

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: P478580

Luminaire Tested: **IFLD-S-SA2A-750-U-T4W**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P478580
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-T4W
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4W distribution lens
Light Source: (32) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

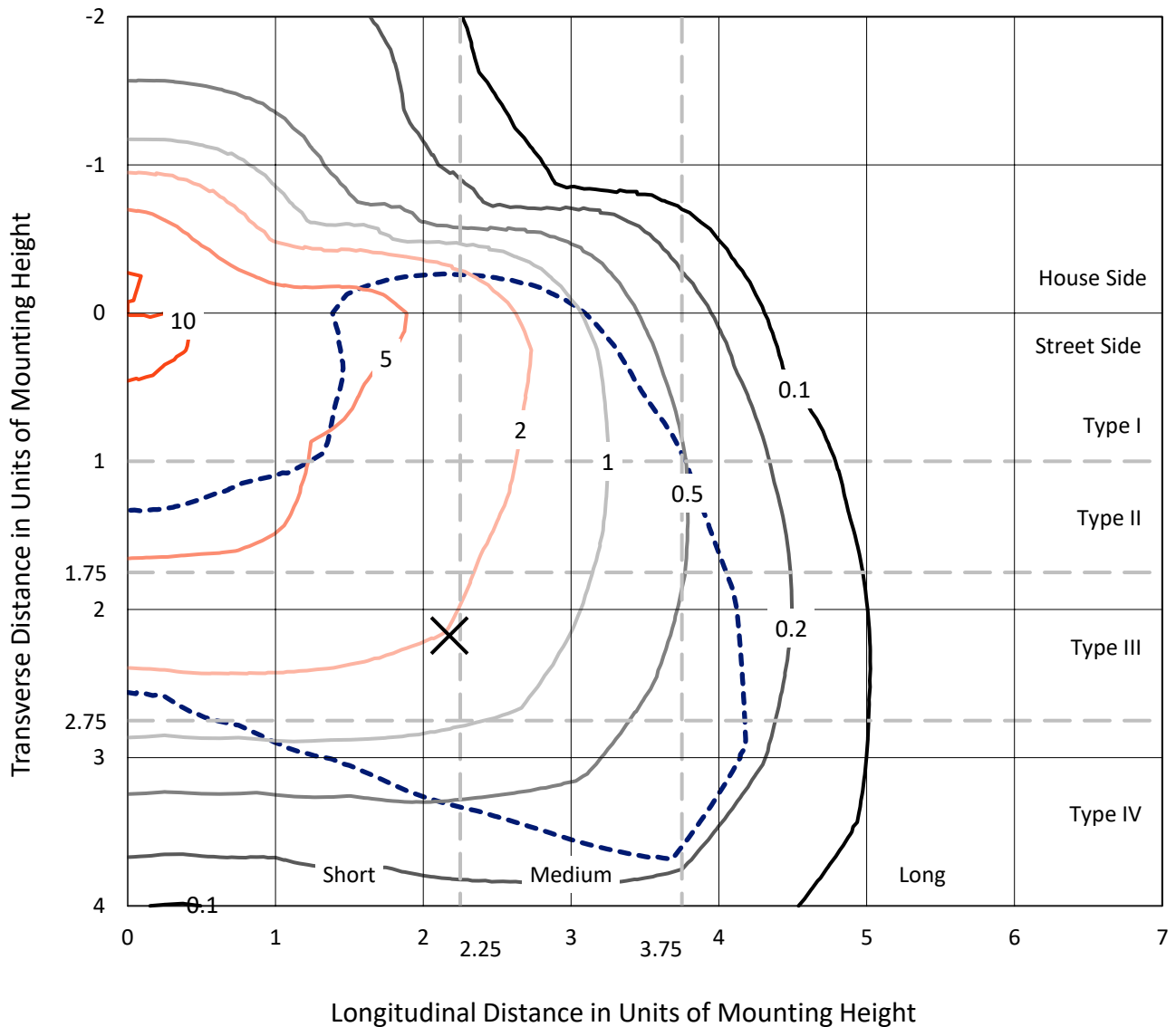
Lumens per Lamp: N/A
Luminaire Lumens: 9545.4 lumens
Efficiency: N/A
Efficacy: 149.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G2

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

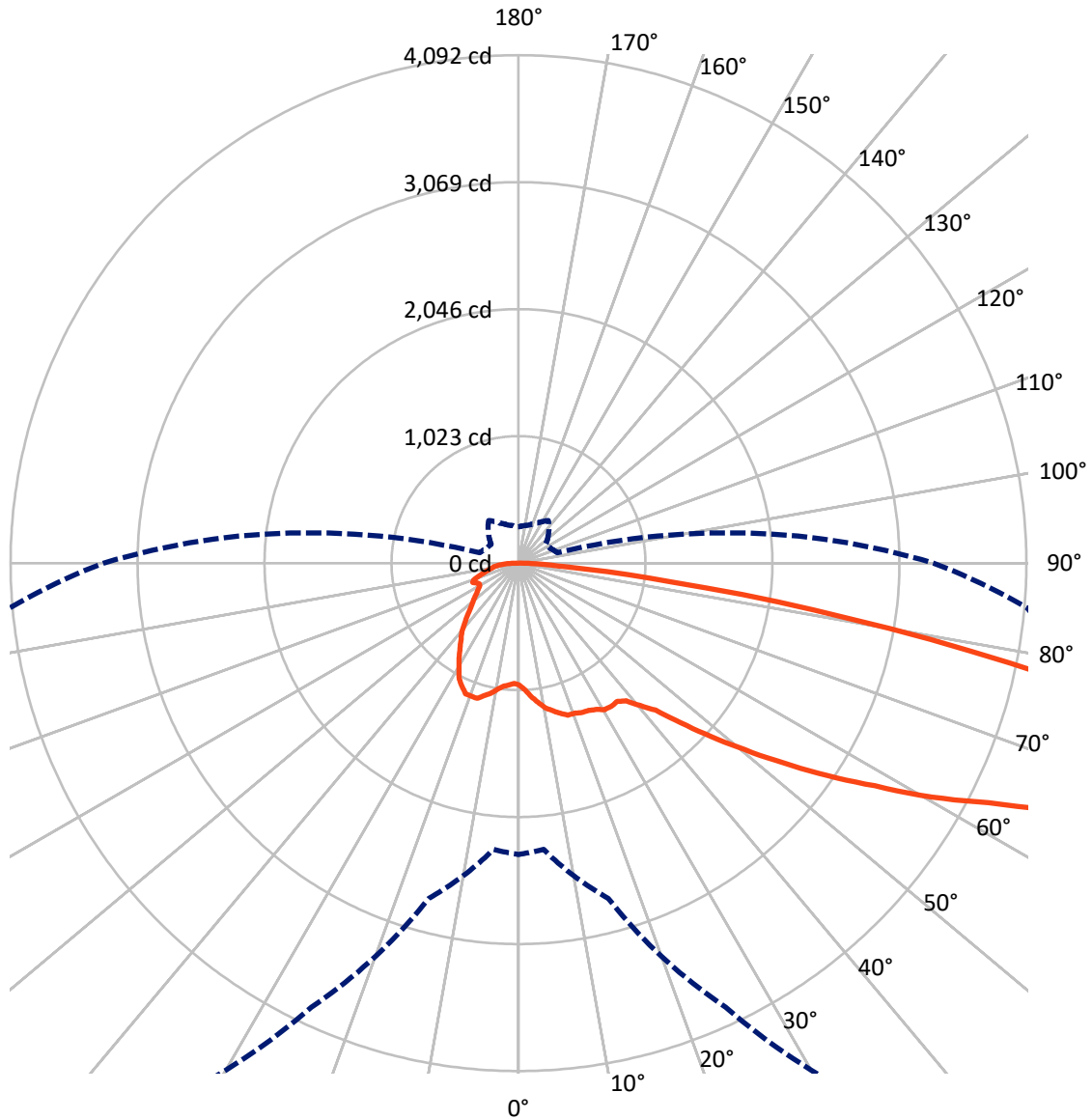
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 12.5 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 72-Deg Vertical

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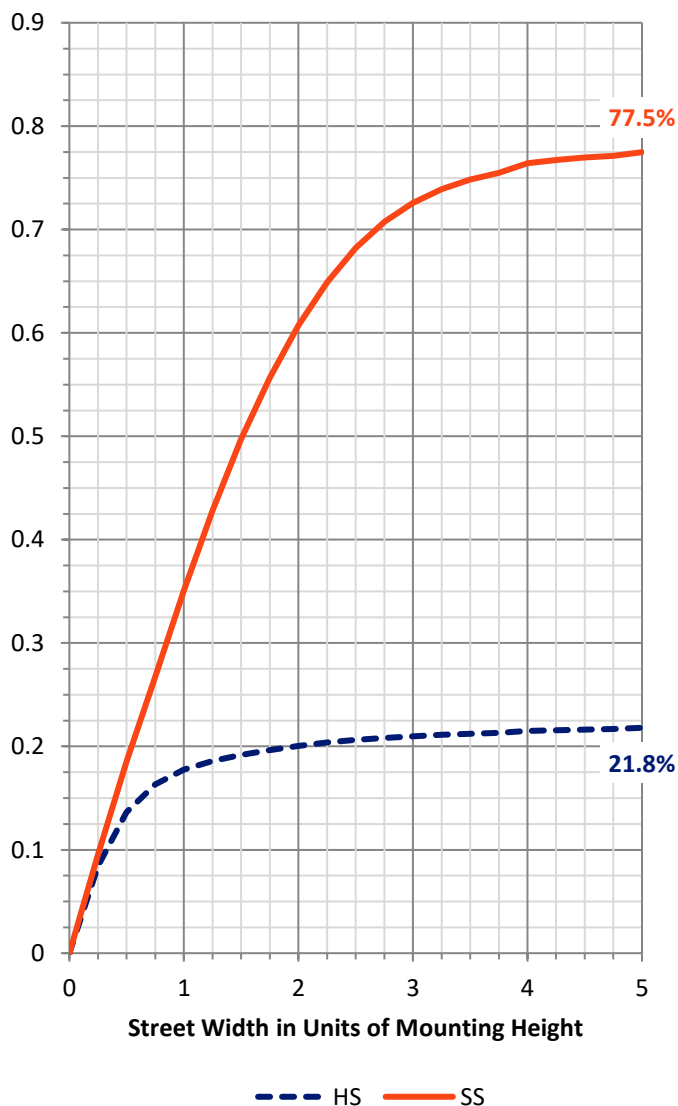
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2124.9	0.0	2124.9
	% Fixture	22.3	0.0	22.3
Street Side	Lumens	7420.6	0.0	7420.6
	% Fixture	77.7	0.0	77.7
Total	Lumens	9545.4	0.0	9545.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	100.6	1.1
10°-20°	334.7	3.5
20°-30°	565.2	5.9
30°-40°	782.1	8.2
40°-50°	1118.7	11.7
50°-60°	1804.3	18.9
60°-70°	2661.1	27.9
70°-80°	1932.4	20.2
80°-90°	246.3	2.6
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°	9545.4	100.0
0°-180°	9545.4	100.0

Coefficient of Utilization



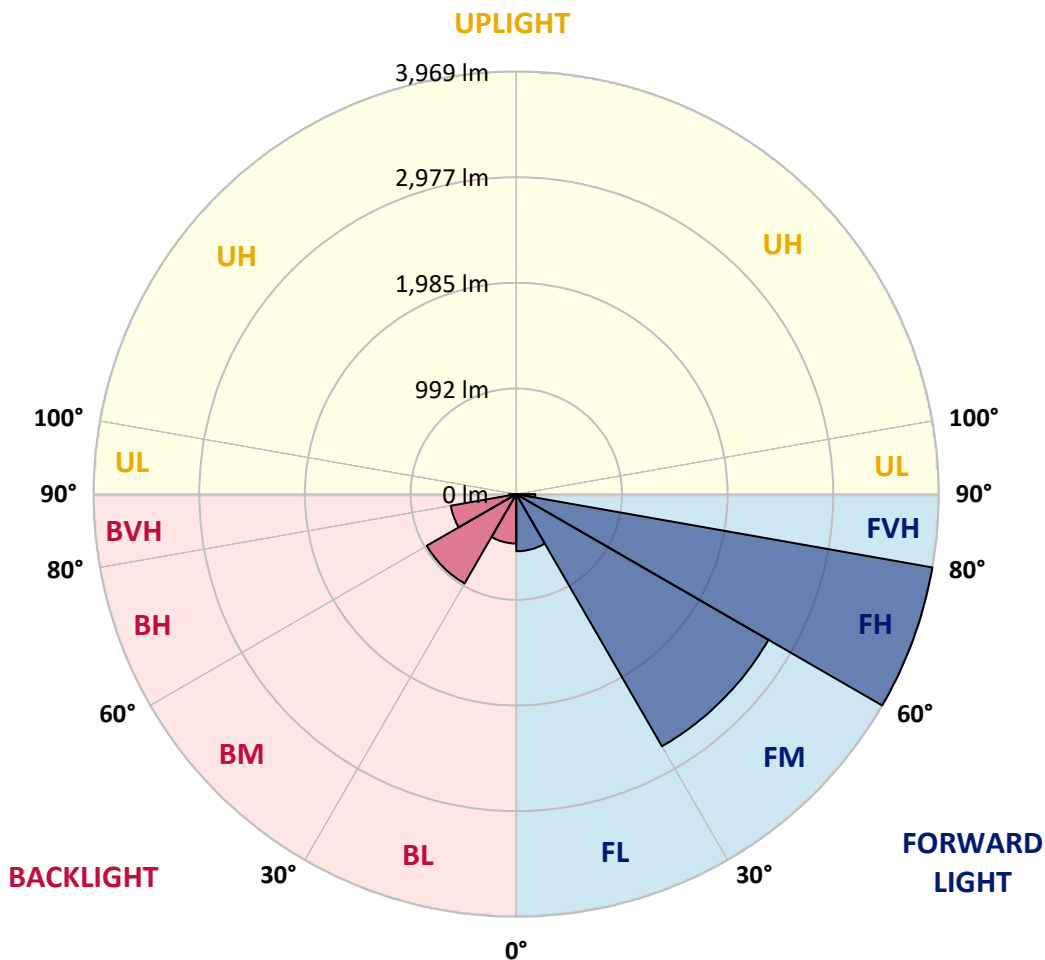
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	536.5	5.6			
FM (30°-60°)	2735.4	28.7			
FH (60°-80°)	3969.4	41.6			G2/5000
FVH (80°-90°)	179.3	1.9			G2/225
BL (0°-30°)	464.0	4.9	B1/500		
BM (30°-60°)	969.7	10.2	B1/1000		
BH (60°-80°)	624.2	6.5	B2/1000		G2/1000
BVH (80°-90°)	67.0	0.7			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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	983.0	983.0	983.0	983.0	983.0	983.0	983.0	983.0	983.0	983.0	983.0
2.5°	1035.5	1041.7	1035.5	1034.5	1024.2	1017.0	1023.2	1013.9	1003.6	999.5	990.2
5°	1130.2	1131.2	1119.9	1120.9	1099.3	1076.7	1080.8	1053.0	1023.2	1011.8	993.3
7.5°	1227.0	1215.6	1199.2	1194.0	1160.1	1135.3	1132.3	1107.6	1061.2	1035.5	1009.8
10°	1289.7	1293.9	1267.1	1244.5	1215.6	1185.8	1184.8	1138.4	1111.7	1073.6	1040.6
12.5°	1345.3	1346.4	1323.7	1287.7	1251.7	1214.6	1219.8	1199.2	1153.9	1117.8	1084.9
15°	1388.6	1382.4	1357.7	1324.7	1286.7	1257.8	1254.7	1237.3	1199.2	1169.3	1114.8
17.5°	1400.9	1397.8	1373.1	1338.1	1301.1	1279.5	1287.7	1258.9	1243.4	1216.7	1164.2
20°	1377.2	1370.0	1365.9	1326.8	1300.0	1298.0	1290.8	1297.0	1271.2	1246.5	1208.4
22.5°	1334.0	1330.9	1328.9	1298.0	1285.6	1294.9	1307.2	1316.5	1312.4	1288.7	1245.5
25°	1289.7	1304.2	1290.8	1276.4	1293.9	1317.5	1314.5	1344.3	1344.3	1337.1	1301.1
27.5°	1320.6	1311.4	1301.1	1293.9	1300.0	1337.1	1335.0	1371.1	1384.4	1371.1	1329.9
30°	1397.8	1388.6	1358.7	1326.8	1318.6	1358.7	1369.0	1400.9	1407.1	1374.2	1339.2
32.5°	1543.0	1537.8	1490.5	1396.8	1346.4	1369.0	1374.2	1410.2	1405.0	1384.4	1370.0
35°	1758.1	1740.6	1674.7	1516.2	1405.0	1382.4	1369.0	1397.8	1417.4	1407.1	1393.7
37.5°	1993.8	1974.2	1892.9	1692.2	1511.1	1418.4	1408.1	1431.8	1454.4	1449.3	1421.5
40°	2219.2	2219.2	2146.1	1912.5	1668.5	1505.9	1508.0	1481.2	1501.8	1492.5	1497.7
42.5°	2441.6	2433.3	2403.5	2170.9	1837.3	1652.1	1619.1	1552.2	1589.3	1586.2	1593.4
45°	2667.0	2660.8	2652.6	2411.7	2079.2	1849.7	1832.2	1711.8	1745.7	1731.3	1762.2
47.5°	2847.1	2854.3	2854.3	2680.4	2337.6	2113.2	2087.5	1897.0	1961.9	1969.1	1976.3
50°	3000.5	3003.6	3000.5	2936.7	2625.8	2414.8	2362.3	2168.8	2233.6	2290.3	2356.1
52.5°	3212.5	3216.6	3202.2	3177.5	3017.0	2731.8	2673.2	2458.0	2590.8	2650.5	2768.9
55°	3474.0	3443.1	3416.3	3434.9	3392.7	3080.8	3020.0	2756.5	2956.2	3035.5	3272.2
57.5°	3522.4	3549.1	3617.1	3764.2	3825.0	3420.5	3385.5	3123.0	3369.0	3438.0	3833.2
60°	3693.2	3649.0	3815.7	4134.8	4202.7	3863.1	3827.0	3524.4	3779.7	3851.7	4351.0
62.5°	3805.4	3803.4	4050.4	4429.2	4583.6	4322.1	4249.1	4046.3	4223.3	4293.3	4915.0
65°	3772.5	3802.3	4240.8	4602.1	4901.7	4844.0	4801.8	4495.1	4728.7	4722.6	5282.5
67.5°	3471.9	3556.3	4120.4	4726.7	5375.1	5480.1	5466.8	5126.0	5139.4	5008.7	5446.2
70°	3055.0	3026.2	3610.9	4597.0	5611.9	6234.6	6231.5	5595.4	5509.0	5071.5	4976.8
72°	2346.9	2315.0	2795.7	3947.5	5487.3	6536.2	6628.9	5920.7	5504.8	4811.1	4111.1
72.5°	2130.7	2102.9	2581.6	3715.9	5349.4	6614.5	6571.2	5933.0	5461.6	4688.6	3840.4
75°	980.9	949.0	1289.7	2274.8	4172.9	5861.0	6008.2	5552.2	4769.9	3732.3	2300.5
77.5°	292.3	283.1	414.8	918.2	2425.1	4318.0	4374.6	4189.4	3329.9	2044.2	853.3
80°	162.6	163.7	214.1	343.8	1066.4	2496.1	2699.9	2587.7	1633.5	675.2	284.1
82.5°	90.6	95.7	133.8	203.8	490.0	1145.6	1233.1	1188.9	590.8	317.0	155.4
85°	47.3	49.4	70.0	109.1	277.9	362.3	372.6	399.4	306.7	216.2	83.4
87.5°	18.5	18.5	25.7	45.3	102.9	112.2	100.9	122.5	176.0	140.0	41.2
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°	983.0	983.0	983.0	983.0	983.0	983.0	983.0	983.0	983.0	983.0	983.0
2.5°	998.4	990.2	989.2	975.8	979.9	968.6	969.6	967.6	968.6	966.5	961.4
5°	993.3	987.1	969.6	980.9	970.7	985.1	996.4	992.3	995.4	994.3	995.4
7.5°	1000.5	992.3	990.2	984.0	993.3	999.5	1008.7	1034.5	1032.4	1035.5	1041.7
10°	1022.1	1012.9	1006.7	1015.9	1010.8	1030.4	1040.6	1054.0	1077.7	1078.7	1066.4
12.5°	1064.3	1058.1	1045.8	1047.9	1065.4	1071.5	1077.7	1085.9	1101.4	1098.3	1109.6
15°	1112.7	1099.3	1092.1	1090.1	1094.2	1101.4	1100.4	1108.6	1116.8	1124.0	1120.9
17.5°	1147.7	1130.2	1132.3	1142.6	1141.5	1139.5	1126.1	1122.0	1126.1	1130.2	1128.1
20°	1183.7	1185.8	1170.3	1161.1	1157.0	1136.4	1126.1	1113.7	1101.4	1107.6	1116.8
22.5°	1229.0	1219.8	1197.1	1169.3	1148.7	1136.4	1104.5	1082.9	1082.9	1089.0	1085.9
25°	1280.5	1260.9	1221.8	1171.4	1145.6	1093.1	1070.5	1067.4	1059.2	1068.4	1072.6
27.5°	1320.6	1303.1	1249.6	1164.2	1093.1	1050.9	1037.6	1033.4	1046.8	1047.9	1064.3
30°	1337.1	1331.9	1253.7	1145.6	1039.6	971.7	963.5	982.0	996.4	1018.0	1019.0
32.5°	1358.7	1360.8	1259.9	1102.4	969.6	901.7	889.3	912.0	953.2	970.7	984.0
35°	1394.7	1405.0	1254.7	1048.9	895.5	830.7	828.6	834.8	874.9	905.8	923.3
37.5°	1457.5	1455.5	1253.7	985.1	836.8	768.9	752.4	754.5	781.3	807.0	803.9
40°	1541.9	1533.7	1250.6	901.7	760.7	716.4	688.6	678.3	676.3	669.1	671.1
42.5°	1657.2	1640.7	1249.6	817.3	691.7	644.4	624.8	598.0	578.5	541.4	543.5
45°	1817.8	1789.0	1222.8	738.0	623.8	584.7	554.8	535.3	493.0	446.7	446.7
47.5°	2065.9	1972.2	1223.9	650.5	557.9	526.0	505.4	471.4	426.1	389.1	385.0
50°	2431.3	2217.2	1188.9	581.6	504.4	482.8	461.1	422.0	378.8	353.1	356.1
52.5°	2902.7	2582.6	1187.8	519.8	462.2	446.7	423.1	388.1	356.1	339.7	333.5
55°	3464.7	3066.4	1224.9	469.4	418.9	410.7	400.4	371.6	340.7	326.3	325.3
57.5°	4040.1	3538.8	1284.6	433.3	381.9	388.1	380.9	358.2	333.5	317.0	315.0
60°	4551.7	3913.5	1164.2	390.1	348.9	362.3	372.6	353.1	339.7	338.6	331.4
62.5°	4937.7	4074.1	885.2	357.2	331.4	356.1	383.9	396.3	390.1	398.3	399.4
65°	5078.7	3977.3	609.4	339.7	318.1	370.6	432.3	428.2	392.2	376.7	385.0
67.5°	4881.1	3585.1	451.9	319.1	308.8	400.4	460.1	408.6	354.1	352.0	345.9
70°	4197.6	3038.6	368.5	297.5	293.4	383.9	447.8	378.8	333.5	320.1	313.9
72°	3344.3	2366.4	323.2	282.0	268.7	342.8	418.9	355.1	316.0	299.5	292.3
72.5°	3053.0	2193.5	317.0	274.8	263.5	333.5	404.5	347.9	311.9	297.5	286.2
75°	1674.7	1123.0	278.9	252.2	222.3	288.2	374.7	326.3	294.4	273.8	271.7
77.5°	622.7	435.4	240.9	223.4	192.5	249.1	340.7	309.8	267.6	241.9	236.7
80°	238.8	229.5	196.6	188.4	161.6	218.2	313.9	277.9	227.5	201.7	193.5
82.5°	145.1	133.8	149.3	147.2	123.5	198.7	295.4	260.4	201.7	163.7	158.5
85°	79.3	79.3	104.0	99.8	86.5	158.5	223.4	172.9	127.6	105.0	107.1
87.5°	35.0	41.2	55.6	52.5	47.3	89.6	109.1	91.6	63.8	43.2	46.3
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)