

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: P836536

Luminaire Tested: **ARCH3-40-727-U-T3**

Issue Date: 5/16/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P836536  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2310-189-18)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/16/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: ARCH3-40-727-U-T3  
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE  
(1) 70 CRI, 2700K, 345mA LIGHTSQUARE WITH 40 LEDS AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7017 lumens  
Efficiency: N/A  
Efficacy: 160.9 lumens/watt  
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B1 - U0 - G2

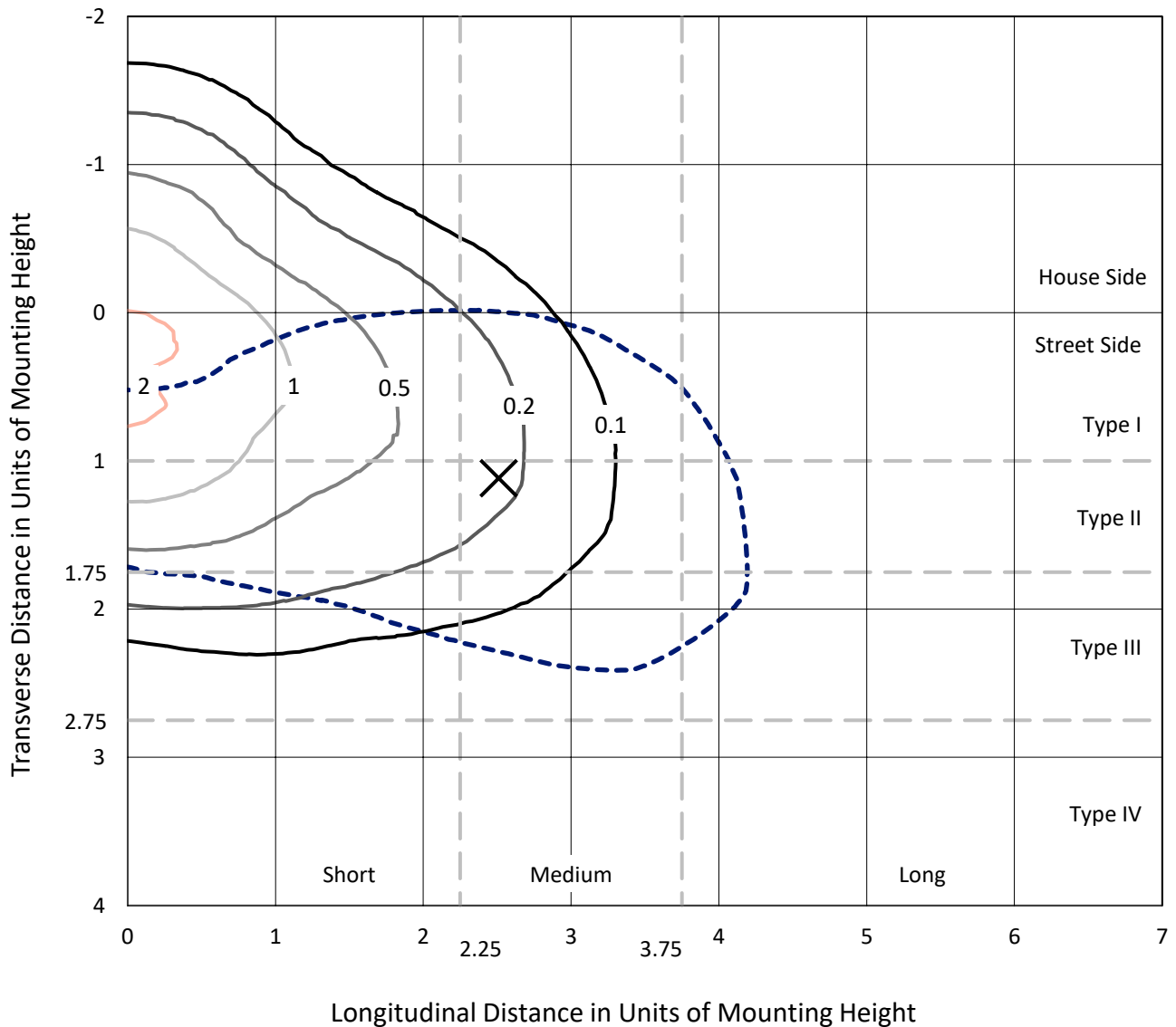
Input Watts (W): 43.6  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

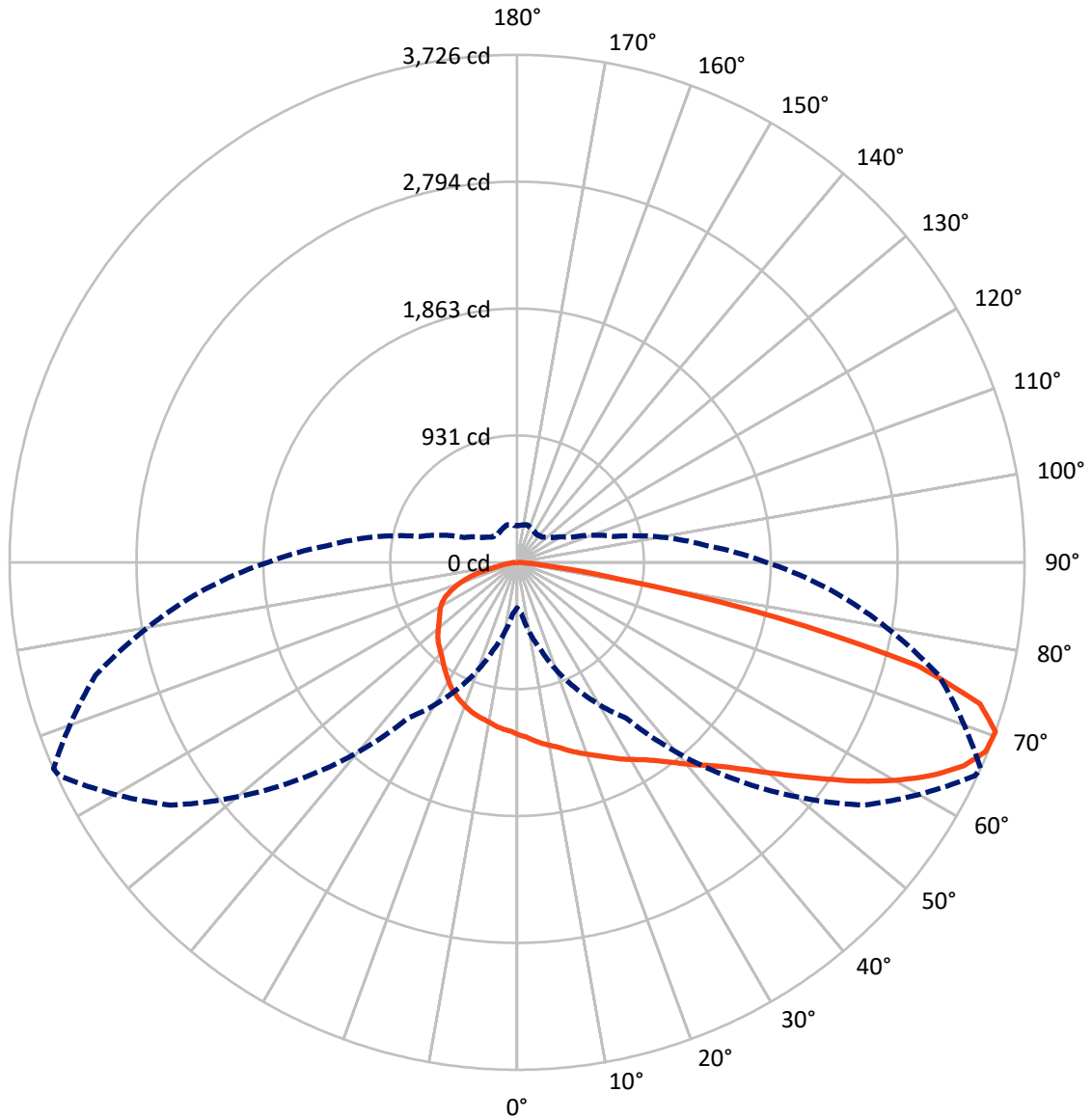
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.2 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

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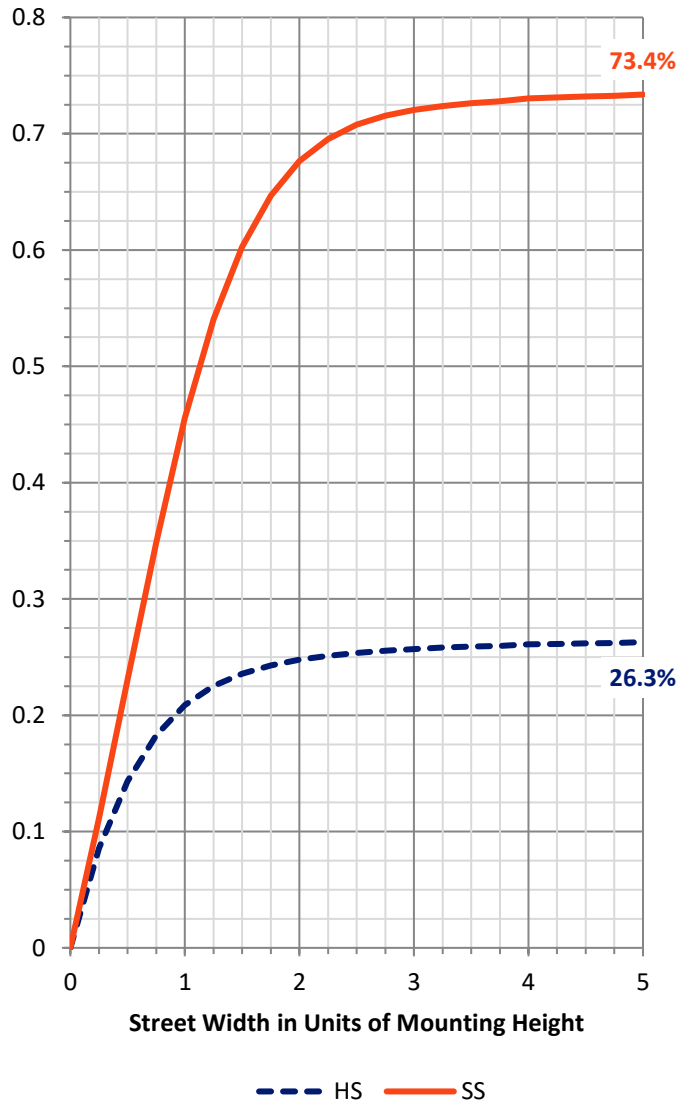
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1859.3	0.0	1859.3
	% Fixture	26.5	0.0	26.5
<b>Street Side</b>	Lumens	5157.7	0.0	5157.7
	% Fixture	73.5	0.0	73.5
<b>Total</b>	Lumens	7017.0	0.0	7017.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	121.7	1.7
10°-20°	365.0	5.2
20°-30°	611.9	8.7
30°-40°	916.2	13.1
40°-50°	1225.0	17.5
50°-60°	1430.2	20.4
60°-70°	1422.1	20.3
70°-80°	841.9	12.0
80°-90°	83.0	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°	7017.0	100.0
0°-180°	7017.0	100.0

**Coefficient of Utilization**

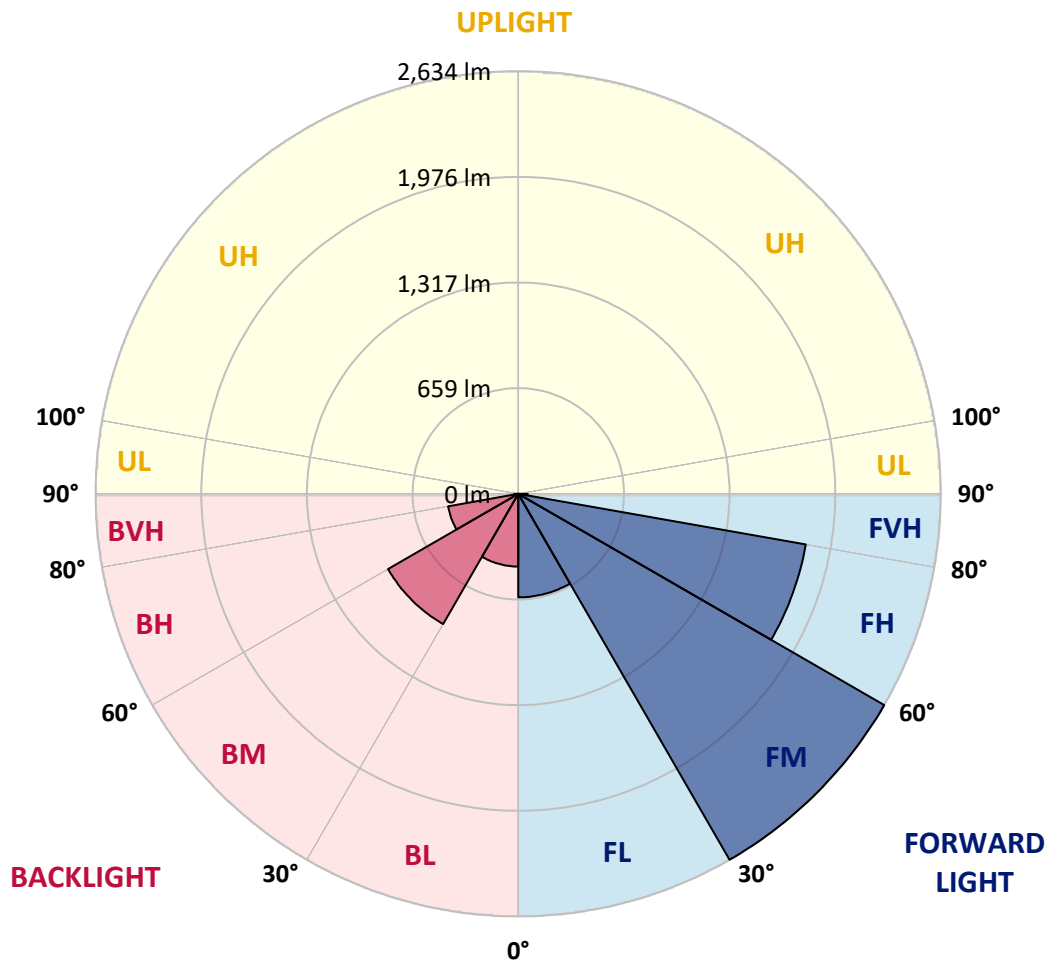


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	645.4	9.2			
FM (30°-60°)	2634.1	37.5			
FH (60°-80°)	1819.9	25.9			G2/5000
FVH (80°-90°)	58.3	0.8			G1/100
BL (0°-30°)	453.2	6.5	B1/500		
BM (30°-60°)	937.3	13.4	B1/1000		
BH (60°-80°)	444.1	6.3	B1/500		G1/500
BVH (80°-90°)	24.7	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°	1266.4	1266.4	1266.4	1266.4	1266.4	1266.4	1266.4	1266.4	1266.4	1266.4	1266.4
2.5°	1313.0	1310.9	1309.9	1305.7	1296.4	1300.6	1291.2	1285.0	1284.0	1269.5	1261.2
5°	1366.8	1365.7	1363.7	1357.5	1343.0	1345.0	1329.5	1318.1	1315.0	1292.3	1274.7
7.5°	1412.3	1410.2	1409.2	1400.9	1385.4	1384.4	1365.7	1349.2	1344.0	1313.0	1286.1
10°	1447.5	1444.4	1446.4	1438.2	1421.6	1418.5	1394.7	1373.0	1367.8	1328.5	1291.2
12.5°	1477.5	1475.4	1478.5	1471.3	1457.8	1454.7	1430.9	1403.0	1396.8	1351.2	1302.6
15°	1510.6	1503.3	1509.6	1506.4	1497.1	1496.1	1474.4	1443.3	1435.1	1380.2	1320.2
17.5°	1528.2	1524.0	1531.3	1532.3	1528.2	1535.4	1514.7	1477.5	1470.2	1407.1	1335.7
20°	1540.6	1534.4	1542.7	1548.9	1552.0	1566.5	1549.9	1513.7	1505.4	1433.0	1350.2
22.5°	1583.0	1569.6	1570.6	1574.7	1576.8	1597.5	1587.1	1552.0	1543.7	1465.1	1367.8
25°	1689.6	1662.7	1645.1	1632.7	1618.2	1635.8	1629.6	1595.4	1588.2	1503.3	1389.5
27.5°	1855.1	1821.0	1785.8	1749.6	1692.7	1685.4	1675.1	1644.1	1635.8	1541.6	1411.3
30°	2043.4	2009.3	1967.9	1910.0	1803.4	1747.5	1723.7	1689.6	1680.3	1575.8	1432.0
32.5°	2230.7	2200.7	2159.3	2089.0	1936.9	1823.0	1772.4	1737.2	1727.9	1613.0	1456.8
35°	2376.6	2358.0	2331.1	2243.1	2069.3	1912.0	1842.7	1800.3	1789.9	1672.0	1502.3
37.5°	2494.5	2481.1	2458.3	2366.2	2165.5	2001.0	1923.4	1874.8	1863.4	1736.1	1550.9
40°	2668.4	2633.2	2614.6	2481.1	2249.3	2081.7	2014.5	1963.8	1951.3	1804.4	1590.3
42.5°	2816.3	2790.4	2767.7	2583.5	2329.0	2151.0	2100.3	2053.8	2037.2	1871.7	1632.7
45°	2841.1	2851.5	2840.1	2634.2	2455.2	2219.3	2187.2	2157.2	2141.7	1962.7	1696.8
47.5°	2842.2	2842.2	2774.9	2663.2	2611.5	2295.9	2280.4	2290.7	2274.2	2078.6	1773.4
50°	2767.7	2781.1	2746.0	2670.4	2652.8	2372.4	2394.2	2450.0	2433.5	2201.7	1856.2
52.5°	2613.5	2658.0	2657.0	2659.0	2592.8	2437.6	2514.2	2641.5	2613.5	2340.4	1944.1
55°	2341.4	2430.4	2510.1	2578.3	2541.1	2476.9	2661.1	2845.3	2816.3	2495.6	2033.1
57.5°	2108.6	2165.5	2264.8	2458.3	2480.1	2511.1	2798.7	3058.4	3032.6	2667.3	2126.2
60°	1842.7	1921.3	2020.7	2295.9	2405.6	2555.6	2949.8	3266.4	3241.6	2841.1	2216.2
62.5°	1434.0	1535.4	1734.1	2046.5	2296.9	2583.5	3068.8	3449.5	3438.1	3005.7	2296.9
65°	999.5	1089.5	1367.8	1740.3	2124.1	2571.1	3164.0	3613.0	3602.6	3140.2	2353.8
67.5°	583.5	688.0	1002.6	1400.9	1818.9	2485.2	3195.0	3709.2	3709.2	3221.9	2369.3
70°	333.2	381.8	661.1	1021.2	1394.7	2248.3	3108.1	3708.2	3725.8	3203.3	2305.2
72.5°	232.8	254.5	444.9	687.0	945.7	1818.9	2880.5	3529.2	3553.0	3027.4	2085.8
75°	181.1	196.6	313.5	468.7	596.0	1235.4	2382.8	2975.6	3038.8	2580.4	1686.5
77.5°	137.6	149.0	183.1	292.8	381.8	709.8	1572.7	1951.3	1955.5	1579.9	904.3
80°	100.4	111.7	122.1	179.0	202.8	332.1	593.9	815.3	792.5	764.6	489.4
82.5°	60.0	71.4	74.5	97.3	99.3	141.7	208.0	262.8	252.5	336.3	229.7
85°	25.9	36.2	38.3	44.5	42.4	57.9	82.8	69.3	62.1	71.4	49.7
87.5°	6.2	10.3	10.3	11.4	9.3	14.5	15.5	11.4	10.3	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°	1266.4	1266.4	1266.4	1266.4	1266.4	1266.4	1266.4	1266.4	1266.4	1266.4	1266.4
2.5°	1259.2	1256.1	1257.1	1239.5	1234.3	1229.2	1226.1	1224.0	1221.9	1225.0	1228.1
5°	1268.5	1261.2	1253.0	1227.1	1216.7	1205.4	1197.1	1189.8	1186.7	1186.7	1189.8
7.5°	1275.7	1263.3	1245.7	1211.6	1192.9	1177.4	1164.0	1154.7	1149.5	1149.5	1152.6
10°	1276.8	1259.2	1231.2	1189.8	1165.0	1142.3	1126.7	1116.4	1109.1	1109.1	1111.2
12.5°	1283.0	1259.2	1223.0	1173.3	1142.3	1114.3	1095.7	1080.2	1077.1	1077.1	1079.1
15°	1293.3	1264.3	1217.8	1158.8	1121.6	1089.5	1068.8	1052.2	1046.0	1050.2	1051.2
17.5°	1302.6	1267.4	1208.5	1140.2	1095.7	1060.5	1037.8	1023.3	1015.0	1024.3	1024.3
20°	1308.8	1267.4	1195.0	1116.4	1067.8	1028.4	1006.7	989.1	982.9	994.3	995.3
22.5°	1318.1	1266.4	1180.5	1092.6	1037.8	996.4	974.6	961.2	958.1	970.5	974.6
25°	1328.5	1268.5	1165.0	1065.7	1004.6	964.3	947.7	941.5	943.6	959.1	964.3
27.5°	1339.9	1272.6	1149.5	1035.7	968.4	932.2	922.9	926.0	934.3	953.9	960.2
30°	1350.2	1273.7	1127.8	1000.5	927.0	892.9	897.0	910.5	922.9	942.6	949.8
32.5°	1363.7	1274.7	1105.0	962.2	882.6	857.7	876.3	898.1	910.5	929.1	937.4
35°	1396.8	1292.3	1087.4	925.0	841.2	827.7	858.8	886.7	893.9	910.5	917.7
37.5°	1435.1	1321.2	1078.1	886.7	800.8	797.7	837.0	865.0	867.0	877.4	884.6
40°	1458.9	1333.7	1067.8	854.6	764.6	766.7	807.0	828.8	824.6	831.9	837.0
42.5°	1482.7	1337.8	1046.0	827.7	730.5	732.5	763.6	779.1	781.2	796.7	803.9
45°	1523.0	1349.2	1022.2	802.9	699.4	692.2	710.8	731.5	758.4	788.4	796.7
47.5°	1576.8	1373.0	997.4	772.9	669.4	645.6	652.9	689.1	717.0	744.9	750.1
50°	1631.6	1396.8	974.6	736.7	639.4	596.0	599.1	632.2	654.9	676.7	679.8
52.5°	1685.4	1417.5	955.0	702.5	605.3	537.0	549.4	583.5	599.1	609.4	612.5
55°	1739.2	1435.1	937.4	673.6	566.0	490.4	501.8	533.9	549.4	554.6	556.6
57.5°	1795.1	1455.7	923.9	648.7	521.5	449.0	456.3	479.0	493.5	499.7	497.7
60°	1841.7	1473.3	916.7	622.9	477.0	410.8	408.7	429.4	450.1	456.3	454.2
62.5°	1877.9	1484.7	905.3	589.7	437.7	372.5	362.1	389.0	410.8	414.9	418.0
65°	1897.5	1485.8	877.4	547.3	397.3	331.1	323.8	350.7	364.2	368.3	368.3
67.5°	1894.4	1469.2	822.5	490.4	360.1	293.8	287.6	304.2	323.8	326.9	323.8
70°	1830.3	1400.9	734.6	430.4	315.6	260.7	249.4	265.9	284.5	273.1	268.0
72.5°	1648.2	1224.0	605.3	364.2	265.9	219.3	214.2	230.7	231.8	233.8	228.7
75°	1300.6	911.5	453.2	283.5	215.2	184.2	183.1	180.0	184.2	192.4	186.2
77.5°	682.9	455.2	245.2	173.8	156.2	148.0	140.7	139.7	152.1	157.3	151.1
80°	370.4	255.6	140.7	104.5	95.2	96.2	105.5	103.5	116.9	120.0	114.8
82.5°	161.4	121.1	69.3	63.1	63.1	62.1	65.2	72.4	86.9	86.9	69.3
85°	35.2	30.0	26.9	31.0	35.2	35.2	35.2	35.2	24.8	13.5	9.3
87.5°	11.4	11.4	11.4	12.4	13.5	13.5	11.4	8.3	5.2	1.0	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)