

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: P836595

Luminaire Tested: **ARCH3-50-722-U-T2R**

Issue Date: 5/16/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P836595  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2403-329-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/16/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: ARCH3-50-722-U-T2R  
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE  
(1) 70 CRI, 2200K, 425mA LIGHTSQUARE WITH 40 LEDS AND TYPE II ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

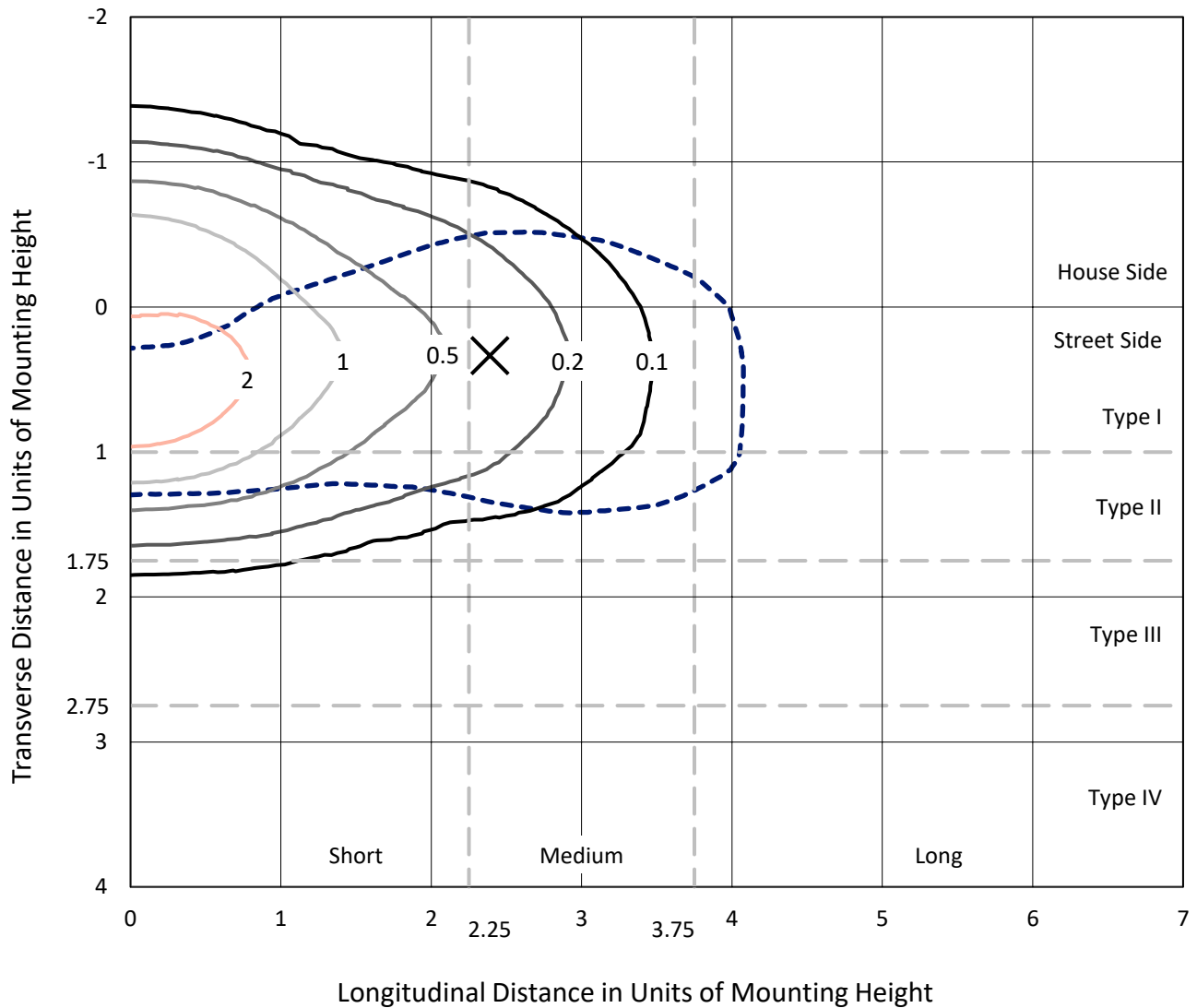
Lumens per Lamp: N/A  
Luminaire Lumens: 7813 lumens  
Efficiency: N/A  
Efficacy: 145.8 lumens/watt  
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B2 - U0 - G2  
  
Input Watts (W): 53.6  
Input Voltage (V): NR  
Input Current (Ain): 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

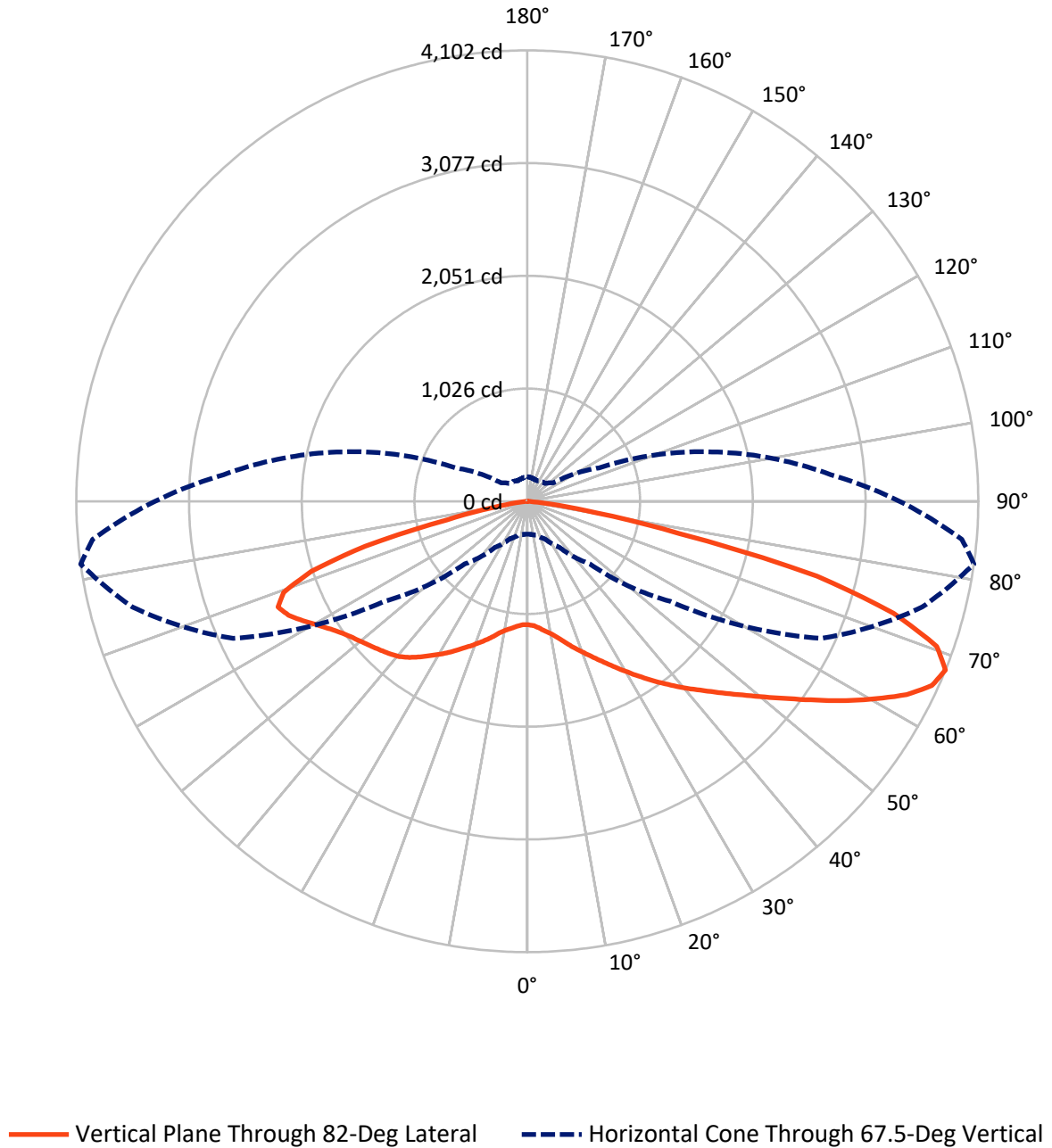
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.4 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



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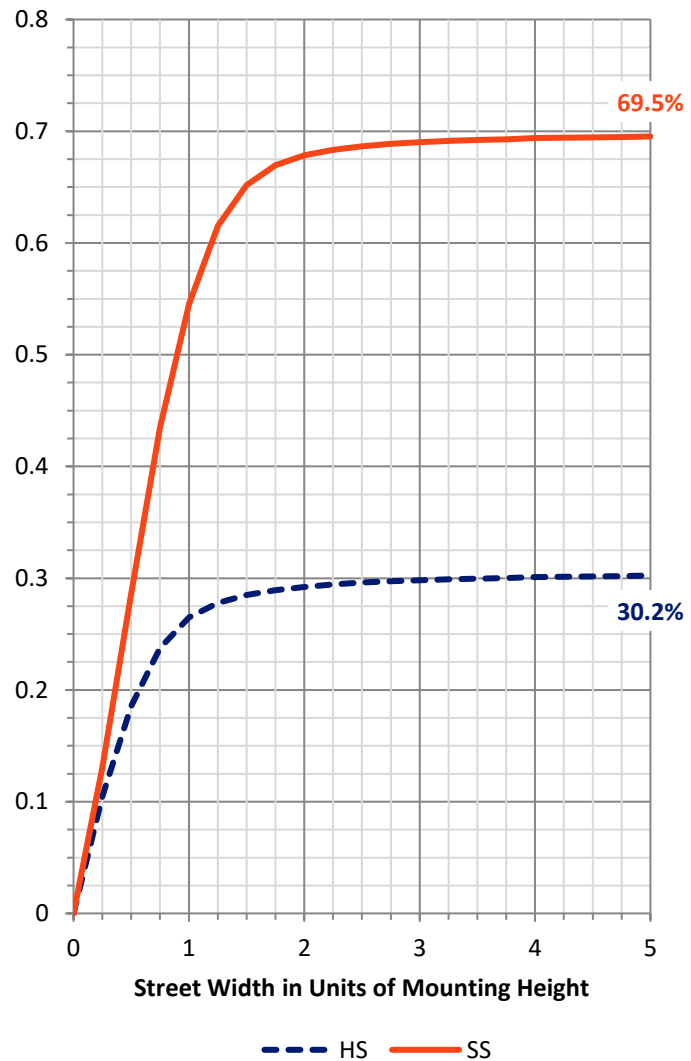
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2379.4	0.0	2379.4
	% Fixture	30.5	0.0	30.5
<b>Street Side</b>	Lumens	5433.6	0.0	5433.6
	% Fixture	69.5	0.0	69.5
<b>Total</b>	Lumens	7813.0	0.0	7813.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	116.1	1.5
10°-20°	418.1	5.4
20°-30°	840.3	10.8
30°-40°	1319.9	16.9
40°-50°	1607.9	20.6
50°-60°	1519.3	19.4
60°-70°	1254.6	16.1
70°-80°	683.2	8.7
80°-90°	53.7	0.7
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°	7813.0	100.0
0°-180°	7813.0	100.0

**Coefficient of Utilization**



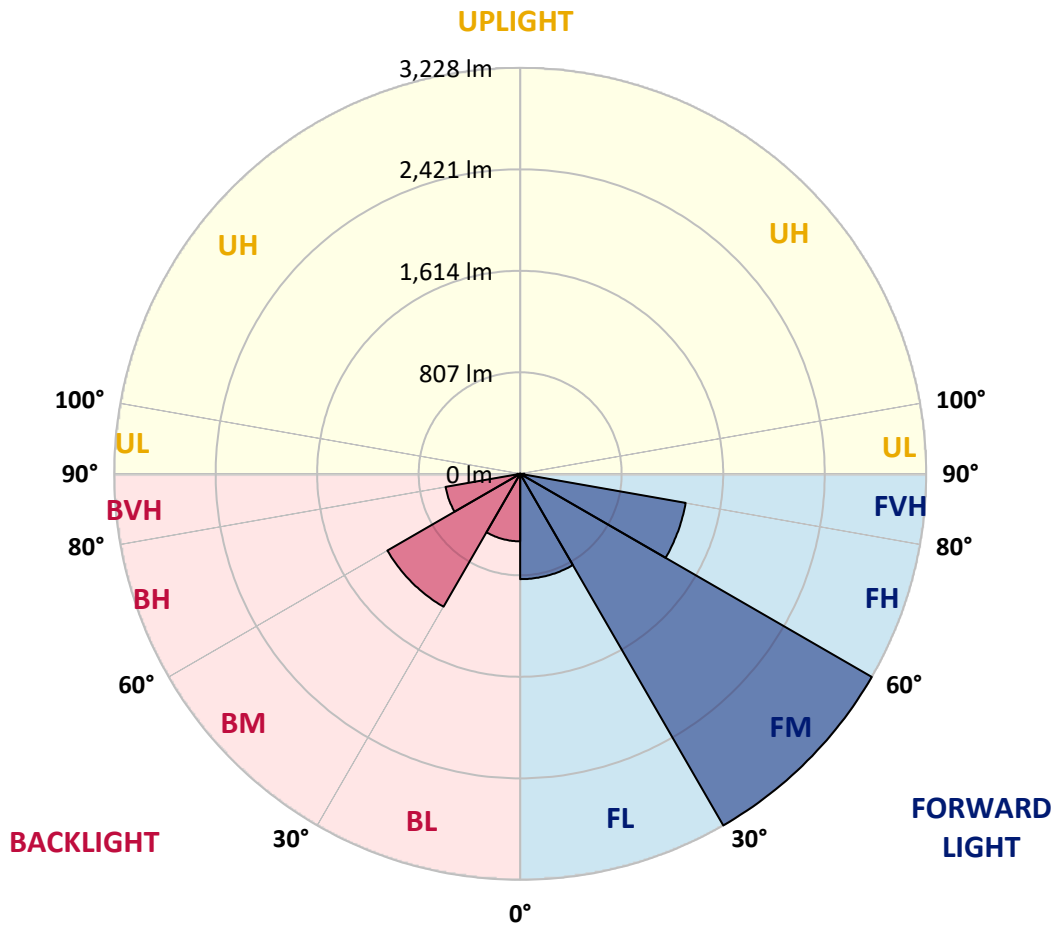
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	837.8	10.7			
FM (30°-60°)	3227.9	41.3			
FH (60°-80°)	1335.5	17.1			G1/1800
FVH (80°-90°)	32.4	0.4			G1/100
BL (0°-30°)	536.6	6.9	B2/1000		
BM (30°-60°)	1219.2	15.6	B2/2500		
BH (60°-80°)	602.2	7.7	B2/1000		G2/1000
BVH (80°-90°)	21.3	0.3			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 II Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°	85°
0°	1123.1	1123.1	1123.1	1123.1	1123.1	1123.1	1123.1	1123.1	1123.1	1123.1	1123.1
2.5°	1174.2	1174.2	1183.2	1183.2	1175.3	1162.8	1159.4	1145.8	1133.3	1133.3	1134.5
5°	1286.5	1285.3	1292.1	1283.1	1263.8	1238.8	1221.8	1192.3	1167.4	1159.4	1158.3
7.5°	1423.7	1422.6	1426.0	1411.3	1375.0	1334.1	1300.1	1252.4	1211.6	1194.6	1190.0
10°	1576.9	1575.8	1572.4	1547.4	1498.6	1435.1	1384.0	1318.2	1257.0	1229.8	1224.1
12.5°	1752.7	1750.5	1742.5	1706.2	1639.3	1557.6	1483.9	1398.8	1317.1	1279.7	1267.2
15°	1949.0	1945.6	1930.8	1886.6	1797.0	1693.7	1598.5	1489.5	1389.7	1340.9	1323.9
17.5°	2155.5	2155.5	2132.8	2067.0	1967.2	1839.0	1721.0	1582.6	1465.7	1405.6	1385.2
20°	2365.3	2364.2	2335.9	2256.4	2138.5	1991.0	1841.2	1689.2	1544.0	1471.4	1446.4
22.5°	2586.6	2584.3	2549.1	2458.4	2317.7	2150.9	1976.2	1794.7	1630.2	1542.9	1511.1
25°	2840.7	2837.3	2794.2	2683.0	2516.2	2327.9	2128.2	1918.4	1728.9	1622.3	1584.8
27.5°	3110.7	3106.1	3055.1	2925.8	2743.1	2516.2	2296.1	2061.3	1837.8	1710.8	1668.8
30°	3351.2	3347.8	3292.2	3159.5	2949.6	2703.4	2456.1	2204.3	1952.4	1804.9	1752.7
32.5°	3532.7	3532.7	3482.8	3352.3	3134.5	2882.7	2617.2	2339.3	2071.5	1905.9	1844.6
35°	3642.7	3646.2	3603.0	3498.7	3293.3	3051.7	2784.0	2498.1	2198.6	2013.7	1947.9
37.5°	3658.6	3670.0	3645.0	3574.7	3403.4	3192.4	2947.3	2651.2	2330.2	2122.6	2048.8
40°	3584.9	3592.8	3594.0	3566.7	3448.8	3293.3	3091.4	2813.5	2469.7	2237.2	2152.1
42.5°	3437.4	3443.1	3453.3	3461.2	3415.9	3337.6	3201.4	2964.3	2618.3	2354.0	2254.2
45°	3246.8	3245.7	3262.7	3296.7	3294.5	3312.6	3262.7	3101.6	2772.6	2486.7	2367.6
47.5°	2962.1	2956.4	3016.5	3093.7	3132.2	3217.3	3263.8	3209.4	2940.5	2633.1	2496.9
50°	2516.2	2510.6	2642.2	2823.7	2937.1	3066.4	3201.4	3274.0	3116.4	2797.6	2637.6
52.5°	1974.0	1968.3	2135.1	2452.7	2700.0	2888.3	3075.5	3288.8	3283.1	2981.4	2796.4
55°	1468.0	1463.5	1625.7	1969.4	2369.9	2681.9	2921.2	3250.2	3439.7	3192.4	2989.3
57.5°	1034.6	1032.4	1173.0	1457.8	1945.6	2430.0	2772.6	3175.4	3583.8	3421.5	3207.1
60°	726.1	722.7	824.8	1044.8	1471.4	2050.0	2625.1	3075.5	3691.5	3647.3	3438.5
62.5°	489.0	486.7	559.3	743.1	1044.8	1578.0	2401.7	3008.6	3752.8	3874.2	3672.2
65°	371.0	369.8	402.7	503.7	739.7	1133.3	2046.6	3000.6	3760.7	4044.3	3870.8
67.5°	299.5	300.6	318.8	376.6	511.6	805.5	1587.1	2950.7	3718.8	4102.2	3967.2
70°	245.0	245.0	253.0	291.6	377.8	543.4	1108.4	2723.8	3601.9	3951.3	3852.6
72.5°	187.2	188.3	213.3	236.0	284.7	381.2	710.2	2254.2	3326.2	3483.9	3409.1
75°	148.6	147.5	162.2	194.0	221.2	272.3	435.6	1616.6	2830.5	2722.7	2675.1
77.5°	106.6	105.5	116.8	144.1	167.9	192.9	259.8	815.7	1539.5	1414.7	1379.5
80°	72.6	70.3	80.5	99.8	111.2	113.4	127.1	313.1	671.6	633.0	625.1
82.5°	37.4	37.4	43.1	56.7	57.9	59.0	56.7	101.0	222.4	207.6	198.5
85°	14.7	14.7	15.9	19.3	19.3	20.4	20.4	26.1	23.8	22.7	21.6
87.5°	1.1	1.1	2.3	2.3	3.4	3.4	3.4	4.5	5.7	5.7	5.7
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°	1123.1	1123.1	1123.1	1123.1	1123.1	1123.1	1123.1	1123.1	1123.1	1123.1	1123.1
2.5°	1132.2	1127.7	1112.9	1109.5	1107.2	1103.8	1105.0	1097.0	1093.6	1094.8	1090.2
5°	1152.6	1144.7	1126.5	1118.6	1116.3	1112.9	1116.3	1110.6	1105.0	1107.2	1105.0
7.5°	1181.0	1169.6	1146.9	1139.0	1137.9	1134.5	1139.0	1134.5	1129.9	1132.2	1127.7
10°	1210.5	1195.7	1170.8	1162.8	1162.8	1161.7	1166.2	1159.4	1154.9	1156.0	1153.7
12.5°	1253.6	1234.3	1207.1	1200.3	1196.9	1200.3	1201.4	1192.3	1184.4	1185.5	1182.1
15°	1305.8	1284.2	1254.7	1244.5	1242.2	1241.1	1236.6	1225.2	1215.0	1213.9	1210.5
17.5°	1362.5	1335.3	1300.1	1289.9	1279.7	1276.3	1264.9	1250.2	1234.3	1234.3	1229.8
20°	1416.9	1386.3	1344.3	1329.6	1314.8	1301.2	1281.9	1258.1	1237.7	1234.3	1229.8
22.5°	1475.9	1439.6	1390.8	1369.3	1343.2	1316.0	1283.1	1251.3	1225.2	1219.5	1216.1
25°	1541.7	1496.4	1438.5	1406.7	1364.8	1322.8	1274.0	1233.2	1202.5	1193.5	1191.2
27.5°	1614.3	1559.9	1489.5	1443.0	1381.8	1316.0	1253.6	1204.8	1167.4	1156.0	1152.6
30°	1688.1	1623.4	1536.1	1468.0	1381.8	1294.4	1216.1	1159.4	1116.3	1100.4	1098.2
32.5°	1761.8	1689.2	1578.0	1481.6	1368.2	1258.1	1167.4	1100.4	1051.6	1032.4	1036.9
35°	1850.3	1761.8	1616.6	1487.3	1345.5	1213.9	1111.8	1033.5	983.6	966.6	970.0
37.5°	1942.2	1834.4	1647.2	1482.7	1313.7	1164.0	1049.4	973.4	911.0	881.5	884.9
40°	2021.6	1900.2	1668.8	1466.9	1272.9	1107.2	988.1	888.3	802.1	773.7	770.3
42.5°	2096.5	1949.0	1680.1	1443.0	1226.4	1041.4	900.8	772.6	686.3	651.2	652.3
45°	2174.8	1996.6	1675.6	1411.3	1168.5	964.3	788.4	659.1	583.1	551.3	552.5
47.5°	2264.4	2047.7	1671.1	1377.2	1098.2	864.5	680.7	559.3	493.5	470.8	468.5
50°	2359.7	2104.4	1665.4	1335.3	1019.9	753.3	574.0	466.3	410.7	395.9	392.5
52.5°	2467.4	2165.7	1662.0	1285.3	925.7	635.3	478.7	384.6	347.1	336.9	335.8
55°	2596.8	2237.2	1666.5	1225.2	812.3	524.1	398.2	331.3	306.3	300.6	299.5
57.5°	2754.5	2329.0	1680.1	1154.9	693.2	427.7	339.2	298.4	282.5	277.9	277.9
60°	2925.8	2433.4	1705.1	1075.5	574.0	352.8	300.6	272.3	265.5	271.1	271.1
62.5°	3110.7	2555.9	1749.3	979.0	462.9	298.4	270.0	250.7	246.2	257.5	258.7
65°	3282.0	2675.1	1777.7	863.3	367.6	258.7	246.2	229.2	231.4	242.8	241.6
67.5°	3387.5	2773.8	1738.0	718.1	291.6	229.2	221.2	206.5	212.1	221.2	222.4
70°	3322.8	2718.2	1541.7	542.3	228.0	199.7	194.0	184.9	189.5	200.8	205.3
72.5°	3006.3	2434.5	1199.1	366.4	183.8	167.9	170.2	165.6	171.3	181.5	191.7
75°	2440.2	1840.1	804.3	234.8	145.2	142.9	146.3	142.9	145.2	155.4	161.1
77.5°	1274.0	897.4	400.5	146.3	107.8	111.2	116.8	118.0	124.8	127.1	129.3
80°	594.5	403.9	166.8	81.7	71.5	78.3	89.6	90.8	93.0	96.4	97.6
82.5°	194.0	121.4	77.1	44.2	40.8	44.2	57.9	69.2	70.3	77.1	77.1
85°	20.4	12.5	17.0	18.2	15.9	19.3	26.1	25.0	11.3	6.8	6.8
87.5°	5.7	4.5	5.7	5.7	4.5	4.5	3.4	1.1	0.0	0.0	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)