

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: P478701

Luminaire Tested: **IFLD-S-SA2E-830-U-T4W**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P478701  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA2E-830-U-T4W  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4W distribution lens  
Light Source: (32) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

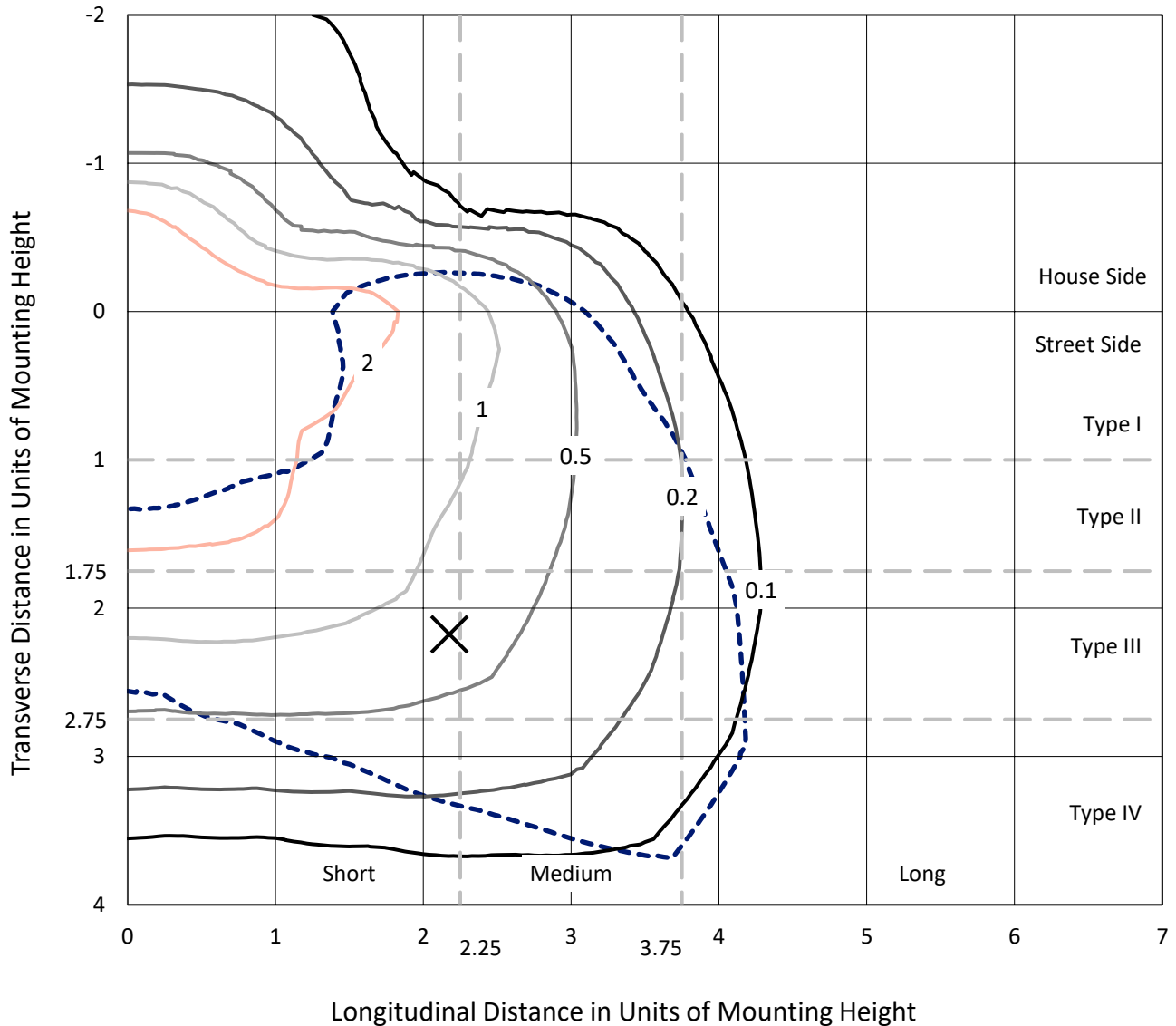
Lumens per Lamp: N/A  
Luminaire Lumens: 14536.8 lumens  
Efficiency: N/A  
Efficacy: 93.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G3

Input Watts (W): 156.2  
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

REPORT NUMBER: P478701  
 CATALOG NUMBER: IFLD-S-SA2E-830-U-T4W

### Iso-Footcandle Lines of Horizontal Illumination

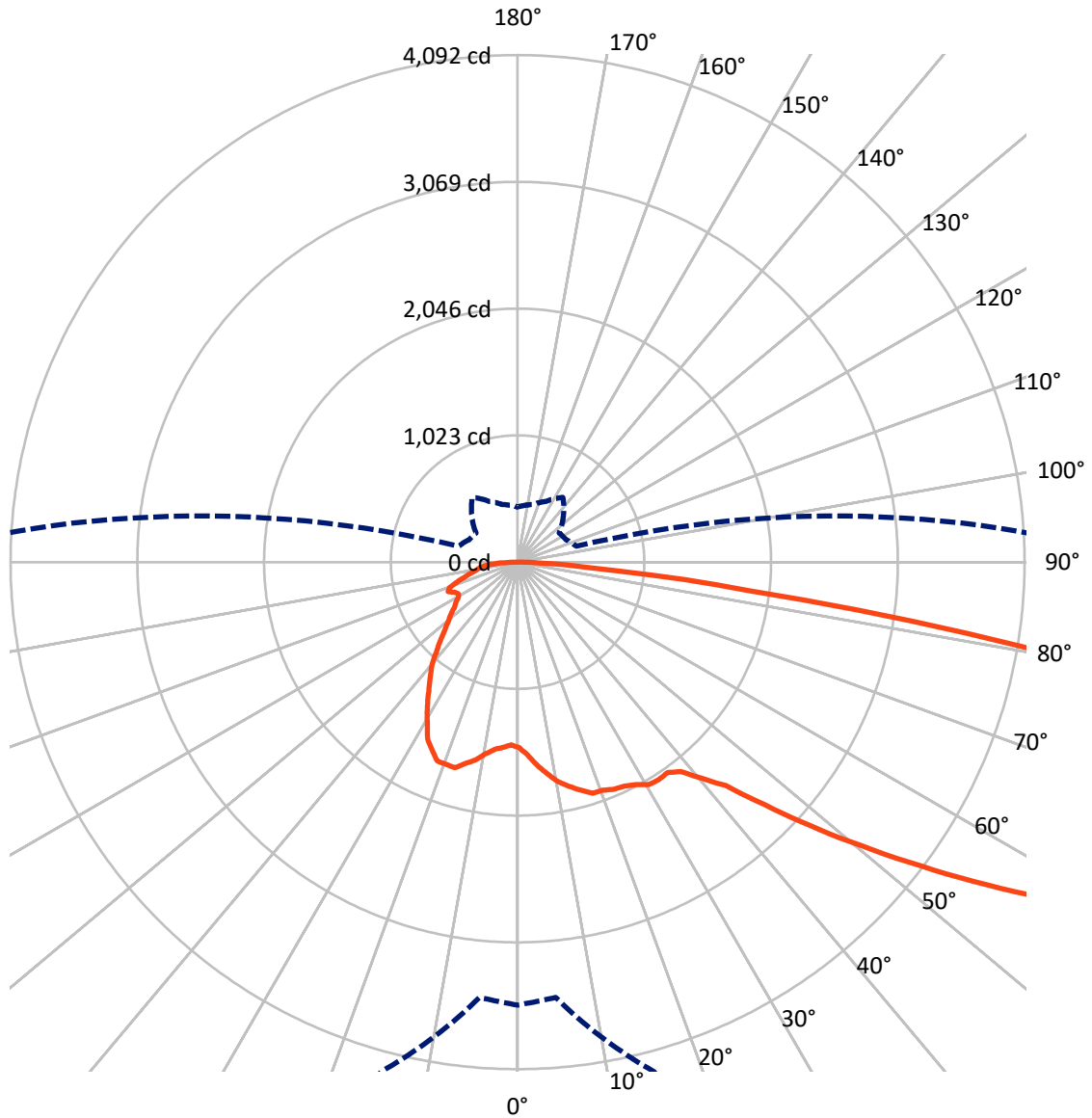
× Max cd  
 - - - 1/2 Max cd



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

REPORT NUMBER: P478701  
CATALOG NUMBER: IFLD-S-SA2E-830-U-T4W

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P478701

CATALOG NUMBER: IFLD-S-SA2E-830-U-T4W

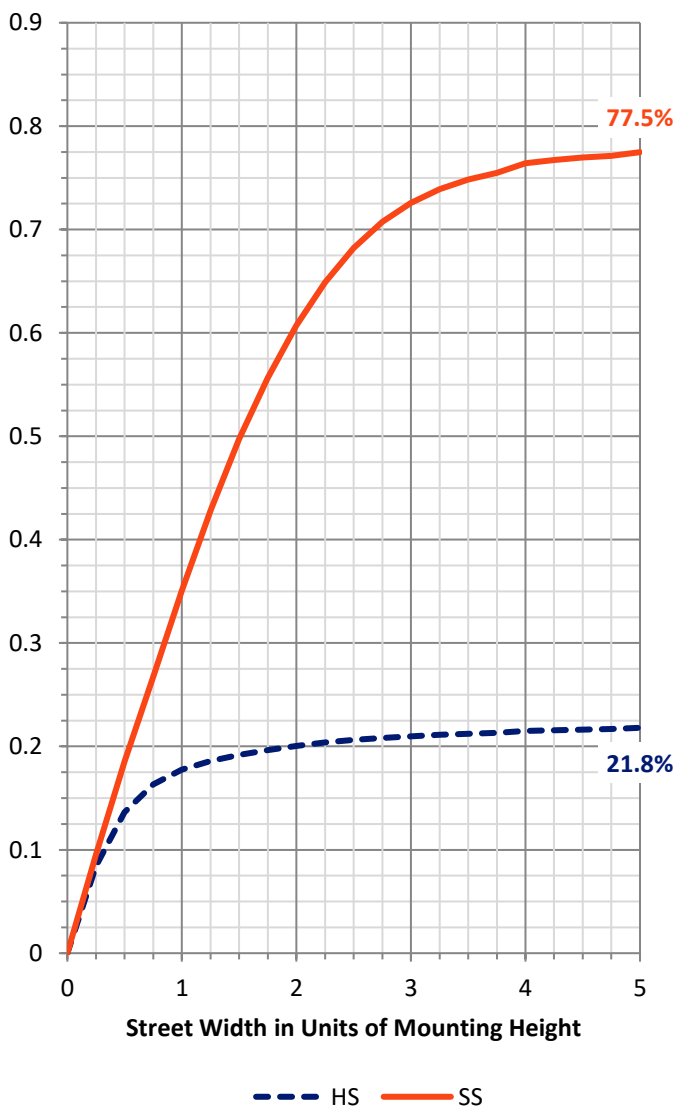
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3236.0	0.0	3236.0
	% Fixture	22.3	0.0	22.3
<b>Street Side</b>	Lumens	11300.8	0.0	11300.8
	% Fixture	77.7	0.0	77.7
<b>Total</b>	Lumens	14536.8	0.0	14536.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	153.2	1.1
10°-20°	509.7	3.5
20°-30°	860.7	5.9
30°-40°	1191.0	8.2
40°-50°	1703.7	11.7
50°-60°	2747.8	18.9
60°-70°	4052.7	27.9
70°-80°	2942.9	20.2
80°-90°	375.1	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°	14536.8	100.0
0°-180°	14536.8	100.0

**Coefficient of Utilization**



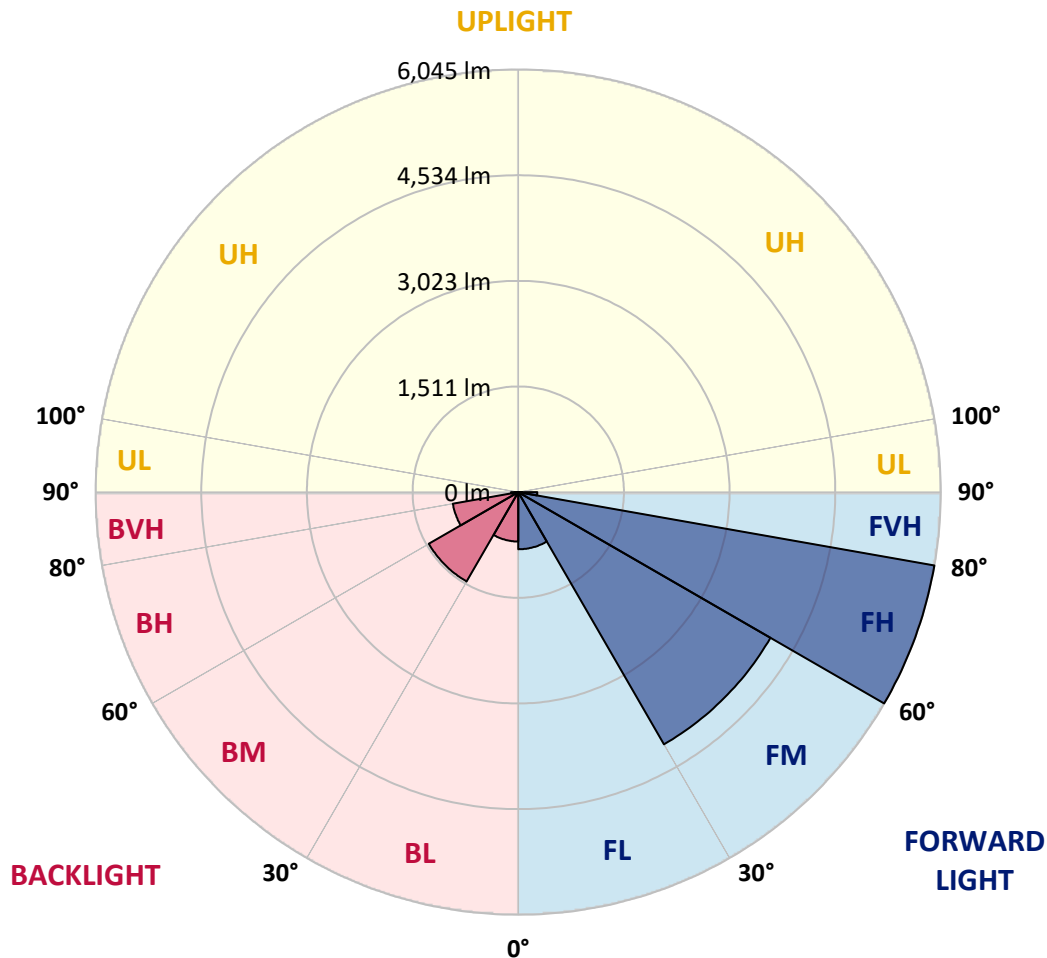
REPORT NUMBER: P478701  
 CATALOG NUMBER: IFLD-S-SA2E-830-U-T4W

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	817.0	5.6			
FM (30°-60°)	4165.7	28.7			
FH (60°-80°)	6045.0	41.6			G3/7500
FVH (80°-90°)	273.1	1.9			G3/500
BL (0°-30°)	706.6	4.9	B2/1000		
BM (30°-60°)	1476.8	10.2	B2/2500		
BH (60°-80°)	950.5	6.5	B2/1000		G2/1000
BVH (80°-90°)	102.1	0.7			G2/225
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: P478701  
 CATALOG NUMBER: IFLD-S-SA2E-830-U-T4W

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	1497.0	1497.0	1497.0	1497.0	1497.0	1497.0	1497.0	1497.0	1497.0	1497.0	1497.0
2.5°	1577.0	1586.4	1577.0	1575.4	1559.7	1548.8	1558.2	1544.1	1528.4	1522.1	1508.0
5°	1721.2	1722.8	1705.5	1707.1	1674.2	1639.7	1645.9	1603.6	1558.2	1540.9	1512.7
7.5°	1868.5	1851.3	1826.2	1818.4	1766.6	1729.0	1724.3	1686.7	1616.2	1577.0	1537.8
10°	1964.2	1970.4	1929.7	1895.2	1851.3	1805.8	1804.3	1733.7	1693.0	1635.0	1584.8
12.5°	2048.8	2050.4	2015.9	1961.0	1906.2	1849.7	1857.6	1826.2	1757.2	1702.4	1652.2
15°	2114.6	2105.2	2067.6	2017.5	1959.5	1915.6	1910.9	1884.2	1826.2	1780.8	1697.7
17.5°	2133.5	2128.8	2091.1	2037.8	1981.4	1948.5	1961.0	1917.1	1893.6	1852.9	1772.9
20°	2097.4	2086.4	2080.2	2020.6	1979.8	1976.7	1965.7	1975.1	1935.9	1898.3	1840.3
22.5°	2031.6	2026.9	2023.7	1976.7	1957.9	1972.0	1990.8	2004.9	1998.6	1962.6	1896.8
25°	1964.2	1986.1	1965.7	1943.8	1970.4	2006.5	2001.8	2047.2	2047.2	2036.3	1981.4
27.5°	2011.2	1997.1	1981.4	1970.4	1979.8	2036.3	2033.1	2088.0	2108.4	2088.0	2025.3
30°	2128.8	2114.6	2069.2	2020.6	2008.1	2069.2	2084.9	2133.5	2142.9	2092.7	2039.4
32.5°	2349.8	2341.9	2269.8	2127.2	2050.4	2084.9	2092.7	2147.6	2139.7	2108.4	2086.4
35°	2677.4	2650.8	2550.4	2309.0	2139.7	2105.2	2084.9	2128.8	2158.5	2142.9	2122.5
37.5°	3036.4	3006.6	2882.8	2577.1	2301.2	2160.1	2144.4	2180.5	2215.0	2207.1	2164.8
40°	3379.7	3379.7	3268.4	2912.5	2541.0	2293.3	2296.5	2255.7	2287.1	2273.0	2280.8
42.5°	3718.3	3705.7	3660.3	3306.0	2798.1	2515.9	2465.8	2363.9	2420.3	2415.6	2426.6
45°	4061.6	4052.2	4039.6	3672.8	3166.5	2816.9	2790.3	2606.9	2658.6	2636.6	2683.7
47.5°	4335.9	4346.9	4346.9	4081.9	3559.9	3218.2	3179.0	2889.0	2987.8	2998.8	3009.7
50°	4569.5	4574.2	4569.5	4472.3	3998.9	3677.5	3597.6	3302.9	3401.6	3487.8	3588.2
52.5°	4892.4	4898.6	4876.7	4839.1	4594.5	4160.3	4071.0	3743.3	3945.6	4036.5	4216.8
55°	5290.5	5243.5	5202.8	5231.0	5166.7	4691.7	4599.2	4197.9	4502.1	4622.8	4983.3
57.5°	5364.2	5405.0	5508.4	5732.6	5825.1	5209.0	5155.7	4756.0	5130.6	5235.7	5837.6
60°	5624.4	5557.0	5811.0	6296.9	6400.4	5883.1	5828.2	5367.3	5756.1	5865.8	6626.1
62.5°	5795.3	5792.2	6168.4	6745.2	6980.4	6582.2	6470.9	6162.1	6431.7	6538.3	7485.1
65°	5745.1	5790.6	6458.4	7008.6	7464.8	7377.0	7312.7	6845.6	7201.4	7192.0	8044.8
67.5°	5287.4	5415.9	6275.0	7198.3	8185.8	8345.7	8325.3	7806.5	7826.9	7627.8	8294.0
70°	4652.5	4608.6	5499.0	7000.8	8546.4	9494.8	9490.0	8521.3	8389.6	7723.4	7579.2
72°	3574.1	3525.5	4257.5	6011.6	8356.7	9954.0	10095.1	9016.6	8383.3	7326.8	6260.9
72.5°	3244.9	3202.5	3931.5	5658.9	8146.6	10073.2	10007.3	9035.5	8317.5	7140.3	5848.6
75°	1493.9	1445.3	1964.2	3464.3	6354.9	8925.7	9149.9	8455.5	7264.1	5684.0	3503.5
77.5°	445.2	431.1	631.7	1398.3	3693.2	6575.9	6662.2	6380.0	5071.1	3113.2	1299.5
80°	247.7	249.2	326.1	523.6	1624.0	3801.3	4111.7	3940.9	2487.7	1028.3	432.6
82.5°	137.9	145.8	203.8	310.4	746.2	1744.7	1877.9	1810.5	899.8	482.8	236.7
85°	72.1	75.2	106.6	166.2	423.2	551.8	567.5	608.2	467.1	329.2	127.0
87.5°	28.2	28.2	39.2	69.0	156.8	170.9	153.6	186.5	268.1	213.2	62.7
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: P478701  
 CATALOG NUMBER: IFLD-S-SA2E-830-U-T4W

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1497.0	1497.0	1497.0	1497.0	1497.0	1497.0	1497.0	1497.0	1497.0	1497.0	1497.0
2.5°	1520.5	1508.0	1506.4	1486.1	1492.3	1475.1	1476.6	1473.5	1475.1	1471.9	1464.1
5°	1512.7	1503.3	1476.6	1493.9	1478.2	1500.2	1517.4	1511.1	1515.8	1514.3	1515.8
7.5°	1523.7	1511.1	1508.0	1498.6	1512.7	1522.1	1536.2	1575.4	1572.3	1577.0	1586.4
10°	1556.6	1542.5	1533.1	1547.2	1539.4	1569.1	1584.8	1605.2	1641.2	1642.8	1624.0
12.5°	1620.9	1611.5	1592.6	1595.8	1622.4	1631.8	1641.2	1653.8	1677.3	1672.6	1689.8
15°	1694.5	1674.2	1663.2	1660.1	1666.3	1677.3	1675.7	1688.3	1700.8	1711.8	1707.1
17.5°	1747.8	1721.2	1724.3	1740.0	1738.4	1735.3	1714.9	1708.6	1714.9	1721.2	1718.1
20°	1802.7	1805.8	1782.3	1768.2	1761.9	1730.6	1714.9	1696.1	1677.3	1686.7	1700.8
22.5°	1871.7	1857.6	1823.1	1780.8	1749.4	1730.6	1682.0	1649.1	1649.1	1658.5	1653.8
25°	1950.1	1920.3	1860.7	1783.9	1744.7	1664.8	1630.3	1625.6	1613.0	1627.1	1633.4
27.5°	2011.2	1984.5	1903.0	1772.9	1664.8	1600.5	1580.1	1573.8	1594.2	1595.8	1620.9
30°	2036.3	2028.4	1909.3	1744.7	1583.2	1479.8	1467.2	1495.5	1517.4	1550.3	1551.9
32.5°	2069.2	2072.3	1918.7	1678.9	1476.6	1373.2	1354.4	1388.9	1451.6	1478.2	1498.6
35°	2124.1	2139.7	1910.9	1597.4	1363.8	1265.0	1261.9	1271.3	1332.4	1379.5	1406.1
37.5°	2219.7	2216.5	1909.3	1500.2	1274.4	1171.0	1145.9	1149.0	1189.8	1229.0	1224.3
40°	2348.2	2335.7	1904.6	1373.2	1158.4	1091.0	1048.7	1033.0	1029.9	1018.9	1022.1
42.5°	2523.8	2498.7	1903.0	1244.6	1053.4	981.3	951.5	910.8	881.0	824.5	827.7
45°	2768.3	2724.4	1862.3	1123.9	949.9	890.4	844.9	815.1	750.9	680.3	680.3
47.5°	3146.1	3003.5	1863.8	990.7	849.6	801.0	769.7	717.9	649.0	592.5	586.3
50°	3702.6	3376.5	1810.5	885.7	768.1	735.2	702.3	642.7	576.9	537.7	542.4
52.5°	4420.5	3933.0	1809.0	791.6	703.8	680.3	644.3	591.0	542.4	517.3	507.9
55°	5276.4	4669.8	1865.4	714.8	638.0	625.5	609.8	565.9	518.9	496.9	495.4
57.5°	6152.7	5389.3	1956.3	659.9	581.6	591.0	580.0	545.5	507.9	482.8	479.7
60°	6931.8	5959.9	1772.9	594.1	531.4	551.8	567.5	537.7	517.3	515.7	504.8
62.5°	7519.6	6204.4	1348.1	543.9	504.8	542.4	584.7	603.5	594.1	606.6	608.2
65°	7734.4	6057.1	928.0	517.3	484.4	564.3	658.4	652.1	597.2	573.7	586.3
67.5°	7433.4	5459.8	688.2	485.9	470.3	609.8	700.7	622.3	539.2	536.1	526.7
70°	6392.5	4627.5	561.2	453.0	446.8	584.7	681.9	576.9	507.9	487.5	478.1
72°	5093.0	3603.8	492.2	429.5	409.1	522.0	638.0	540.8	481.2	456.2	445.2
72.5°	4649.4	3340.5	482.8	418.5	401.3	507.9	616.1	529.8	475.0	453.0	435.8
75°	2550.4	1710.2	424.8	384.1	338.6	438.9	570.6	496.9	448.3	417.0	413.8
77.5°	948.4	663.1	366.8	340.2	293.1	379.4	518.9	471.8	407.6	368.4	360.5
80°	363.7	349.6	299.4	286.9	246.1	332.3	478.1	423.2	346.4	307.2	294.7
82.5°	221.0	203.8	227.3	224.2	188.1	302.5	449.9	396.6	307.2	249.2	241.4
85°	120.7	120.7	158.3	152.1	131.7	241.4	340.2	263.4	194.4	159.9	163.0
87.5°	53.3	62.7	84.6	79.9	72.1	136.4	166.2	139.5	97.2	65.8	70.5
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)