

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: P481310

Luminaire Tested: **IFLD-S-SA2A-750-U-RW**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P481310  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA2A-750-U-RW  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ RW distribution lens  
Light Source: (32) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

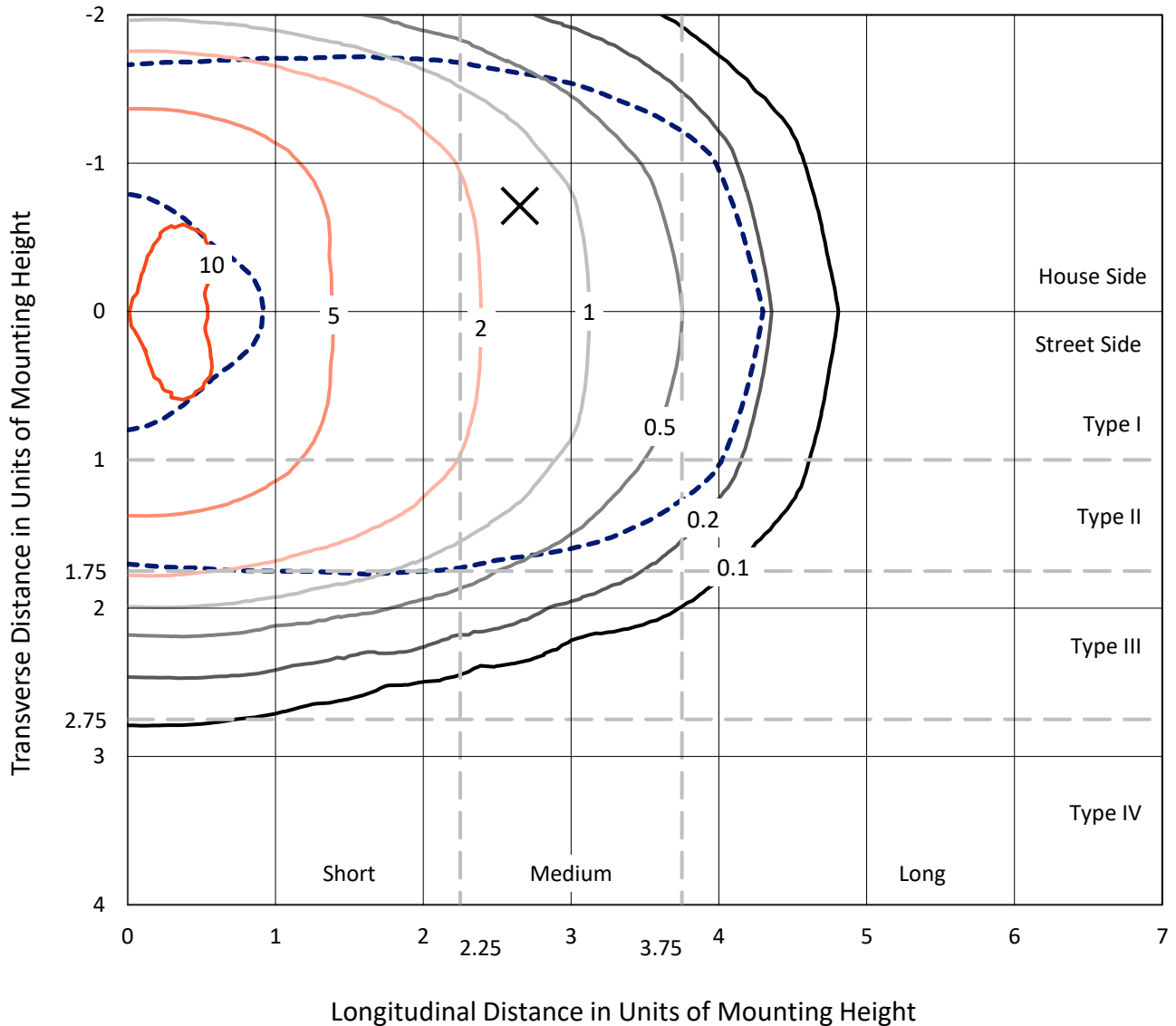
Lumens per Lamp: N/A  
Luminaire Lumens: 9727.2 lumens  
Efficiency: N/A  
Efficacy: 152.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3

Input Watts (W): 63.8  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): 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

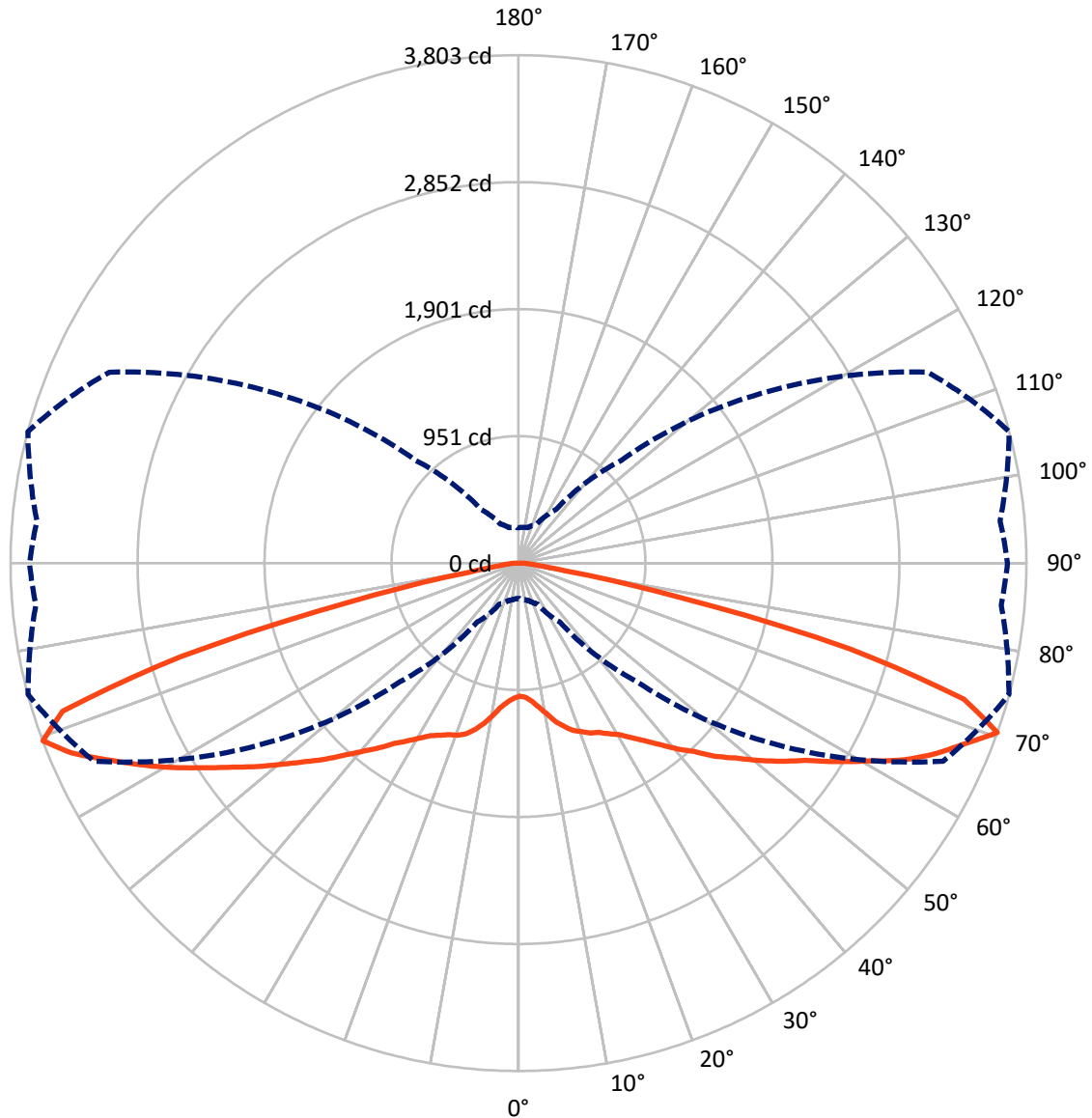
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 11.8 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 105-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

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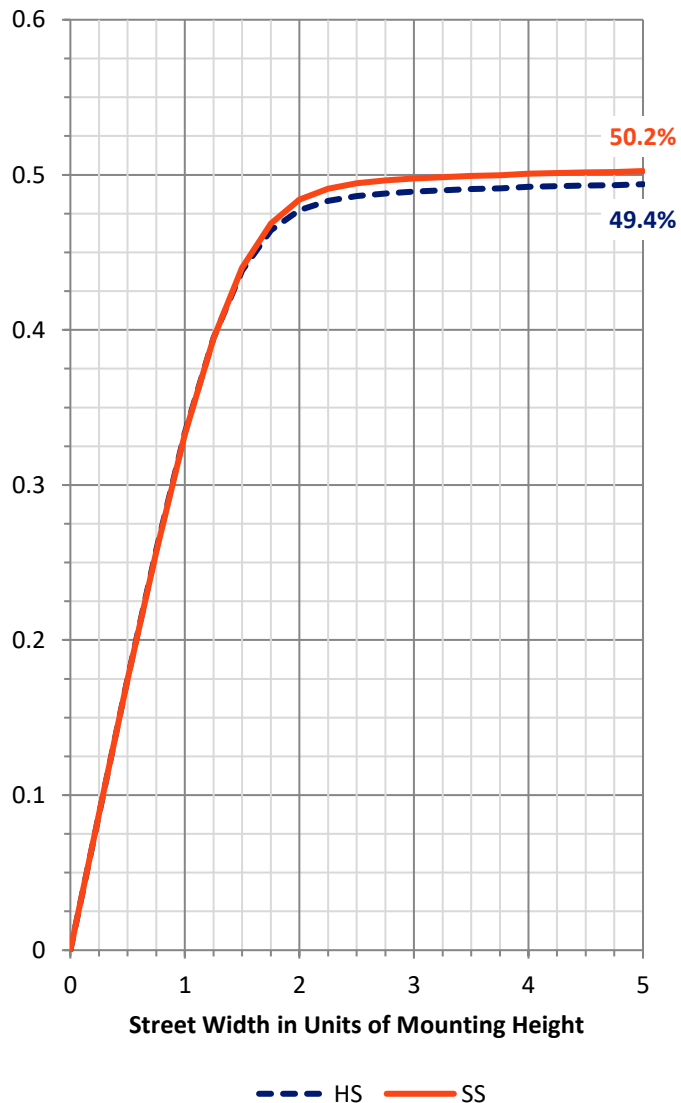
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4829.0	0.0	4829.0
	% Fixture	49.6	0.0	49.6
<b>Street Side</b>	Lumens	4898.2	0.0	4898.2
	% Fixture	50.4	0.0	50.4
<b>Total</b>	Lumens	9727.2	0.0	9727.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	99.1	1.0
10°-20°	337.6	3.5
20°-30°	653.6	6.7
30°-40°	1105.6	11.4
40°-50°	1763.7	18.1
50°-60°	2414.2	24.8
60°-70°	2275.5	23.4
70°-80°	1002.4	10.3
80°-90°	75.4	0.8
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°	9727.2	100.0
0°-180°	9727.2	100.0

**Coefficient of Utilization**



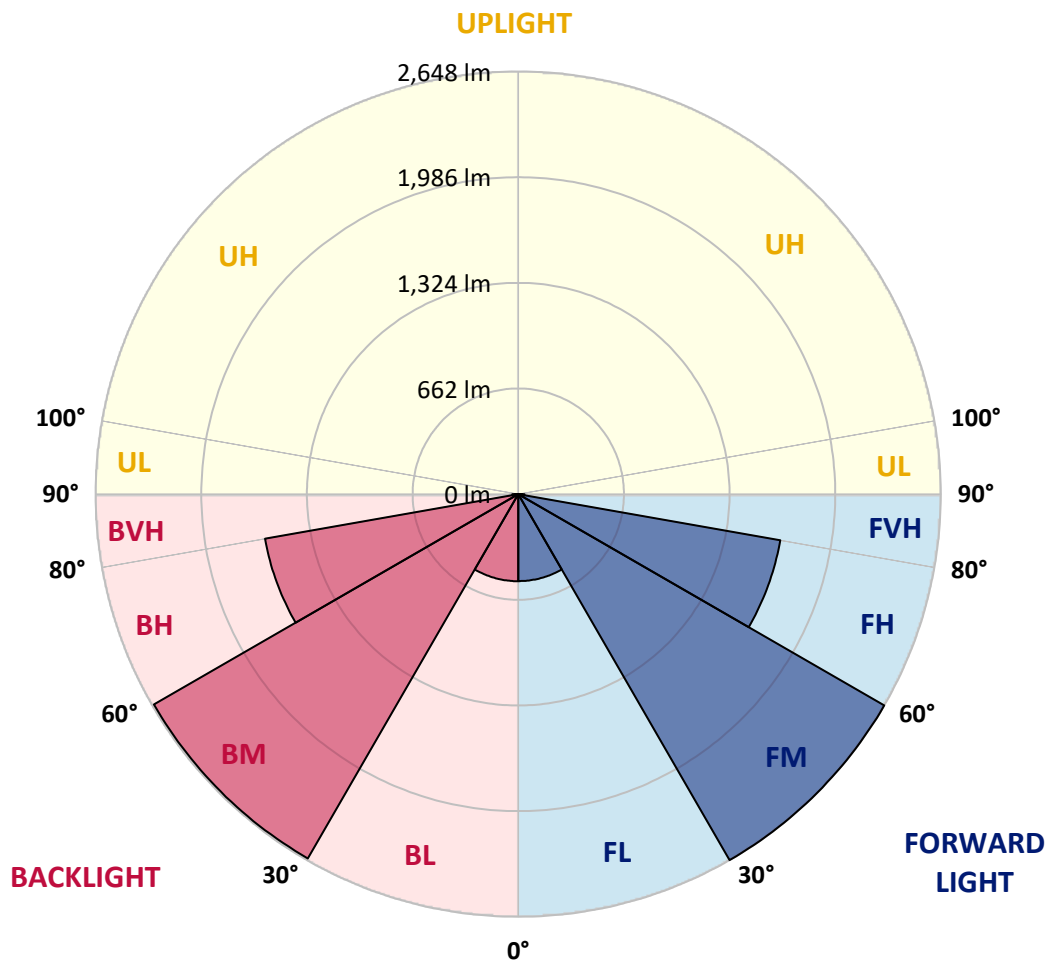
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	544.9	5.6			
FM (30°-60°)	2647.7	27.2			
FH (60°-80°)	1667.1	17.1			G1/1800
FVH (80°-90°)	38.5	0.4			G1/100
BL (0°-30°)	545.5	5.6	B2/1000		
BM (30°-60°)	2635.8	27.1	B3/5000		
BH (60°-80°)	1610.8	16.6	B3/2500		G3/2500
BVH (80°-90°)	36.9	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G3**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	996.1	996.1	996.1	996.1	996.1	996.1	996.1	996.1	996.1	996.1	996.1
2.5°	989.8	989.8	988.7	994.0	999.2	1001.3	1005.5	1006.5	1012.8	1007.6	1018.1
5°	986.6	985.6	994.0	1006.5	1006.5	1020.2	1028.6	1040.1	1043.2	1049.5	1051.6
7.5°	1008.6	1006.5	1002.3	1016.0	1027.5	1048.5	1060.0	1079.9	1087.3	1095.7	1105.1
10°	1022.3	1022.3	1018.1	1042.2	1052.7	1081.0	1106.1	1126.1	1154.4	1163.8	1164.9
12.5°	1024.4	1027.5	1040.1	1071.5	1100.9	1137.6	1156.5	1194.2	1222.5	1240.4	1246.6
15°	1055.8	1049.5	1063.2	1106.1	1149.1	1181.6	1215.2	1242.4	1283.3	1306.4	1321.1
17.5°	1084.1	1077.8	1103.0	1154.4	1198.4	1248.7	1278.1	1307.5	1336.8	1357.8	1358.8
20°	1129.2	1134.5	1156.5	1212.0	1269.7	1313.7	1347.3	1352.5	1367.2	1397.6	1392.4
22.5°	1184.8	1180.6	1226.7	1287.5	1350.4	1387.1	1406.0	1392.4	1385.0	1417.5	1424.9
25°	1240.4	1252.9	1294.9	1351.5	1427.0	1476.3	1481.5	1443.8	1416.5	1428.0	1424.9
27.5°	1325.3	1327.4	1371.4	1438.5	1515.1	1558.0	1554.9	1501.4	1449.0	1450.0	1452.1
30°	1434.3	1423.8	1472.1	1532.9	1608.4	1647.2	1652.4	1575.9	1505.6	1484.6	1489.9
32.5°	1539.2	1551.8	1593.7	1662.9	1718.5	1740.5	1728.9	1660.8	1569.6	1541.3	1544.4
35°	1673.4	1671.3	1728.9	1787.7	1829.6	1833.8	1824.4	1724.7	1638.8	1602.1	1587.4
37.5°	1817.0	1835.9	1873.6	1921.9	1965.9	1968.0	1916.6	1836.9	1731.0	1670.2	1688.1
40°	1977.4	1998.4	2025.7	2095.9	2128.4	2094.9	2042.4	1934.4	1824.4	1770.9	1779.3
42.5°	2119.0	2128.4	2184.0	2266.8	2282.5	2267.9	2190.3	2059.2	1931.3	1872.6	1876.8
45°	2249.0	2261.6	2333.9	2408.4	2445.1	2419.9	2329.7	2205.0	2056.1	2005.7	1985.8
47.5°	2368.5	2393.7	2463.9	2540.5	2597.1	2599.2	2488.0	2337.1	2179.8	2113.7	2112.7
50°	2449.2	2485.9	2555.1	2642.2	2725.0	2757.5	2646.4	2483.8	2315.0	2244.8	2237.5
52.5°	2493.3	2531.0	2600.2	2735.5	2827.8	2878.1	2825.7	2621.2	2473.4	2400.0	2388.4
55°	2439.8	2465.0	2578.2	2768.0	2910.6	2993.4	2958.8	2811.0	2630.6	2570.9	2581.4
57.5°	2212.3	2264.7	2404.2	2641.1	2908.5	3111.9	3108.7	2990.3	2812.0	2755.4	2757.5
60°	1821.2	1865.2	2037.2	2368.5	2791.1	3160.1	3271.3	3164.3	3015.4	2949.4	2947.3
62.5°	1285.4	1341.0	1540.2	1901.9	2445.1	3093.0	3457.9	3383.4	3214.6	3166.4	3184.2
65°	719.3	752.8	937.3	1264.5	1863.1	2724.0	3491.4	3611.0	3417.0	3343.6	3346.7
67.5°	384.8	397.4	483.3	663.7	1139.7	2100.1	3152.8	3742.0	3636.1	3509.3	3489.3
70°	264.2	268.4	290.4	339.7	538.9	1256.1	2378.0	3508.2	3800.7	3627.7	3661.3
72.5°	223.3	221.2	226.5	231.7	282.0	562.0	1395.5	2699.8	3587.9	3522.9	3510.3
75°	194.0	192.9	195.0	189.8	196.1	247.4	617.6	1682.8	2626.4	2931.6	2978.7
77.5°	160.4	161.5	162.5	157.3	155.2	163.6	248.5	739.2	1292.8	1427.0	1539.2
80°	121.6	123.7	132.1	126.9	118.5	119.5	146.8	247.4	371.2	336.6	347.0
82.5°	82.8	83.9	101.7	95.4	89.1	80.7	94.4	127.9	144.7	110.1	96.5
85°	58.7	57.7	66.1	60.8	56.6	40.9	56.6	72.3	87.0	54.5	49.3
87.5°	13.6	13.6	27.3	22.0	21.0	16.8	22.0	28.3	37.7	24.1	22.0
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):**

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	996.1	996.1	996.1	996.1	996.1	996.1	996.1	996.1	996.1	996.1
2.5°	1014.9	1005.5	1005.5	1003.4	995.0	992.9	985.6	987.7	982.4	977.2
5°	1050.6	1038.0	1038.0	1020.2	1003.4	1001.3	992.9	992.9	984.5	986.6
7.5°	1099.9	1088.3	1069.4	1053.7	1030.7	1021.2	1005.5	1003.4	1001.3	997.1
10°	1158.6	1143.9	1125.0	1092.5	1073.6	1055.8	1040.1	1018.1	1012.8	1013.9
12.5°	1238.3	1215.2	1174.3	1146.0	1121.9	1098.8	1075.7	1043.2	1035.9	1039.0
15°	1294.9	1265.5	1224.6	1214.1	1181.6	1153.3	1115.6	1078.9	1066.3	1063.2
17.5°	1341.0	1316.9	1292.8	1277.0	1250.8	1216.2	1163.8	1121.9	1093.6	1090.4
20°	1378.8	1347.3	1342.1	1351.5	1319.0	1295.9	1232.0	1180.6	1142.8	1127.1
22.5°	1401.8	1381.9	1396.6	1405.0	1402.9	1364.1	1298.0	1238.3	1191.1	1176.4
25°	1427.0	1403.9	1456.3	1484.6	1492.0	1428.0	1376.7	1298.0	1251.9	1242.4
27.5°	1439.6	1448.0	1508.8	1568.5	1563.3	1514.0	1444.8	1374.6	1337.9	1321.1
30°	1476.3	1489.9	1582.2	1649.3	1650.3	1602.1	1549.7	1470.0	1429.1	1421.7
32.5°	1542.3	1559.1	1657.6	1728.9	1741.5	1704.8	1652.4	1603.1	1561.2	1544.4
35°	1592.6	1635.6	1746.8	1811.8	1845.3	1823.3	1793.9	1742.6	1698.5	1683.9
37.5°	1665.0	1724.7	1831.7	1919.8	1957.5	1955.4	1933.4	1877.8	1841.1	1828.5
40°	1768.8	1828.5	1926.1	2042.4	2112.7	2109.5	2097.0	2054.0	1999.5	1993.2
42.5°	1878.9	1928.2	2055.0	2188.2	2288.8	2278.3	2244.8	2194.5	2156.7	2148.3
45°	1985.8	2062.4	2179.8	2350.7	2426.2	2452.4	2412.6	2326.6	2283.6	2278.3
47.5°	2120.0	2180.8	2327.6	2480.7	2592.9	2597.1	2528.9	2449.2	2370.6	2387.4
50°	2239.6	2320.3	2469.2	2636.9	2771.1	2722.9	2635.9	2536.3	2479.7	2457.6
52.5°	2367.5	2466.0	2639.0	2809.9	2884.4	2836.1	2694.6	2583.5	2497.5	2488.0
55°	2554.1	2605.5	2831.9	2963.0	2987.1	2885.4	2676.8	2519.5	2408.4	2381.1
57.5°	2743.9	2803.6	3001.8	3115.0	3089.9	2858.2	2561.4	2318.2	2172.5	2133.7
60°	2935.7	3009.1	3175.8	3279.6	3149.6	2670.5	2235.4	1921.9	1752.0	1717.4
62.5°	3149.6	3245.0	3393.9	3430.6	2972.4	2299.3	1774.0	1387.1	1215.2	1157.5
65°	3339.4	3436.9	3620.4	3399.2	2596.0	1715.3	1147.0	792.7	665.8	619.7
67.5°	3495.6	3605.7	3695.9	3008.1	1900.9	1004.4	597.6	417.3	370.1	353.3
70°	3619.4	3802.8	3381.3	2211.2	1086.2	489.6	322.9	274.7	268.4	264.2
72.5°	3511.4	3487.2	2524.7	1276.0	476.0	269.5	233.8	226.5	225.4	226.5
75°	2871.8	2561.4	1509.8	554.6	239.1	195.0	194.0	190.8	196.1	196.1
77.5°	1393.4	1218.3	631.2	238.0	157.3	153.1	158.3	158.3	158.3	158.3
80°	322.9	357.5	225.4	144.7	114.3	114.3	125.8	126.9	121.6	119.5
82.5°	110.1	146.8	123.7	91.2	75.5	84.9	95.4	97.5	80.7	81.8
85°	54.5	86.0	67.1	52.4	38.8	52.4	61.9	65.0	55.6	53.5
87.5°	25.2	37.7	25.2	17.8	13.6	18.9	17.8	14.7	8.4	8.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)