

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: P478541

Luminaire Tested: **IFLD-S-SA2A-740-U-T4W**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P478541
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-T4W
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4W distribution lens
Light Source: (32) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

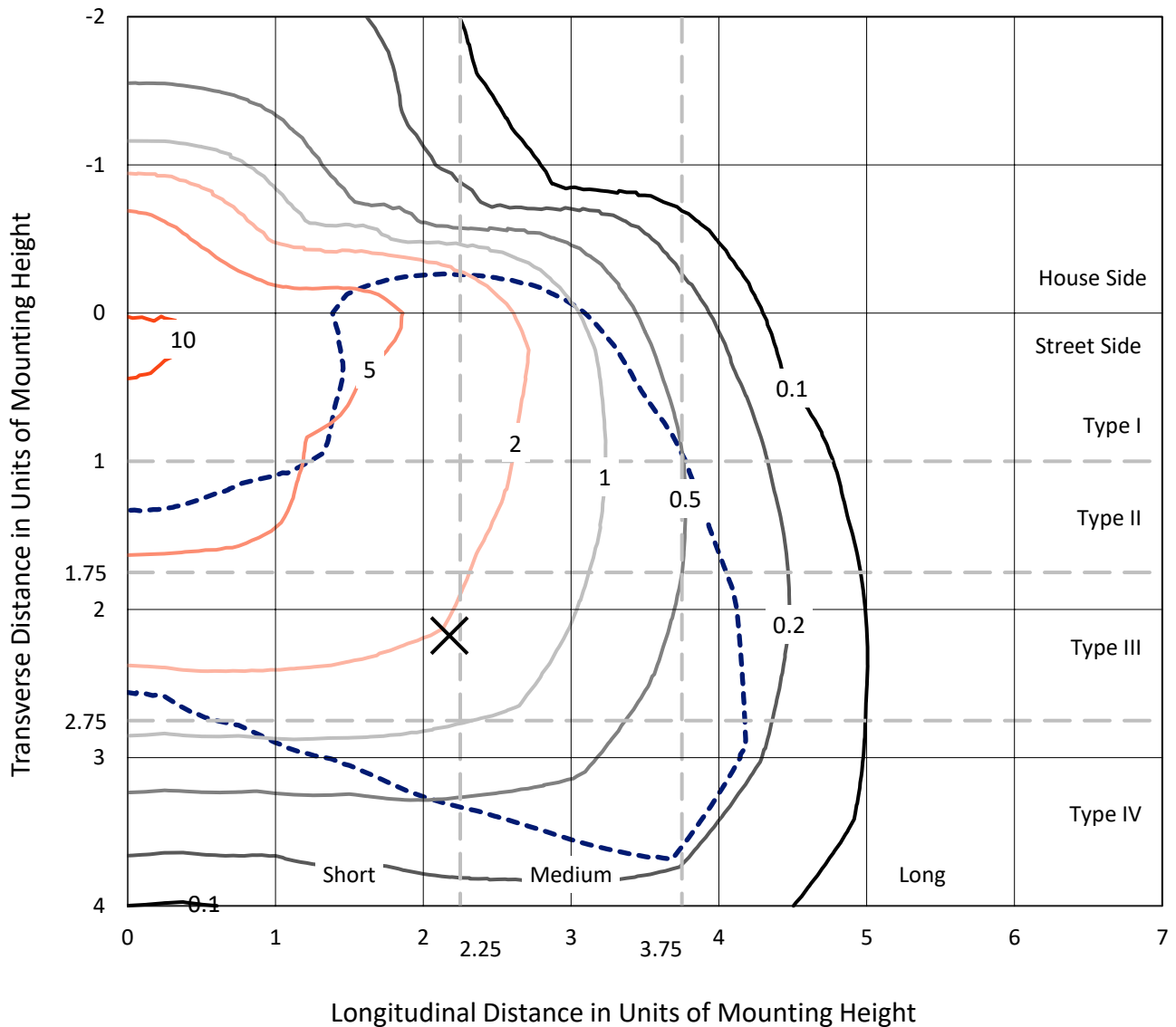
Lumens per Lamp: N/A
Luminaire Lumens: 9331.7 lumens
Efficiency: N/A
Efficacy: 146.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G2

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

REPORT NUMBER: P478541
 CATALOG NUMBER: IFLD-S-SA2A-740-U-T4W

Iso-Footcandle Lines of Horizontal Illumination

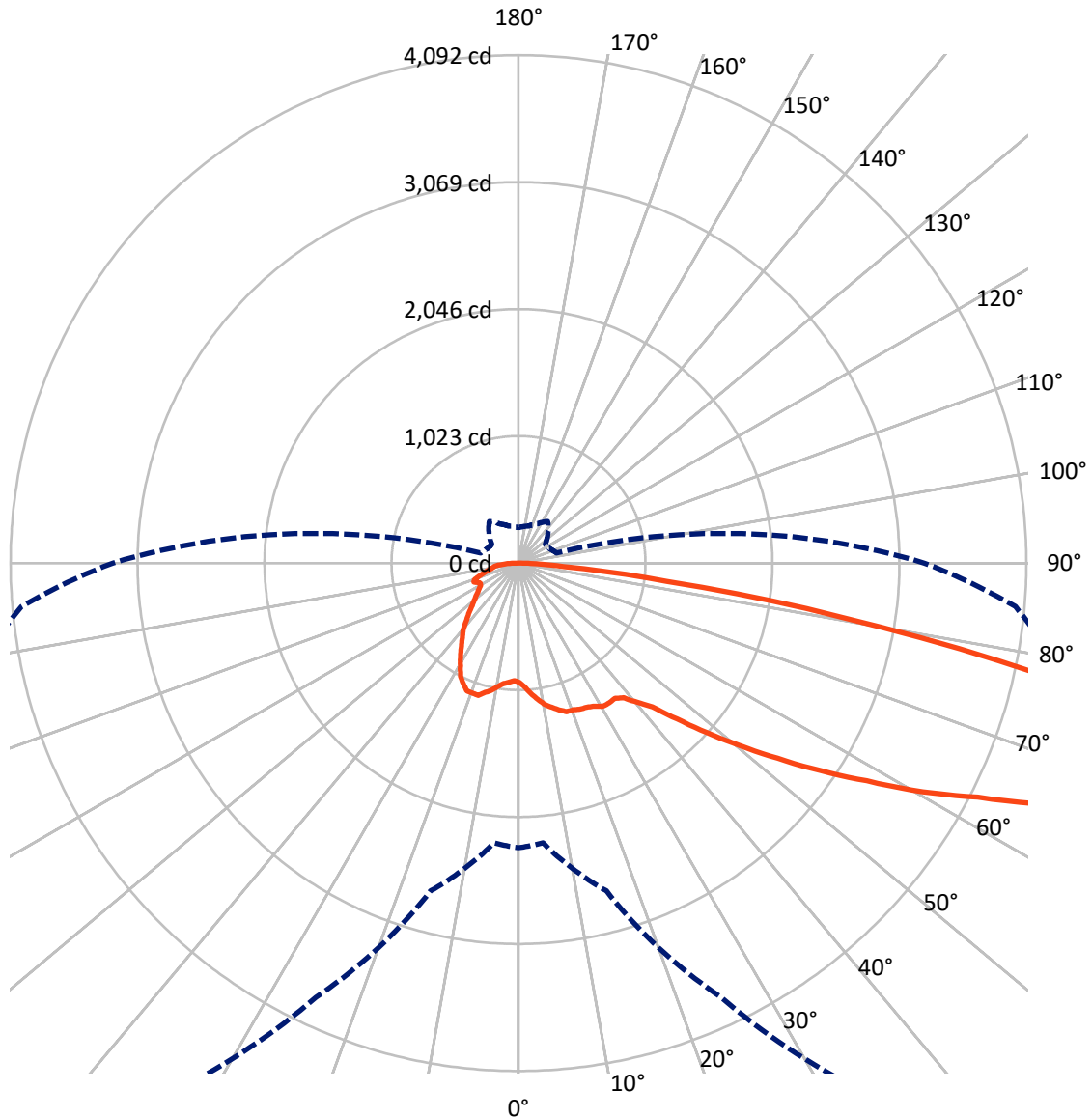
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 12.2 fc
 Type IV - Short - N/A

REPORT NUMBER: P478541
CATALOG NUMBER: IFLD-S-SA2A-740-U-T4W

Luminous Intensity Polar Plot



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

REPORT NUMBER: P478541
 CATALOG NUMBER: IFLD-S-SA2A-740-U-T4W

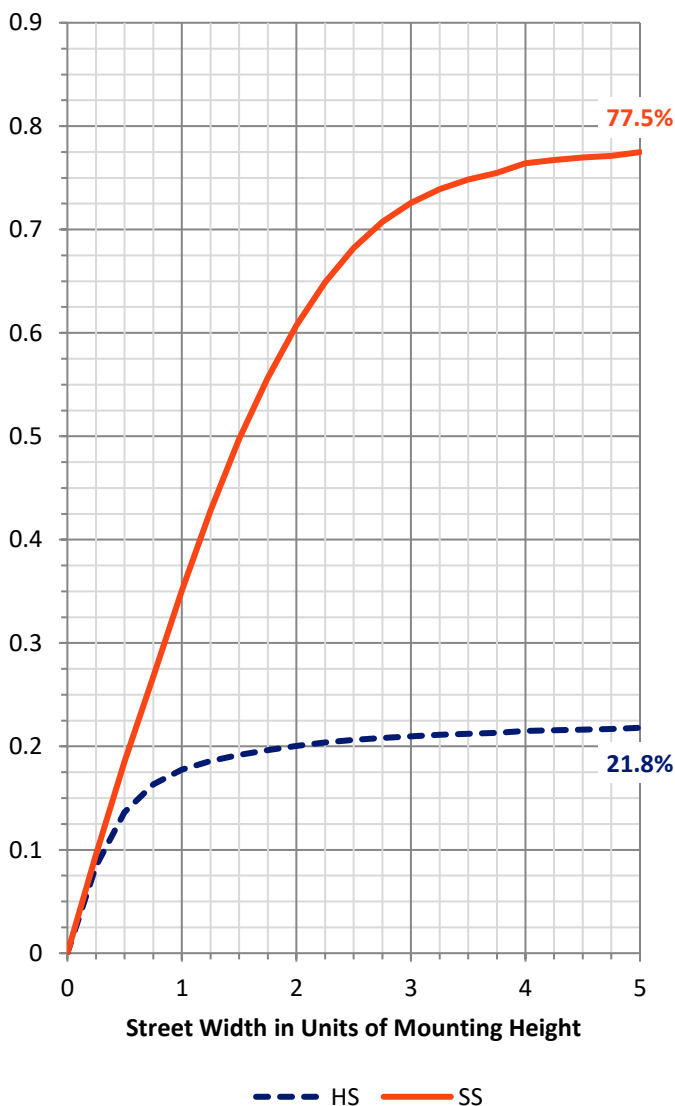
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2077.3	0.0	2077.3
	% Fixture	22.3	0.0	22.3
Street Side	Lumens	7254.4	0.0	7254.4
	% Fixture	77.7	0.0	77.7
Total	Lumens	9331.7	0.0	9331.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	98.3	1.1
10°-20°	327.2	3.5
20°-30°	552.5	5.9
30°-40°	764.6	8.2
40°-50°	1093.7	11.7
50°-60°	1763.9	18.9
60°-70°	2601.6	27.9
70°-80°	1889.2	20.2
80°-90°	240.8	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°	9331.7	100.0
0°-180°	9331.7	100.0

Coefficient of Utilization



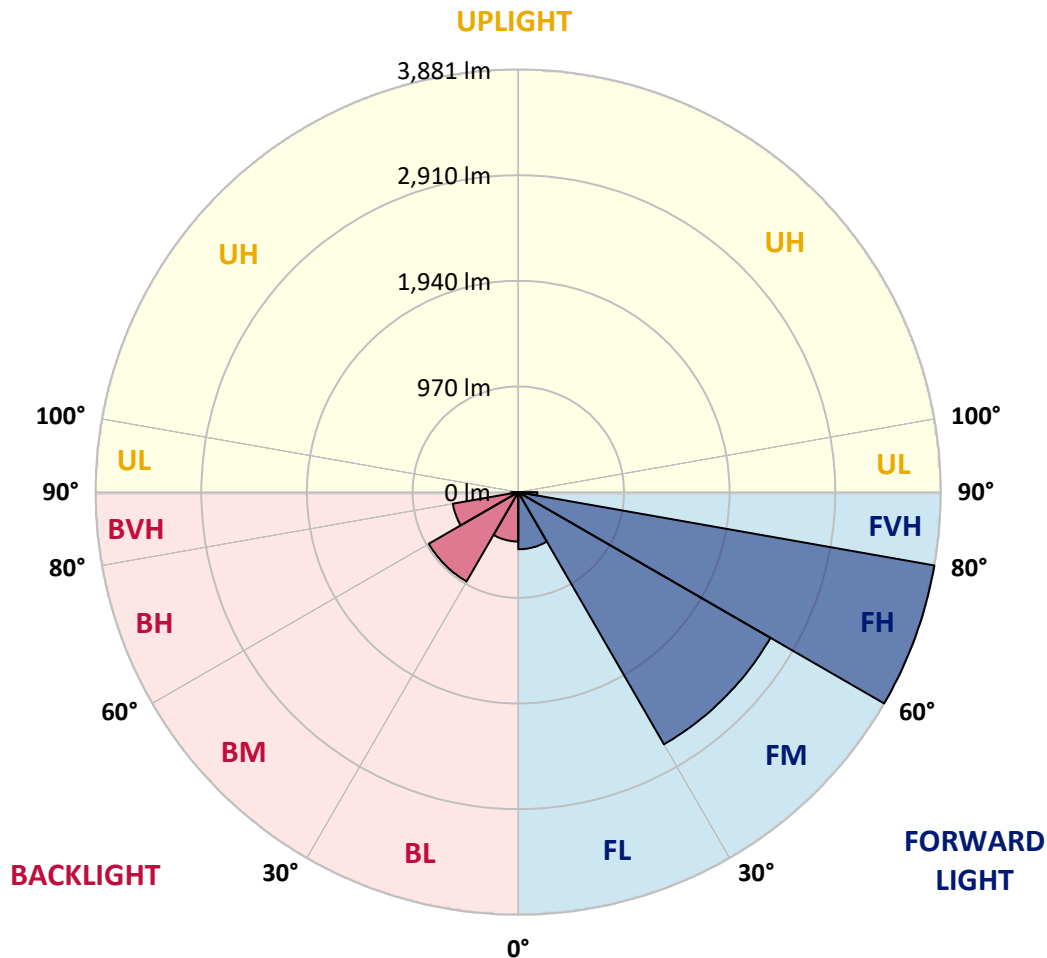
REPORT NUMBER: P478541
 CATALOG NUMBER: IFLD-S-SA2A-740-U-T4W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	524.4	5.6			
FM (30°-60°)	2674.2	28.7			
FH (60°-80°)	3880.6	41.6			G2/5000
FVH (80°-90°)	175.3	1.9			G2/225
BL (0°-30°)	453.6	4.9	B1/500		
BM (30°-60°)	948.0	10.2	B1/1000		
BH (60°-80°)	610.2	6.5	B2/1000		G2/1000
BVH (80°-90°)	65.5	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





REPORT NUMBER: P478541
 CATALOG NUMBER: IFLD-S-SA2A-740-U-T4W

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	961.0	961.0	961.0	961.0	961.0	961.0	961.0	961.0	961.0	961.0	961.0
2.5°	1012.3	1018.4	1012.3	1011.3	1001.3	994.2	1000.2	991.2	981.1	977.1	968.0
5°	1104.9	1105.9	1094.8	1095.8	1074.7	1052.6	1056.6	1029.4	1000.2	989.2	971.1
7.5°	1199.5	1188.4	1172.3	1167.3	1134.1	1109.9	1106.9	1082.8	1037.5	1012.3	987.2
10°	1260.9	1264.9	1238.7	1216.6	1188.4	1159.2	1158.2	1112.9	1086.8	1049.6	1017.4
12.5°	1315.2	1316.2	1294.1	1258.9	1223.6	1187.4	1192.4	1172.3	1128.0	1092.8	1060.6
15°	1357.5	1351.4	1327.3	1295.1	1257.9	1229.7	1226.7	1209.6	1172.3	1143.1	1089.8
17.5°	1369.6	1366.5	1342.4	1308.2	1271.9	1250.8	1258.9	1230.7	1215.6	1189.4	1138.1
20°	1346.4	1339.4	1335.3	1297.1	1270.9	1268.9	1261.9	1267.9	1242.8	1218.6	1181.4
22.5°	1304.1	1301.1	1299.1	1268.9	1256.8	1265.9	1278.0	1287.0	1283.0	1259.9	1217.6
25°	1260.9	1275.0	1261.9	1247.8	1264.9	1288.0	1285.0	1314.2	1314.2	1307.2	1271.9
27.5°	1291.1	1282.0	1271.9	1264.9	1270.9	1307.2	1305.1	1340.4	1353.5	1340.4	1300.1
30°	1366.5	1357.5	1328.3	1297.1	1289.0	1328.3	1338.4	1369.6	1375.6	1343.4	1309.2
32.5°	1508.4	1503.4	1457.1	1365.5	1316.2	1338.4	1343.4	1378.6	1373.6	1353.5	1339.4
35°	1718.7	1701.6	1637.2	1482.3	1373.6	1351.4	1338.4	1366.5	1385.7	1375.6	1362.5
37.5°	1949.2	1930.1	1850.6	1654.3	1477.2	1386.7	1376.6	1399.7	1421.9	1416.8	1389.7
40°	2169.5	2169.5	2098.1	1869.7	1631.2	1472.2	1474.2	1448.0	1468.2	1459.1	1464.1
42.5°	2386.9	2378.9	2349.7	2122.3	1796.2	1615.1	1582.9	1517.5	1553.7	1550.7	1557.7
45°	2607.3	2601.2	2593.2	2357.7	2032.7	1808.3	1791.2	1673.4	1706.7	1692.6	1722.8
47.5°	2783.4	2790.4	2790.4	2620.4	2285.3	2065.9	2040.7	1854.6	1918.0	1925.0	1932.1
50°	2933.3	2936.3	2933.3	2870.9	2567.0	2360.7	2309.4	2120.2	2183.6	2239.0	2303.4
52.5°	3140.6	3144.6	3130.5	3106.4	2949.4	2670.7	2613.3	2403.0	2532.8	2591.2	2706.9
55°	3396.2	3366.0	3339.9	3358.0	3316.7	3011.8	2952.4	2694.8	2890.0	2967.5	3199.0
57.5°	3443.5	3469.7	3536.1	3680.0	3739.3	3343.9	3309.7	3053.1	3293.6	3361.0	3747.4
60°	3610.5	3567.3	3730.3	4042.2	4108.7	3776.6	3741.4	3445.5	3695.1	3765.5	4253.6
62.5°	3720.2	3718.2	3959.7	4330.0	4481.0	4225.4	4153.9	3955.7	4128.8	4197.2	4805.0
65°	3688.0	3717.2	4145.9	4499.1	4791.9	4735.6	4694.3	4394.4	4622.9	4616.8	5164.2
67.5°	3394.2	3476.7	4028.2	4620.9	5254.8	5357.5	5344.4	5011.3	5024.4	4896.6	5324.2
70°	2986.6	2958.5	3530.0	4494.1	5486.3	6095.1	6092.0	5470.2	5385.6	4958.0	4865.4
72°	2294.3	2263.1	2733.1	3859.1	5364.5	6389.9	6480.5	5788.1	5381.6	4703.4	4019.1
72.5°	2083.0	2055.8	2523.8	3632.7	5229.7	6466.4	6424.1	5800.2	5339.3	4583.6	3754.4
75°	959.0	927.8	1260.9	2223.9	4079.5	5729.8	5873.7	5427.9	4663.1	3648.8	2249.0
77.5°	285.8	276.7	405.5	897.6	2370.8	4221.4	4276.7	4095.6	3255.3	1998.5	834.2
80°	159.0	160.0	209.3	336.1	1042.5	2440.2	2639.5	2529.8	1597.0	660.1	277.7
82.5°	88.6	93.6	130.8	199.2	479.0	1120.0	1205.5	1162.3	577.6	309.9	151.9
85°	46.3	48.3	68.4	106.7	271.7	354.2	364.3	390.4	299.9	211.3	81.5
87.5°	18.1	18.1	25.2	44.3	100.6	109.7	98.6	119.7	172.1	136.9	40.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P478541
 CATALOG NUMBER: IFLD-S-SA2A-740-U-T4W

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	961.0	961.0	961.0	961.0	961.0	961.0	961.0	961.0	961.0	961.0	961.0
2.5°	976.1	968.0	967.0	954.0	958.0	946.9	947.9	945.9	946.9	944.9	939.9
5°	971.1	965.0	947.9	959.0	948.9	963.0	974.1	970.1	973.1	972.1	973.1
7.5°	978.1	970.1	968.0	962.0	971.1	977.1	986.2	1011.3	1009.3	1012.3	1018.4
10°	999.2	990.2	984.1	993.2	988.2	1007.3	1017.4	1030.4	1053.6	1054.6	1042.5
12.5°	1040.5	1034.5	1022.4	1024.4	1041.5	1047.5	1053.6	1061.6	1076.7	1073.7	1084.8
15°	1087.8	1074.7	1067.7	1065.7	1069.7	1076.7	1075.7	1083.8	1091.8	1098.9	1095.8
17.5°	1122.0	1104.9	1106.9	1117.0	1116.0	1114.0	1100.9	1096.8	1100.9	1104.9	1102.9
20°	1157.2	1159.2	1144.1	1135.1	1131.1	1110.9	1100.9	1088.8	1076.7	1082.8	1091.8
22.5°	1201.5	1192.4	1170.3	1143.1	1123.0	1110.9	1079.7	1058.6	1058.6	1064.6	1061.6
25°	1251.8	1232.7	1194.5	1145.2	1120.0	1068.7	1046.5	1043.5	1035.5	1044.5	1048.5
27.5°	1291.1	1274.0	1221.6	1138.1	1068.7	1027.4	1014.3	1010.3	1023.4	1024.4	1040.5
30°	1307.2	1302.1	1225.7	1120.0	1016.3	949.9	941.9	960.0	974.1	995.2	996.2
32.5°	1328.3	1330.3	1231.7	1077.7	947.9	881.5	869.4	891.6	931.8	948.9	962.0
35°	1363.5	1373.6	1226.7	1025.4	875.5	812.1	810.1	816.1	855.3	885.5	902.6
37.5°	1424.9	1422.9	1225.7	963.0	818.1	751.7	735.6	737.6	763.8	788.9	785.9
40°	1507.4	1499.4	1222.6	881.5	743.6	700.4	673.2	663.1	661.1	654.1	656.1
42.5°	1620.1	1604.0	1221.6	799.0	676.2	629.9	610.8	584.7	565.5	529.3	531.3
45°	1777.1	1748.9	1195.5	721.5	609.8	571.6	542.4	523.3	482.0	436.7	436.7
47.5°	2019.6	1928.0	1196.5	636.0	545.4	514.2	494.1	460.9	416.6	380.4	376.3
50°	2376.8	2167.5	1162.3	568.5	493.1	471.9	450.8	412.6	370.3	345.2	348.2
52.5°	2837.7	2524.8	1161.3	508.2	451.8	436.7	413.6	379.4	348.2	332.1	326.0
55°	3387.1	2997.7	1197.5	458.9	409.6	401.5	391.4	363.3	333.1	319.0	318.0
57.5°	3949.7	3459.6	1255.8	423.6	373.3	379.4	372.3	350.2	326.0	309.9	307.9
60°	4449.8	3825.9	1138.1	381.4	341.1	354.2	364.3	345.2	332.1	331.1	324.0
62.5°	4827.1	3982.9	865.4	349.2	324.0	348.2	375.3	387.4	381.4	389.4	390.4
65°	4965.0	3888.3	595.7	332.1	310.9	362.3	422.6	418.6	383.4	368.3	376.3
67.5°	4771.8	3504.9	441.8	311.9	301.9	391.4	449.8	399.5	346.2	344.1	338.1
70°	4103.6	2970.5	360.2	290.8	286.8	375.3	437.7	370.3	326.0	313.0	306.9
72°	3269.4	2313.4	316.0	275.7	262.6	335.1	409.6	347.2	308.9	292.8	285.8
72.5°	2984.6	2144.4	309.9	268.7	257.6	326.0	395.5	340.1	304.9	290.8	279.7
75°	1637.2	1097.9	272.7	246.5	217.4	281.8	366.3	319.0	287.8	267.7	265.7
77.5°	608.8	425.7	235.5	218.4	188.2	243.5	333.1	302.9	261.6	236.5	231.4
80°	233.5	224.4	192.2	184.1	158.0	213.3	306.9	271.7	222.4	197.2	189.2
82.5°	141.9	130.8	145.9	143.9	120.8	194.2	288.8	254.6	197.2	160.0	155.0
85°	77.5	77.5	101.6	97.6	84.5	155.0	218.4	169.1	124.8	102.6	104.7
87.5°	34.2	40.3	54.3	51.3	46.3	87.5	106.7	89.6	62.4	42.3	45.3
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)