

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: P478387

Luminaire Tested: **IFLD-S-SA2C-722-U-T4W**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P478387  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA2C-722-U-T4W  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4W distribution lens  
Light Source: (32) 2200K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

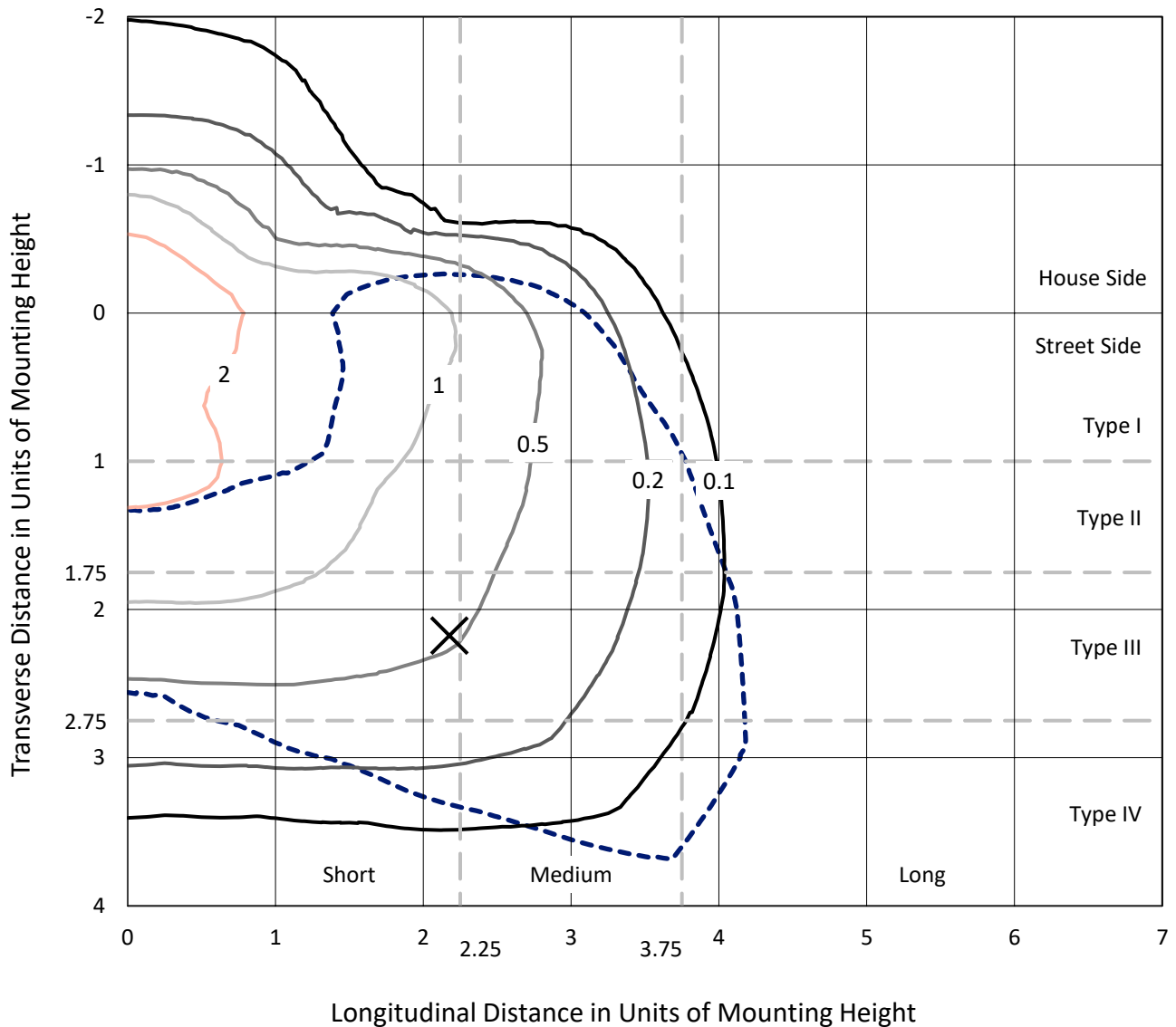
Lumens per Lamp: N/A  
Luminaire Lumens: 10582.4 lumens  
Efficiency: N/A  
Efficacy: 97.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G2

Input Watts (W): 108.2  
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

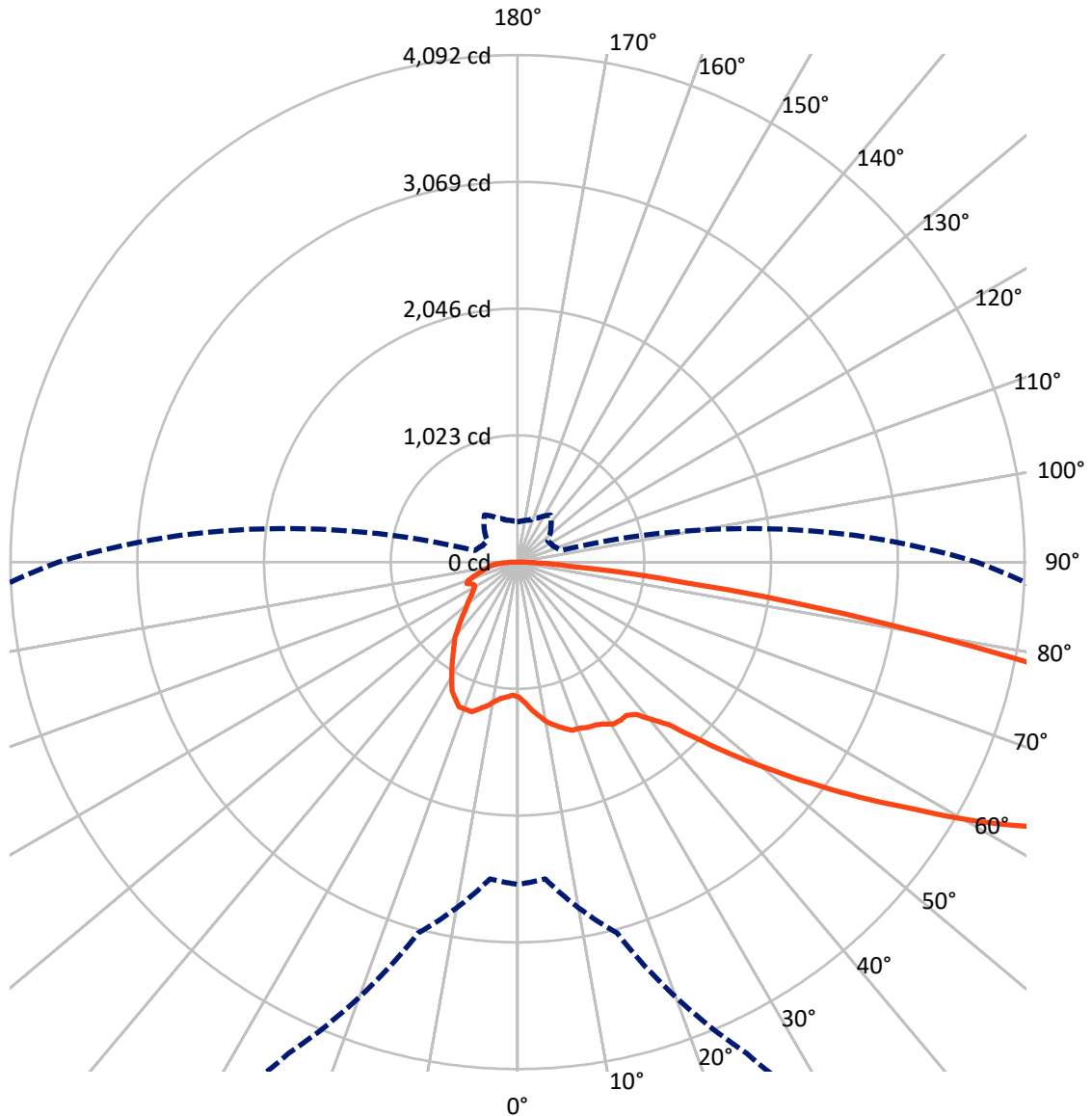
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 3.5 fc  
 Type IV - Short - N/A

REPORT NUMBER: P478387  
CATALOG NUMBER: IFLD-S-SA2C-722-U-T4W

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P478387

CATALOG NUMBER: IFLD-S-SA2C-722-U-T4W

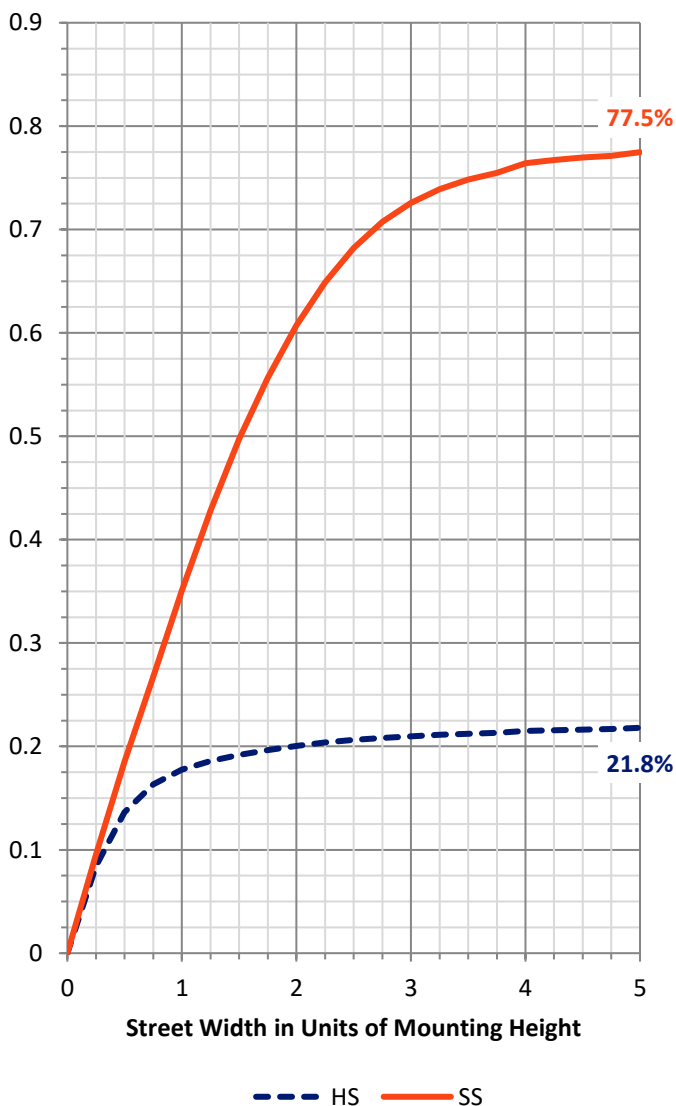
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2355.7	0.0	2355.7
	% Fixture	22.3	0.0	22.3
<b>Street Side</b>	Lumens	8226.7	0.0	8226.7
	% Fixture	77.7	0.0	77.7
<b>Total</b>	Lumens	10582.4	0.0	10582.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	111.5	1.1
10°-20°	371.0	3.5
20°-30°	626.6	5.9
30°-40°	867.0	8.2
40°-50°	1240.2	11.7
50°-60°	2000.4	18.9
60°-70°	2950.2	27.9
70°-80°	2142.4	20.2
80°-90°	273.1	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°	10582.4	100.0
0°-180°	10582.4	100.0

**Coefficient of Utilization**



REPORT NUMBER: P478387

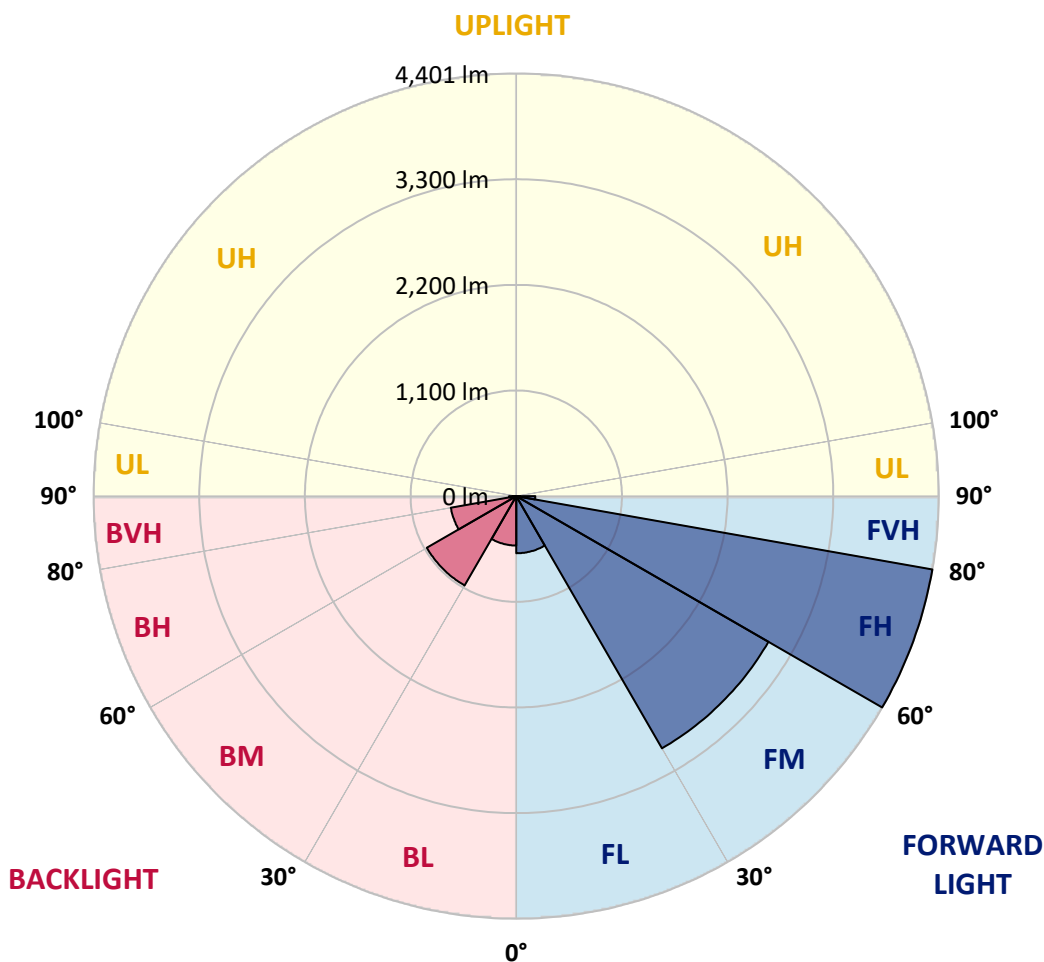
CATALOG NUMBER: IFLD-S-SA2C-722-U-T4W

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	594.7	5.6			
FM (30°-60°)	3032.6	28.7			
FH (60°-80°)	4400.7	41.6			G2/5000
FVH (80°-90°)	198.8	1.9			G2/225
BL (0°-30°)	514.4	4.9	B2/1000		
BM (30°-60°)	1075.1	10.2	B2/2500		
BH (60°-80°)	692.0	6.5	B2/1000		G2/1000
BVH (80°-90°)	74.3	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°	1089.8	1089.8	1089.8	1089.8	1089.8	1089.8	1089.8	1089.8	1089.8	1089.8	1089.8
2.5°	1148.0	1154.8	1148.0	1146.9	1135.4	1127.5	1134.3	1124.0	1112.6	1108.1	1097.8
5°	1253.0	1254.1	1241.6	1242.7	1218.8	1193.6	1198.2	1167.4	1134.3	1121.8	1101.2
7.5°	1360.3	1347.7	1329.4	1323.7	1286.1	1258.7	1255.3	1227.9	1176.5	1148.0	1119.5
10°	1429.9	1434.4	1404.8	1379.7	1347.7	1314.6	1313.5	1262.1	1232.4	1190.2	1153.7
12.5°	1491.5	1492.6	1467.5	1427.6	1387.6	1346.6	1352.3	1329.4	1279.2	1239.3	1202.8
15°	1539.4	1532.6	1505.2	1468.7	1426.4	1394.5	1391.1	1371.7	1329.4	1296.3	1235.9
17.5°	1553.1	1549.7	1522.3	1483.5	1442.4	1418.5	1427.6	1395.6	1378.5	1348.8	1290.6
20°	1526.9	1518.9	1514.3	1470.9	1441.3	1439.0	1431.0	1437.9	1409.3	1381.9	1339.7
22.5°	1478.9	1475.5	1473.2	1439.0	1425.3	1435.6	1449.3	1459.5	1455.0	1428.7	1380.8
25°	1429.9	1445.8	1431.0	1415.0	1434.4	1460.7	1457.3	1490.3	1490.3	1482.4	1442.4
27.5°	1464.1	1453.8	1442.4	1434.4	1441.3	1482.4	1480.1	1520.0	1534.9	1520.0	1474.4
30°	1549.7	1539.4	1506.3	1470.9	1461.8	1506.3	1517.7	1553.1	1560.0	1523.4	1484.6
32.5°	1710.6	1704.9	1652.4	1548.5	1492.6	1517.7	1523.4	1563.4	1557.7	1534.9	1518.9
35°	1949.1	1929.7	1856.7	1680.9	1557.7	1532.6	1517.7	1549.7	1571.4	1560.0	1545.1
37.5°	2210.4	2188.7	2098.6	1876.1	1675.2	1572.5	1561.1	1587.3	1612.4	1606.7	1575.9
40°	2460.3	2460.3	2379.3	2120.3	1849.8	1669.5	1671.8	1642.1	1664.9	1654.7	1660.4
42.5°	2706.8	2697.7	2664.6	2406.7	2037.0	1831.6	1795.0	1720.9	1761.9	1758.5	1766.5
45°	2956.7	2949.9	2940.8	2673.7	2305.1	2050.7	2031.3	1897.7	1935.4	1919.4	1953.7
47.5°	3156.4	3164.4	3164.4	2971.6	2591.6	2342.8	2314.3	2103.1	2175.0	2183.0	2191.0
50°	3326.5	3329.9	3326.5	3255.7	2911.1	2677.1	2618.9	2404.4	2476.3	2539.1	2612.1
52.5°	3561.5	3566.1	3550.1	3522.7	3344.7	3028.6	2963.6	2725.1	2872.3	2938.5	3069.7
55°	3851.4	3817.2	3787.5	3808.0	3761.2	3415.5	3348.1	3056.0	3277.4	3365.3	3627.7
57.5°	3905.0	3934.7	4010.0	4173.2	4240.5	3792.1	3753.3	3462.3	3735.0	3811.5	4249.7
60°	4094.5	4045.4	4230.3	4584.0	4659.3	4282.7	4242.8	3907.3	4190.3	4270.2	4823.7
62.5°	4218.8	4216.6	4490.4	4910.4	5081.6	4791.7	4710.7	4485.9	4682.1	4759.7	5449.0
65°	4182.3	4215.4	4701.5	5102.1	5434.2	5370.3	5323.5	4983.4	5242.5	5235.6	5856.4
67.5°	3849.1	3942.7	4568.0	5240.2	5959.1	6075.5	6060.7	5682.9	5697.8	5552.8	6037.8
70°	3386.9	3355.0	4003.2	5096.4	6221.6	6912.0	6908.5	6203.3	6107.4	5622.5	5517.5
72°	2601.8	2566.5	3099.4	4376.3	6083.5	7246.3	7349.0	6563.9	6102.9	5333.7	4557.8
72.5°	2362.2	2331.4	2862.0	4119.6	5930.6	7333.0	7285.1	6577.6	6055.0	5198.0	4257.6
75°	1087.5	1052.1	1429.9	2521.9	4626.2	6497.7	6660.9	6155.4	5288.1	4137.8	2550.5
77.5°	324.1	313.8	459.9	1017.9	2688.6	4787.1	4849.9	4644.5	3691.6	2266.3	946.0
80°	180.3	181.4	237.4	381.1	1182.2	2767.3	2993.2	2868.9	1811.0	748.6	315.0
82.5°	100.4	106.1	148.3	225.9	543.2	1270.1	1367.1	1318.0	655.0	351.5	172.3
85°	52.5	54.8	77.6	121.0	308.1	401.7	413.1	442.8	340.1	239.6	92.4
87.5°	20.5	20.5	28.5	50.2	114.1	124.4	111.8	135.8	195.1	155.2	45.6
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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 CATALOG NUMBER: IFLD-S-SA2C-722-U-T4W

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1089.8	1089.8	1089.8	1089.8	1089.8	1089.8	1089.8	1089.8	1089.8	1089.8	1089.8
2.5°	1106.9	1097.8	1096.6	1081.8	1086.4	1073.8	1075.0	1072.7	1073.8	1071.5	1065.8
5°	1101.2	1094.4	1075.0	1087.5	1076.1	1092.1	1104.6	1100.1	1103.5	1102.4	1103.5
7.5°	1109.2	1100.1	1097.8	1090.9	1101.2	1108.1	1118.3	1146.9	1144.6	1148.0	1154.8
10°	1133.2	1122.9	1116.0	1126.3	1120.6	1142.3	1153.7	1168.5	1194.8	1195.9	1182.2
12.5°	1180.0	1173.1	1159.4	1161.7	1181.1	1187.9	1194.8	1203.9	1221.0	1217.6	1230.2
15°	1233.6	1218.8	1210.8	1208.5	1213.0	1221.0	1219.9	1229.0	1238.2	1246.1	1242.7
17.5°	1272.4	1253.0	1255.3	1266.7	1265.5	1263.3	1248.4	1243.9	1248.4	1253.0	1250.7
20°	1312.3	1314.6	1297.5	1287.2	1282.7	1259.8	1248.4	1234.7	1221.0	1227.9	1238.2
22.5°	1362.5	1352.3	1327.2	1296.3	1273.5	1259.8	1224.5	1200.5	1200.5	1207.3	1203.9
25°	1419.6	1397.9	1354.5	1298.6	1270.1	1211.9	1186.8	1183.4	1174.2	1184.5	1189.1
27.5°	1464.1	1444.7	1385.4	1290.6	1211.9	1165.1	1150.3	1145.7	1160.6	1161.7	1180.0
30°	1482.4	1476.7	1389.9	1270.1	1152.6	1077.2	1068.1	1088.7	1104.6	1128.6	1129.7
32.5°	1506.3	1508.6	1396.8	1222.2	1075.0	999.6	986.0	1011.1	1056.7	1076.1	1090.9
35°	1546.3	1557.7	1391.1	1162.8	992.8	920.9	918.6	925.5	970.0	1004.2	1023.6
37.5°	1615.9	1613.6	1389.9	1092.1	927.8	852.4	834.2	836.5	866.1	894.7	891.2
40°	1709.4	1700.3	1386.5	999.6	843.3	794.2	763.4	752.0	749.7	741.7	744.0
42.5°	1837.3	1819.0	1385.4	906.1	766.9	714.4	692.7	663.0	641.3	600.2	602.5
45°	2015.3	1983.3	1355.7	818.2	691.5	648.2	615.1	593.4	546.6	495.3	495.3
47.5°	2290.3	2186.4	1356.8	721.2	618.5	583.1	560.3	522.6	472.4	431.4	426.8
50°	2695.4	2458.0	1318.0	644.8	559.2	535.2	511.2	467.9	419.9	391.4	394.8
52.5°	3218.1	2863.2	1316.9	576.3	512.4	495.3	469.0	430.2	394.8	376.6	369.7
55°	3841.1	3399.5	1358.0	520.4	464.4	455.3	443.9	412.0	377.7	361.7	360.6
57.5°	4479.0	3923.3	1424.2	480.4	423.4	430.2	422.2	397.1	369.7	351.5	349.2
60°	5046.2	4338.7	1290.6	432.5	386.9	401.7	413.1	391.4	376.6	375.4	367.5
62.5°	5474.1	4516.7	981.4	396.0	367.5	394.8	425.6	439.3	432.5	441.6	442.8
65°	5630.4	4409.4	675.6	376.6	352.6	410.8	479.3	474.7	434.8	417.7	426.8
67.5°	5411.3	3974.6	501.0	353.8	342.3	443.9	510.1	453.0	392.6	390.3	383.4
70°	4653.6	3368.7	408.5	329.8	325.2	425.6	496.4	419.9	369.7	354.9	348.1
72°	3707.6	2623.5	358.3	312.7	297.8	380.0	464.4	393.7	350.3	332.1	324.1
72.5°	3384.7	2431.8	351.5	304.7	292.1	369.7	448.5	385.7	345.8	329.8	317.2
75°	1856.7	1245.0	309.3	279.6	246.5	319.5	415.4	361.7	326.4	303.5	301.3
77.5°	690.4	482.7	267.0	247.6	213.4	276.2	377.7	343.5	296.7	268.2	262.5
80°	264.7	254.5	218.0	208.8	179.2	241.9	348.1	308.1	252.2	223.7	214.5
82.5°	160.9	148.3	165.5	163.2	136.9	220.2	327.5	288.7	223.7	181.4	175.7
85°	87.9	87.9	115.3	110.7	95.9	175.7	247.6	191.7	141.5	116.4	118.7
87.5°	38.8	45.6	61.6	58.2	52.5	99.3	121.0	101.6	70.8	47.9	51.4
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)