

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: P479321

Luminaire Tested: **IFLD-S-SA2A-740-U-5MQ**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P479321
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2A-740-U-5MQ
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5MQ distribution lens
Light Source: (32) 4000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

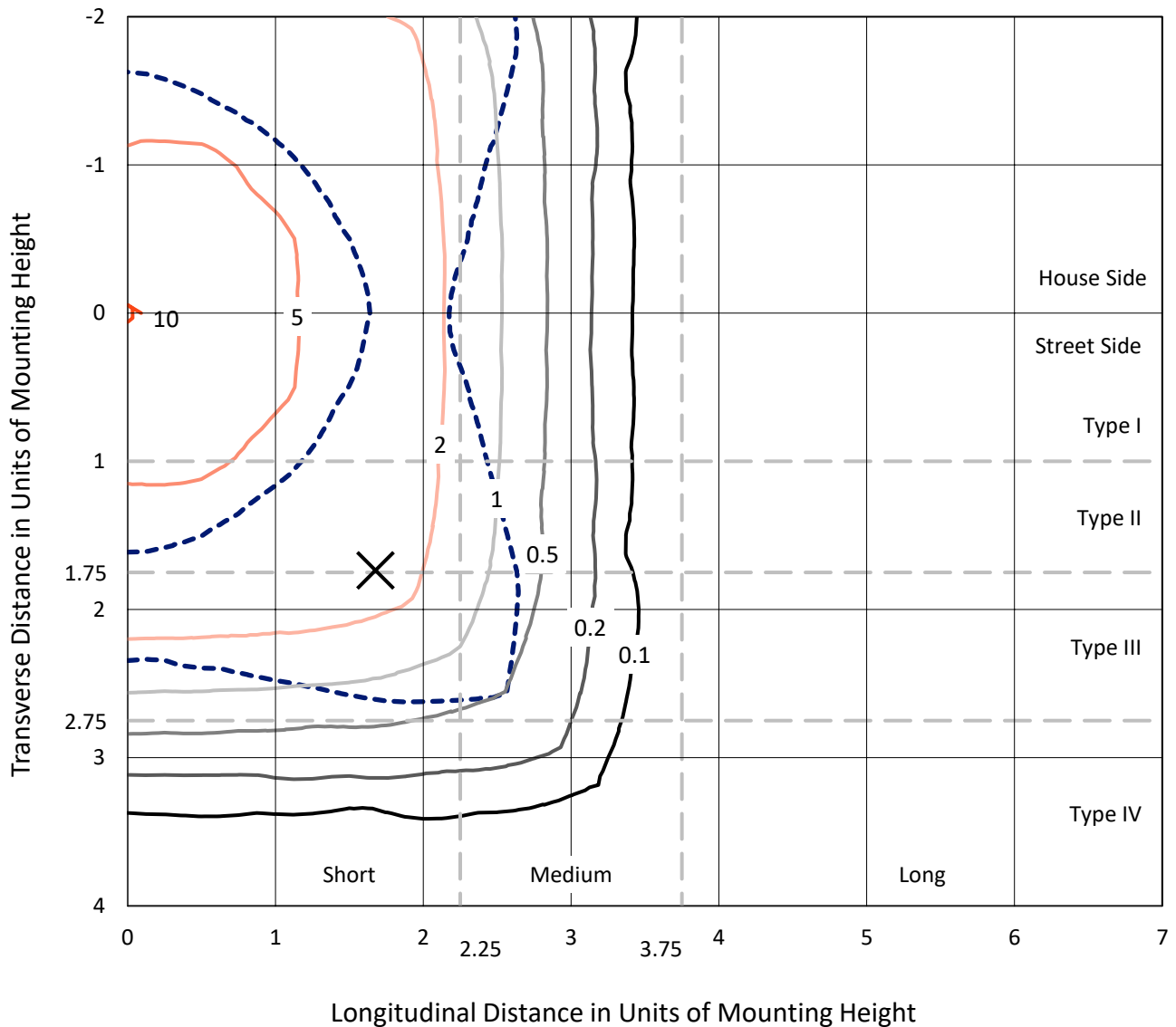
Lumens per Lamp: N/A
Luminaire Lumens: 9319.1 lumens
Efficiency: N/A
Efficacy: 146.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G2

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

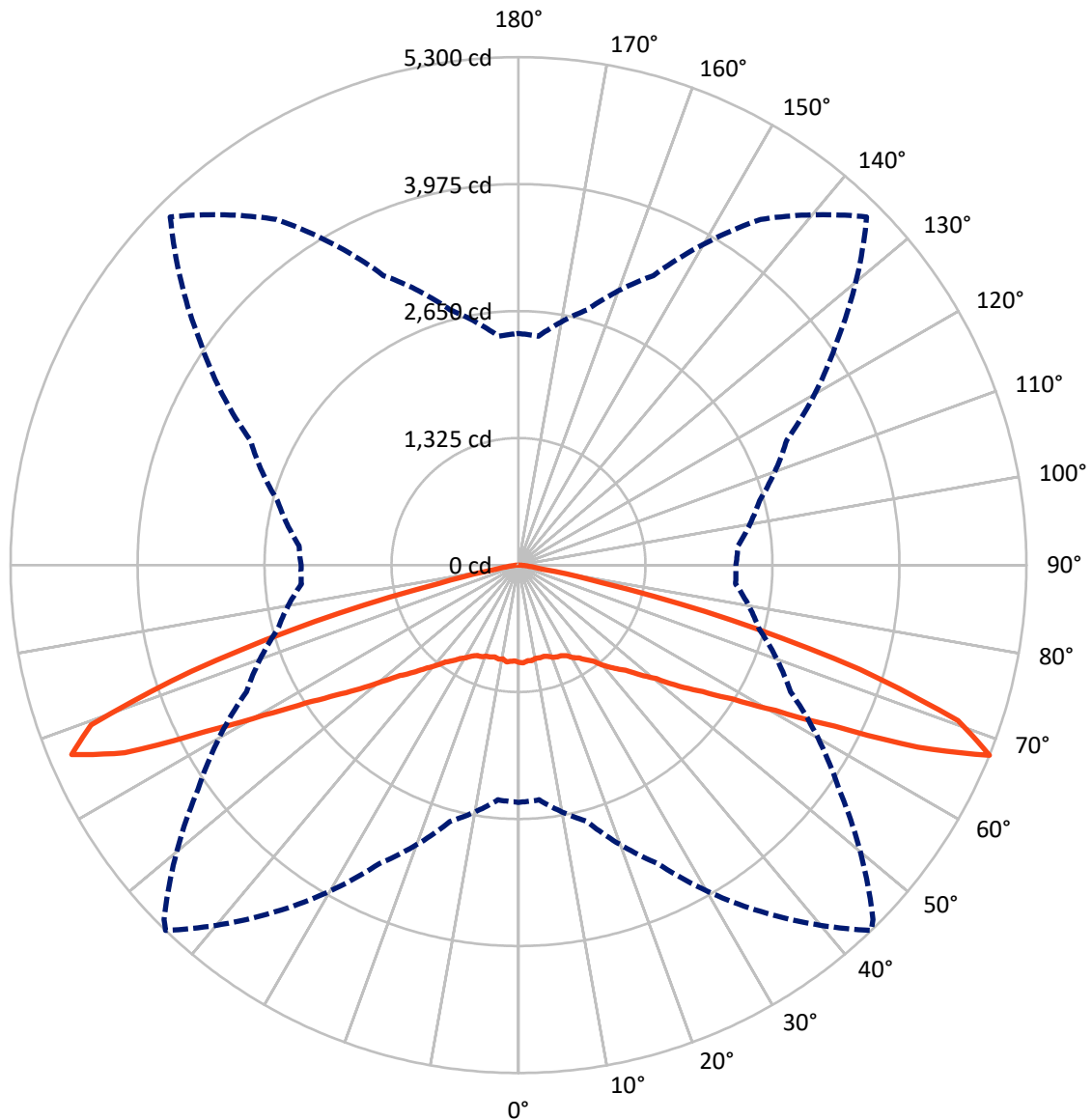
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 10.2 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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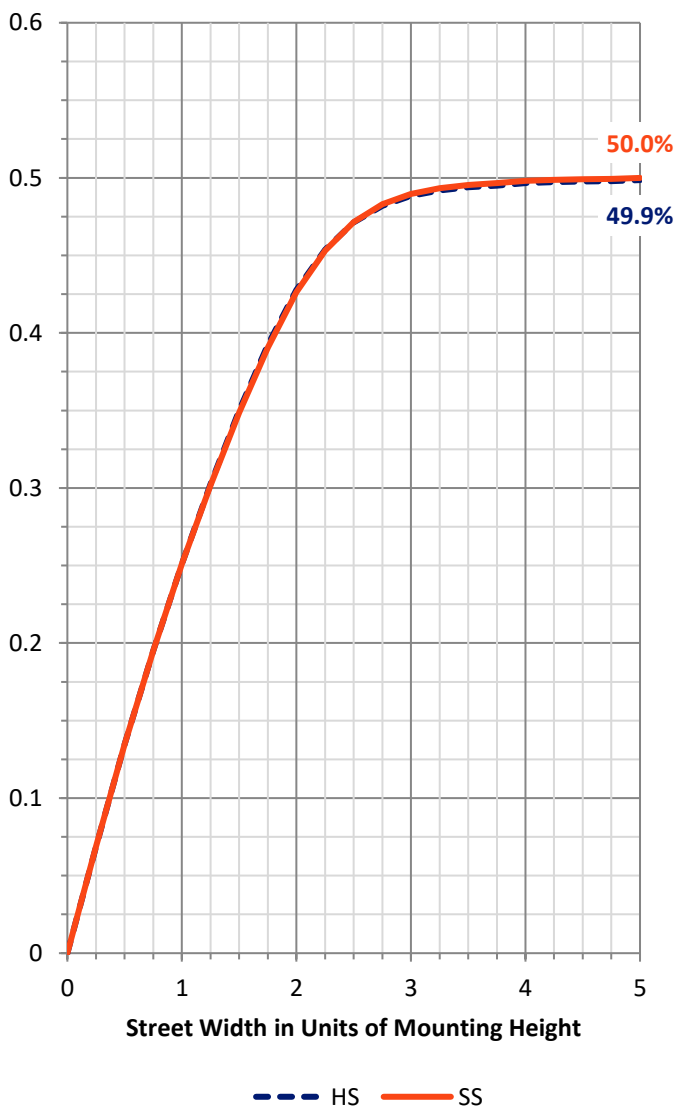
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4647.6	0.0	4647.6
	% Fixture	49.9	0.0	49.9
Street Side	Lumens	4671.5	0.0	4671.5
	% Fixture	50.1	0.0	50.1
Total	Lumens	9319.1	0.0	9319.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	96.3	1.0
10°-20°	281.4	3.0
20°-30°	478.6	5.1
30°-40°	758.8	8.1
40°-50°	1237.3	13.3
50°-60°	2113.1	22.7
60°-70°	3214.0	34.5
70°-80°	1083.3	11.6
80°-90°	56.2	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°	9319.1	100.0
0°-180°	9319.1	100.0

Coefficient of Utilization



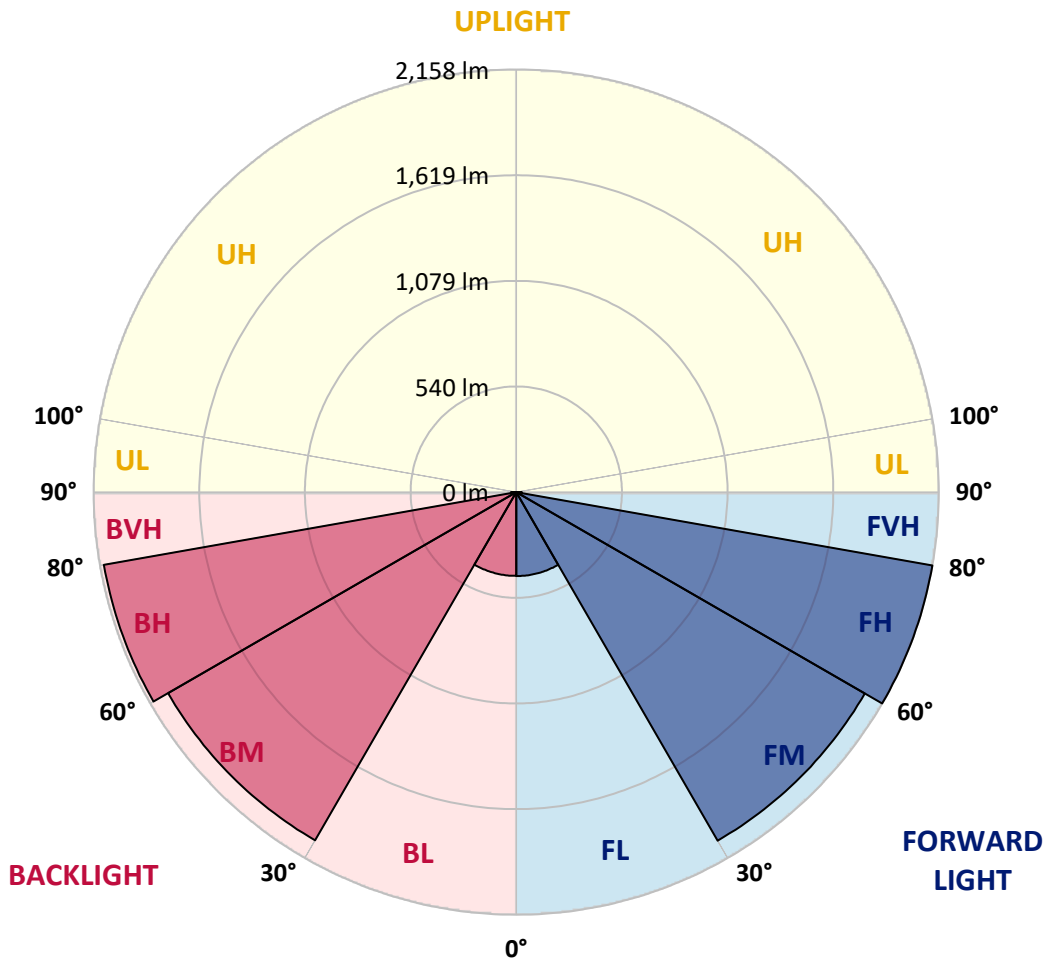
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	428.6	4.6			
FM (30°-60°)	2055.7	22.1			
FH (60°-80°)	2158.4	23.2			G2/5000
FVH (80°-90°)	28.8	0.3			G1/100
BL (0°-30°)	427.7	4.6	B1/500		
BM (30°-60°)	2053.5	22.0	B2/2500		
BH (60°-80°)	2138.9	23.0	B3/2500		G2/5000
BVH (80°-90°)	27.5	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°	1017.9	1017.9	1017.9	1017.9	1017.9	1017.9	1017.9	1017.9	1017.9	1017.9	1017.9
2.5°	994.5	1006.2	1014.8	1013.7	1016.9	1020.1	1015.8	1022.2	1017.9	1025.4	1029.6
5°	1013.7	1010.5	1011.6	1005.2	1020.1	1003.1	1003.1	1011.6	1022.2	1009.4	1016.9
7.5°	1002.0	999.9	994.5	1004.1	1007.3	1007.3	1015.8	999.9	1017.9	1022.2	1023.3
10°	989.2	977.5	993.5	1003.1	1005.2	988.2	995.6	999.9	994.5	999.9	1003.1
12.5°	978.6	985.0	985.0	985.0	981.8	993.5	1000.9	999.9	989.2	998.8	981.8
15°	977.5	974.3	983.9	992.4	987.1	989.2	992.4	1002.0	981.8	986.0	986.0
17.5°	976.5	980.7	983.9	982.8	1000.9	1000.9	997.7	991.4	1007.3	998.8	987.1
20°	980.7	977.5	986.0	989.2	1002.0	1027.5	1017.9	1012.6	1004.1	993.5	993.5
22.5°	986.0	983.9	995.6	1009.4	1033.9	1040.3	1039.2	1032.8	1017.9	1005.2	1003.1
25°	1005.2	986.0	998.8	1025.4	1033.9	1046.7	1055.2	1046.7	1026.5	1029.6	1010.5
27.5°	1033.9	1030.7	1047.7	1065.8	1058.4	1070.1	1062.6	1069.0	1070.1	1054.1	1035.0
30°	1067.9	1058.4	1069.0	1104.1	1107.3	1120.1	1107.3	1090.3	1095.6	1081.8	1072.2
32.5°	1116.9	1113.7	1133.9	1157.3	1161.5	1155.2	1148.8	1158.4	1136.0	1125.4	1108.4
35°	1148.8	1162.6	1187.1	1205.2	1219.0	1212.6	1215.8	1206.2	1211.5	1189.2	1181.8
37.5°	1243.5	1238.1	1243.5	1274.3	1277.5	1274.3	1277.5	1288.1	1280.7	1261.5	1242.4
40°	1332.8	1324.3	1337.1	1372.2	1370.0	1380.7	1359.4	1371.1	1371.1	1334.9	1327.5
42.5°	1399.8	1428.5	1443.4	1472.1	1482.8	1473.2	1469.0	1471.1	1494.5	1451.9	1436.0
45°	1538.1	1537.0	1581.7	1597.7	1567.9	1565.7	1557.2	1582.8	1598.7	1574.3	1567.9
47.5°	1688.1	1695.5	1721.0	1727.4	1745.5	1712.5	1712.5	1715.7	1772.1	1714.7	1684.9
50°	1823.2	1832.7	1883.8	1933.8	1899.7	1864.6	1878.5	1895.5	1926.3	1872.1	1846.6
52.5°	1987.0	2039.1	2073.1	2099.7	2124.2	2099.7	2067.8	2087.0	2147.6	2075.3	2043.3
55°	2223.1	2264.6	2296.5	2345.4	2365.6	2332.7	2329.5	2327.3	2361.4	2284.8	2241.2
57.5°	2486.9	2469.9	2520.9	2596.5	2669.9	2637.9	2628.4	2630.5	2639.0	2530.5	2497.5
60°	2814.5	2833.7	2894.3	2960.2	3037.9	3082.6	3019.8	2983.6	2991.1	2843.2	2792.2
62.5°	3001.7	3044.3	3181.5	3408.1	3564.4	3703.8	3713.3	3478.3	3320.8	3033.6	2816.6
65°	2911.3	2904.9	3163.4	3582.5	4175.0	4580.2	4519.6	3949.5	3399.5	2943.2	2651.8
67.5°	2476.3	2459.2	2772.0	3436.8	4415.4	5300.4	5231.2	4082.4	3133.6	2603.9	2274.2
70°	1595.5	1591.3	1930.6	2619.9	3942.0	4866.4	4891.9	3708.0	2550.7	1907.2	1580.6
72.5°	579.7	614.8	811.6	1408.3	2677.3	3722.9	3738.9	2745.4	1466.8	881.8	649.9
75°	213.8	220.2	256.3	457.4	1220.0	2285.9	2345.4	1331.7	521.2	287.2	234.0
77.5°	123.4	124.5	137.2	170.2	361.7	892.4	928.6	404.2	202.1	153.2	141.5
80°	84.0	83.0	96.8	110.6	144.7	253.2	269.1	169.1	127.6	106.4	89.3
82.5°	48.9	52.1	71.3	78.7	88.3	111.7	113.8	105.3	95.7	78.7	58.5
85°	29.8	24.5	39.4	43.6	51.1	50.0	50.0	57.4	61.7	55.3	33.0
87.5°	7.4	7.4	9.6	10.6	13.8	10.6	11.7	22.3	29.8	27.7	17.0
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1017.9	1017.9	1017.9	1017.9	1017.9	1017.9	1017.9	1017.9	1017.9	1017.9	1017.9
2.5°	1020.1	1016.9	1019.0	1030.7	1023.3	1000.9	1006.2	1017.9	1008.4	1003.1	1002.0
5°	1015.8	1022.2	1014.8	1016.9	1024.3	1006.2	1009.4	1024.3	1017.9	1020.1	1008.4
7.5°	1016.9	1020.1	1013.7	1004.1	1004.1	1019.0	1010.5	1012.6	1003.1	1019.0	997.7
10°	1010.5	1002.0	994.5	999.9	997.7	993.5	990.3	996.7	987.1	1000.9	986.0
12.5°	991.4	993.5	991.4	989.2	993.5	1004.1	987.1	989.2	974.3	976.5	983.9
15°	983.9	990.3	988.2	999.9	1005.2	989.2	1002.0	989.2	977.5	971.1	982.8
17.5°	987.1	996.7	993.5	1002.0	992.4	1004.1	1006.2	1000.9	987.1	981.8	987.1
20°	990.3	987.1	991.4	1006.2	1020.1	1008.4	1008.4	1005.2	992.4	985.0	985.0
22.5°	997.7	992.4	998.8	1010.5	1014.8	1032.8	1016.9	1009.4	988.2	969.0	987.1
25°	1012.6	1015.8	1020.1	1015.8	1039.2	1037.1	1035.0	1029.6	996.7	997.7	994.5
27.5°	1041.4	1023.3	1028.6	1054.1	1057.3	1065.8	1055.2	1064.8	1029.6	1030.7	1009.4
30°	1076.5	1057.3	1074.3	1096.7	1095.6	1111.6	1106.2	1108.4	1083.9	1070.1	1041.4
32.5°	1114.7	1112.6	1123.3	1137.1	1142.4	1150.9	1149.8	1149.8	1135.0	1098.8	1104.1
35°	1157.3	1172.2	1184.9	1199.8	1202.0	1212.6	1197.7	1199.8	1184.9	1158.4	1166.9
37.5°	1241.3	1240.3	1254.1	1272.2	1274.3	1265.8	1277.5	1272.2	1252.0	1233.9	1220.0
40°	1339.2	1317.9	1330.7	1373.2	1376.4	1361.5	1360.5	1359.4	1344.5	1305.1	1296.6
42.5°	1424.3	1451.9	1449.8	1463.6	1454.1	1446.6	1473.2	1458.3	1446.6	1405.1	1397.7
45°	1533.8	1542.3	1570.0	1614.7	1568.9	1568.9	1587.0	1575.3	1568.9	1538.1	1509.4
47.5°	1670.0	1677.4	1732.7	1735.9	1706.2	1685.9	1742.3	1744.4	1717.9	1694.5	1659.4
50°	1829.5	1832.7	1882.7	1933.8	1900.8	1862.5	1920.0	1942.3	1882.7	1850.8	1807.2
52.5°	2005.1	1995.5	2037.0	2132.7	2100.8	2089.1	2150.8	2156.1	2075.3	2025.3	2037.0
55°	2207.2	2194.4	2307.1	2372.0	2351.8	2330.5	2358.2	2371.0	2306.1	2224.2	2252.9
57.5°	2468.8	2475.2	2531.6	2595.4	2628.4	2633.7	2646.5	2633.7	2567.7	2484.8	2458.2
60°	2730.5	2749.6	2859.2	2979.4	2990.0	3083.6	3066.6	3002.8	2909.2	2791.1	2796.4
62.5°	2827.3	2811.3	2987.9	3281.5	3531.4	3702.7	3627.2	3400.6	3183.6	2968.8	2984.7
65°	2632.6	2672.0	2912.4	3371.9	3914.4	4591.9	4189.9	3563.4	3125.1	2847.5	2816.6
67.5°	2268.8	2298.6	2603.9	3088.9	4051.6	5138.7	4402.6	3333.6	2756.0	2396.5	2415.6
70°	1580.6	1595.5	1894.4	2530.5	3674.0	4849.4	3971.8	2560.3	1902.9	1516.8	1538.1
72.5°	636.1	672.3	869.0	1524.3	2712.4	3684.6	2674.1	1343.4	789.3	587.2	532.9
75°	235.1	236.1	277.6	524.4	1288.1	2315.6	1206.2	431.9	252.1	206.4	196.8
77.5°	136.2	135.1	144.7	189.3	373.4	904.1	342.5	169.1	137.2	123.4	118.1
80°	85.1	84.0	98.9	125.5	163.8	247.8	144.7	105.3	92.5	79.8	79.8
82.5°	54.2	55.3	77.6	92.5	100.0	109.6	84.0	74.5	69.1	45.7	44.7
85°	35.1	31.9	54.2	61.7	55.3	48.9	46.8	39.4	36.2	22.3	24.5
87.5°	16.0	17.0	27.7	30.8	20.2	11.7	11.7	8.5	8.5	5.3	5.3
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)