

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: P481037

Luminaire Tested: **IFLD-S-SA2A-830-U-SL4**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P481037  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA2A-830-U-SL4  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL4 distribution lens  
Light Source: (32) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

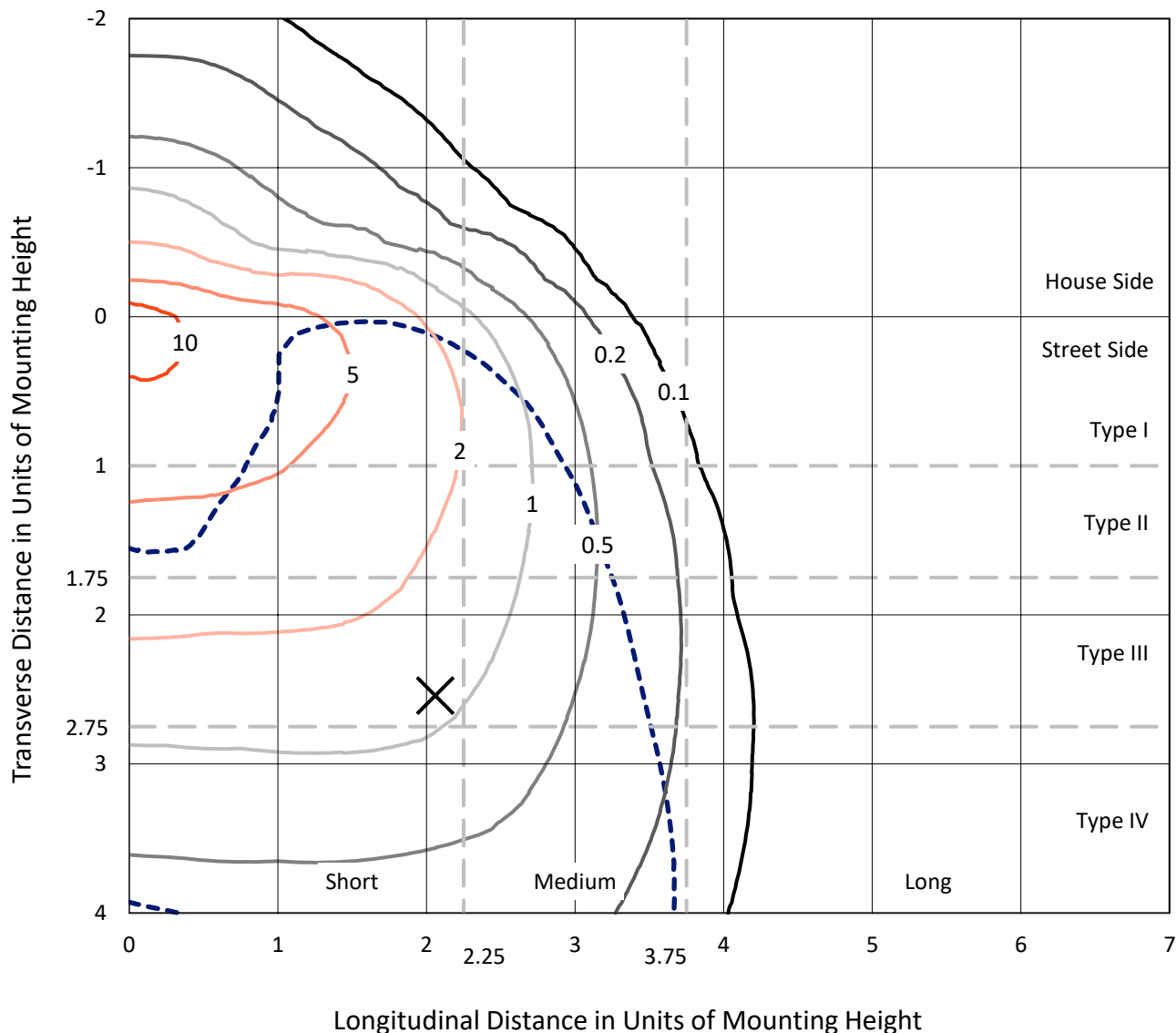
Lumens per Lamp: N/A  
Luminaire Lumens: 7095.9 lumens  
Efficiency: N/A  
Efficacy: 111.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G2

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: P481037  
 CATALOG NUMBER: IFLD-S-SA2A-830-U-SL4

### Iso-Footcandle Lines of Horizontal Illumination

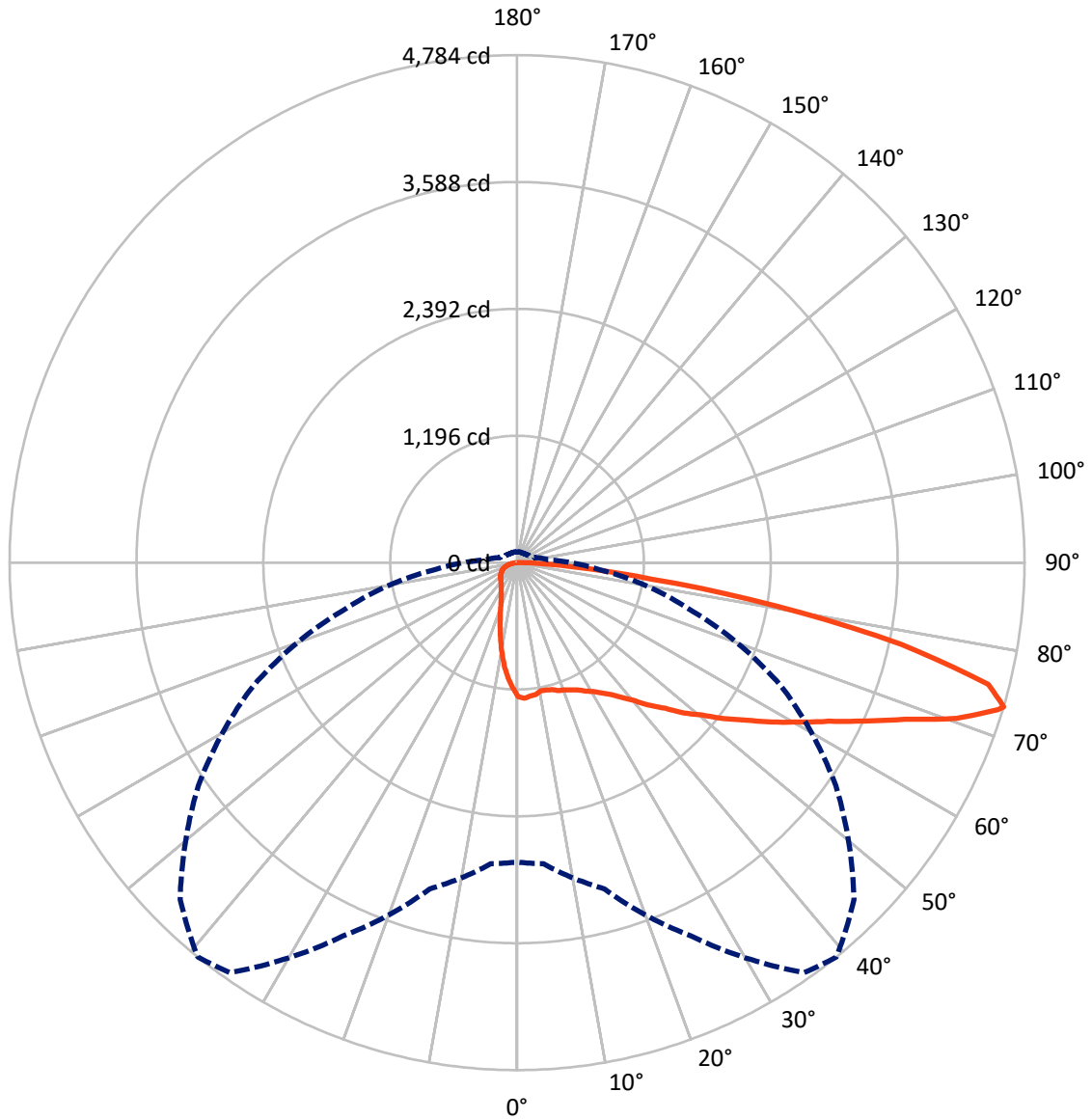
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 12.6 fc  
 Type IV - Short - N/A

REPORT NUMBER: P481037  
CATALOG NUMBER: IFLD-S-SA2A-830-U-SL4

### Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral      - - - Horizontal Cone Through 73-Deg Vertical

REPORT NUMBER: P481037  
 CATALOG NUMBER: IFLD-S-SA2A-830-U-SL4

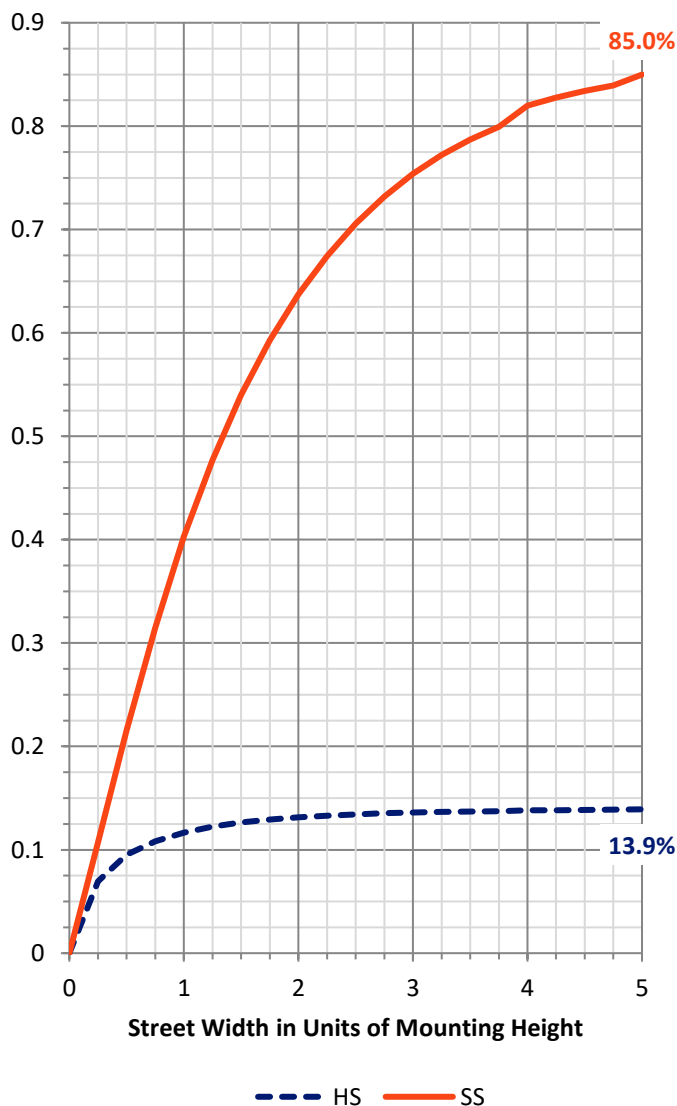
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	997.5	0.0	997.5
	% Fixture	14.1	0.0	14.1
<b>Street Side</b>	Lumens	6098.4	0.0	6098.4
	% Fixture	85.9	0.0	85.9
<b>Total</b>	Lumens	7095.9	0.0	7095.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	109.6	1.5
10°-20°	278.7	3.9
20°-30°	425.9	6.0
30°-40°	621.0	8.8
40°-50°	938.5	13.2
50°-60°	1358.9	19.2
60°-70°	1726.6	24.3
70°-80°	1399.7	19.7
80°-90°	236.8	3.3
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°	7095.9	100.0
0°-180°	7095.9	100.0

**Coefficient of Utilization**

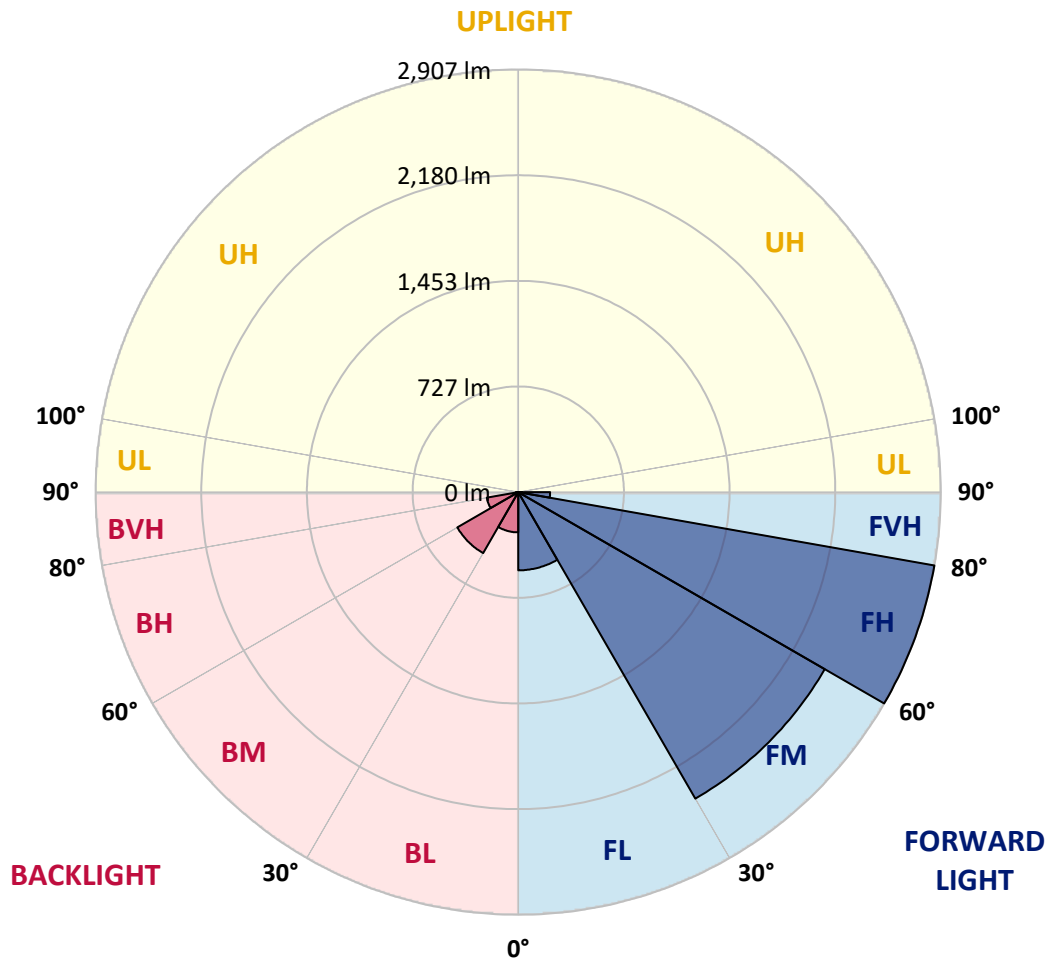


REPORT NUMBER: P481037  
 CATALOG NUMBER: IFLD-S-SA2A-830-U-SL4

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	537.7	7.6			
FM (30°-60°)	2434.3	34.3			
FH (60°-80°)	2906.9	41.0			G2/5000
FVH (80°-90°)	219.4	3.1			G2/225
BL (0°-30°)	276.6	3.9	B1/500		
BM (30°-60°)	484.1	6.8	B1/1000		
BH (60°-80°)	219.4	3.1	B1/500		G1/500
BVH (80°-90°)	17.4	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G2**  
 Type IV Short





REPORT NUMBER: P481037  
 CATALOG NUMBER: IFLD-S-SA2A-830-U-SL4

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	1263.1	1263.1	1263.1	1263.1	1263.1	1263.1	1263.1	1263.1	1263.1	1263.1	1263.1
2.5°	1293.3	1279.8	1282.2	1277.4	1282.2	1280.6	1278.2	1266.3	1278.2	1266.3	1263.1
5°	1275.8	1275.8	1283.8	1271.8	1273.4	1265.5	1273.4	1264.7	1256.8	1236.9	1231.4
7.5°	1270.3	1269.5	1270.3	1253.6	1261.5	1256.8	1248.8	1239.3	1223.4	1210.7	1192.5
10°	1232.1	1240.1	1231.4	1236.1	1242.5	1228.2	1227.4	1225.0	1217.9	1201.2	1190.1
12.5°	1211.5	1225.0	1229.8	1225.8	1231.4	1232.9	1228.2	1225.0	1216.3	1205.2	1173.4
15°	1220.2	1204.4	1217.9	1244.1	1238.5	1242.5	1243.3	1240.1	1236.1	1215.5	1194.8
17.5°	1222.6	1213.1	1241.7	1247.2	1254.4	1268.7	1259.1	1258.3	1243.3	1229.0	1198.8
20°	1228.2	1224.2	1247.2	1276.6	1277.4	1279.8	1284.5	1272.6	1264.7	1240.1	1194.0
22.5°	1248.8	1262.3	1283.8	1296.5	1303.6	1305.2	1305.2	1281.4	1272.6	1252.8	1216.3
25°	1310.7	1296.5	1326.6	1341.7	1331.4	1329.0	1323.4	1302.0	1292.5	1275.0	1226.6
27.5°	1356.0	1355.2	1372.7	1393.3	1365.5	1371.1	1351.2	1344.9	1323.4	1313.9	1244.9
30°	1417.9	1435.4	1434.6	1440.9	1404.4	1410.8	1385.4	1373.5	1361.6	1367.1	1298.8
32.5°	1497.3	1491.0	1501.3	1496.5	1460.0	1465.6	1435.4	1417.1	1421.1	1437.8	1372.7
35°	1548.1	1541.8	1545.7	1545.7	1534.6	1528.3	1515.6	1491.8	1510.8	1541.8	1455.2
37.5°	1602.9	1610.8	1633.9	1629.1	1614.8	1614.8	1613.2	1596.6	1621.2	1697.4	1587.0
40°	1651.3	1672.8	1687.1	1696.6	1713.3	1713.3	1726.8	1717.2	1761.7	1883.9	1748.2
42.5°	1702.1	1702.9	1780.7	1787.9	1825.2	1841.1	1851.4	1859.3	1942.7	2079.3	1920.5
45°	1767.2	1771.2	1839.5	1894.3	1952.2	1957.8	1996.7	2022.9	2125.3	2292.8	2107.8
47.5°	1853.0	1848.2	1921.3	2008.6	2080.8	2118.9	2165.8	2194.4	2320.6	2524.6	2312.7
50°	1965.7	1951.4	1993.5	2130.9	2215.8	2257.9	2341.2	2388.9	2536.5	2746.1	2453.2
52.5°	2103.1	2079.3	2112.6	2262.6	2357.9	2442.9	2522.3	2575.4	2729.5	2917.6	2557.2
55°	2248.4	2199.1	2208.7	2402.4	2539.7	2619.9	2728.7	2784.2	2941.4	3071.6	2661.2
57.5°	2392.1	2361.1	2342.0	2536.5	2756.5	2833.5	2933.5	3005.7	3139.1	3208.2	2749.3
60°	2512.7	2504.8	2473.8	2744.5	2985.9	3051.8	3156.6	3201.0	3301.9	3334.4	2750.9
62.5°	2612.0	2585.0	2634.2	2912.1	3219.3	3293.9	3409.1	3413.0	3484.5	3413.0	2669.9
65°	2689.8	2691.4	2770.0	3114.5	3489.2	3599.6	3692.5	3682.2	3636.1	3366.2	2478.6
67.5°	2760.4	2790.6	2905.7	3336.8	3836.2	3940.2	4043.4	3906.8	3677.4	3147.1	2104.7
70°	2816.0	2846.2	3089.1	3607.5	4245.0	4397.5	4420.5	3995.8	3487.6	2666.0	1587.8
72.5°	2809.6	2864.4	3193.1	3823.5	4607.9	4739.6	4553.9	3745.7	2905.7	1858.5	926.5
73°	2823.1	2850.1	3184.4	3883.8	4718.2	4784.1	4491.9	3667.1	2740.6	1667.2	783.6
75°	2562.7	2654.0	3026.4	3785.4	4599.9	4588.0	4136.3	3055.8	1948.3	875.7	379.5
77.5°	1895.9	1953.8	2384.9	3112.9	3775.8	3699.6	3120.1	1953.0	924.9	324.7	204.8
80°	926.5	971.7	1263.9	1797.4	2469.1	2475.4	1936.3	1016.2	396.2	183.4	139.7
82.5°	462.8	489.8	607.3	789.9	1214.7	1272.6	982.1	578.0	245.3	104.0	79.4
85°	302.5	321.5	373.9	386.6	515.2	543.8	457.3	450.9	159.6	56.4	64.3
87.5°	200.9	204.0	229.4	195.3	206.4	198.5	220.7	284.2	46.8	23.8	17.5
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: P481037  
 CATALOG NUMBER: IFLD-S-SA2A-830-U-SL4

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1263.1	1263.1	1263.1	1263.1	1263.1	1263.1	1263.1	1263.1	1263.1	1263.1	1263.1
2.5°	1259.1	1248.0	1236.1	1219.4	1207.5	1189.3	1172.6	1165.5	1163.9	1164.7	1156.7
5°	1226.6	1210.7	1186.9	1152.8	1132.9	1102.7	1077.3	1063.8	1049.5	1051.9	1045.6
7.5°	1181.3	1163.9	1127.4	1087.7	1038.4	995.6	971.7	938.4	919.3	905.1	913.0
10°	1167.0	1136.9	1082.1	1027.3	951.1	894.7	840.0	801.8	775.7	750.2	761.4
12.5°	1159.9	1129.7	1053.5	972.5	874.1	788.4	711.3	664.5	627.2	605.0	613.7
15°	1153.6	1116.2	1026.5	912.2	801.8	689.1	602.6	540.7	504.9	483.5	485.9
17.5°	1162.3	1109.1	986.8	853.5	722.5	601.8	505.7	441.4	404.9	391.4	388.2
20°	1153.6	1101.2	947.9	794.7	643.1	518.4	426.3	373.1	347.7	336.6	334.2
22.5°	1156.7	1082.1	907.4	729.6	569.2	448.6	373.1	332.6	312.8	307.2	308.8
25°	1171.8	1071.0	867.0	658.2	496.2	397.0	339.0	308.0	293.7	288.2	289.8
27.5°	1182.9	1080.5	830.4	590.7	434.3	350.9	310.4	289.8	280.3	276.3	275.5
30°	1210.7	1086.1	794.7	530.3	383.5	320.7	290.6	273.9	267.5	265.2	264.4
32.5°	1252.0	1096.4	753.4	474.8	346.1	292.2	274.7	260.4	258.8	256.4	257.2
35°	1319.5	1132.1	707.4	427.1	310.4	273.1	258.0	248.5	248.5	248.5	250.9
37.5°	1416.3	1182.1	666.1	381.9	287.4	256.4	243.7	240.6	239.0	241.3	242.9
40°	1541.0	1242.5	632.7	346.1	267.5	245.3	234.2	232.6	231.8	231.0	232.6
42.5°	1677.5	1319.5	604.2	318.4	253.3	233.4	225.5	223.9	220.7	222.3	224.7
45°	1813.3	1414.7	578.8	296.1	243.7	227.1	215.9	215.1	213.6	212.8	216.7
47.5°	1964.1	1508.4	570.8	282.6	236.6	217.5	209.6	208.8	204.0	203.2	206.4
50°	2081.6	1577.5	579.6	276.3	226.3	210.4	204.8	200.9	196.9	192.9	192.9
52.5°	2162.6	1625.1	585.9	271.5	220.7	200.9	193.7	192.1	188.2	184.2	182.6
55°	2235.7	1653.7	587.5	272.3	215.1	189.7	185.0	184.2	181.8	175.5	173.9
57.5°	2260.3	1641.8	555.7	265.2	212.0	182.6	176.2	177.8	174.7	169.1	168.3
60°	2257.9	1559.2	483.5	255.6	204.8	174.7	166.7	171.5	171.5	165.1	164.3
62.5°	2120.5	1368.7	395.4	237.4	196.9	166.7	158.0	165.1	167.5	163.5	162.8
65°	1835.5	1114.7	330.3	219.1	185.0	158.0	149.3	157.2	161.2	159.6	158.8
67.5°	1518.8	852.7	274.7	195.3	169.9	146.1	138.9	144.5	146.9	147.7	148.5
70°	1073.4	567.6	229.4	169.1	149.3	133.4	125.4	126.2	125.4	127.8	127.8
72.5°	583.5	327.1	186.6	143.7	128.6	115.9	110.4	106.4	106.4	105.6	105.6
73°	499.4	293.7	177.8	139.7	123.1	112.7	106.4	103.2	103.2	102.4	101.6
75°	280.3	215.1	152.4	119.9	106.4	98.4	93.7	88.9	88.1	88.1	88.1
77.5°	184.2	167.5	121.5	96.1	85.7	78.6	77.0	72.2	72.2	72.2	71.5
80°	138.1	131.8	93.7	73.0	65.9	60.3	58.7	55.6	54.8	51.6	52.4
82.5°	92.1	104.0	68.3	51.6	44.5	41.3	41.3	40.5	38.1	34.1	34.1
85°	73.0	84.9	49.2	31.8	26.2	22.2	23.0	22.2	21.4	17.5	16.7
87.5°	13.5	34.1	14.3	8.7	6.4	4.0	4.0	2.4	1.6	0.0	0.0
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)