

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: P478585

Luminaire Tested: **IFLD-S-SA3A-750-U-T4W**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P478585  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA3A-750-U-T4W  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4W distribution lens  
Light Source: (48) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

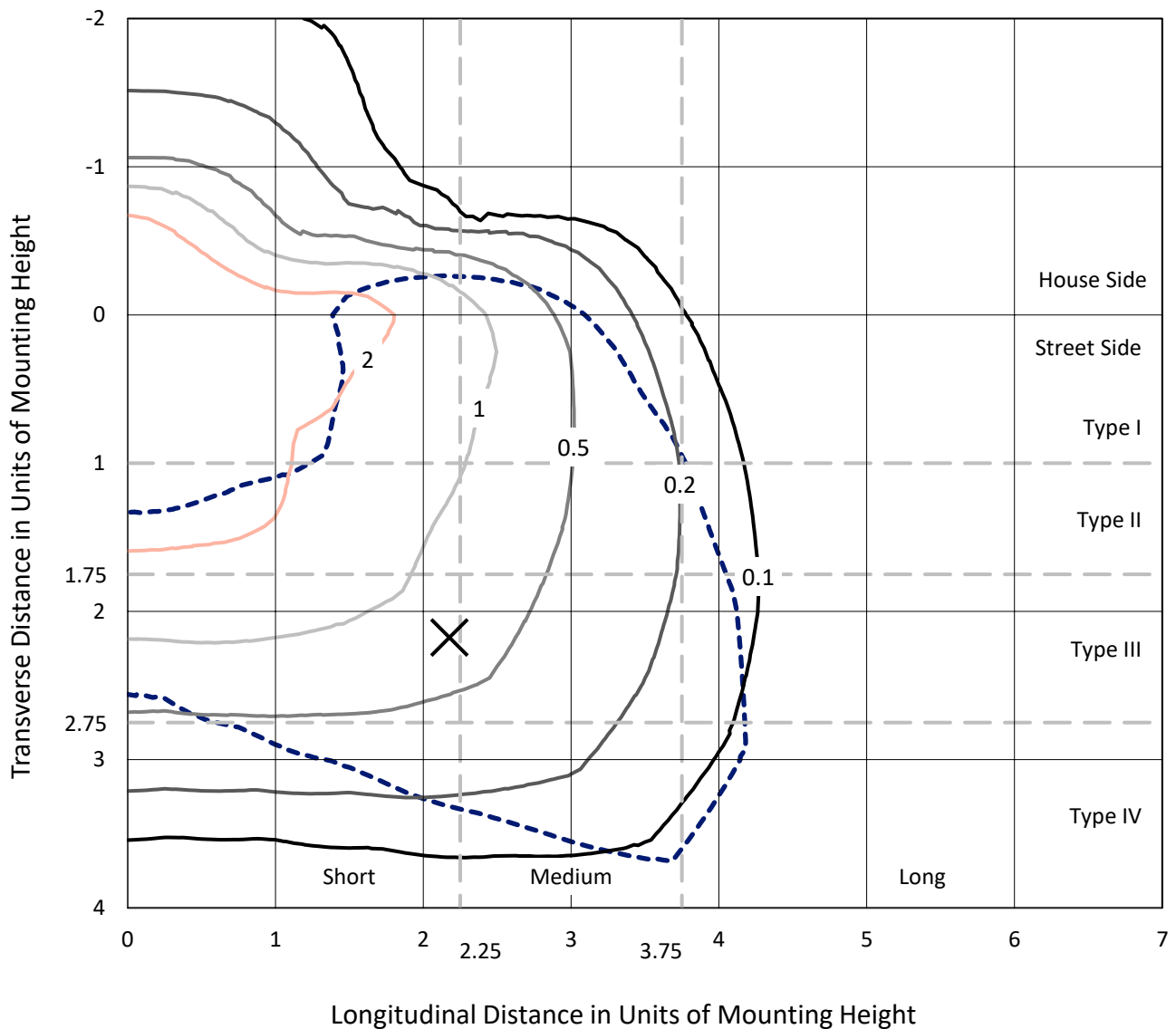
Lumens per Lamp: N/A  
Luminaire Lumens: 14225.3 lumens  
Efficiency: N/A  
Efficacy: 150.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G3

Input Watts (W): 94.8  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): 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

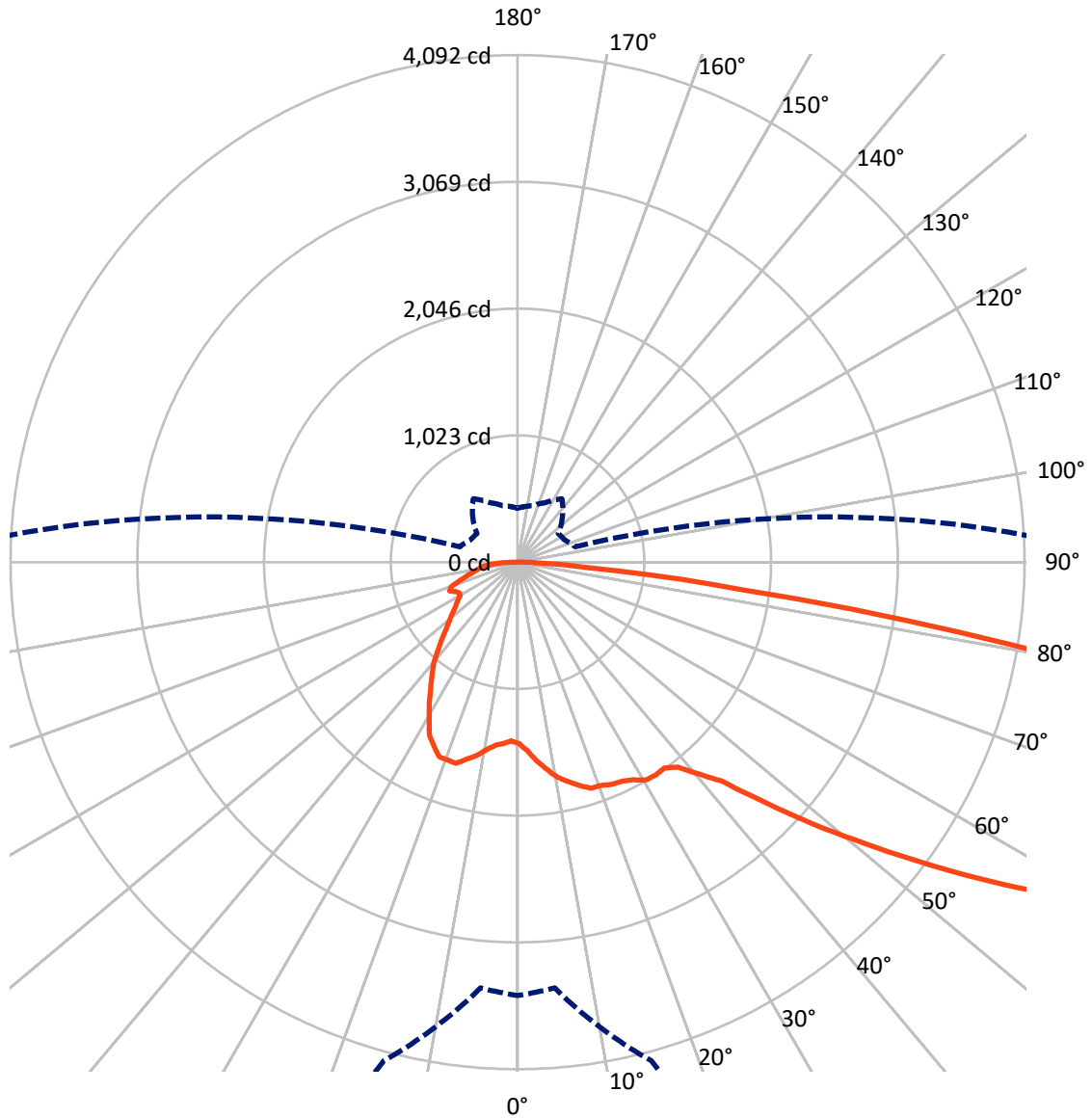
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4.7 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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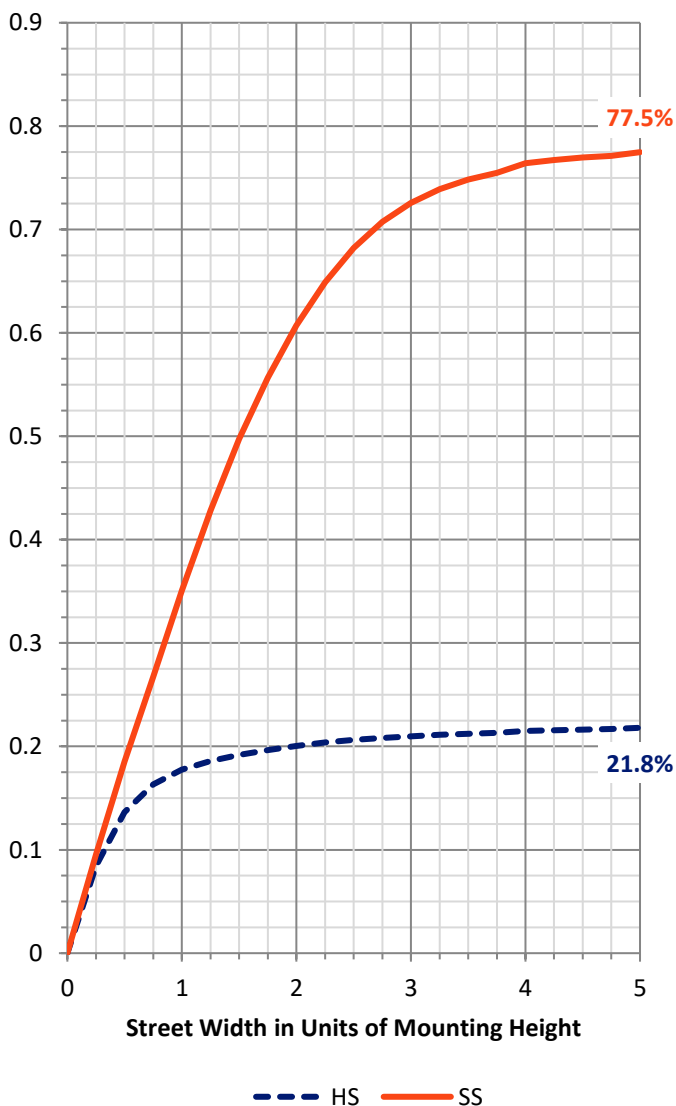
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3166.6	0.0	3166.6
	% Fixture	22.3	0.0	22.3
<b>Street Side</b>	Lumens	11058.7	0.0	11058.7
	% Fixture	77.7	0.0	77.7
<b>Total</b>	Lumens	14225.3	0.0	14225.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	149.9	1.1
10°-20°	498.7	3.5
20°-30°	842.2	5.9
30°-40°	1165.5	8.2
40°-50°	1667.2	11.7
50°-60°	2689.0	18.9
60°-70°	3965.8	27.9
70°-80°	2879.9	20.2
80°-90°	367.1	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°	14225.3	100.0
0°-180°	14225.3	100.0

**Coefficient of Utilization**



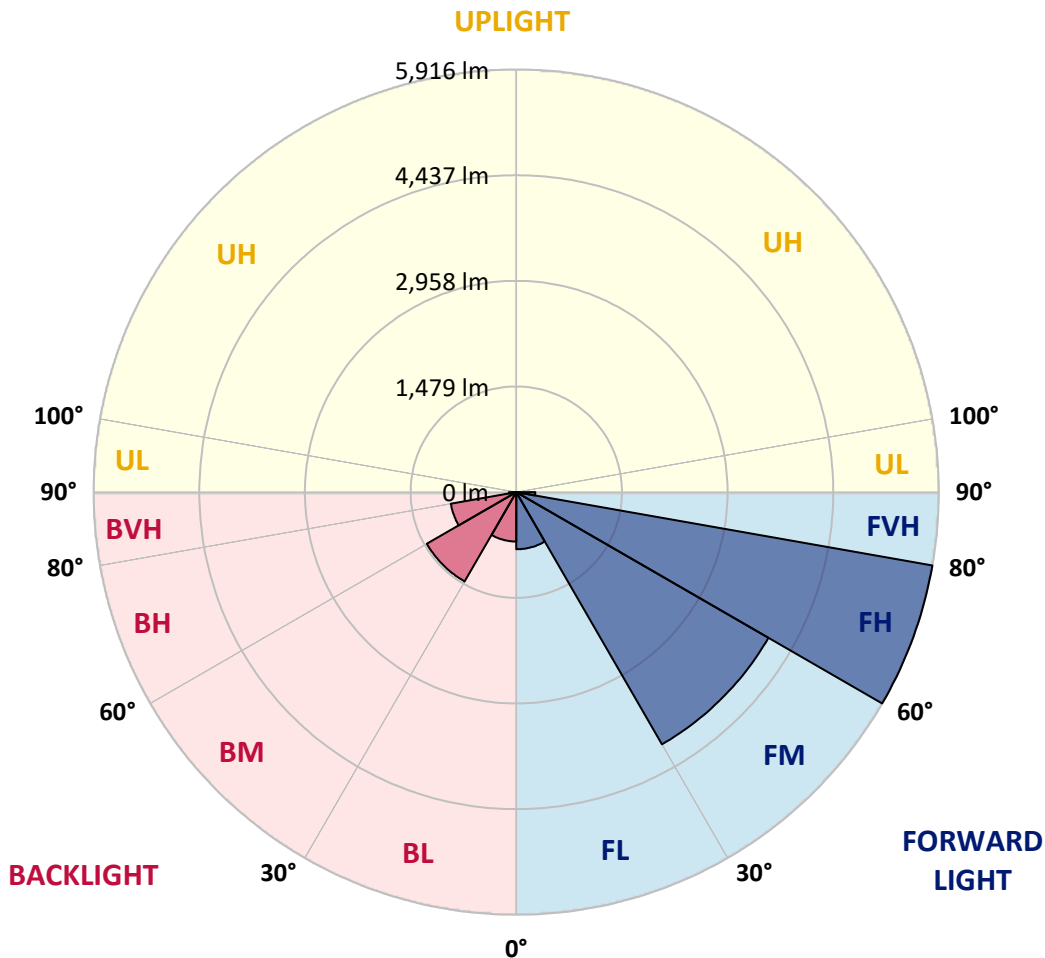
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	799.5	5.6			
FM (30°-60°)	4076.5	28.7			
FH (60°-80°)	5915.5	41.6			G3/7500
FVH (80°-90°)	267.2	1.9			G3/500
BL (0°-30°)	691.4	4.9	B2/1000		
BM (30°-60°)	1445.2	10.2	B2/2500		
BH (60°-80°)	930.2	6.5	B2/1000		G2/1000
BVH (80°-90°)	99.9	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-G3**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	1464.9	1464.9	1464.9	1464.9	1464.9	1464.9	1464.9	1464.9	1464.9	1464.9	1464.9
2.5°	1543.2	1552.4	1543.2	1541.6	1526.3	1515.6	1524.8	1511.0	1495.6	1489.5	1475.7
5°	1684.3	1685.8	1669.0	1670.5	1638.3	1604.5	1610.7	1569.3	1524.8	1507.9	1480.3
7.5°	1828.5	1811.6	1787.1	1779.4	1728.8	1692.0	1687.4	1650.6	1581.5	1543.2	1504.8
10°	1922.1	1928.2	1888.3	1854.6	1811.6	1767.1	1765.6	1696.6	1656.7	1599.9	1550.9
12.5°	2004.9	2006.4	1972.7	1919.0	1865.3	1810.1	1817.8	1787.1	1719.6	1665.9	1616.8
15°	2069.3	2060.1	2023.3	1974.2	1917.5	1874.5	1869.9	1843.8	1787.1	1742.6	1661.3
17.5°	2087.7	2083.1	2046.3	1994.2	1938.9	1906.7	1919.0	1876.1	1853.0	1813.2	1734.9
20°	2052.5	2041.7	2035.6	1977.3	1937.4	1934.3	1923.6	1932.8	1894.5	1857.6	1800.9
22.5°	1988.0	1983.4	1980.4	1934.3	1915.9	1929.7	1948.2	1962.0	1955.8	1920.5	1856.1
25°	1922.1	1943.6	1923.6	1902.1	1928.2	1963.5	1958.9	2003.4	2003.4	1992.6	1938.9
27.5°	1968.1	1954.3	1938.9	1928.2	1937.4	1992.6	1989.6	2043.3	2063.2	2043.3	1981.9
30°	2083.1	2069.3	2024.9	1977.3	1965.0	2024.9	2040.2	2087.7	2096.9	2047.9	1995.7
32.5°	2299.4	2291.8	2221.2	2081.6	2006.4	2040.2	2047.9	2101.5	2093.9	2063.2	2041.7
35°	2620.0	2594.0	2495.8	2259.5	2093.9	2060.1	2040.2	2083.1	2112.3	2096.9	2077.0
37.5°	2971.3	2942.2	2821.0	2521.9	2251.9	2113.8	2098.5	2133.8	2167.5	2159.8	2118.4
40°	3307.3	3307.3	3198.3	2850.1	2486.6	2244.2	2247.3	2207.4	2238.1	2224.3	2231.9
42.5°	3638.6	3626.3	3581.8	3235.2	2738.2	2462.0	2412.9	2313.2	2368.5	2363.9	2374.6
45°	3974.5	3965.3	3953.1	3594.1	3098.6	2756.6	2730.5	2551.0	2601.6	2580.2	2626.2
47.5°	4243.0	4253.7	4253.7	3994.5	3483.7	3149.3	3110.9	2827.1	2923.8	2934.5	2945.2
50°	4471.5	4476.1	4471.5	4376.4	3913.2	3598.7	3520.5	3232.1	3328.7	3413.1	3511.3
52.5°	4787.5	4793.7	4772.2	4735.4	4496.1	4071.2	3983.7	3663.1	3861.0	3950.0	4126.4
55°	5177.2	5131.2	5091.3	5118.9	5056.0	4591.2	4500.7	4108.0	4405.6	4523.7	4876.5
57.5°	5249.3	5289.2	5390.4	5609.8	5700.3	5097.4	5045.3	4654.1	5020.7	5123.5	5712.5
60°	5503.9	5438.0	5686.5	6162.0	6263.2	5757.0	5703.3	5252.3	5632.8	5740.1	6484.1
62.5°	5671.1	5668.0	6036.2	6600.7	6830.8	6441.2	6332.3	6030.1	6293.9	6398.2	7324.7
65°	5622.0	5666.5	6320.0	6858.4	7304.8	7218.9	7156.0	6698.9	7047.1	7037.9	7872.4
67.5°	5174.1	5299.9	6140.5	7044.0	8010.4	8166.9	8147.0	7639.2	7659.2	7464.3	8116.3
70°	4552.8	4509.9	5381.2	6850.7	8363.2	9291.3	9286.7	8338.7	8209.8	7557.9	7416.8
72°	3497.5	3449.9	4166.3	5882.8	8177.6	9740.8	9878.8	8823.4	8203.7	7169.8	6126.7
72.5°	3175.3	3133.9	3847.2	5537.7	7972.1	9857.3	9792.9	8841.8	8139.3	6987.3	5723.3
75°	1461.9	1414.3	1922.1	3390.1	6218.7	8734.5	8953.8	8274.3	7108.5	5562.2	3428.4
77.5°	435.6	421.8	618.2	1368.3	3614.1	6435.0	6519.4	6243.3	4962.4	3046.5	1271.7
80°	242.4	243.9	319.1	512.3	1589.2	3719.9	4023.6	3856.4	2434.4	1006.3	423.4
82.5°	135.0	142.7	199.4	303.7	730.2	1707.3	1837.7	1771.7	880.5	472.5	231.6
85°	70.6	73.6	104.3	162.6	414.2	540.0	555.3	595.2	457.1	322.1	124.3
87.5°	27.6	27.6	38.3	67.5	153.4	167.2	150.3	182.5	262.3	208.6	61.4
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°	1464.9	1464.9	1464.9	1464.9	1464.9	1464.9	1464.9	1464.9	1464.9	1464.9	1464.9
2.5°	1488.0	1475.7	1474.2	1454.2	1460.3	1443.5	1445.0	1441.9	1443.5	1440.4	1432.7
5°	1480.3	1471.1	1445.0	1461.9	1446.5	1468.0	1484.9	1478.8	1483.4	1481.8	1483.4
7.5°	1491.0	1478.8	1475.7	1466.5	1480.3	1489.5	1503.3	1541.6	1538.6	1543.2	1552.4
10°	1523.2	1509.4	1500.2	1514.0	1506.4	1535.5	1550.9	1570.8	1606.1	1607.6	1589.2
12.5°	1586.1	1576.9	1558.5	1561.6	1587.7	1596.9	1606.1	1618.3	1641.4	1636.8	1653.6
15°	1658.2	1638.3	1627.6	1624.5	1630.6	1641.4	1639.8	1652.1	1664.4	1675.1	1670.5
17.5°	1710.4	1684.3	1687.4	1702.7	1701.2	1698.1	1678.2	1672.0	1678.2	1684.3	1681.2
20°	1764.1	1767.1	1744.1	1730.3	1724.2	1693.5	1678.2	1659.8	1641.4	1650.6	1664.4
22.5°	1831.6	1817.8	1784.0	1742.6	1711.9	1693.5	1646.0	1613.7	1613.7	1622.9	1618.3
25°	1908.3	1879.1	1820.8	1745.7	1707.3	1629.1	1595.3	1590.7	1578.5	1592.3	1598.4
27.5°	1968.1	1942.0	1862.2	1734.9	1629.1	1566.2	1546.2	1540.1	1560.1	1561.6	1586.1
30°	1992.6	1985.0	1868.4	1707.3	1549.3	1448.1	1435.8	1463.4	1484.9	1517.1	1518.6
32.5°	2024.9	2027.9	1877.6	1642.9	1445.0	1343.8	1325.4	1359.1	1420.5	1446.5	1466.5
35°	2078.5	2093.9	1869.9	1563.1	1334.6	1237.9	1234.9	1244.1	1303.9	1349.9	1376.0
37.5°	2172.1	2169.0	1868.4	1468.0	1247.1	1145.9	1121.3	1124.4	1164.3	1202.6	1198.0
40°	2297.9	2285.6	1863.8	1343.8	1133.6	1067.6	1026.2	1010.9	1007.8	997.1	1000.2
42.5°	2469.7	2445.2	1862.2	1218.0	1030.8	960.3	931.1	891.2	862.1	806.9	809.9
45°	2709.0	2666.1	1822.4	1099.9	929.6	871.3	826.8	797.7	734.8	665.7	665.7
47.5°	3078.7	2939.1	1823.9	969.5	831.4	783.9	753.2	702.6	635.1	579.8	573.7
50°	3623.3	3304.2	1771.7	866.7	751.6	719.4	687.2	628.9	564.5	526.2	530.8
52.5°	4325.8	3848.8	1770.2	774.7	688.8	665.7	630.5	578.3	530.8	506.2	497.0
55°	5163.4	4569.7	1825.4	699.5	624.3	612.1	596.7	553.8	507.7	486.3	484.7
57.5°	6020.9	5273.8	1914.4	645.8	569.1	578.3	567.6	533.8	497.0	472.5	469.4
60°	6783.3	5832.2	1734.9	581.4	520.0	540.0	555.3	526.2	506.2	504.7	493.9
62.5°	7358.5	6071.5	1319.2	532.3	493.9	530.8	572.2	590.6	581.4	593.6	595.2
65°	7568.6	5927.3	908.1	506.2	474.0	552.2	644.3	638.1	584.4	561.4	573.7
67.5°	7274.1	5342.8	673.4	475.5	460.2	596.7	685.7	609.0	527.7	524.6	515.4
70°	6255.6	4528.3	549.2	443.3	437.2	572.2	667.3	564.5	497.0	477.1	467.9
72°	4983.9	3526.6	481.7	420.3	400.4	510.8	624.3	529.2	470.9	446.4	435.6
72.5°	4549.8	3268.9	472.5	409.6	392.7	497.0	602.9	518.5	464.8	443.3	426.4
75°	2495.8	1673.6	415.7	375.8	331.3	429.5	558.4	486.3	438.7	408.0	405.0
77.5°	928.1	648.9	359.0	332.9	286.9	371.2	507.7	461.7	398.8	360.5	352.8
80°	355.9	342.1	293.0	280.7	240.8	325.2	467.9	414.2	339.0	300.7	288.4
82.5°	216.3	199.4	222.4	219.4	184.1	296.1	440.3	388.1	300.7	243.9	236.2
85°	118.1	118.1	154.9	148.8	128.9	236.2	332.9	257.7	190.2	156.5	159.5
87.5°	52.2	61.4	82.8	78.2	70.6	133.5	162.6	136.5	95.1	64.4	69.0
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)