

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: P478389

Luminaire Tested: **IFLD-S-SA2E-722-U-T4W**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P478389
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2E-722-U-T4W
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4W distribution lens
Light Source: (32) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

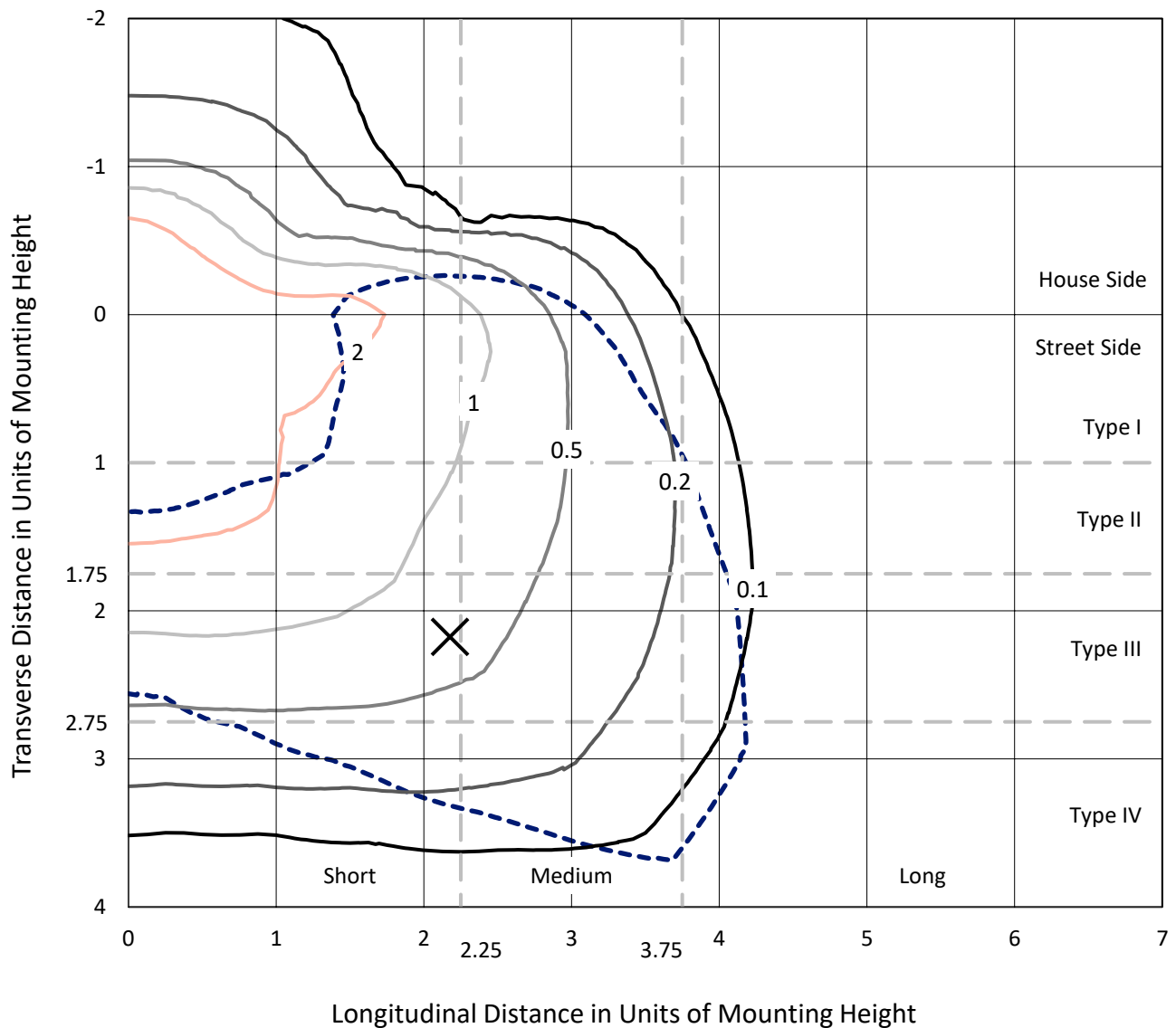
Lumens per Lamp: N/A
Luminaire Lumens: 13475.7 lumens
Efficiency: N/A
Efficacy: 86.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

Input Watts (W): 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

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Iso-Footcandle Lines of Horizontal Illumination

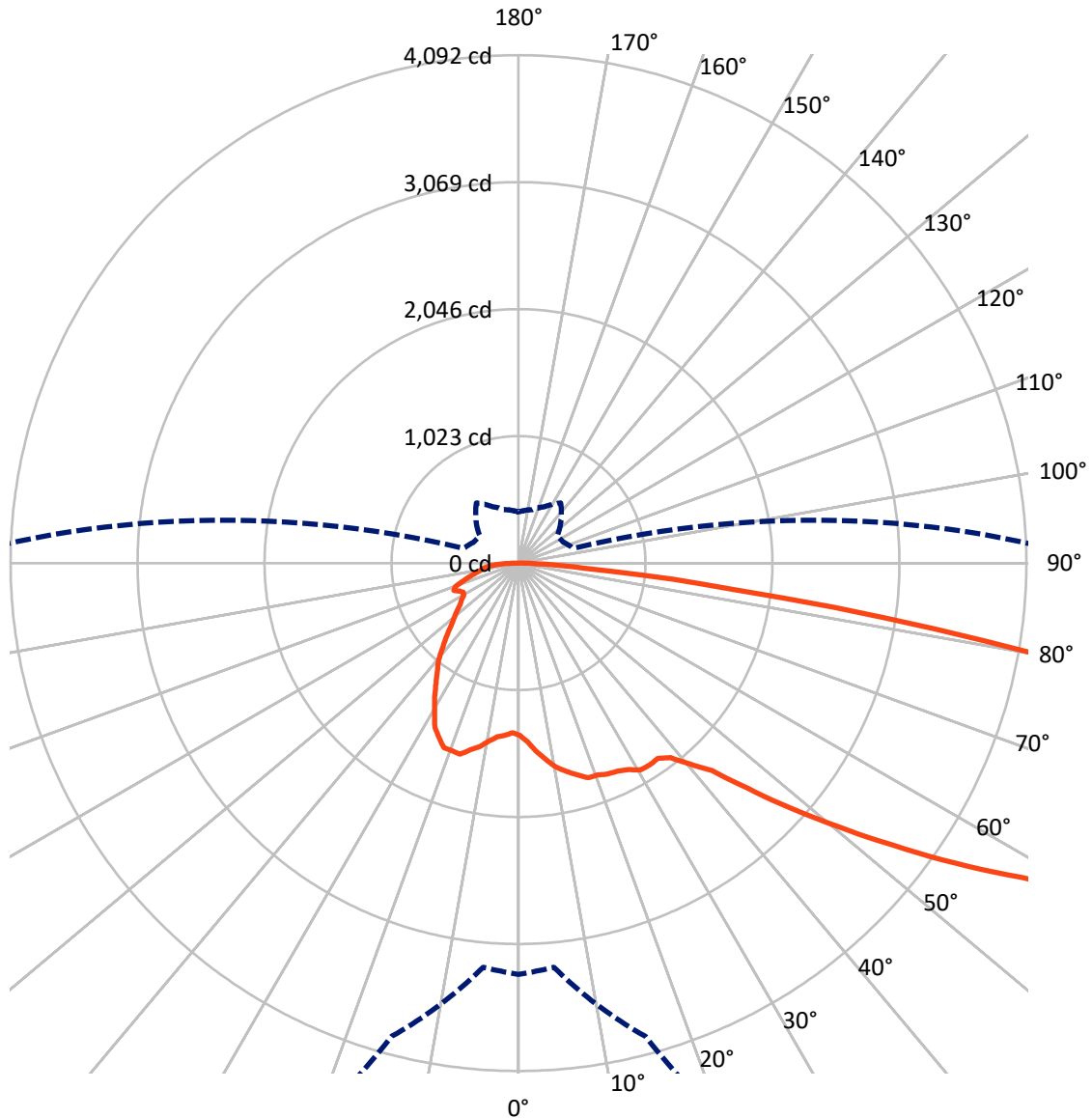
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4.4 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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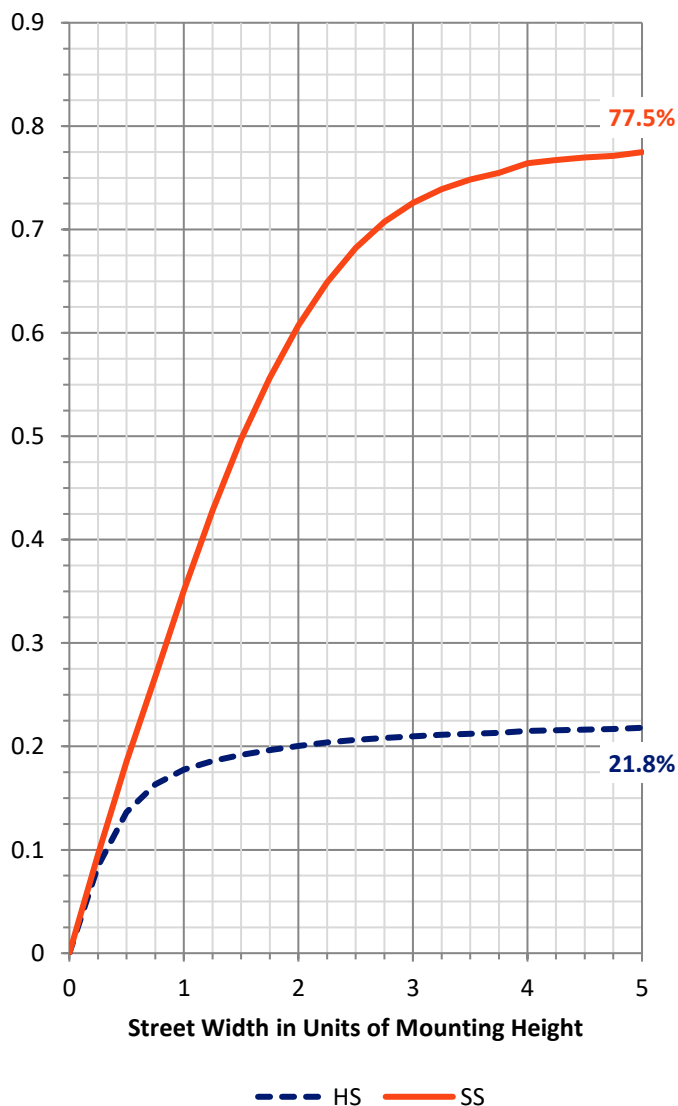
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2999.8	0.0	2999.8
	% Fixture	22.3	0.0	22.3
Street Side	Lumens	10475.9	0.0	10475.9
	% Fixture	77.7	0.0	77.7
Total	Lumens	13475.7	0.0	13475.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	142.0	1.1
10°-20°	472.5	3.5
20°-30°	797.9	5.9
30°-40°	1104.1	8.2
40°-50°	1579.3	11.7
50°-60°	2547.3	18.9
60°-70°	3756.8	27.9
70°-80°	2728.1	20.2
80°-90°	347.8	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°	13475.7	100.0
0°-180°	13475.7	100.0

Coefficient of Utilization



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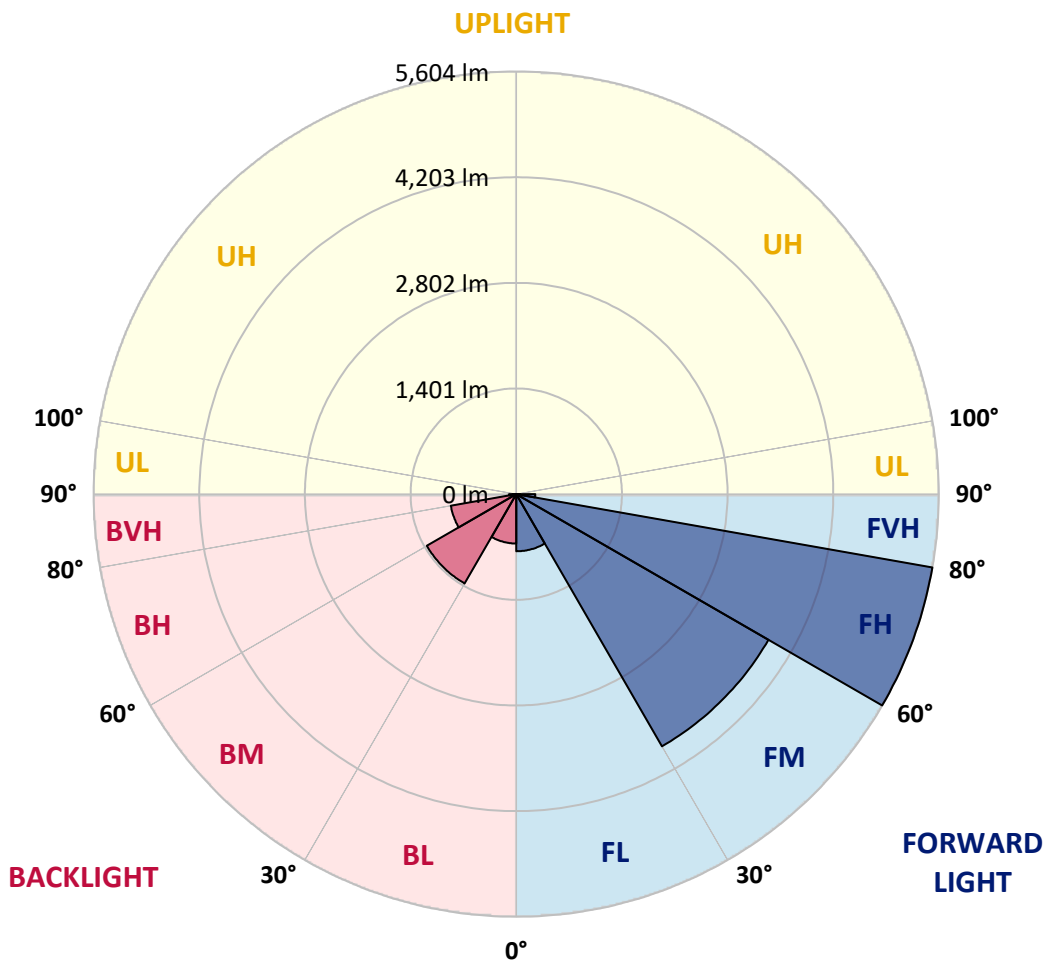
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	757.3	5.6			
FM (30°-60°)	3861.7	28.7			
FH (60°-80°)	5603.8	41.6			G3/7500
FVH (80°-90°)	253.1	1.9			G3/500
BL (0°-30°)	655.0	4.9	B2/1000		
BM (30°-60°)	1369.0	10.2	B2/2500		
BH (60°-80°)	881.1	6.5	B2/1000		G2/1000
BVH (80°-90°)	94.6	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°	1387.8	1387.8	1387.8	1387.8	1387.8	1387.8	1387.8	1387.8	1387.8	1387.8	1387.8
2.5°	1461.9	1470.6	1461.9	1460.4	1445.9	1435.7	1444.4	1431.3	1416.8	1411.0	1397.9
5°	1595.6	1597.0	1581.0	1582.5	1552.0	1520.0	1525.8	1486.6	1444.4	1428.4	1402.3
7.5°	1732.1	1716.2	1692.9	1685.6	1637.7	1602.8	1598.5	1563.6	1498.2	1461.9	1425.5
10°	1820.8	1826.6	1788.8	1756.9	1716.2	1674.0	1672.6	1607.2	1569.4	1515.6	1469.1
12.5°	1899.3	1900.7	1868.7	1817.9	1767.0	1714.7	1722.0	1692.9	1629.0	1578.1	1531.6
15°	1960.3	1951.6	1916.7	1870.2	1816.4	1775.7	1771.4	1746.7	1692.9	1650.8	1573.8
17.5°	1977.7	1973.4	1938.5	1889.1	1836.8	1806.3	1817.9	1777.2	1755.4	1717.6	1643.5
20°	1944.3	1934.1	1928.3	1873.1	1835.3	1832.4	1822.2	1831.0	1794.6	1759.8	1706.0
22.5°	1883.3	1878.9	1876.0	1832.4	1815.0	1828.1	1845.5	1858.6	1852.8	1819.3	1758.3
25°	1820.8	1841.1	1822.2	1801.9	1826.6	1860.0	1855.7	1897.8	1897.8	1887.6	1836.8
27.5°	1864.4	1851.3	1836.8	1826.6	1835.3	1887.6	1884.7	1935.6	1954.5	1935.6	1877.5
30°	1973.4	1960.3	1918.2	1873.1	1861.5	1918.2	1932.7	1977.7	1986.5	1939.9	1890.5
32.5°	2178.3	2171.0	2104.2	1971.9	1900.7	1932.7	1939.9	1990.8	1983.5	1954.5	1934.1
35°	2482.0	2457.3	2364.3	2140.5	1983.5	1951.6	1932.7	1973.4	2001.0	1986.5	1967.6
37.5°	2814.7	2787.1	2672.3	2389.0	2133.2	2002.4	1987.9	2021.3	2053.3	2046.0	2006.8
40°	3133.0	3133.0	3029.8	2699.9	2355.5	2126.0	2128.9	2091.1	2120.1	2107.1	2114.3
42.5°	3446.9	3435.2	3393.1	3064.7	2593.9	2332.3	2285.8	2191.3	2243.7	2239.3	2249.5
45°	3765.1	3756.4	3744.8	3404.7	2935.4	2611.3	2586.6	2416.6	2464.5	2444.2	2487.8
47.5°	4019.4	4029.6	4029.6	3784.0	3300.1	2983.3	2947.0	2678.1	2769.7	2779.9	2790.0
50°	4235.9	4240.3	4235.9	4145.8	3707.0	3409.1	3335.0	3061.8	3153.3	3233.2	3326.3
52.5°	4535.3	4541.1	4520.7	4485.9	4259.2	3856.6	3773.8	3470.1	3657.6	3741.9	3909.0
55°	4904.4	4860.8	4823.0	4849.1	4789.6	4349.3	4263.5	3891.5	4173.4	4285.3	4619.5
57.5°	4972.7	5010.4	5106.4	5314.2	5399.9	4828.8	4779.4	4408.8	4756.1	4853.5	5411.5
60°	5213.9	5151.4	5386.8	5837.3	5933.2	5453.7	5402.8	4975.6	5336.0	5437.7	6142.4
62.5°	5372.3	5369.4	5718.1	6252.9	6470.9	6101.8	5998.6	5712.3	5962.3	6061.1	6938.8
65°	5325.8	5367.9	5987.0	6497.0	6919.9	6838.5	6778.9	6345.9	6675.8	6667.0	7457.5
67.5°	4901.5	5020.6	5816.9	6672.8	7588.3	7736.5	7717.7	7236.7	7255.6	7071.0	7688.6
70°	4312.9	4272.2	5097.6	6489.7	7922.6	8801.7	8797.3	7899.3	7777.2	7159.6	7026.0
72°	3313.2	3268.1	3946.7	5572.8	7746.7	9227.5	9358.3	8358.5	7771.4	6792.0	5803.9
72.5°	3008.0	2968.8	3644.5	5245.9	7552.0	9337.9	9276.9	8375.9	7710.4	6619.1	5421.7
75°	1384.8	1339.8	1820.8	3211.5	5891.1	8274.2	8482.0	7838.3	6733.9	5269.1	3247.8
77.5°	412.7	399.6	585.6	1296.2	3423.6	6095.9	6175.9	5914.3	4700.9	2885.9	1204.7
80°	229.6	231.1	302.3	485.4	1505.5	3523.9	3811.6	3653.2	2306.1	953.3	401.1
82.5°	127.9	135.1	188.9	287.7	691.7	1617.4	1740.9	1678.4	834.1	447.6	219.4
85°	66.8	69.8	98.8	154.0	392.3	511.5	526.0	563.8	433.0	305.2	117.7
87.5°	26.2	26.2	36.3	63.9	145.3	158.4	142.4	172.9	248.5	197.6	58.1
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°	1387.8	1387.8	1387.8	1387.8	1387.8	1387.8	1387.8	1387.8	1387.8	1387.8	1387.8
2.5°	1409.6	1397.9	1396.5	1377.6	1383.4	1367.4	1368.9	1366.0	1367.4	1364.5	1357.2
5°	1402.3	1393.6	1368.9	1384.8	1370.3	1390.7	1406.6	1400.8	1405.2	1403.7	1405.2
7.5°	1412.5	1400.8	1397.9	1389.2	1402.3	1411.0	1424.1	1460.4	1457.5	1461.9	1470.6
10°	1443.0	1429.9	1421.2	1434.3	1427.0	1454.6	1469.1	1488.0	1521.4	1522.9	1505.5
12.5°	1502.6	1493.8	1476.4	1479.3	1504.0	1512.7	1521.4	1533.1	1554.9	1550.5	1566.5
15°	1570.9	1552.0	1541.8	1538.9	1544.7	1554.9	1553.4	1565.0	1576.7	1586.8	1582.5
17.5°	1620.3	1595.6	1598.5	1613.0	1611.5	1608.6	1589.7	1583.9	1589.7	1595.6	1592.6
20°	1671.1	1674.0	1652.2	1639.1	1633.3	1604.3	1589.7	1572.3	1554.9	1563.6	1576.7
22.5°	1735.1	1722.0	1690.0	1650.8	1621.7	1604.3	1559.2	1528.7	1528.7	1537.4	1533.1
25°	1807.7	1780.1	1724.9	1653.7	1617.4	1543.2	1511.3	1506.9	1495.3	1508.4	1514.2
27.5°	1864.4	1839.7	1764.1	1643.5	1543.2	1483.7	1464.8	1459.0	1477.8	1479.3	1502.6
30°	1887.6	1880.4	1769.9	1617.4	1467.7	1371.8	1360.1	1386.3	1406.6	1437.2	1438.6
32.5°	1918.2	1921.1	1778.7	1556.3	1368.9	1273.0	1255.5	1287.5	1345.6	1370.3	1389.2
35°	1969.0	1983.5	1771.4	1480.8	1264.2	1172.7	1169.8	1178.5	1235.2	1278.8	1303.5
37.5°	2057.7	2054.7	1769.9	1390.7	1181.4	1085.5	1062.2	1065.2	1102.9	1139.3	1134.9
40°	2176.8	2165.2	1765.6	1273.0	1073.9	1011.4	972.2	957.6	954.7	944.5	947.5
42.5°	2339.6	2316.3	1764.1	1153.8	976.5	909.7	882.1	844.3	816.7	764.4	767.3
45°	2566.3	2525.6	1726.3	1041.9	880.6	825.4	783.2	755.6	696.1	630.7	630.7
47.5°	2916.5	2784.2	1727.8	918.4	787.6	742.6	713.5	665.5	601.6	549.3	543.5
50°	3432.3	3130.1	1678.4	821.0	712.0	681.5	651.0	595.8	534.8	498.4	502.8
52.5°	4097.9	3645.9	1676.9	733.8	652.5	630.7	597.2	547.8	502.8	479.5	470.8
55°	4891.3	4328.9	1729.2	662.6	591.4	579.8	565.3	524.6	481.0	460.6	459.2
57.5°	5703.6	4995.9	1813.5	611.8	539.1	547.8	537.7	505.7	470.8	447.6	444.7
60°	6425.8	5524.9	1643.5	550.7	492.6	511.5	526.0	498.4	479.5	478.1	467.9
62.5°	6970.7	5751.6	1249.7	504.2	467.9	502.8	542.0	559.5	550.7	562.4	563.8
65°	7169.8	5615.0	860.3	479.5	449.0	523.1	610.3	604.5	553.6	531.9	543.5
67.5°	6890.8	5061.3	637.9	450.5	435.9	565.3	649.6	576.9	499.9	497.0	488.3
70°	5925.9	4289.7	520.2	420.0	414.1	542.0	632.1	534.8	470.8	451.9	443.2
72°	4721.3	3340.8	456.3	398.2	379.3	483.9	591.4	501.3	446.1	422.9	412.7
72.5°	4310.0	3096.7	447.6	388.0	372.0	470.8	571.1	491.2	440.3	420.0	404.0
75°	2364.3	1585.4	393.8	356.0	313.9	406.9	528.9	460.6	415.6	386.5	383.6
77.5°	879.2	614.7	340.0	315.3	271.7	351.7	481.0	437.4	377.8	341.5	334.2
80°	337.1	324.1	277.6	265.9	228.1	308.1	443.2	392.3	321.1	284.8	273.2
82.5°	204.9	188.9	210.7	207.8	174.4	280.5	417.1	367.6	284.8	231.1	223.8
85°	111.9	111.9	146.8	141.0	122.1	223.8	315.3	244.1	180.2	148.2	151.1
87.5°	49.4	58.1	78.5	74.1	66.8	126.4	154.0	129.3	90.1	61.0	65.4
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)