

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: P479360

Luminaire Tested: **IFLD-S-SA2A-750-U-5MQ**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P479360  
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-5MQ  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5MQ distribution lens  
Light Source: (32) 5000K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

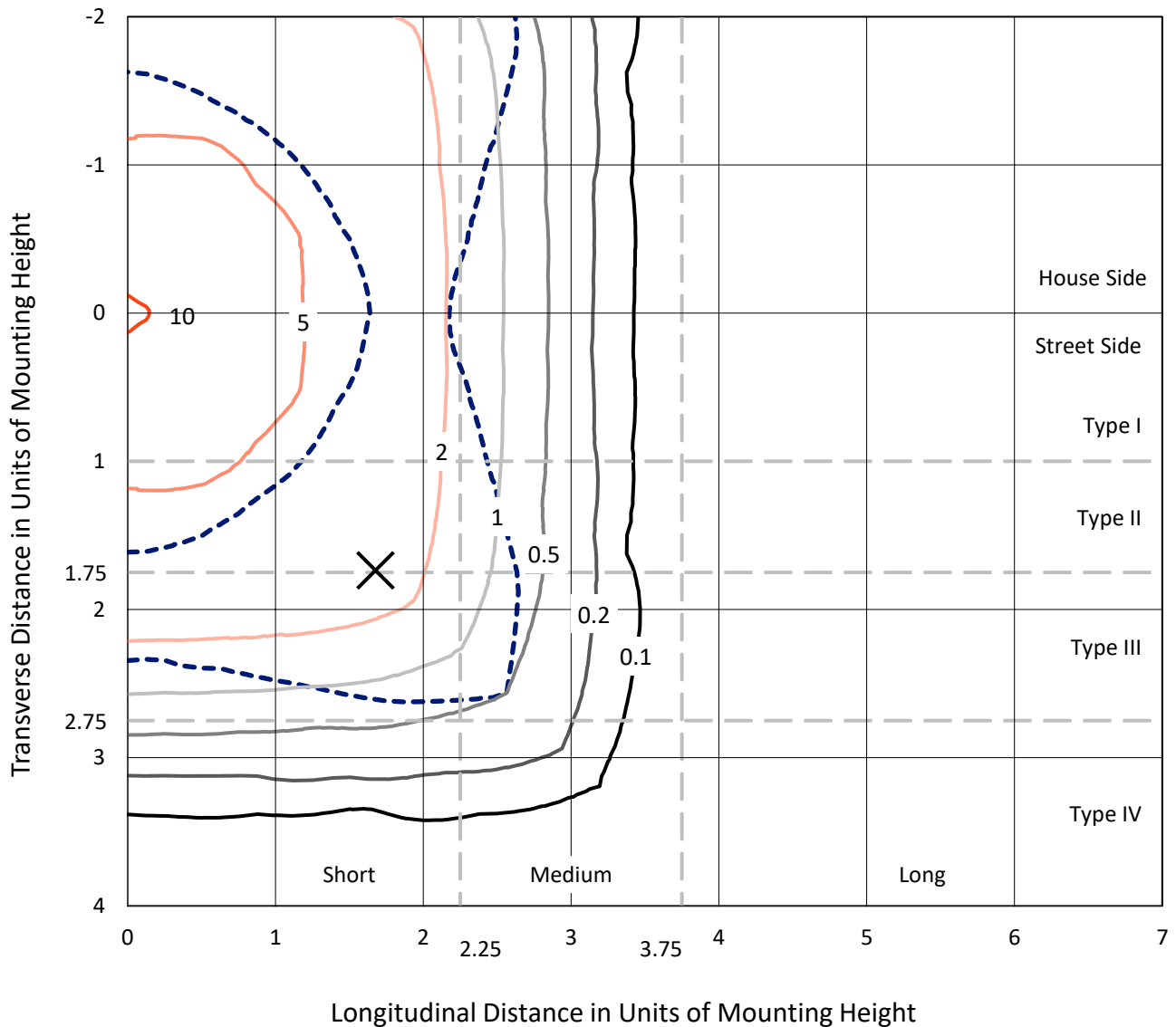
Lumens per Lamp: N/A  
Luminaire Lumens: 9532.5 lumens  
Efficiency: N/A  
Efficacy: 149.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B3 - U0 - G2

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

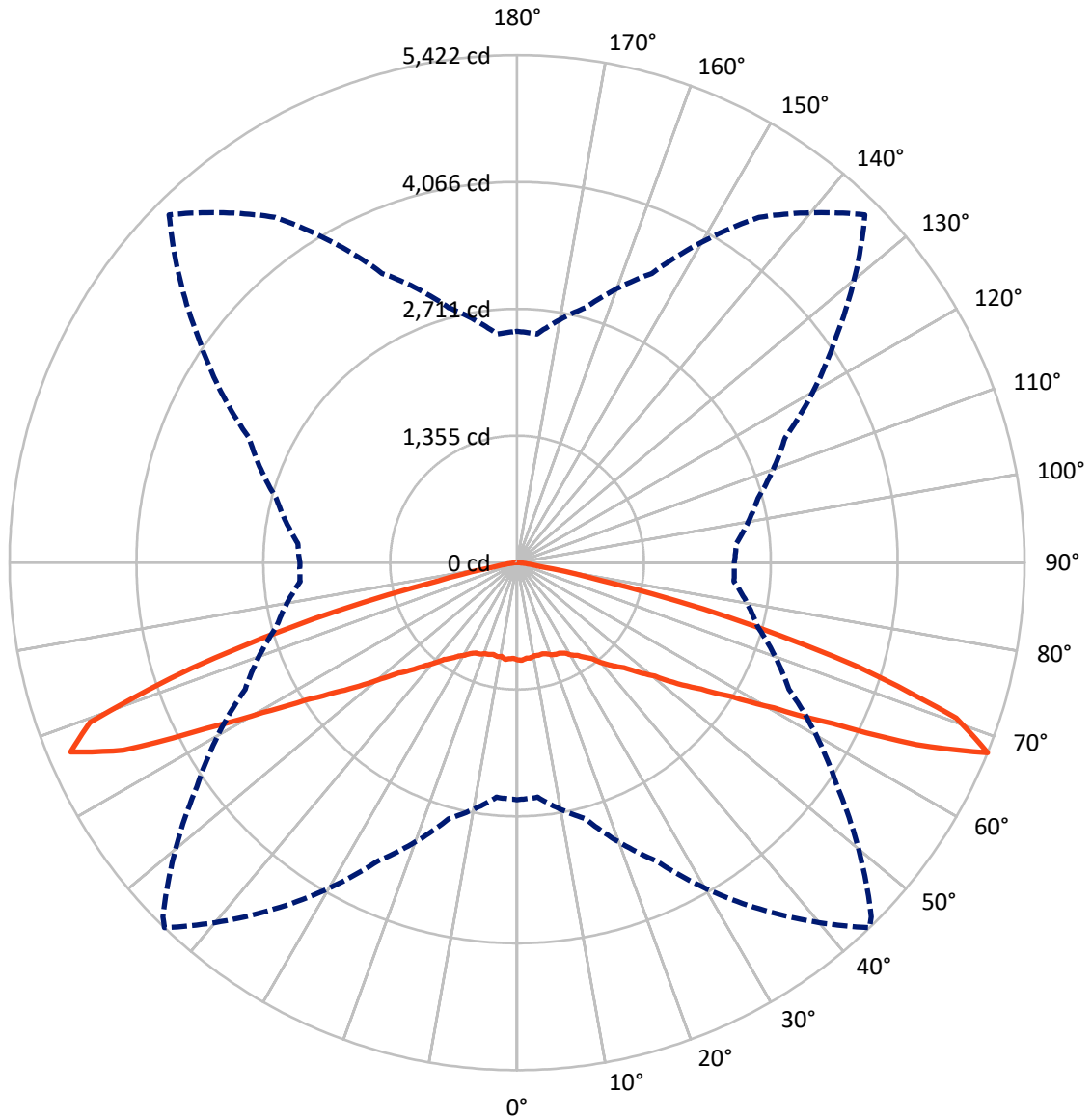
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 10.4 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 44-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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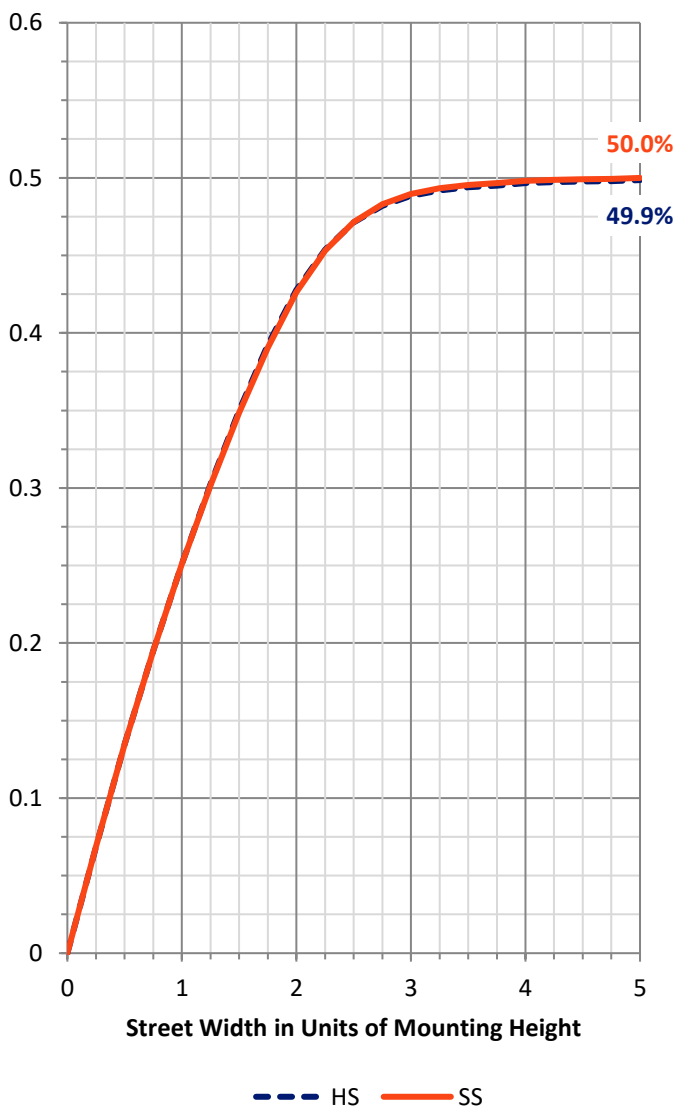
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4754.0	0.0	4754.0
	% Fixture	49.9	0.0	49.9
<b>Street Side</b>	Lumens	4778.4	0.0	4778.4
	% Fixture	50.1	0.0	50.1
<b>Total</b>	Lumens	9532.5	0.0	9532.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	98.5	1.0
10°-20°	287.9	3.0
20°-30°	489.5	5.1
30°-40°	776.2	8.1
40°-50°	1265.6	13.3
50°-60°	2161.5	22.7
60°-70°	3287.6	34.5
70°-80°	1108.1	11.6
80°-90°	57.5	0.6
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°	9532.5	100.0
0°-180°	9532.5	100.0

**Coefficient of Utilization**



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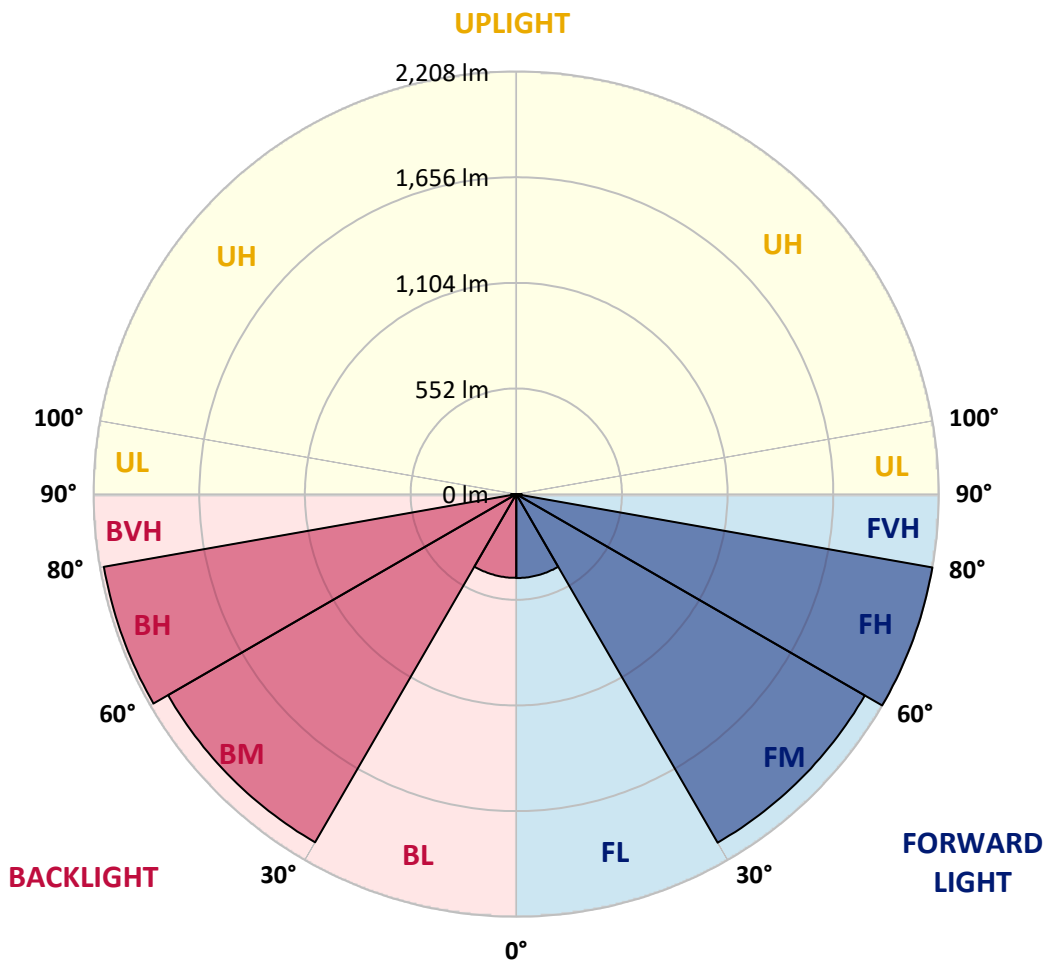
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	438.4	4.6			
FM (30°-60°)	2102.8	22.1			
FH (60°-80°)	2207.8	23.2			G2/5000
FVH (80°-90°)	29.4	0.3			G1/100
BL (0°-30°)	437.5	4.6	B1/500		
BM (30°-60°)	2100.5	22.0	B2/2500		
BH (60°-80°)	2187.9	23.0	B3/2500		G2/5000
BVH (80°-90°)	28.1	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G2**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	1041.3	1041.3	1041.3	1041.3	1041.3	1041.3	1041.3	1041.3	1041.3	1041.3	1041.3
2.5°	1017.3	1029.3	1038.0	1036.9	1040.2	1043.4	1039.1	1045.6	1041.3	1048.9	1053.2
5°	1036.9	1033.6	1034.7	1028.2	1043.4	1026.0	1026.0	1034.7	1045.6	1032.6	1040.2
7.5°	1024.9	1022.8	1017.3	1027.1	1030.4	1030.4	1039.1	1022.8	1041.3	1045.6	1046.7
10°	1011.9	999.9	1016.2	1026.0	1028.2	1010.8	1018.4	1022.8	1017.3	1022.8	1026.0
12.5°	1001.0	1007.5	1007.5	1007.5	1004.3	1016.2	1023.9	1022.8	1011.9	1021.7	1004.3
15°	999.9	996.7	1006.4	1015.1	1009.7	1011.9	1015.1	1024.9	1004.3	1008.6	1008.6
17.5°	998.8	1003.2	1006.4	1005.4	1023.9	1023.9	1020.6	1014.1	1030.4	1021.7	1009.7
20°	1003.2	999.9	1008.6	1011.9	1024.9	1051.1	1041.3	1035.8	1027.1	1016.2	1016.2
22.5°	1008.6	1006.4	1018.4	1032.6	1057.6	1064.1	1063.0	1056.5	1041.3	1028.2	1026.0
25°	1028.2	1008.6	1021.7	1048.9	1057.6	1070.6	1079.3	1070.6	1050.0	1053.2	1033.6
27.5°	1057.6	1054.3	1071.7	1090.2	1082.6	1094.6	1087.0	1093.5	1094.6	1078.3	1058.7
30°	1092.4	1082.6	1093.5	1129.4	1132.7	1145.7	1132.7	1115.2	1120.7	1106.5	1096.8
32.5°	1142.4	1139.2	1159.9	1183.8	1188.1	1181.6	1175.1	1184.9	1162.0	1151.2	1133.7
35°	1175.1	1189.2	1214.3	1232.8	1246.9	1240.4	1243.6	1233.8	1239.3	1216.4	1208.8
37.5°	1271.9	1266.5	1271.9	1303.5	1306.7	1303.5	1306.7	1317.6	1310.0	1290.4	1270.8
40°	1363.3	1354.6	1367.7	1403.6	1401.4	1412.3	1390.5	1402.5	1402.5	1365.5	1357.9
42.5°	1431.9	1461.2	1476.5	1505.9	1516.7	1506.9	1502.6	1504.8	1528.7	1485.2	1468.9
45°	1573.3	1572.2	1617.9	1634.2	1603.8	1601.6	1592.9	1619.0	1635.3	1610.3	1603.8
47.5°	1726.7	1734.3	1760.5	1767.0	1785.5	1751.8	1751.8	1755.0	1812.7	1753.9	1723.5
50°	1864.9	1874.7	1926.9	1978.1	1943.3	1907.3	1921.5	1938.9	1970.5	1915.0	1888.8
52.5°	2032.5	2085.8	2120.6	2147.8	2172.8	2147.8	2115.2	2134.7	2196.8	2122.8	2090.1
55°	2274.0	2316.5	2349.1	2399.1	2419.8	2386.1	2382.8	2380.6	2415.5	2337.1	2292.5
57.5°	2543.9	2526.4	2578.7	2655.9	2731.0	2698.4	2688.6	2690.7	2699.4	2588.5	2554.7
60°	2879.0	2898.6	2960.6	3028.0	3107.5	3153.2	3089.0	3052.0	3059.6	2908.3	2856.1
62.5°	3070.5	3114.0	3254.3	3486.1	3646.0	3788.6	3798.4	3557.9	3396.9	3103.1	2881.1
65°	2978.0	2971.5	3235.8	3664.5	4270.6	4685.1	4623.1	4039.9	3477.4	3010.6	2712.5
67.5°	2533.0	2515.6	2835.4	3515.5	4516.5	5421.7	5351.0	4175.9	3205.4	2663.5	2326.2
70°	1632.1	1627.7	1974.8	2679.9	4032.3	4977.8	5003.9	3792.9	2609.1	1950.9	1616.8
72.5°	593.0	628.9	830.2	1440.6	2738.6	3808.2	3824.5	2808.2	1500.4	902.0	664.8
75°	218.7	225.2	262.2	467.9	1248.0	2338.2	2399.1	1362.2	533.1	293.8	239.4
77.5°	126.2	127.3	140.4	174.1	369.9	912.9	949.9	413.5	206.7	156.7	144.7
80°	86.0	84.9	99.0	113.2	148.0	259.0	275.3	173.0	130.6	108.8	91.4
82.5°	50.1	53.3	72.9	80.5	90.3	114.2	116.4	107.7	97.9	80.5	59.8
85°	30.5	25.0	40.3	44.6	52.2	51.1	51.1	58.8	63.1	56.6	33.7
87.5°	7.6	7.6	9.8	10.9	14.1	10.9	12.0	22.8	30.5	28.3	17.4
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°	1041.3	1041.3	1041.3	1041.3	1041.3	1041.3	1041.3	1041.3	1041.3	1041.3	1041.3
2.5°	1043.4	1040.2	1042.3	1054.3	1046.7	1023.9	1029.3	1041.3	1031.5	1026.0	1024.9
5°	1039.1	1045.6	1038.0	1040.2	1047.8	1029.3	1032.6	1047.8	1041.3	1043.4	1031.5
7.5°	1040.2	1043.4	1036.9	1027.1	1027.1	1042.3	1033.6	1035.8	1026.0	1042.3	1020.6
10°	1033.6	1024.9	1017.3	1022.8	1020.6	1016.2	1013.0	1019.5	1009.7	1023.9	1008.6
12.5°	1014.1	1016.2	1014.1	1011.9	1016.2	1027.1	1009.7	1011.9	996.7	998.8	1006.4
15°	1006.4	1013.0	1010.8	1022.8	1028.2	1011.9	1024.9	1011.9	999.9	993.4	1005.4
17.5°	1009.7	1019.5	1016.2	1024.9	1015.1	1027.1	1029.3	1023.9	1009.7	1004.3	1009.7
20°	1013.0	1009.7	1014.1	1029.3	1043.4	1031.5	1031.5	1028.2	1015.1	1007.5	1007.5
22.5°	1020.6	1015.1	1021.7	1033.6	1038.0	1056.5	1040.2	1032.6	1010.8	991.2	1009.7
25°	1035.8	1039.1	1043.4	1039.1	1063.0	1060.8	1058.7	1053.2	1019.5	1020.6	1017.3
27.5°	1065.2	1046.7	1052.1	1078.3	1081.5	1090.2	1079.3	1089.1	1053.2	1054.3	1032.6
30°	1101.1	1081.5	1098.9	1121.8	1120.7	1137.0	1131.6	1133.7	1108.7	1094.6	1065.2
32.5°	1140.3	1138.1	1149.0	1163.1	1168.6	1177.3	1176.2	1176.2	1160.9	1124.0	1129.4
35°	1183.8	1199.0	1212.1	1227.3	1229.5	1240.4	1225.1	1227.3	1212.1	1184.9	1193.6
37.5°	1269.7	1268.7	1282.8	1301.3	1303.5	1294.8	1306.7	1301.3	1280.6	1262.1	1248.0
40°	1369.9	1348.1	1361.1	1404.7	1407.9	1392.7	1391.6	1390.5	1375.3	1335.0	1326.3
42.5°	1456.9	1485.2	1483.0	1497.2	1487.4	1479.7	1506.9	1491.7	1479.7	1437.3	1429.7
45°	1569.0	1577.7	1606.0	1651.7	1604.9	1604.9	1623.4	1611.4	1604.9	1573.3	1543.9
47.5°	1708.2	1715.8	1772.4	1775.7	1745.2	1724.6	1782.2	1784.4	1757.2	1733.3	1697.4
50°	1871.4	1874.7	1925.8	1978.1	1944.3	1905.2	1963.9	1986.8	1925.8	1893.2	1848.6
52.5°	2051.0	2041.2	2083.6	2181.5	2148.9	2136.9	2200.0	2205.5	2122.8	2071.6	2083.6
55°	2257.7	2244.6	2360.0	2426.3	2405.7	2383.9	2412.2	2425.3	2358.9	2275.1	2304.5
57.5°	2525.4	2531.9	2589.5	2654.8	2688.6	2694.0	2707.1	2694.0	2626.5	2541.7	2514.5
60°	2793.0	2812.6	2924.7	3047.6	3058.5	3154.2	3136.8	3071.6	2975.8	2855.0	2860.5
62.5°	2892.0	2875.7	3056.3	3356.6	3612.3	3787.5	3710.2	3478.5	3256.5	3036.7	3053.1
65°	2692.9	2733.2	2979.1	3449.1	4004.0	4697.1	4285.8	3645.0	3196.7	2912.7	2881.1
67.5°	2320.8	2351.3	2663.5	3159.7	4144.4	5256.4	4503.4	3409.9	2819.1	2451.4	2471.0
70°	1616.8	1632.1	1937.8	2588.5	3758.1	4960.4	4062.8	2618.9	1946.5	1551.6	1573.3
72.5°	650.7	687.6	888.9	1559.2	2774.5	3769.0	2735.3	1374.2	807.3	600.6	545.1
75°	240.5	241.5	284.0	536.4	1317.6	2368.7	1233.8	441.7	257.9	211.1	201.3
77.5°	139.3	138.2	148.0	193.7	381.9	924.8	350.4	173.0	140.4	126.2	120.8
80°	87.0	86.0	101.2	128.4	167.6	253.5	148.0	107.7	94.7	81.6	81.6
82.5°	55.5	56.6	79.4	94.7	102.3	112.1	86.0	76.2	70.7	46.8	45.7
85°	35.9	32.6	55.5	63.1	56.6	50.1	47.9	40.3	37.0	22.8	25.0
87.5°	16.3	17.4	28.3	31.6	20.7	12.0	12.0	8.7	8.7	5.4	5.4
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)