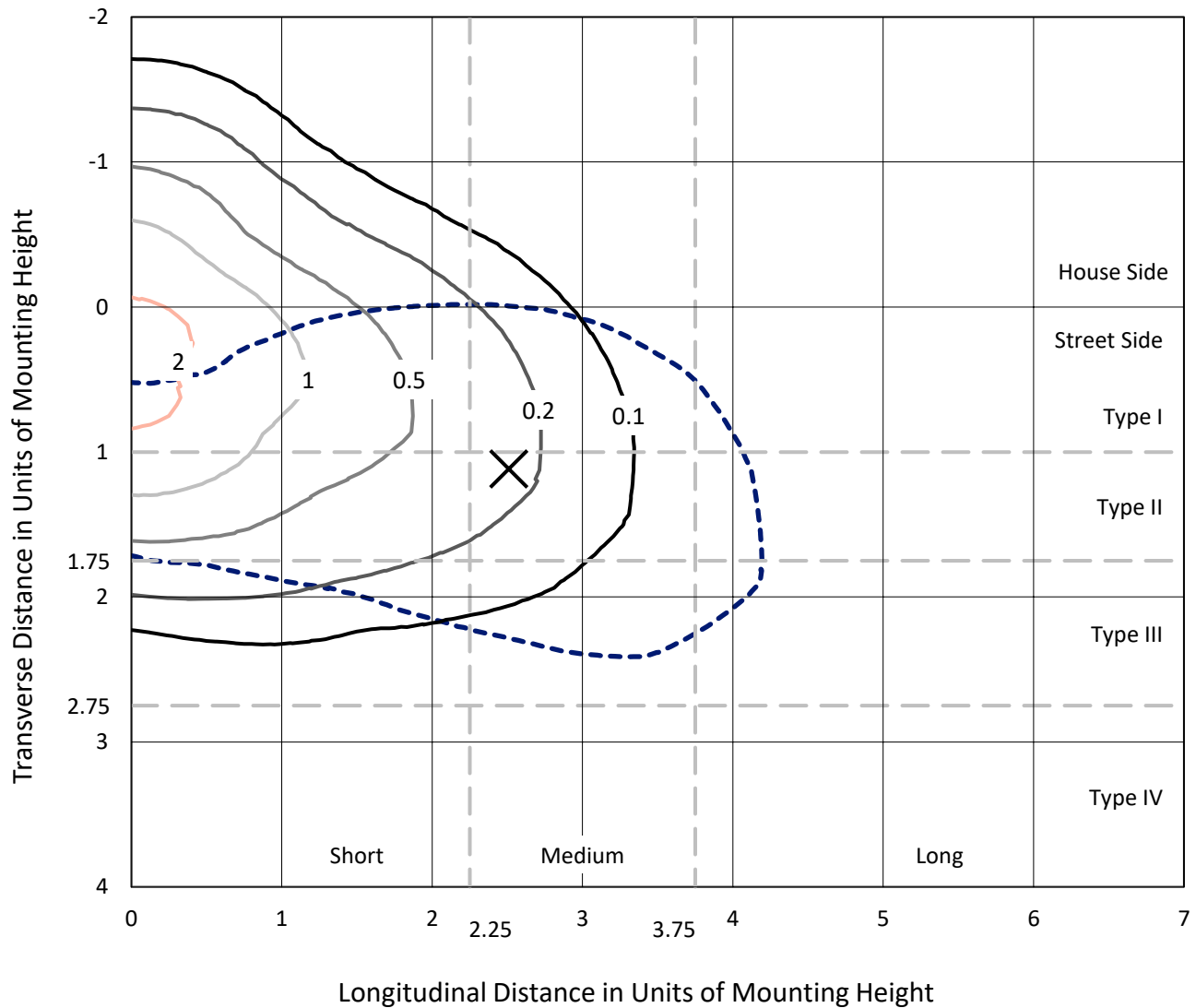


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Iso-Footcandle Lines of Horizontal Illumination

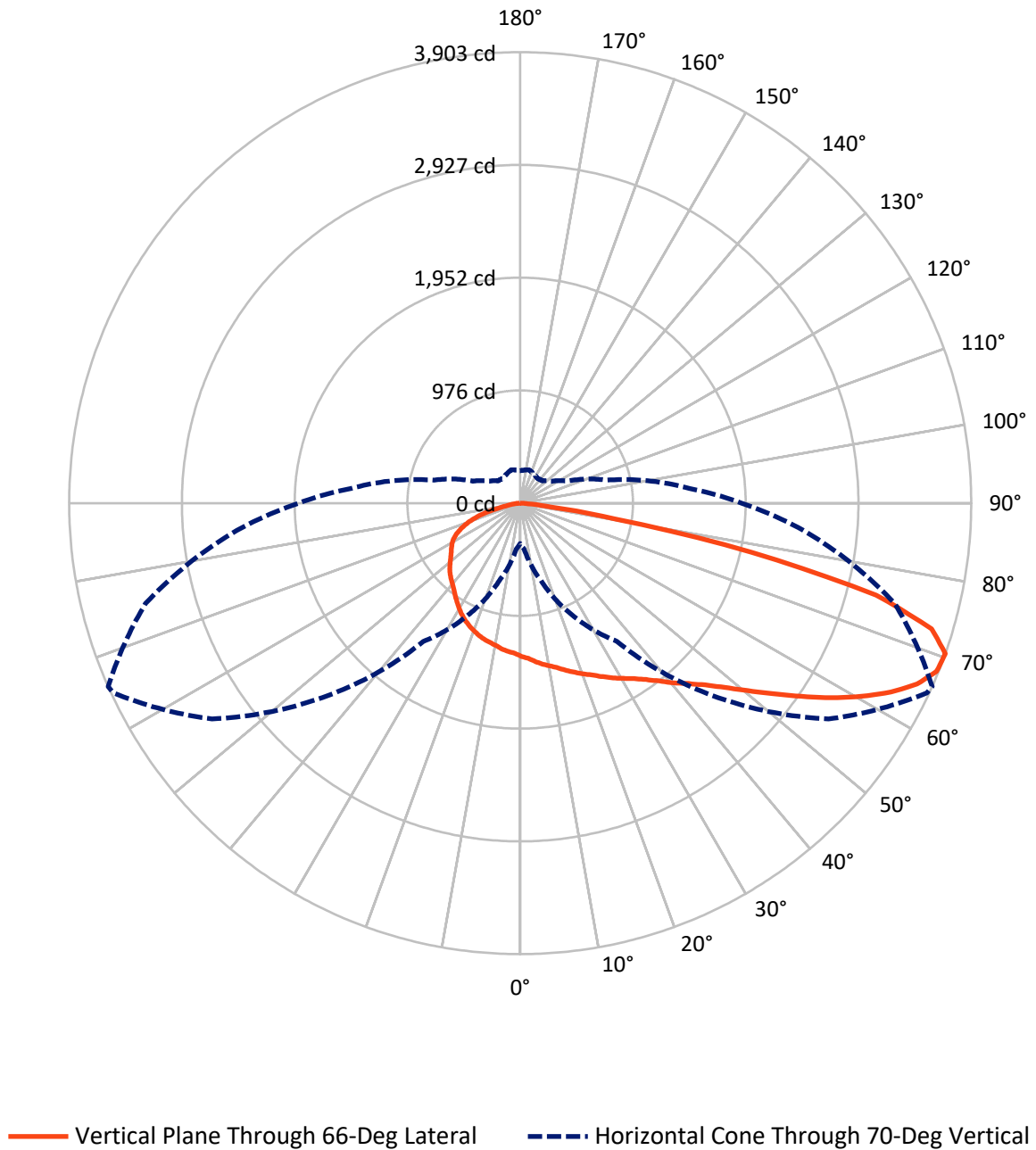
✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.3 fc
Type III - Medium - N/A

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Luminous Intensity Polar Plot



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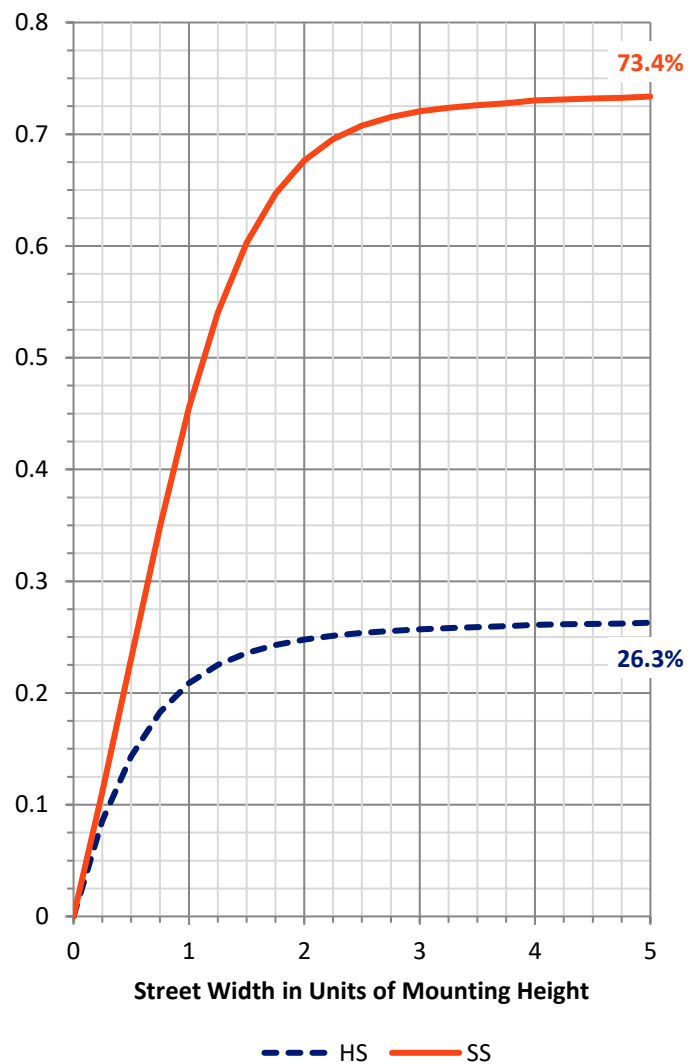
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1947.8	0.0	1947.8
	% Fixture	26.5	0.0	26.5
Street Side	Lumens	5403.2	0.0	5403.2
	% Fixture	73.5	0.0	73.5
Total	Lumens	7351.0	0.0	7351.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	127.5	1.7
10°-20°	382.4	5.2
20°-30°	641.0	8.7
30°-40°	959.8	13.1
40°-50°	1283.3	17.5
50°-60°	1498.3	20.4
60°-70°	1489.8	20.3
70°-80°	882.0	12.0
80°-90°	86.9	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°	7351.0	100.0
0°-180°	7351.0	100.0

Coefficient of Utilization



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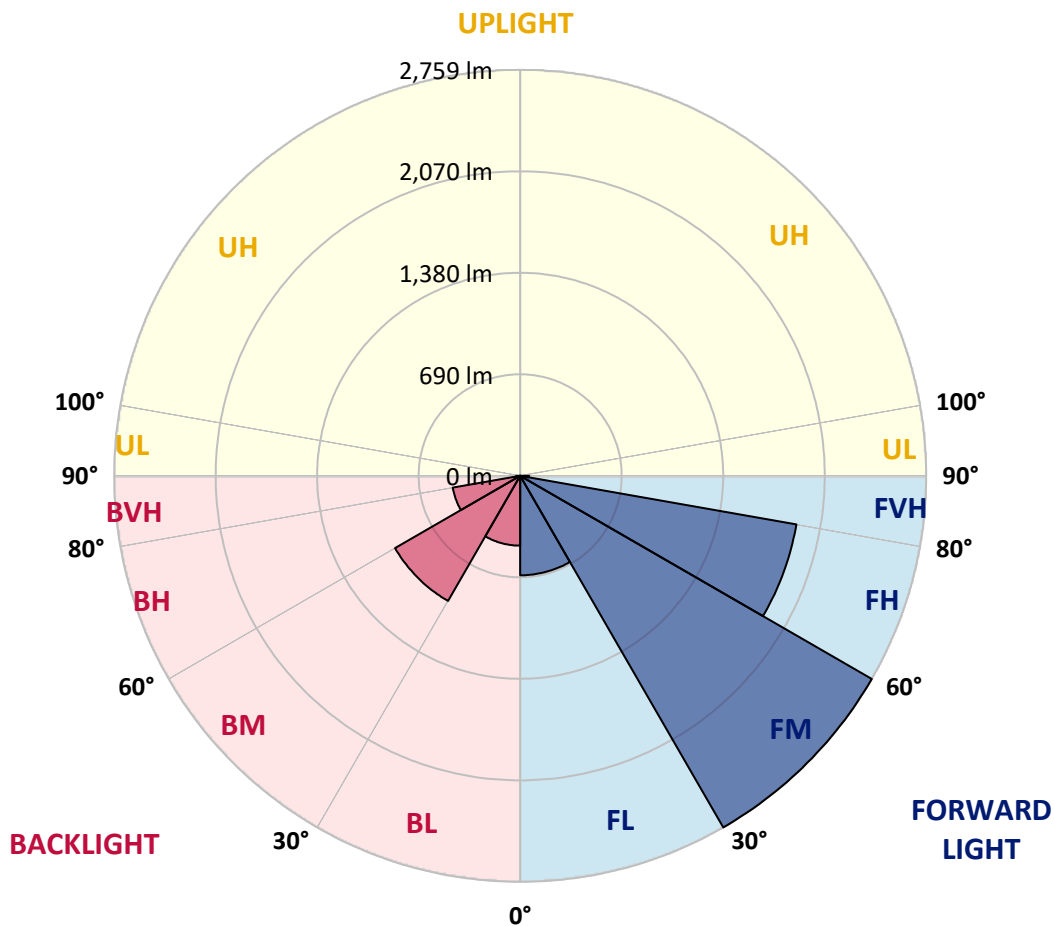
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	676.1	9.2			
FM	(30°-60°)	2759.5	37.5			
FH	(60°-80°)	1906.5	25.9			G2/5000
FVH	(80°-90°)	61.1	0.8			G1/100
BL	(0°-30°)	474.8	6.5	B1/500		
BM	(30°-60°)	981.9	13.4	B1/1000		
BH	(60°-80°)	465.3	6.3	B1/500		G1/500
BVH	(80°-90°)	25.8	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	1326.7	1326.7	1326.7	1326.7	1326.7	1326.7	1326.7	1326.7	1326.7	1326.7	1326.7
2.5°	1375.5	1373.3	1372.2	1367.9	1358.1	1362.5	1352.7	1346.2	1345.1	1329.9	1321.3
5°	1431.8	1430.7	1428.6	1422.1	1406.9	1409.1	1392.8	1380.9	1377.6	1353.8	1335.4
7.5°	1479.5	1477.3	1476.3	1467.6	1451.3	1450.3	1430.7	1413.4	1408.0	1375.5	1347.3
10°	1516.4	1513.1	1515.3	1506.6	1489.3	1486.0	1461.1	1438.3	1432.9	1391.7	1352.7
12.5°	1547.8	1545.6	1548.9	1541.3	1527.2	1524.0	1499.0	1469.8	1463.3	1415.6	1364.6
15°	1582.5	1574.9	1581.4	1578.2	1568.4	1567.3	1544.6	1512.0	1503.4	1445.9	1383.1
17.5°	1600.9	1596.6	1604.2	1605.2	1600.9	1608.5	1586.8	1547.8	1540.2	1474.1	1399.3
20°	1613.9	1607.4	1616.1	1622.6	1625.8	1641.0	1623.7	1585.7	1577.1	1501.2	1414.5
22.5°	1658.4	1644.3	1645.4	1649.7	1651.9	1673.5	1662.7	1625.8	1617.2	1534.8	1432.9
25°	1770.0	1741.8	1723.4	1710.4	1695.2	1713.6	1707.1	1671.4	1663.8	1574.9	1455.7
27.5°	1943.4	1907.7	1870.8	1832.9	1773.3	1765.7	1754.8	1722.3	1713.6	1615.0	1478.4
30°	2140.7	2104.9	2061.6	2000.9	1889.2	1830.7	1805.8	1770.0	1760.2	1650.8	1500.1
32.5°	2336.9	2305.4	2262.1	2188.4	2029.1	1909.8	1856.7	1819.9	1810.1	1689.8	1526.1
35°	2489.7	2470.2	2442.0	2349.9	2167.8	2003.0	1930.4	1886.0	1875.1	1751.6	1573.8
37.5°	2613.3	2599.2	2575.3	2478.9	2268.6	2096.3	2015.0	1964.0	1952.1	1818.8	1624.8
40°	2795.4	2758.5	2739.0	2599.2	2356.4	2180.8	2110.3	2057.2	2044.2	1890.3	1665.9
42.5°	2950.4	2923.3	2899.4	2706.5	2439.8	2253.4	2200.3	2151.5	2134.2	1960.8	1710.4
45°	2976.4	2987.2	2975.3	2759.6	2572.1	2325.0	2291.4	2259.9	2243.7	2056.1	1777.6
47.5°	2977.5	2977.5	2907.0	2789.9	2735.8	2405.2	2388.9	2399.7	2382.4	2177.5	1857.8
50°	2899.4	2913.5	2876.7	2797.5	2779.1	2485.4	2508.1	2566.7	2549.3	2306.5	1944.5
52.5°	2737.9	2784.5	2783.4	2785.6	2716.2	2553.7	2633.9	2767.2	2737.9	2451.8	2036.6
55°	2452.9	2546.1	2629.5	2701.1	2662.0	2594.8	2787.8	2980.7	2950.4	2614.4	2129.9
57.5°	2209.0	2268.6	2372.6	2575.3	2598.1	2630.6	2931.9	3204.0	3176.9	2794.3	2227.4
60°	1930.4	2012.8	2116.8	2405.2	2520.1	2677.2	3090.2	3421.9	3395.8	2976.4	2321.7
62.5°	1502.3	1608.5	1816.6	2143.9	2406.2	2706.5	3214.8	3613.7	3601.8	3148.7	2406.2
65°	1047.0	1141.3	1432.9	1823.1	2225.2	2693.5	3314.6	3785.0	3774.1	3289.6	2465.9
67.5°	611.3	720.8	1050.3	1467.6	1905.5	2603.5	3347.1	3885.8	3885.8	3375.3	2482.1
70°	349.0	400.0	692.6	1069.8	1461.1	2355.3	3256.0	3884.7	3903.1	3355.7	2414.9
72.5°	243.9	266.6	466.1	719.7	990.7	1905.5	3017.6	3697.2	3722.1	3171.5	2185.1
75°	189.7	205.9	328.4	491.0	624.3	1294.2	2496.2	3117.3	3183.4	2703.2	1766.7
77.5°	144.2	156.1	191.8	306.7	400.0	743.6	1647.5	2044.2	2048.6	1655.1	947.3
80°	105.1	117.1	127.9	187.5	212.4	347.9	622.2	854.1	830.3	801.0	512.7
82.5°	62.9	74.8	78.0	101.9	104.1	148.5	217.9	275.3	264.5	352.3	240.6
85°	27.1	37.9	40.1	46.6	44.4	60.7	86.7	72.6	65.0	74.8	52.0
87.5°	6.5	10.8	10.8	11.9	9.8	15.2	16.3	11.9	10.8	13.0	13.0
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°	1326.7	1326.7	1326.7	1326.7	1326.7	1326.7	1326.7	1326.7	1326.7	1326.7	1326.7
2.5°	1319.1	1315.8	1316.9	1298.5	1293.1	1287.7	1284.4	1282.2	1280.1	1283.3	1286.6
5°	1328.9	1321.3	1312.6	1285.5	1274.7	1262.7	1254.1	1246.5	1243.2	1243.2	1246.5
7.5°	1336.4	1323.4	1305.0	1269.2	1249.7	1233.5	1219.4	1209.6	1204.2	1204.2	1207.5
10°	1337.5	1319.1	1289.8	1246.5	1220.5	1196.6	1180.4	1169.5	1161.9	1161.9	1164.1
12.5°	1344.0	1319.1	1281.2	1229.1	1196.6	1167.4	1147.8	1131.6	1128.3	1128.3	1130.5
15°	1354.9	1324.5	1275.7	1214.0	1174.9	1141.3	1119.7	1102.3	1095.8	1100.2	1101.2
17.5°	1364.6	1327.8	1266.0	1194.5	1147.8	1111.0	1087.1	1072.0	1063.3	1073.1	1073.1
20°	1371.1	1327.8	1251.9	1169.5	1118.6	1077.4	1054.6	1036.2	1029.7	1041.6	1042.7
22.5°	1380.9	1326.7	1236.7	1144.6	1087.1	1043.8	1021.0	1006.9	1003.7	1016.7	1021.0
25°	1391.7	1328.9	1220.5	1116.4	1052.5	1010.2	992.8	986.3	988.5	1004.8	1010.2
27.5°	1403.6	1333.2	1204.2	1085.0	1014.5	976.6	966.8	970.1	978.8	999.4	1005.9
30°	1414.5	1334.3	1181.4	1048.1	971.2	935.4	939.7	953.8	966.8	987.4	995.0
32.5°	1428.6	1335.4	1157.6	1008.0	924.6	898.5	918.1	940.8	953.8	973.3	982.0
35°	1463.3	1353.8	1139.2	969.0	881.2	867.1	899.6	928.9	936.5	953.8	961.4
37.5°	1503.4	1384.1	1129.4	928.9	838.9	835.7	876.9	906.1	908.3	919.1	926.7
40°	1528.3	1397.1	1118.6	895.3	801.0	803.2	845.4	868.2	863.9	871.5	876.9
42.5°	1553.2	1401.5	1095.8	867.1	765.2	767.4	799.9	816.2	818.3	834.6	842.2
45°	1595.5	1413.4	1070.9	841.1	732.7	725.1	744.6	766.3	794.5	825.9	834.6
47.5°	1651.9	1438.3	1044.9	809.7	701.3	676.4	683.9	721.9	751.1	780.4	785.8
50°	1709.3	1463.3	1021.0	771.7	669.8	624.3	627.6	662.3	686.1	708.9	712.1
52.5°	1765.7	1484.9	1000.4	736.0	634.1	562.5	575.5	611.3	627.6	638.4	641.7
55°	1822.0	1503.4	982.0	705.6	592.9	513.8	525.7	559.3	575.5	581.0	583.1
57.5°	1880.6	1525.0	967.9	679.6	546.3	470.4	478.0	501.8	517.0	523.5	521.4
60°	1929.3	1543.5	960.3	652.5	499.7	430.3	428.1	449.8	471.5	478.0	475.8
62.5°	1967.3	1555.4	948.4	617.8	458.5	390.2	379.4	407.5	430.3	434.6	437.9
65°	1987.9	1556.5	919.1	573.4	416.2	346.8	339.3	367.4	381.5	385.9	385.9
67.5°	1984.6	1539.1	861.7	513.8	377.2	307.8	301.3	318.7	339.3	342.5	339.3
70°	1917.4	1467.6	769.6	450.9	330.6	273.1	261.2	278.6	298.1	286.1	280.7
72.5°	1726.6	1282.2	634.1	381.5	278.6	229.8	224.4	241.7	242.8	245.0	239.5
75°	1362.5	954.9	474.7	297.0	225.5	192.9	191.8	188.6	192.9	201.6	195.1
77.5°	715.4	476.9	256.9	182.1	163.7	155.0	147.4	146.3	159.3	164.8	158.2
80°	388.0	267.7	147.4	109.5	99.7	100.8	110.6	108.4	122.5	125.7	120.3
82.5°	169.1	126.8	72.6	66.1	66.1	65.0	68.3	75.9	91.0	91.0	72.6
85°	36.9	31.4	28.2	32.5	36.9	36.9	36.9	36.9	26.0	14.1	9.8
87.5°	11.9	11.9	11.9	13.0	14.1	14.1	11.9	8.7	5.4	1.1	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)