

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: P478722

Luminaire Tested: **IFLD-M-SA4A-830-U-T4W**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P478722  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-M-SA4A-830-U-T4W  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4W distribution lens  
Light Source: (64) 3000K CCT, 80 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

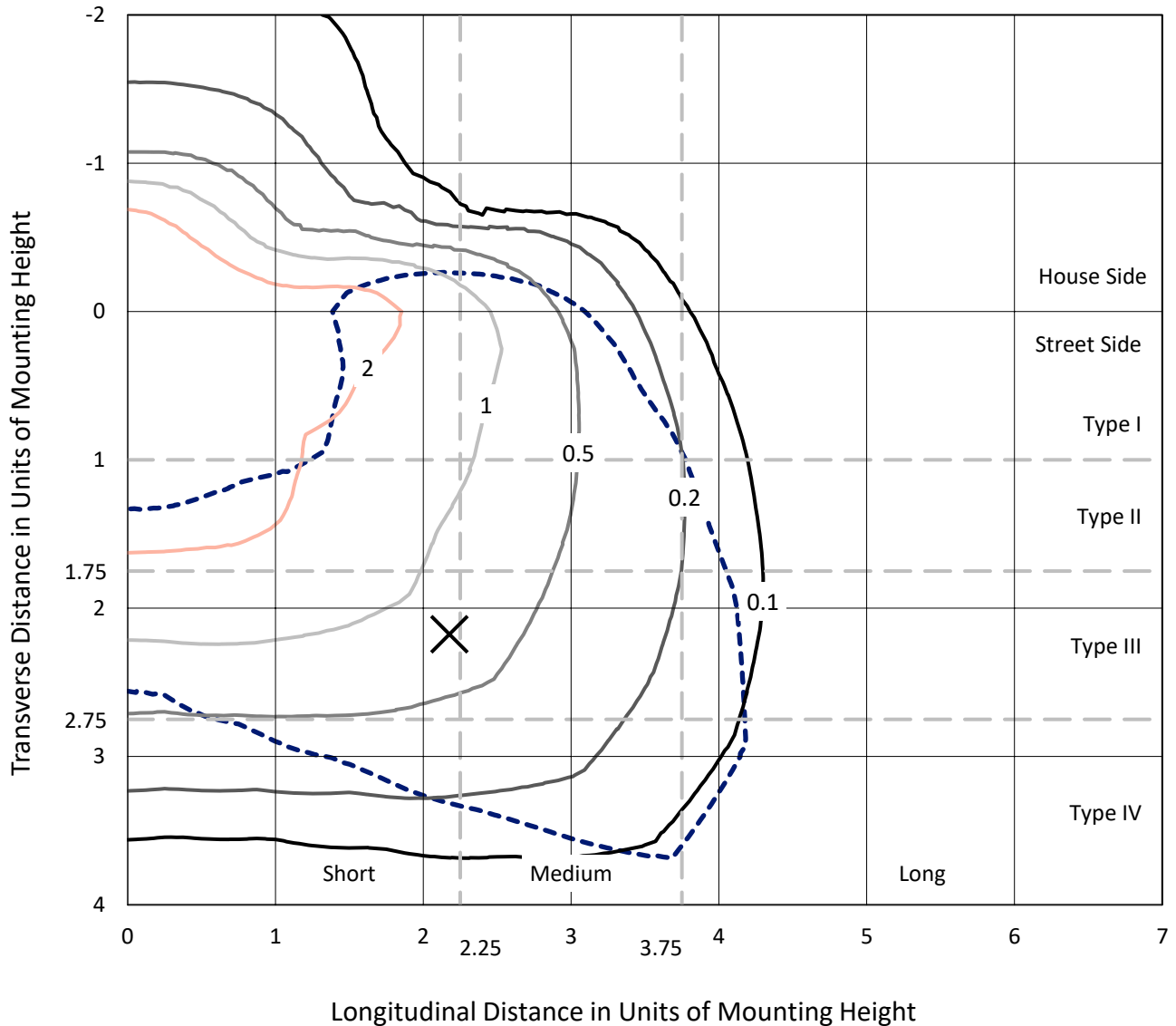
Lumens per Lamp: N/A  
Luminaire Lumens: 14832.3 lumens  
Efficiency: N/A  
Efficacy: 115.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G3

Input Watts (W): 128.6  
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

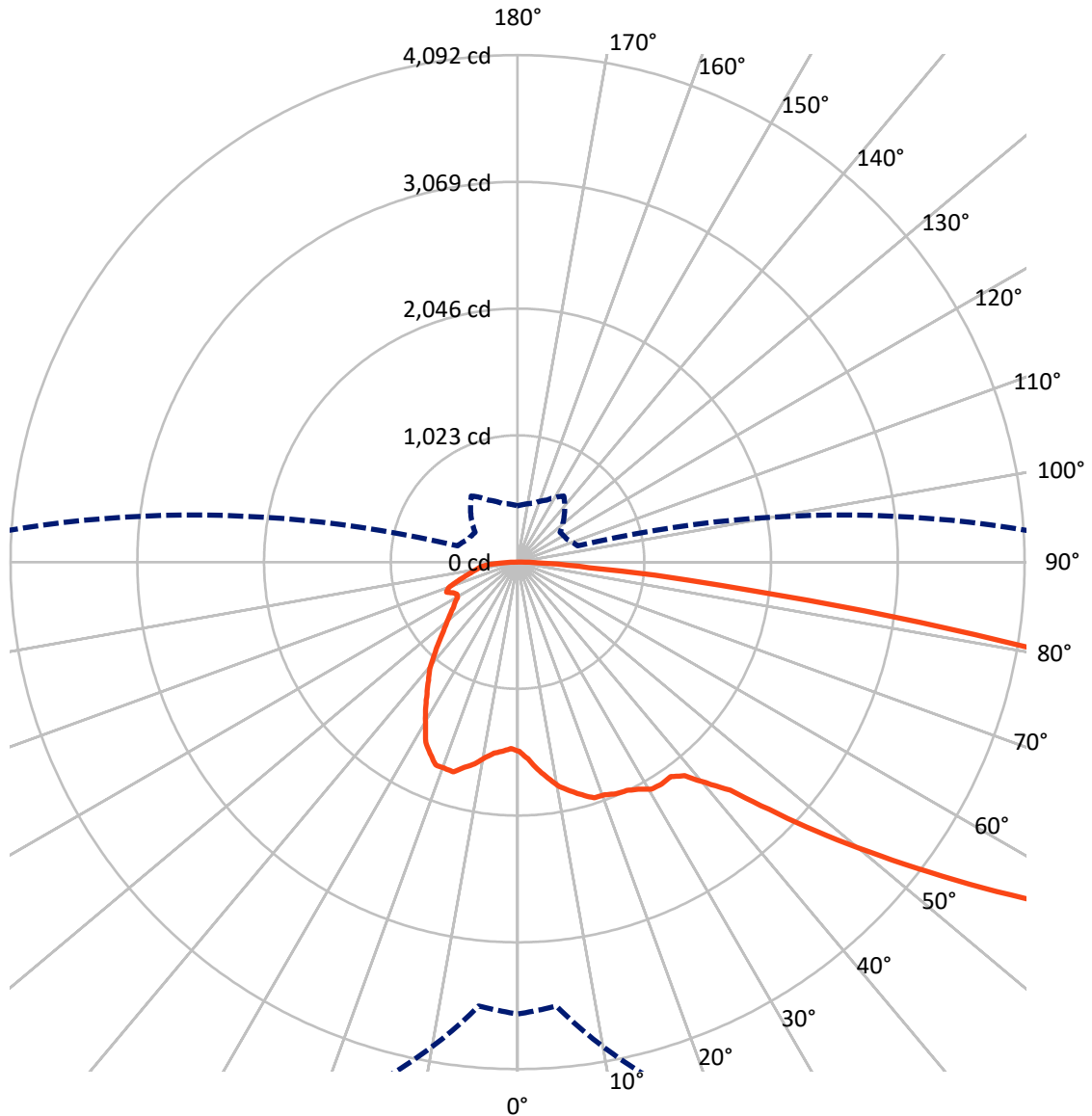
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4.9 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



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

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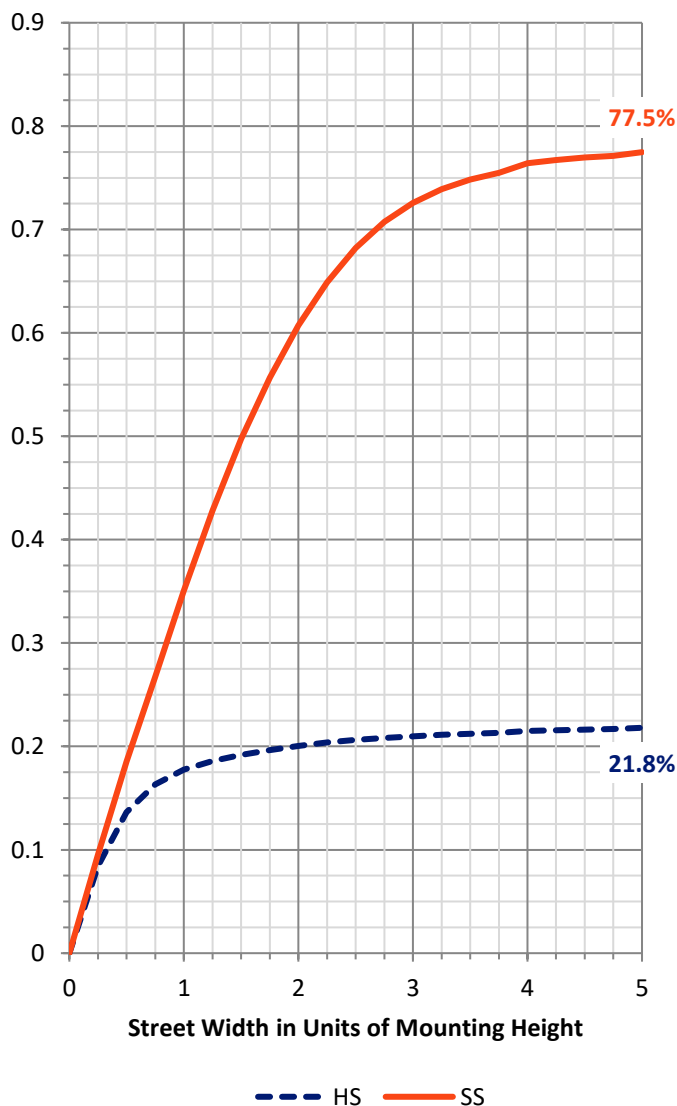
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3301.8	0.0	3301.8
	% Fixture	22.3	0.0	22.3
<b>Street Side</b>	Lumens	11530.6	0.0	11530.6
	% Fixture	77.7	0.0	77.7
<b>Total</b>	Lumens	14832.3	0.0	14832.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	156.3	1.1
10°-20°	520.0	3.5
20°-30°	878.2	5.9
30°-40°	1215.3	8.2
40°-50°	1738.3	11.7
50°-60°	2803.7	18.9
60°-70°	4135.0	27.9
70°-80°	3002.8	20.2
80°-90°	382.8	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°	14832.3	100.0
0°-180°	14832.3	100.0

**Coefficient of Utilization**



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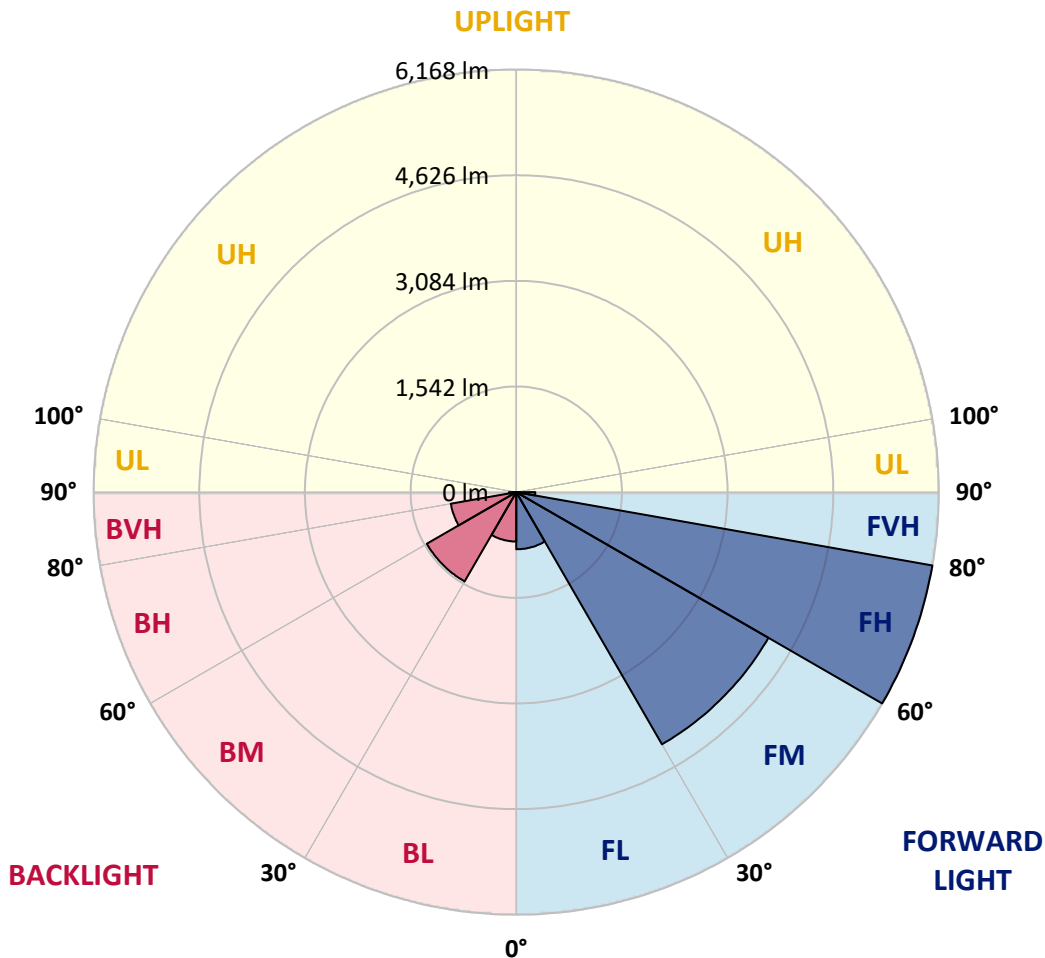
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	833.6	5.6			
FM (30°-60°)	4250.4	28.7			
FH (60°-80°)	6168.0	41.6			G3/7500
FVH (80°-90°)	278.6	1.9			G3/500
BL (0°-30°)	720.9	4.9	B2/1000		
BM (30°-60°)	1506.8	10.2	B2/2500		
BH (60°-80°)	969.9	6.5	B2/1000		G2/1000
BVH (80°-90°)	104.2	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





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	1527.5	1527.5	1527.5	1527.5	1527.5	1527.5	1527.5	1527.5	1527.5	1527.5	1527.5
2.5°	1609.0	1618.6	1609.0	1607.4	1591.4	1580.2	1589.8	1575.4	1559.5	1553.1	1538.7
5°	1756.2	1757.8	1740.2	1741.8	1708.2	1673.0	1679.4	1636.2	1589.8	1572.2	1543.5
7.5°	1906.5	1888.9	1863.3	1855.3	1802.6	1764.2	1759.4	1721.0	1649.0	1609.0	1569.0
10°	2004.1	2010.5	1968.9	1933.7	1888.9	1842.6	1841.0	1769.0	1727.4	1668.2	1617.0
12.5°	2090.5	2092.1	2056.9	2000.9	1944.9	1887.3	1895.3	1863.3	1793.0	1737.0	1685.8
15°	2157.6	2148.0	2109.7	2058.5	1999.3	1954.5	1949.7	1922.5	1863.3	1817.0	1732.2
17.5°	2176.8	2172.0	2133.7	2079.3	2021.7	1988.1	2000.9	1956.1	1932.1	1890.5	1809.0
20°	2140.0	2128.9	2122.5	2061.7	2020.1	2016.9	2005.7	2015.3	1975.3	1936.9	1877.7
22.5°	2072.9	2068.1	2064.9	2016.9	1997.7	2012.1	2031.3	2045.7	2039.3	2002.5	1935.3
25°	2004.1	2026.5	2005.7	1983.3	2010.5	2047.3	2042.5	2088.9	2088.9	2077.7	2021.7
27.5°	2052.1	2037.7	2021.7	2010.5	2020.1	2077.7	2074.5	2130.5	2151.2	2130.5	2066.5
30°	2172.0	2157.6	2111.3	2061.7	2048.9	2111.3	2127.3	2176.8	2186.4	2135.3	2080.9
32.5°	2397.6	2389.6	2316.0	2170.4	2092.1	2127.3	2135.3	2191.2	2183.2	2151.2	2128.9
35°	2731.8	2704.7	2602.3	2356.0	2183.2	2148.0	2127.3	2172.0	2202.4	2186.4	2165.6
37.5°	3098.1	3067.7	2941.4	2629.5	2348.0	2204.0	2188.0	2224.8	2260.0	2252.0	2208.8
40°	3448.4	3448.4	3334.8	2971.8	2592.7	2340.0	2343.2	2301.6	2333.6	2319.2	2327.2
42.5°	3793.9	3781.1	3734.7	3373.2	2855.0	2567.1	2515.9	2412.0	2469.5	2464.7	2475.9
45°	4144.1	4134.5	4121.8	3747.5	3230.9	2874.2	2847.0	2659.9	2712.6	2690.3	2738.2
47.5°	4424.0	4435.2	4435.2	4164.9	3632.3	3283.6	3243.7	2947.8	3048.5	3059.7	3070.9
50°	4662.4	4667.2	4662.4	4563.2	4080.2	3752.3	3670.7	3370.0	3470.8	3558.8	3661.1
52.5°	4991.8	4998.2	4975.9	4937.5	4688.0	4244.9	4153.7	3819.5	4025.8	4118.6	4302.5
55°	5398.1	5350.1	5308.5	5337.3	5271.7	4787.1	4692.8	4283.3	4593.6	4716.7	5084.6
57.5°	5473.3	5514.9	5620.4	5849.1	5943.5	5314.9	5260.6	4852.7	5235.0	5342.1	5956.3
60°	5738.8	5670.0	5929.1	6424.9	6530.5	6002.7	5946.7	5476.5	5873.1	5985.1	6760.8
62.5°	5913.1	5909.9	6293.8	6882.4	7122.3	6716.0	6602.5	6287.4	6562.5	6671.3	7637.3
65°	5861.9	5908.3	6589.7	7151.1	7616.5	7527.0	7461.4	6984.7	7347.8	7338.2	8208.3
67.5°	5394.9	5526.1	6402.6	7344.6	8352.3	8515.4	8494.6	7965.2	7986.0	7782.9	8462.6
70°	4747.1	4702.3	5610.8	7143.1	8720.1	9687.8	9683.0	8694.5	8560.2	7880.4	7733.3
72°	3646.7	3597.1	4344.1	6133.8	8526.6	10156.4	10300.4	9200.0	8553.8	7475.8	6388.2
72.5°	3310.8	3267.7	4011.4	5774.0	8312.3	10278.0	10210.8	9219.2	8486.6	7285.4	5967.5
75°	1524.3	1474.7	2004.1	3534.8	6484.1	9107.2	9335.9	8627.4	7411.8	5799.6	3574.7
77.5°	454.2	439.8	644.6	1426.7	3768.3	6709.6	6797.6	6509.7	5174.2	3176.5	1325.9
80°	252.7	254.3	332.7	534.2	1657.0	3878.6	4195.3	4021.0	2538.3	1049.2	441.4
82.5°	140.8	148.7	207.9	316.7	761.3	1780.2	1916.1	1847.4	918.1	492.6	241.5
85°	73.6	76.8	108.8	169.5	431.8	563.0	579.0	620.6	476.6	335.9	129.6
87.5°	28.8	28.8	40.0	70.4	159.9	174.3	156.7	190.3	273.5	217.5	64.0
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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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1527.5	1527.5	1527.5	1527.5	1527.5	1527.5	1527.5	1527.5	1527.5	1527.5	1527.5
2.5°	1551.5	1538.7	1537.1	1516.3	1522.7	1505.1	1506.7	1503.5	1505.1	1501.9	1493.9
5°	1543.5	1533.9	1506.7	1524.3	1508.3	1530.7	1548.3	1541.9	1546.7	1545.1	1546.7
7.5°	1554.7	1541.9	1538.7	1529.1	1543.5	1553.1	1567.4	1607.4	1604.2	1609.0	1618.6
10°	1588.2	1573.8	1564.3	1578.6	1570.6	1601.0	1617.0	1637.8	1674.6	1676.2	1657.0
12.5°	1653.8	1644.2	1625.0	1628.2	1655.4	1665.0	1674.6	1687.4	1711.4	1706.6	1724.2
15°	1729.0	1708.2	1697.0	1693.8	1700.2	1711.4	1709.8	1722.6	1735.4	1746.6	1741.8
17.5°	1783.4	1756.2	1759.4	1775.4	1773.8	1770.6	1749.8	1743.4	1749.8	1756.2	1753.0
20°	1839.4	1842.6	1818.6	1804.2	1797.8	1765.8	1749.8	1730.6	1711.4	1721.0	1735.4
22.5°	1909.7	1895.3	1860.1	1817.0	1785.0	1765.8	1716.2	1682.6	1682.6	1692.2	1687.4
25°	1989.7	1959.3	1898.5	1820.2	1780.2	1698.6	1663.4	1658.6	1645.8	1660.2	1666.6
27.5°	2052.1	2024.9	1941.7	1809.0	1698.6	1633.0	1612.2	1605.8	1626.6	1628.2	1653.8
30°	2077.7	2069.7	1948.1	1780.2	1615.4	1509.9	1497.1	1525.9	1548.3	1581.8	1583.4
32.5°	2111.3	2114.5	1957.7	1713.0	1506.7	1401.1	1381.9	1417.1	1481.1	1508.3	1529.1
35°	2167.2	2183.2	1949.7	1629.8	1391.5	1290.7	1287.5	1297.1	1359.5	1407.5	1434.7
37.5°	2264.8	2261.6	1948.1	1530.7	1300.3	1194.8	1169.2	1172.4	1214.0	1254.0	1249.2
40°	2396.0	2383.2	1943.3	1401.1	1182.0	1113.2	1070.0	1054.0	1050.8	1039.6	1042.8
42.5°	2575.1	2549.5	1941.7	1270.0	1074.8	1001.2	970.9	929.3	898.9	841.3	844.5
45°	2824.6	2779.8	1900.1	1146.8	969.3	908.5	862.1	831.7	766.1	694.2	694.2
47.5°	3210.1	3064.5	1901.7	1010.8	866.9	817.3	785.3	732.5	662.2	604.6	598.2
50°	3777.9	3445.2	1847.4	903.7	783.7	750.1	716.5	655.8	588.6	548.6	553.4
52.5°	4510.4	4013.0	1845.8	807.7	718.1	694.2	657.4	603.0	553.4	527.8	518.2
55°	5383.7	4764.7	1903.3	729.3	651.0	638.2	622.2	577.4	529.4	507.0	505.4
57.5°	6277.8	5498.9	1996.1	673.4	593.4	603.0	591.8	556.6	518.2	492.6	489.4
60°	7072.7	6081.1	1809.0	606.2	542.2	563.0	579.0	548.6	527.8	526.2	515.0
62.5°	7672.5	6330.6	1375.5	555.0	515.0	553.4	596.6	615.8	606.2	619.0	620.6
65°	7891.6	6180.2	946.9	527.8	494.2	575.8	671.8	665.4	609.4	585.4	598.2
67.5°	7584.5	5570.8	702.2	495.8	479.8	622.2	714.9	635.0	550.2	547.0	537.4
70°	6522.5	4721.5	572.6	462.2	455.8	596.6	695.8	588.6	518.2	497.4	487.8
72°	5196.6	3677.1	502.2	438.2	417.5	532.6	651.0	551.8	491.0	465.4	454.2
72.5°	4743.9	3408.4	492.6	427.1	409.5	518.2	628.6	540.6	484.6	462.2	444.6
75°	2602.3	1745.0	433.4	391.9	345.5	447.8	582.2	507.0	457.4	425.5	422.3
77.5°	967.7	676.6	374.3	347.1	299.1	387.1	529.4	481.4	415.9	375.9	367.9
80°	371.1	356.7	305.5	292.7	251.1	339.1	487.8	431.8	353.5	313.5	300.7
82.5°	225.5	207.9	231.9	228.7	191.9	308.7	459.0	404.7	313.5	254.3	246.3
85°	123.2	123.2	161.5	155.1	134.4	246.3	347.1	268.7	198.3	163.1	166.3
87.5°	54.4	64.0	86.4	81.6	73.6	139.2	169.5	142.4	99.2	67.2	72.0
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)