

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: P478853

Luminaire Tested: **IFLD-S-SA2A-730-U-5NQ**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P478853  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA2A-730-U-5NQ  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5NQ distribution lens  
Light Source: (32) 3000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

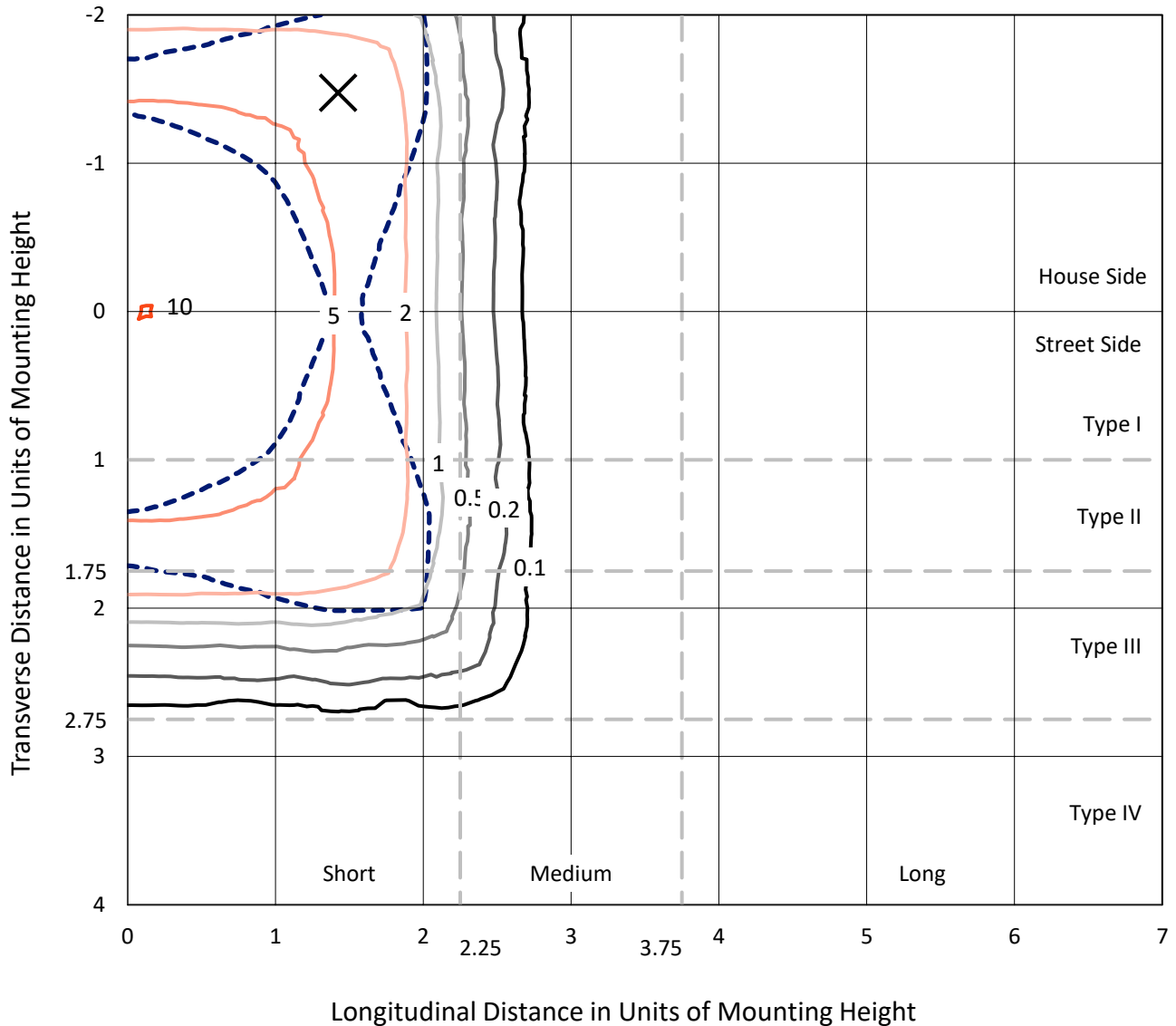
Lumens per Lamp: N/A  
Luminaire Lumens: 8384.8 lumens  
Efficiency: N/A  
Efficacy: 131.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B3 - U0 - G1

Input Watts (W): 63.8  
Input Voltage (V): 120  
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

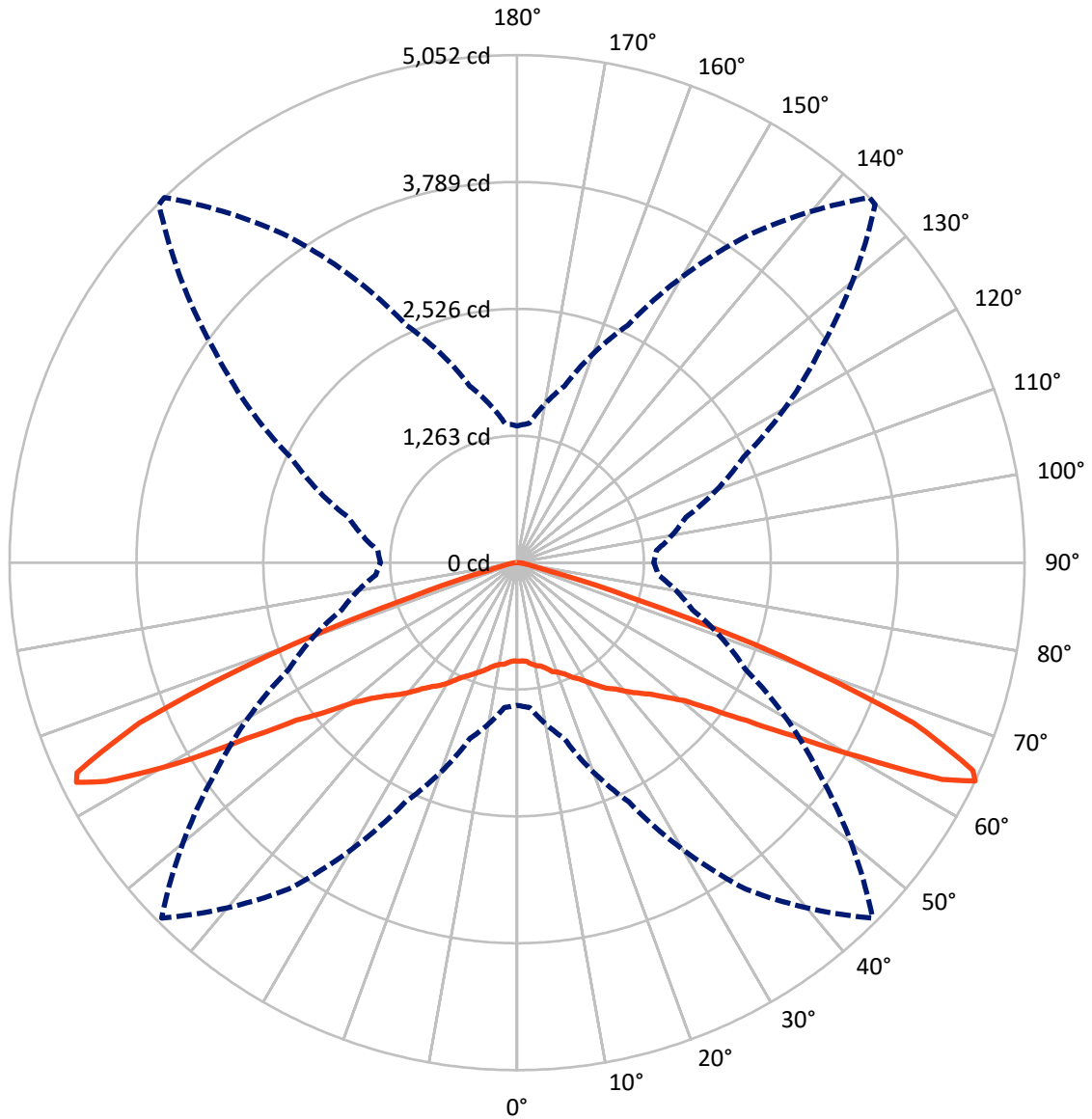
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 10.1 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 136-Deg Lateral      - - - Horizontal Cone Through 64-Deg Vertical

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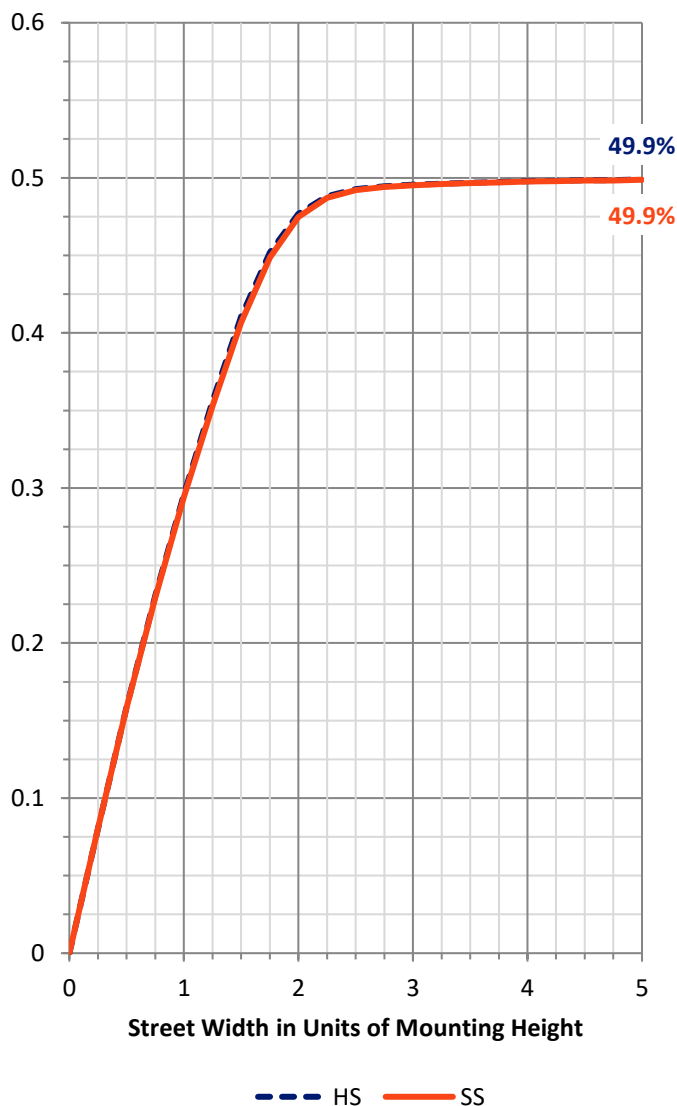
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4196.4	0.0	4196.4
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	4188.4	0.0	4188.4
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	8384.8	0.0	8384.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	96.5	1.2
10°-20°	310.9	3.7
20°-30°	584.3	7.0
30°-40°	963.6	11.5
40°-50°	1507.0	18.0
50°-60°	2434.9	29.0
60°-70°	2192.5	26.1
70°-80°	259.7	3.1
80°-90°	35.6	0.4
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°	8384.8	100.0
0°-180°	8384.8	100.0

**Coefficient of Utilization**



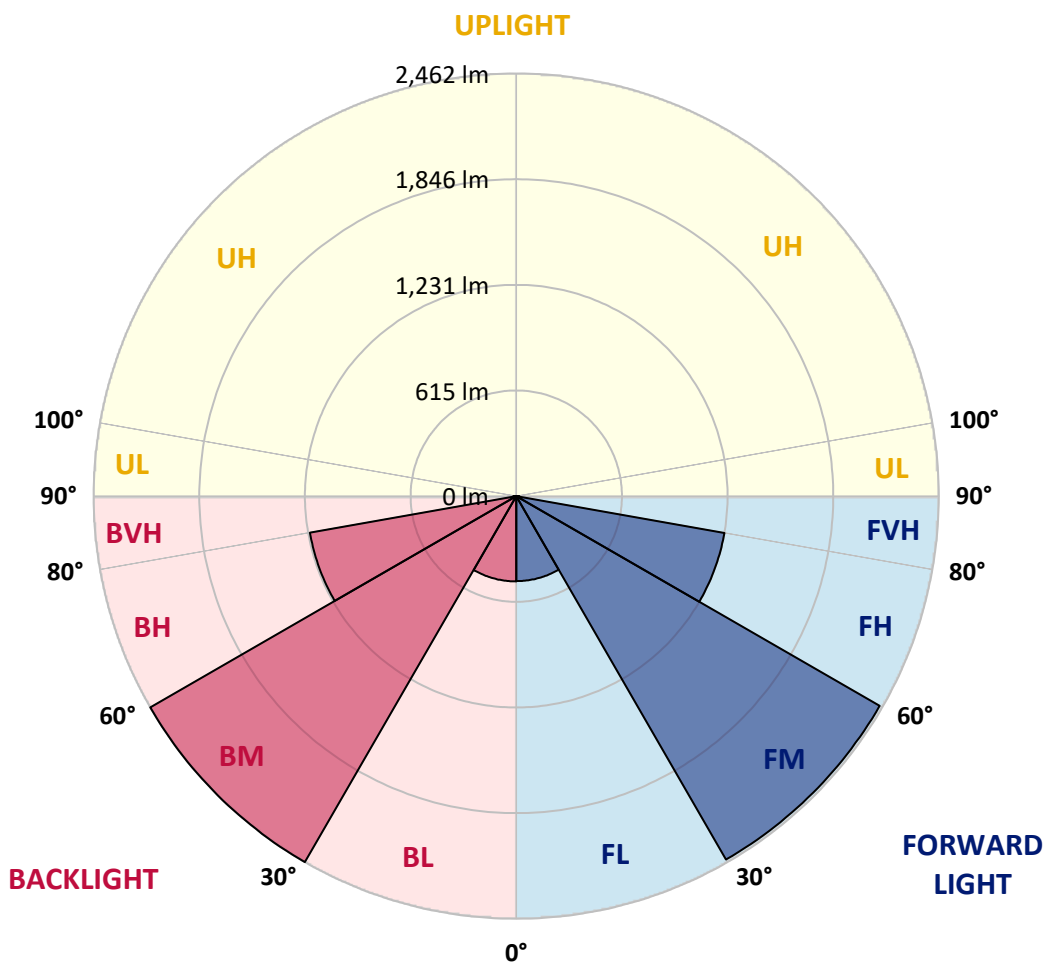
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	494.9	5.9			
FM (30°-60°)	2443.9	29.1			
FH (60°-80°)	1231.4	14.7			G1/1800
FVH (80°-90°)	18.2	0.2			G1/100
BL (0°-30°)	496.8	5.9	B1/500		
BM (30°-60°)	2461.5	29.4	B2/2500		
BH (60°-80°)	1220.8	14.6	B3/2500		G1/1800
BVH (80°-90°)	17.3	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G1**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	981.7	981.7	981.7	981.7	981.7	981.7	981.7	981.7	981.7	981.7	981.7
2.5°	970.1	972.1	989.4	982.6	988.4	977.8	985.5	1001.9	982.6	997.1	1001.9
5°	980.7	983.6	983.6	990.3	994.2	992.3	997.1	990.3	1008.6	1000.9	1012.5
7.5°	1019.2	1014.4	1006.7	1012.5	1013.4	1018.2	1023.0	1031.7	1028.8	1022.1	1033.6
10°	1025.9	1022.1	1033.6	1034.6	1029.8	1025.9	1030.7	1030.7	1039.4	1041.3	1041.3
12.5°	1037.5	1041.3	1040.3	1048.0	1049.0	1046.1	1053.8	1068.2	1064.4	1067.3	1060.5
15°	1081.7	1076.9	1075.9	1083.6	1096.1	1077.8	1091.3	1090.3	1086.5	1092.3	1076.9
17.5°	1120.1	1104.8	1111.5	1124.0	1119.2	1123.0	1140.3	1124.9	1128.8	1122.1	1117.3
20°	1153.8	1141.3	1142.3	1147.1	1147.1	1158.6	1165.3	1159.6	1155.7	1154.8	1156.7
22.5°	1191.3	1176.9	1177.8	1198.0	1204.8	1200.9	1196.1	1205.7	1207.6	1199.9	1208.6
25°	1219.2	1234.6	1239.4	1249.0	1234.6	1245.1	1241.3	1259.6	1271.1	1255.7	1266.3
27.5°	1292.2	1285.5	1298.0	1297.1	1308.6	1298.0	1304.7	1310.5	1315.3	1316.3	1311.5
30°	1357.6	1360.5	1348.0	1381.7	1354.7	1372.1	1383.6	1386.5	1392.2	1392.2	1377.8
32.5°	1426.9	1421.1	1441.3	1433.6	1428.8	1442.2	1429.7	1469.2	1446.1	1459.5	1443.2
35°	1504.7	1504.7	1512.4	1533.6	1504.7	1496.1	1519.2	1535.5	1535.5	1511.5	1517.2
37.5°	1592.2	1584.5	1594.2	1621.1	1599.0	1570.1	1612.4	1619.2	1614.3	1607.6	1596.1
40°	1653.8	1651.8	1671.1	1706.7	1674.9	1669.2	1676.8	1695.1	1700.9	1707.6	1692.2
42.5°	1757.6	1766.3	1822.0	1813.4	1787.4	1767.2	1765.3	1833.6	1817.2	1799.9	1791.3
45°	1911.4	1903.8	1932.6	1933.6	1899.9	1855.7	1865.3	1927.8	1955.7	1917.2	1931.6
47.5°	2033.6	2037.4	2057.6	2098.9	2021.1	1974.9	2010.5	2111.4	2102.8	2088.4	2101.8
50°	2197.0	2214.3	2277.8	2263.4	2194.1	2137.4	2215.3	2310.5	2321.0	2268.2	2258.5
52.5°	2423.0	2449.9	2484.5	2496.0	2429.7	2409.5	2414.3	2532.6	2506.6	2455.7	2423.0
55°	2621.0	2633.5	2697.0	2792.2	2787.4	2690.3	2746.0	2790.3	2684.5	2579.7	2588.3
57.5°	2705.6	2711.4	2888.3	3078.7	3192.2	3214.3	3150.8	3001.8	2749.9	2548.0	2535.5
60°	2495.1	2549.9	2763.3	3193.1	3711.4	3967.1	3545.0	3025.8	2597.0	2351.8	2333.5
62.5°	1994.1	1997.0	2314.3	2966.2	4034.4	4704.6	3696.0	2799.9	2189.3	1911.4	1838.4
64°	1420.1	1447.0	1811.5	2625.8	3967.1	5004.6	3677.7	2504.7	1804.7	1410.5	1359.6
65°	1019.2	1056.7	1408.6	2279.7	3809.4	4969.0	3622.9	2250.9	1459.5	1076.9	1025.0
67.5°	375.0	390.4	552.9	1140.3	2735.4	4234.4	2871.0	1237.4	641.3	456.7	410.6
70°	174.0	175.0	204.8	376.9	1196.1	2831.6	1370.1	464.4	241.3	191.3	177.9
72.5°	127.9	130.8	143.3	174.0	351.9	1199.0	450.0	190.4	141.3	125.0	122.1
75°	103.8	105.8	109.6	126.0	162.5	321.1	182.7	131.7	112.5	101.0	97.1
77.5°	79.8	79.8	88.5	96.1	107.7	150.0	121.1	104.8	91.3	79.8	76.9
80°	57.7	58.7	69.2	75.0	73.1	99.0	87.5	86.5	75.0	62.5	57.7
82.5°	33.7	36.5	50.0	53.8	51.9	58.7	63.5	67.3	58.7	43.3	39.4
85°	19.2	20.2	28.8	29.8	29.8	27.9	36.5	40.4	39.4	26.9	24.0
87.5°	5.8	5.8	7.7	7.7	8.7	9.6	14.4	17.3	19.2	13.5	12.5
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°	136°	145°	155°	165°	175°	180°
0°	981.7	981.7	981.7	981.7	981.7	981.7	981.7	981.7	981.7	981.7	981.7
2.5°	997.1	982.6	983.6	987.5	975.0	979.8	994.2	983.6	980.7	975.0	972.1
5°	992.3	1007.6	1001.9	1003.8	1000.9	987.5	985.5	994.2	999.0	990.3	1007.6
7.5°	1025.9	1019.2	1011.5	1014.4	1007.6	1019.2	1026.9	1009.6	1018.2	1013.4	1003.8
10°	1045.1	1032.6	1038.4	1036.5	1031.7	1043.2	1035.5	1033.6	1025.9	1015.3	1030.7
12.5°	1051.9	1066.3	1075.9	1059.6	1062.5	1056.7	1051.9	1051.9	1043.2	1040.3	1043.2
15°	1081.7	1094.2	1090.3	1102.8	1086.5	1092.3	1098.0	1083.6	1091.3	1070.1	1086.5
17.5°	1136.5	1125.9	1139.4	1123.0	1128.8	1140.3	1122.1	1122.1	1127.8	1116.3	1101.9
20°	1171.1	1166.3	1161.5	1162.4	1152.8	1163.4	1157.6	1154.8	1146.1	1149.9	1157.6
22.5°	1203.8	1197.1	1199.0	1201.9	1208.6	1203.8	1200.9	1203.8	1182.6	1201.9	1174.9
25°	1244.2	1262.4	1256.7	1269.2	1249.9	1262.4	1261.5	1243.2	1254.7	1247.1	1241.3
27.5°	1311.5	1301.9	1310.5	1295.1	1308.6	1309.6	1298.0	1328.8	1315.3	1313.4	1309.6
30°	1398.0	1391.3	1385.5	1376.9	1387.4	1378.8	1388.4	1391.3	1378.8	1369.2	1350.9
32.5°	1447.0	1465.3	1472.0	1450.9	1451.9	1456.7	1448.0	1439.4	1447.0	1449.9	1447.0
35°	1516.3	1533.6	1537.4	1521.1	1512.4	1536.5	1519.2	1548.0	1523.0	1524.0	1498.0
37.5°	1597.0	1601.8	1634.5	1616.3	1608.6	1597.0	1628.8	1624.9	1630.7	1584.5	1607.6
40°	1688.4	1705.7	1724.0	1677.8	1676.8	1687.4	1685.5	1707.6	1697.0	1690.3	1674.0
42.5°	1788.4	1824.9	1827.8	1797.0	1777.8	1775.9	1785.5	1834.5	1835.5	1791.3	1772.0
45°	1921.1	1961.4	1950.9	1891.3	1870.1	1867.2	1914.3	1935.5	1953.8	1936.4	1920.1
47.5°	2086.4	2113.4	2105.7	2050.9	1982.6	2001.8	2048.0	2114.3	2095.1	2072.0	2052.8
50°	2263.4	2295.1	2278.7	2223.9	2158.6	2158.6	2215.3	2299.9	2294.1	2248.9	2231.6
52.5°	2459.5	2505.7	2543.2	2465.3	2410.5	2419.1	2508.5	2539.3	2524.9	2493.2	2478.7
55°	2605.6	2694.1	2771.0	2774.9	2777.8	2776.8	2799.9	2830.6	2727.8	2676.8	2624.9
57.5°	2570.1	2737.4	3000.8	3179.7	3232.5	3260.4	3252.7	3110.4	2867.2	2699.9	2717.2
60°	2316.2	2589.3	3014.3	3588.3	3972.9	3934.4	3794.1	3231.6	2790.3	2507.6	2472.0
62.5°	1848.0	2176.8	2788.3	3703.7	4763.2	4751.7	4017.1	2951.8	2324.9	1967.2	1945.1
64°	1392.2	1738.4	2487.4	3673.9	5040.1	5051.7	3960.4	2607.6	1819.1	1392.2	1358.6
65°	1065.3	1386.5	2192.2	3612.3	4980.5	4987.3	3802.7	2251.8	1382.6	988.4	951.9
67.5°	424.0	590.4	1189.4	2739.3	4276.7	4258.5	2713.3	1089.4	528.8	344.2	337.5
70°	180.8	225.0	417.3	1298.0	2863.3	2810.4	1168.2	353.8	196.1	164.4	163.5
72.5°	124.0	137.5	178.8	400.9	1190.3	1162.4	332.7	164.4	133.6	123.1	123.1
75°	100.0	109.6	129.8	168.3	315.4	303.8	156.7	121.1	106.7	99.0	98.1
77.5°	77.9	87.5	101.9	116.3	144.2	143.3	104.8	91.3	82.7	76.9	75.0
80°	61.5	71.2	80.8	82.7	94.2	92.3	71.2	72.1	67.3	55.8	54.8
82.5°	42.3	57.7	64.4	58.7	55.8	55.8	51.0	51.0	47.1	34.6	31.7
85°	26.0	38.5	40.4	34.6	26.0	26.0	27.9	26.9	25.0	18.3	17.3
87.5°	13.5	18.3	16.3	13.5	8.7	8.7	7.7	5.8	5.8	4.8	4.8
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)