

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: P478274

Luminaire Tested: **IFLD-S-SA3B-827-U-T4FT**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P478274  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA3B-827-U-T4FT  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4FT distribution lens  
Light Source: (48) 2700K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

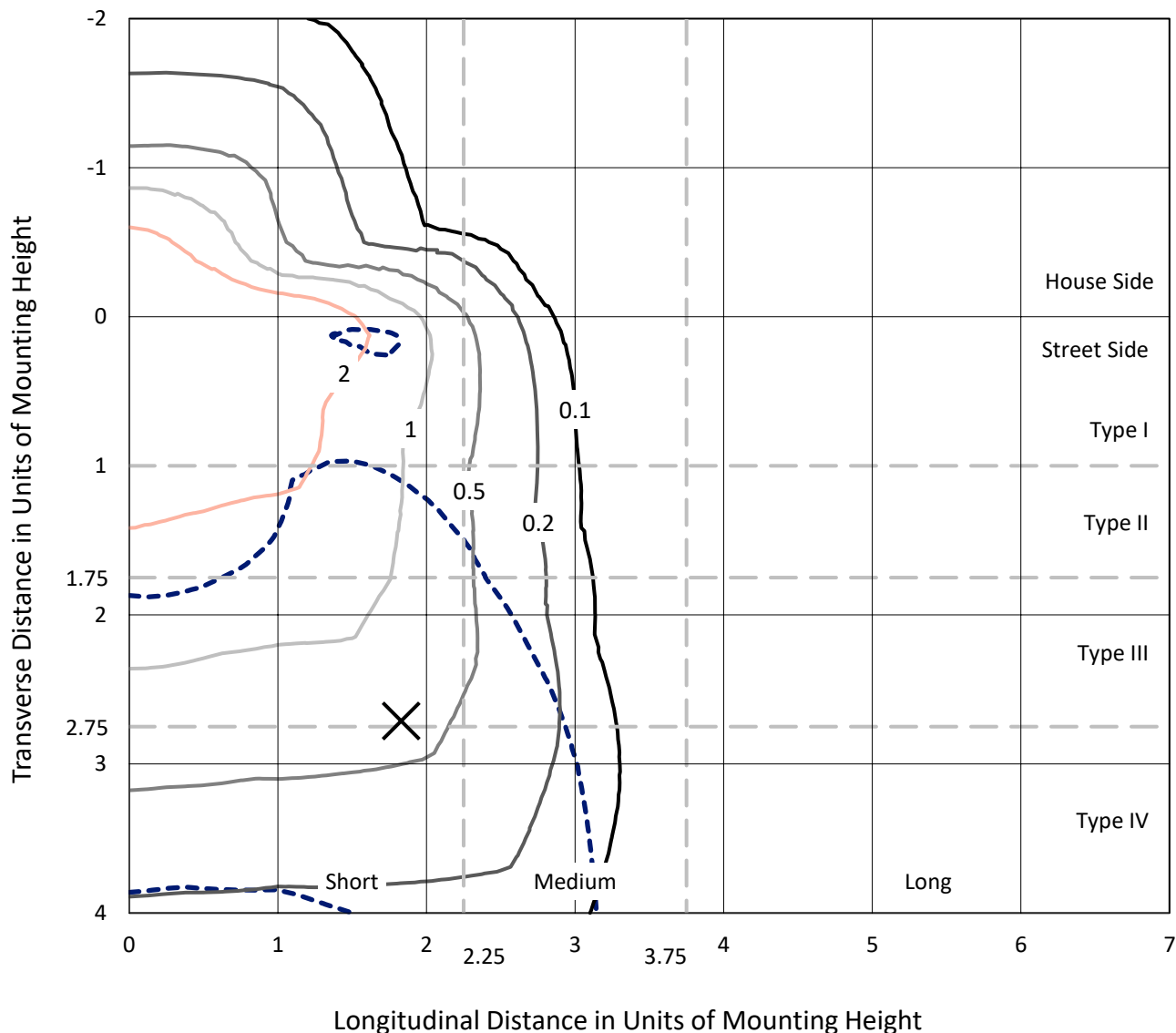
Lumens per Lamp: N/A  
Luminaire Lumens: 12814.7 lumens  
Efficiency: N/A  
Efficacy: 104.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G3

Input Watts (W): 122.4  
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: P478274  
 CATALOG NUMBER: IFLD-S-SA3B-827-U-T4FT

### Iso-Footcandle Lines of Horizontal Illumination

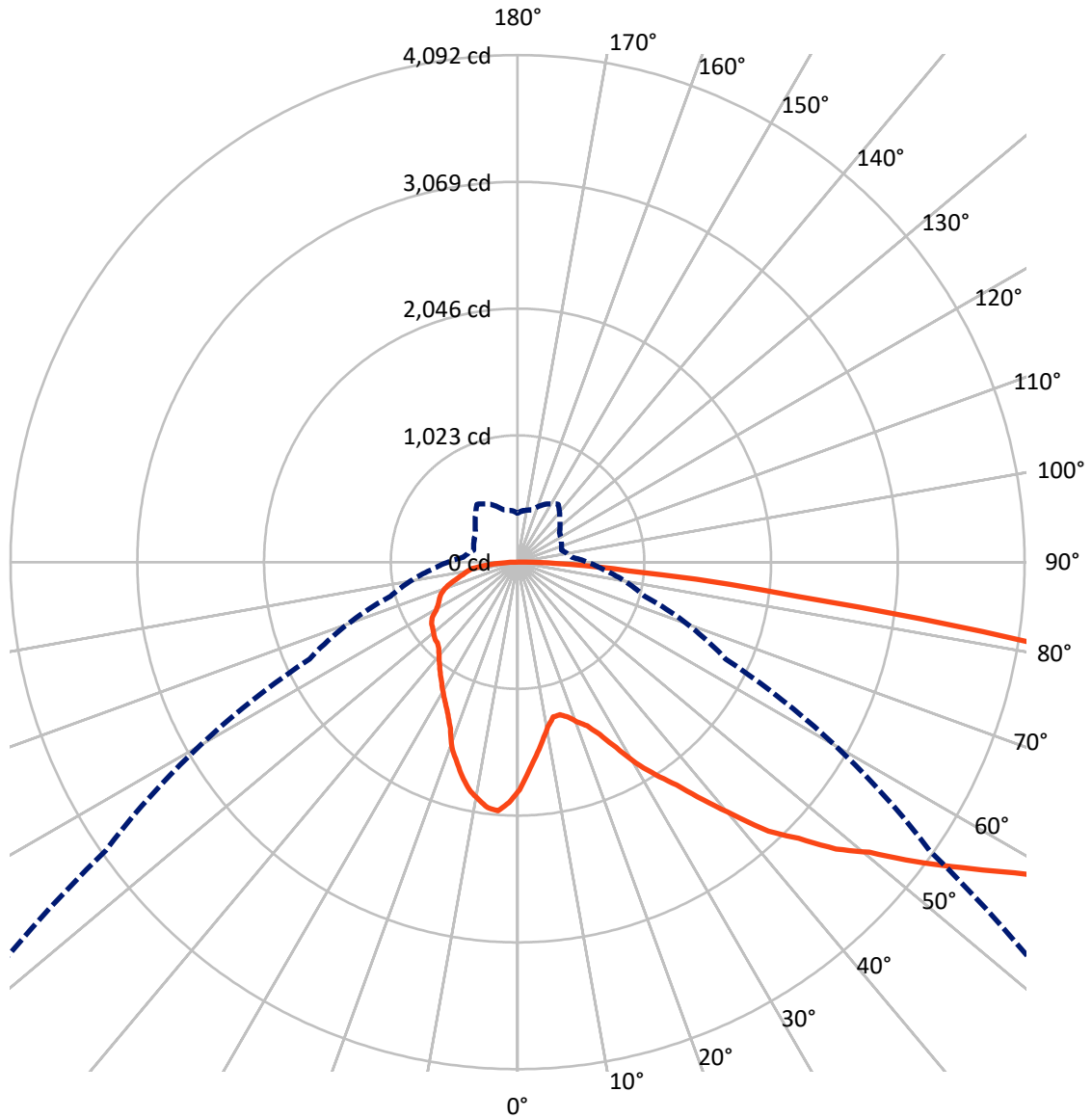
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4.8 fc  
 Type IV - Short - N/A

REPORT NUMBER: P478274  
CATALOG NUMBER: IFLD-S-SA3B-827-U-T4FT

### Luminous Intensity Polar Plot



— Vertical Plane Through 34-Deg Lateral      - - - Horizontal Cone Through 73-Deg Vertical

REPORT NUMBER: P478274

CATALOG NUMBER: IFLD-S-SA3B-827-U-T4FT

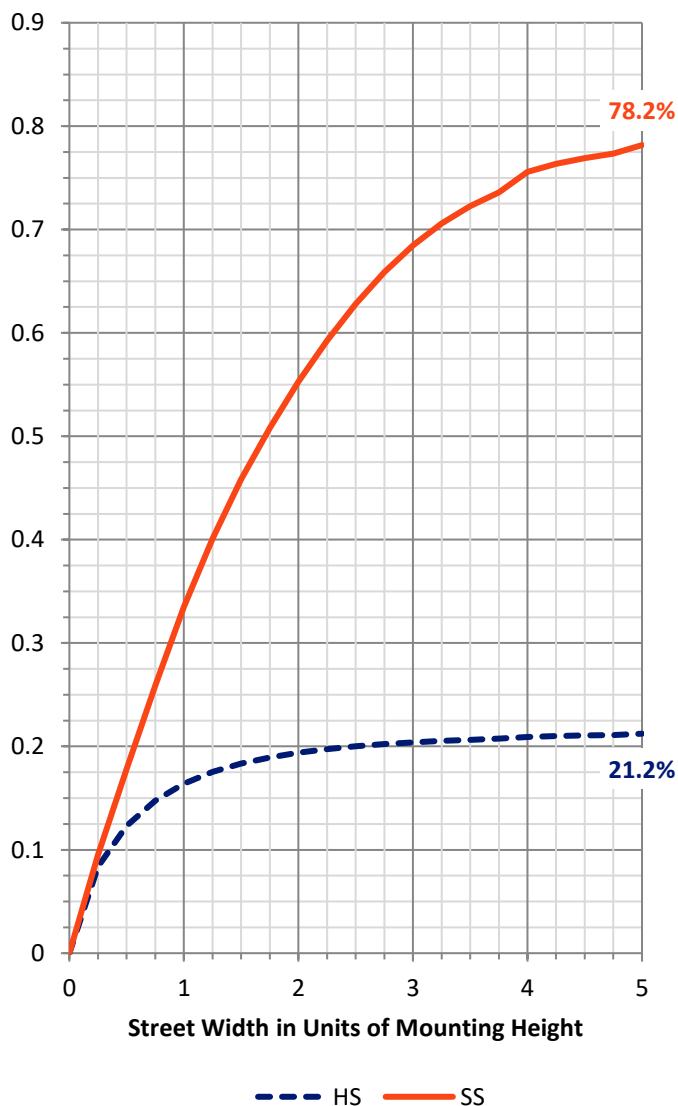
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2768.1	0.0	2768.1
	% Fixture	21.6	0.0	21.6
<b>Street Side</b>	Lumens	10046.6	0.0	10046.6
	% Fixture	78.4	0.0	78.4
<b>Total</b>	Lumens	12814.7	0.0	12814.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	169.6	1.3
10°-20°	474.5	3.7
20°-30°	781.0	6.1
30°-40°	1168.0	9.1
40°-50°	1731.5	13.5
50°-60°	2495.3	19.5
60°-70°	3184.4	24.8
70°-80°	2478.0	19.3
80°-90°	332.4	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°	12814.7	100.0
0°-180°	12814.7	100.0

**Coefficient of Utilization**



REPORT NUMBER: P478274

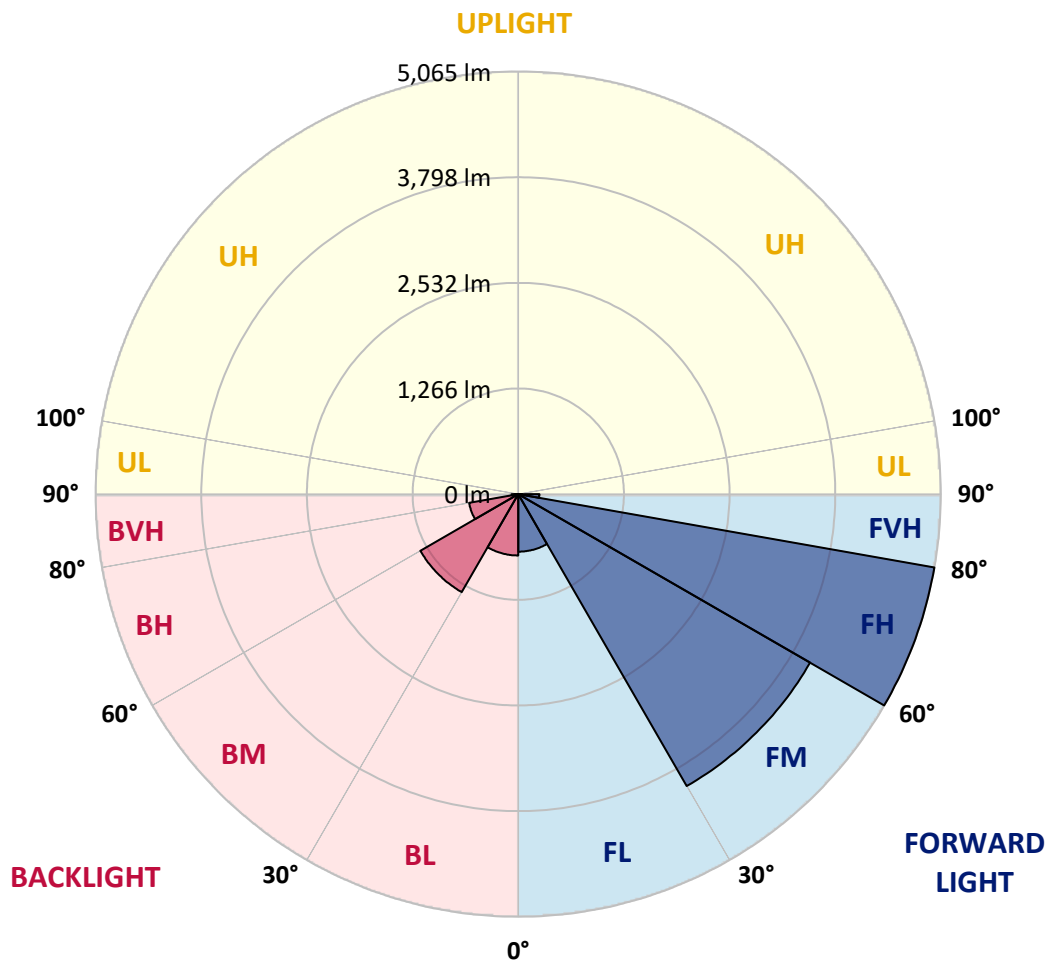
CATALOG NUMBER: IFLD-S-SA3B-827-U-T4FT

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	689.6	5.4			
FM (30°-60°)	4039.3	31.5			
FH (60°-80°)	5064.6	39.5			G3/7500
FVH (80°-90°)	253.0	2.0			G3/500
BL (0°-30°)	735.5	5.7	B2/1000		
BM (30°-60°)	1355.6	10.6	B2/2500		
BH (60°-80°)	597.7	4.7	B2/1000		G2/1000
BVH (80°-90°)	79.4	0.6			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G3**

Type IV Short





REPORT NUMBER: P478274  
 CATALOG NUMBER: IFLD-S-SA3B-827-U-T4FT

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	1837.2	1837.2	1837.2	1837.2	1837.2	1837.2	1837.2	1837.2	1837.2	1837.2	1837.2
2.5°	1646.2	1651.6	1669.2	1673.3	1692.2	1681.4	1704.4	1745.1	1768.1	1802.0	1842.6
5°	1516.1	1493.1	1503.9	1545.9	1567.6	1573.0	1597.4	1666.5	1709.8	1760.0	1835.8
7.5°	1363.0	1358.9	1380.6	1407.7	1451.1	1455.1	1509.3	1570.3	1659.7	1770.8	1860.2
10°	1258.7	1276.3	1288.5	1316.9	1346.7	1346.7	1415.8	1521.5	1623.1	1730.2	1865.6
12.5°	1253.2	1242.4	1245.1	1260.0	1281.7	1308.8	1373.8	1468.7	1597.4	1722.0	1888.7
15°	1270.9	1274.9	1250.5	1269.5	1277.6	1287.1	1358.9	1466.0	1581.1	1750.5	1928.0
17.5°	1364.3	1341.3	1303.4	1285.8	1314.2	1314.2	1363.0	1447.0	1583.8	1765.4	1984.9
20°	1437.5	1437.5	1375.2	1356.2	1376.5	1372.5	1406.3	1468.7	1597.4	1795.2	2048.5
22.5°	1560.8	1578.4	1475.4	1436.2	1434.8	1445.6	1475.4	1528.3	1635.3	1837.2	2109.5
25°	1738.3	1742.3	1623.1	1582.5	1539.1	1556.7	1562.2	1615.0	1669.2	1886.0	2178.6
27.5°	1936.1	1933.4	1823.6	1722.0	1693.6	1697.6	1667.8	1703.1	1719.3	1900.9	2277.5
30°	2155.6	2131.2	2048.5	1904.9	1881.9	1856.2	1791.1	1789.8	1823.6	1984.9	2414.4
32.5°	2299.2	2268.0	2211.1	2108.2	2044.5	2047.2	1944.2	1942.9	1913.1	2077.0	2533.6
35°	2440.1	2392.7	2377.8	2272.1	2208.4	2215.2	2132.5	2121.7	2067.5	2216.6	2730.0
37.5°	2609.5	2567.5	2590.5	2510.6	2432.0	2399.5	2361.5	2348.0	2277.5	2413.0	2998.3
40°	2796.4	2782.9	2768.0	2728.7	2681.3	2684.0	2643.3	2629.8	2525.5	2650.1	3255.7
42.5°	3048.4	2996.9	2919.7	2945.5	2969.9	2995.6	2982.0	2946.8	2838.4	2891.3	3543.0
45°	3282.8	3215.1	3072.8	3081.0	3181.2	3201.5	3365.5	3361.4	3143.3	3197.5	3869.5
47.5°	3441.3	3410.2	3324.8	3315.3	3459.0	3457.6	3753.0	3753.0	3464.4	3502.3	4220.4
50°	3677.1	3595.8	3559.2	3606.6	3679.8	3729.9	4148.6	4174.3	3780.1	3820.7	4679.7
52.5°	3953.5	3851.9	3759.7	3881.7	4011.7	4044.3	4540.1	4529.3	4022.6	4190.6	5217.6
55°	4182.5	4131.0	4067.3	4137.7	4350.5	4391.1	4933.0	4832.8	4265.1	4496.8	5476.3
57.5°	4449.4	4480.5	4494.1	4476.5	4729.8	4793.5	5381.5	5094.3	4473.7	4702.7	5628.1
60°	4851.8	4870.7	4888.3	4930.3	5198.6	5288.0	5736.5	5422.1	4605.2	4821.9	5640.3
62.5°	5464.1	5391.0	5430.3	5575.2	5790.7	5892.3	6259.5	5652.5	4705.4	4893.8	5242.0
65°	6164.6	6065.7	6025.1	6212.0	6770.2	6688.9	6912.5	5824.5	4560.5	4625.5	4445.3
67.5°	6874.6	6885.4	6781.1	7156.4	7840.6	7840.6	7519.5	5907.2	4167.5	3748.9	3117.5
70°	7438.2	7472.1	7529.0	8256.5	9340.4	9504.3	8271.4	5568.5	3366.8	2495.7	1704.4
72.5°	7430.1	7328.4	7619.7	8959.7	10703.4	10566.6	8428.6	4403.3	2101.4	1222.1	781.8
73°	7263.4	7178.0	7496.4	8952.9	10758.9	10630.2	8313.4	4059.2	1853.4	1059.5	695.0
75°	5931.6	5777.1	6319.1	8108.8	9954.2	10053.1	7062.9	2647.4	1016.1	653.0	489.1
77.5°	2704.3	2772.0	3477.9	5439.8	7671.2	7787.7	4643.1	1144.9	556.8	457.9	360.4
80°	868.5	911.8	1353.5	2704.3	4808.4	5018.4	2146.1	520.3	397.0	350.9	269.6
82.5°	331.9	330.6	567.7	1124.5	2278.9	2413.0	784.5	317.0	295.4	258.8	191.0
85°	116.5	121.9	214.1	444.4	896.9	938.9	272.3	176.1	204.6	173.4	109.7
87.5°	40.6	42.0	75.9	161.2	308.9	326.5	75.9	70.5	101.6	100.3	55.5
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: P478274  
 CATALOG NUMBER: IFLD-S-SA3B-827-U-T4FT

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1837.2	1837.2	1837.2	1837.2	1837.2	1837.2	1837.2	1837.2	1837.2	1837.2	1837.2
2.5°	1856.2	1868.4	1872.4	1921.2	1921.2	1921.2	1940.2	1940.2	1934.7	1921.2	1953.7
5°	1864.3	1886.0	1928.0	1970.0	1980.8	1990.3	2016.0	1994.4	2002.5	1988.9	2001.1
7.5°	1887.3	1917.1	1995.7	2021.5	2003.8	2024.2	1997.1	1982.2	1967.3	1972.7	1953.7
10°	1926.6	1964.5	2001.1	2048.5	2014.7	1994.4	1938.8	1925.3	1877.8	1861.6	1876.5
12.5°	1975.4	2021.5	2083.8	2066.2	2001.1	1942.9	1883.3	1826.4	1797.9	1757.3	1768.1
15°	2024.2	2077.0	2086.5	2056.7	1975.4	1902.2	1793.8	1713.9	1685.4	1648.9	1667.8
17.5°	2077.0	2127.1	2110.9	2033.6	1923.9	1812.8	1689.5	1610.9	1551.3	1528.3	1528.3
20°	2155.6	2180.0	2154.2	1995.7	1861.6	1715.3	1596.0	1506.6	1447.0	1437.5	1422.6
22.5°	2216.6	2255.8	2140.7	1940.2	1770.8	1587.9	1451.1	1417.2	1399.6	1384.7	1365.7
25°	2295.1	2293.8	2116.3	1888.7	1615.0	1436.2	1353.5	1350.8	1342.7	1337.2	1363.0
27.5°	2369.6	2338.5	2087.8	1761.3	1453.8	1321.0	1276.3	1306.1	1318.3	1310.1	1321.0
30°	2487.5	2436.0	2047.2	1625.8	1311.5	1204.5	1212.6	1253.2	1273.6	1285.8	1269.5
32.5°	2612.2	2533.6	1963.2	1484.9	1185.5	1131.3	1150.3	1192.3	1216.7	1230.2	1245.1
35°	2792.4	2609.5	1877.8	1300.7	1094.7	1086.6	1097.4	1120.5	1155.7	1165.2	1169.2
37.5°	3014.6	2724.6	1762.7	1153.0	1024.3	1033.8	1044.6	1052.7	1054.1	1071.7	1064.9
40°	3236.8	2822.2	1594.7	1012.1	951.1	1002.6	997.2	982.3	970.1	953.8	949.8
42.5°	3431.9	2907.5	1407.7	892.9	886.1	970.1	952.5	914.5	886.1	873.9	853.6
45°	3651.3	3028.1	1219.4	818.3	835.9	930.8	925.4	867.1	830.5	787.2	781.8
47.5°	3935.9	3154.1	1039.2	741.1	788.5	915.9	918.6	844.1	791.2	733.0	724.8
50°	4300.3	3335.7	902.3	708.6	760.1	894.2	898.3	812.9	743.8	684.2	678.8
52.5°	4649.9	3521.3	788.5	658.5	741.1	868.5	877.9	784.5	704.5	630.0	634.1
55°	4826.0	3453.5	691.0	621.9	697.8	826.5	861.7	764.1	644.9	593.4	592.1
57.5°	4865.3	3286.9	613.8	583.9	661.2	781.8	834.6	703.2	617.8	574.5	569.0
60°	4736.6	2995.6	552.8	543.3	615.1	735.7	772.3	670.7	590.7	555.5	547.4
62.5°	4419.6	2693.5	510.8	524.3	575.8	685.6	733.0	647.6	565.0	540.6	523.0
65°	3624.2	2215.2	476.9	487.7	535.2	636.8	708.6	621.9	541.9	518.9	517.6
67.5°	2510.6	1526.9	449.8	470.1	502.7	601.6	684.2	593.4	512.1	504.0	493.2
70°	1285.8	814.3	414.6	430.8	467.4	556.8	640.8	563.6	481.0	479.6	466.1
72.5°	651.7	476.9	373.9	398.3	424.1	498.6	586.7	524.3	441.7	426.8	405.1
73°	563.6	441.7	367.2	388.8	413.2	482.3	570.4	514.8	436.3	414.6	394.3
75°	410.5	348.2	329.2	350.9	369.9	434.9	516.2	471.5	401.0	378.0	359.0
77.5°	307.6	268.3	273.7	298.1	314.3	375.3	459.3	426.8	363.1	331.9	323.8
80°	226.3	204.6	226.3	249.3	261.5	330.6	418.7	369.9	306.2	271.0	264.2
82.5°	161.2	149.0	174.8	189.7	195.1	273.7	376.7	295.4	231.7	185.6	170.7
85°	92.1	90.8	117.9	116.5	120.6	159.9	247.9	196.5	149.0	113.8	111.1
87.5°	40.6	44.7	59.6	47.4	50.1	75.9	105.7	73.2	61.0	33.9	25.7
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)