

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: P478410

Luminaire Tested: **IFLD-M-SA4A-722-U-T4W**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P478410
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4A-722-U-T4W
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4W distribution lens
Light Source: (64) 2200K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

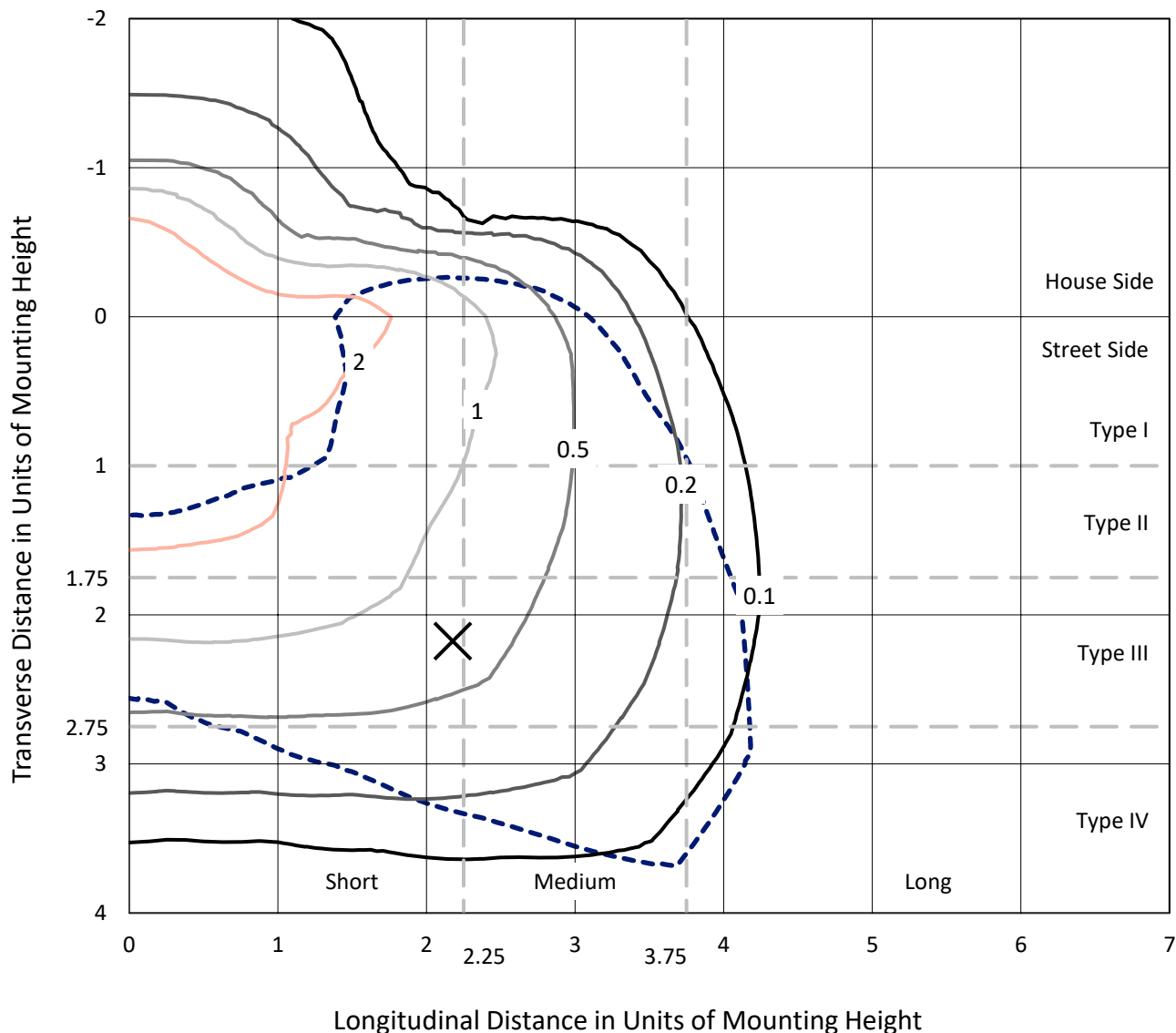
Lumens per Lamp: N/A
Luminaire Lumens: 13749.7 lumens
Efficiency: N/A
Efficacy: 106.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

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

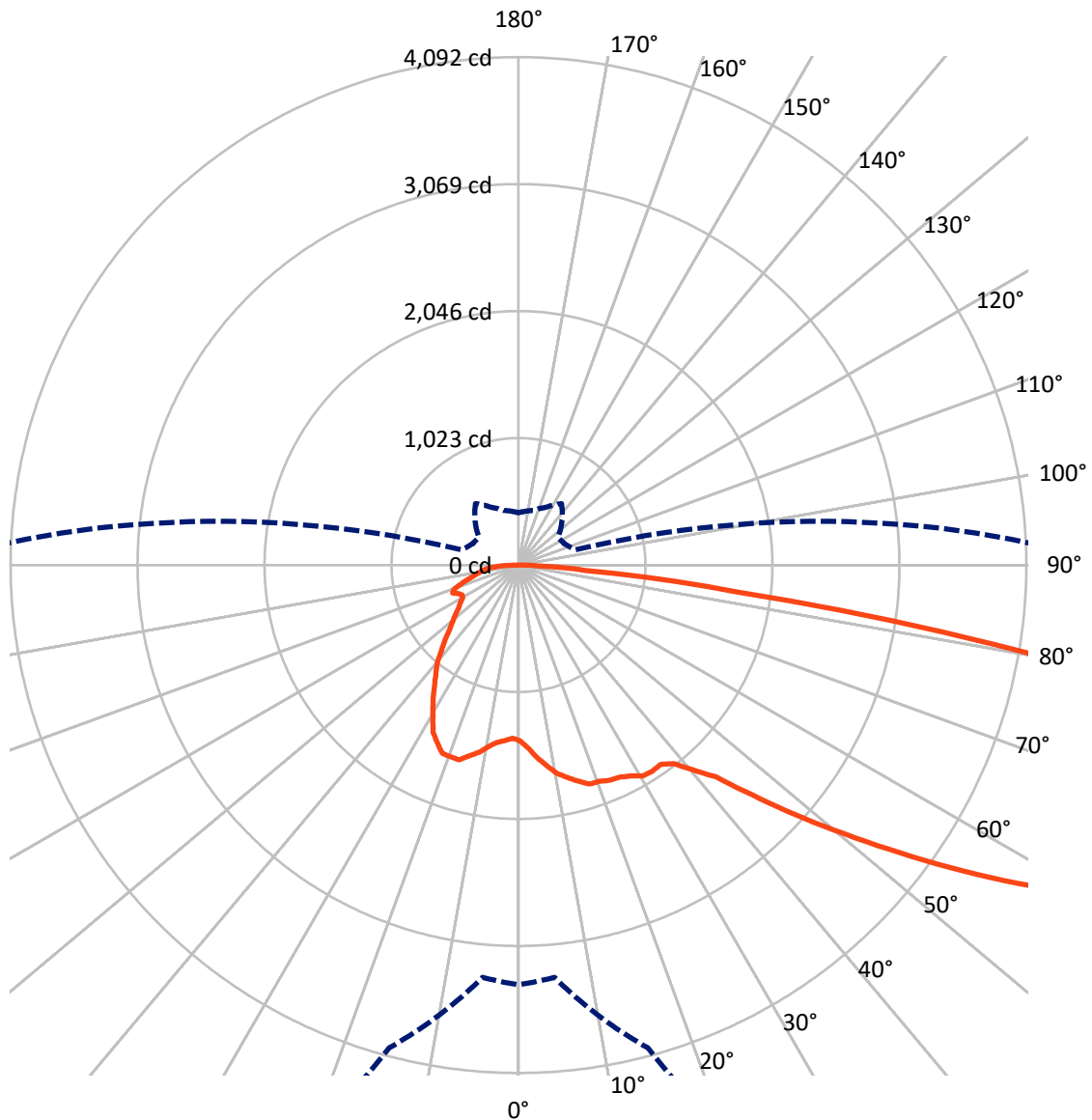
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4.5 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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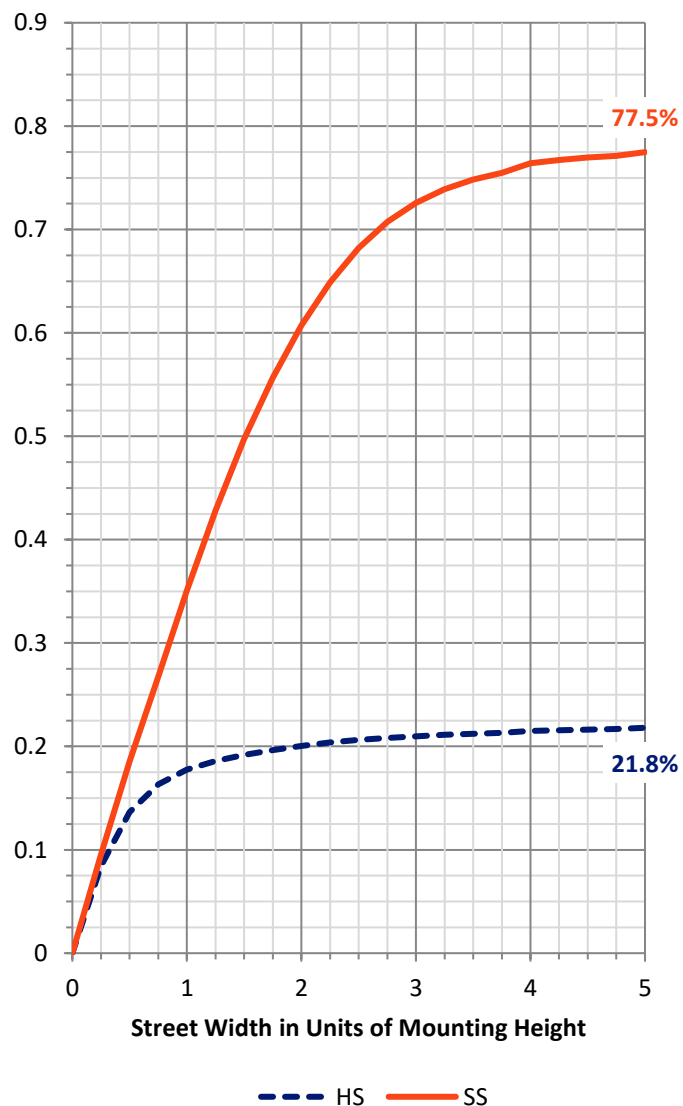
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3060.8	0.0	3060.8
	% Fixture	22.3	0.0	22.3
Street Side	Lumens	10688.9	0.0	10688.9
	% Fixture	77.7	0.0	77.7
Total	Lumens	13749.7	0.0	13749.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	144.9	1.1
10°-20°	482.1	3.5
20°-30°	814.1	5.9
30°-40°	1126.6	8.2
40°-50°	1611.4	11.7
50°-60°	2599.0	18.9
60°-70°	3833.2	27.9
70°-80°	2783.6	20.2
80°-90°	354.8	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°	13749.7	100.0
0°-180°	13749.7	100.0

Coefficient of Utilization



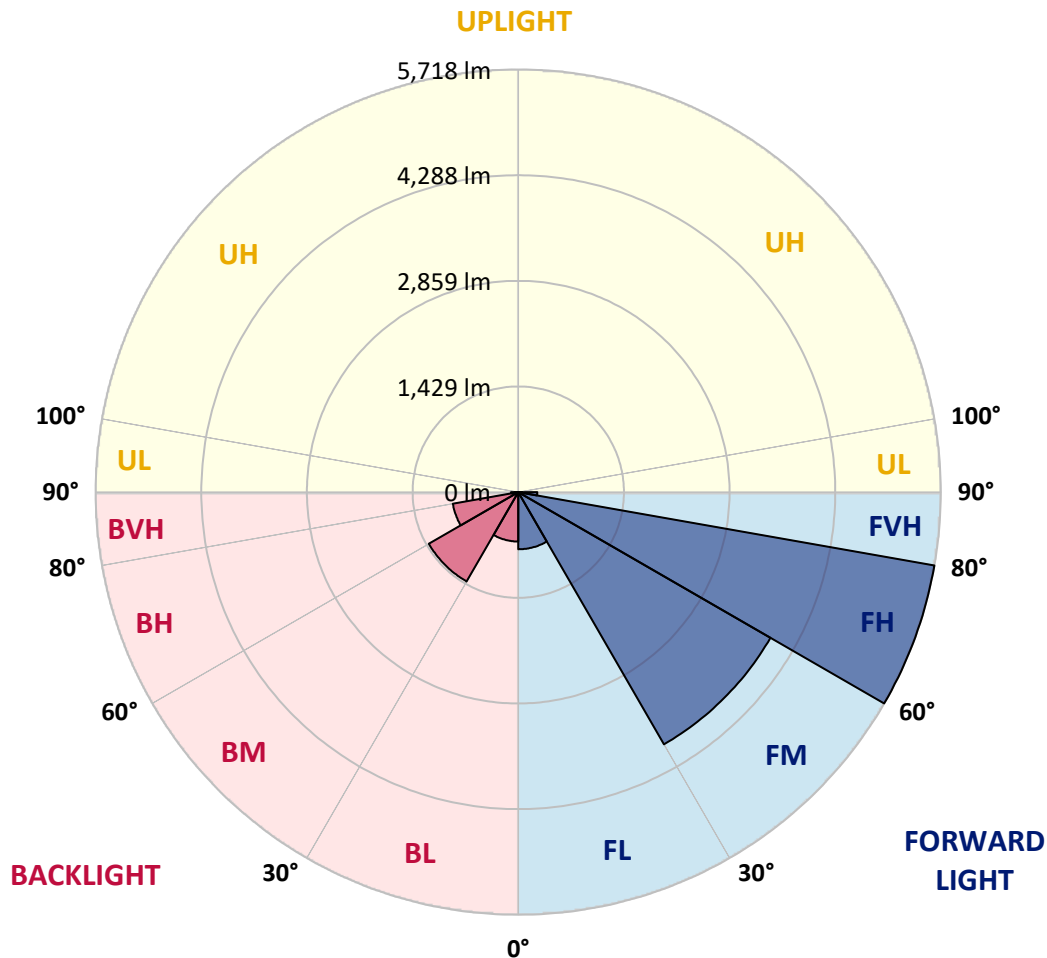
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	772.7	5.6			
FM (30°-60°)	3940.2	28.7			
FH (60°-80°)	5717.7	41.6			G3/7500
FVH (80°-90°)	258.3	1.9			G3/500
BL (0°-30°)	668.3	4.9	B2/1000		
BM (30°-60°)	1396.8	10.2	B2/2500		
BH (60°-80°)	899.1	6.5	B2/1000		G2/1000
BVH (80°-90°)	96.6	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°	1416.0	1416.0	1416.0	1416.0	1416.0	1416.0	1416.0	1416.0	1416.0	1416.0	1416.0
2.5°	1491.6	1500.5	1491.6	1490.1	1475.3	1464.9	1473.8	1460.5	1445.6	1439.7	1426.3
5°	1628.0	1629.5	1613.2	1614.7	1583.5	1550.9	1556.8	1516.8	1473.8	1457.5	1430.8
7.5°	1767.4	1751.1	1727.3	1719.9	1671.0	1635.4	1631.0	1595.4	1528.7	1491.6	1454.5
10°	1857.8	1863.7	1825.2	1792.6	1751.1	1708.1	1706.6	1639.9	1601.3	1546.4	1499.0
12.5°	1937.9	1939.4	1906.7	1854.8	1803.0	1749.6	1757.0	1727.3	1662.1	1610.2	1562.8
15°	2000.2	1991.3	1955.7	1908.2	1853.4	1811.8	1807.4	1782.2	1727.3	1684.3	1605.8
17.5°	2017.9	2013.5	1977.9	1927.5	1874.1	1843.0	1854.8	1813.3	1791.1	1752.5	1676.9
20°	1983.8	1973.5	1967.5	1911.2	1872.6	1869.7	1859.3	1868.2	1831.1	1795.5	1740.7
22.5°	1921.6	1917.1	1914.2	1869.7	1851.9	1865.2	1883.0	1896.4	1890.4	1856.3	1794.1
25°	1857.8	1878.6	1859.3	1838.5	1863.7	1897.8	1893.4	1936.4	1936.4	1926.0	1874.1
27.5°	1902.3	1888.9	1874.1	1863.7	1872.6	1926.0	1923.1	1974.9	1994.2	1974.9	1915.6
30°	2013.5	2000.2	1957.2	1911.2	1899.3	1957.2	1972.0	2017.9	2026.8	1979.4	1929.0
32.5°	2222.6	2215.1	2146.9	2012.0	1939.4	1972.0	1979.4	2031.3	2023.9	1994.2	1973.5
35°	2532.4	2507.2	2412.3	2184.0	2023.9	1991.3	1972.0	2013.5	2041.7	2026.8	2007.6
37.5°	2872.0	2843.8	2726.7	2437.5	2176.6	2043.1	2028.3	2062.4	2095.0	2087.6	2047.6
40°	3196.7	3196.7	3091.4	2754.8	2403.4	2169.2	2172.1	2133.6	2163.2	2149.9	2157.3
42.5°	3516.9	3505.1	3462.1	3127.0	2646.6	2379.7	2332.3	2235.9	2289.3	2284.8	2295.2
45°	3841.7	3832.8	3820.9	3473.9	2995.0	2664.4	2639.2	2465.7	2514.6	2493.9	2538.4
47.5°	4101.1	4111.5	4111.5	3860.9	3367.2	3044.0	3006.9	2732.6	2826.0	2836.4	2846.8
50°	4322.0	4326.5	4322.0	4230.1	3782.3	3478.4	3402.8	3124.0	3217.4	3299.0	3393.9
52.5°	4627.5	4633.4	4612.7	4577.1	4345.8	3935.1	3850.5	3540.7	3731.9	3817.9	3988.4
55°	5004.1	4959.6	4921.1	4947.7	4887.0	4437.7	4350.2	3970.6	4258.3	4372.5	4713.5
57.5°	5073.8	5112.3	5210.2	5422.2	5509.7	4927.0	4876.6	4498.5	4852.8	4952.2	5521.5
60°	5319.9	5256.1	5496.3	5956.0	6053.8	5564.5	5512.6	5076.7	5444.4	5548.2	6267.3
62.5°	5481.5	5478.5	5834.4	6380.0	6602.4	6225.8	6120.5	5828.5	6083.5	6184.3	7079.9
65°	5434.1	5477.1	6108.7	6629.1	7060.6	6977.5	6916.8	6474.9	6811.5	6802.6	7609.2
67.5°	5001.1	5122.7	5935.2	6808.5	7742.6	7893.8	7874.6	7383.8	7403.1	7214.8	7844.9
70°	4400.6	4359.1	5201.3	6621.7	8083.6	8980.7	8976.2	8059.9	7935.4	7305.2	7168.8
72°	3380.5	3334.6	4027.0	5686.1	7904.2	9415.1	9548.5	8528.4	7929.4	6930.1	5921.9
72.5°	3069.2	3029.1	3718.6	5352.5	7705.5	9527.8	9465.5	8546.2	7867.2	6753.7	5531.9
75°	1413.0	1367.0	1857.8	3276.7	6010.8	8442.4	8654.5	7997.6	6870.8	5376.2	3313.8
77.5°	421.1	407.7	597.5	1322.6	3493.2	6219.9	6301.4	6034.6	4796.5	2944.6	1229.2
80°	234.3	235.7	308.4	495.2	1536.1	3595.5	3889.1	3727.5	2353.0	972.6	409.2
82.5°	130.5	137.9	192.7	293.6	705.8	1650.2	1776.3	1712.5	851.1	456.7	223.9
85°	68.2	71.2	100.8	157.2	400.3	521.9	536.7	575.3	441.8	311.4	120.1
87.5°	26.7	26.7	37.1	65.2	148.3	161.6	145.3	176.4	253.5	201.6	59.3
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°	1416.0	1416.0	1416.0	1416.0	1416.0	1416.0	1416.0	1416.0	1416.0	1416.0	1416.0
2.5°	1438.2	1426.3	1424.9	1405.6	1411.5	1395.2	1396.7	1393.7	1395.2	1392.2	1384.8
5°	1430.8	1421.9	1396.7	1413.0	1398.2	1418.9	1435.2	1429.3	1433.8	1432.3	1433.8
7.5°	1441.2	1429.3	1426.3	1417.5	1430.8	1439.7	1453.0	1490.1	1487.1	1491.6	1500.5
10°	1472.3	1459.0	1450.1	1463.4	1456.0	1484.2	1499.0	1518.3	1552.4	1553.9	1536.1
12.5°	1533.1	1524.2	1506.4	1509.4	1534.6	1543.5	1552.4	1564.2	1586.5	1582.0	1598.3
15°	1602.8	1583.5	1573.1	1570.2	1576.1	1586.5	1585.0	1596.9	1608.7	1619.1	1614.7
17.5°	1653.2	1628.0	1631.0	1645.8	1644.3	1641.3	1622.1	1616.1	1622.1	1628.0	1625.0
20°	1705.1	1708.1	1685.8	1672.5	1666.5	1636.9	1622.1	1604.3	1586.5	1595.4	1608.7
22.5°	1770.3	1757.0	1724.4	1684.3	1654.7	1636.9	1590.9	1559.8	1559.8	1568.7	1564.2
25°	1844.5	1816.3	1760.0	1687.3	1650.2	1574.6	1542.0	1537.6	1525.7	1539.0	1545.0
27.5°	1902.3	1877.1	1800.0	1676.9	1574.6	1513.8	1494.6	1488.6	1507.9	1509.4	1533.1
30°	1926.0	1918.6	1805.9	1650.2	1497.5	1399.7	1387.8	1414.5	1435.2	1466.4	1467.9
32.5°	1957.2	1960.1	1814.8	1588.0	1396.7	1298.8	1281.0	1313.7	1373.0	1398.2	1417.5
35°	2009.0	2023.9	1807.4	1510.9	1289.9	1196.5	1193.6	1202.5	1260.3	1304.8	1330.0
37.5°	2099.5	2096.5	1805.9	1418.9	1205.4	1107.6	1083.8	1086.8	1125.4	1162.4	1158.0
40°	2221.1	2209.2	1801.5	1298.8	1095.7	1032.0	991.9	977.1	974.1	963.7	966.7
42.5°	2387.1	2363.4	1800.0	1177.3	996.4	928.2	900.0	861.4	833.3	779.9	782.9
45°	2618.4	2576.9	1761.4	1063.1	898.5	842.2	799.2	771.0	710.2	643.5	643.5
47.5°	2975.8	2840.8	1762.9	937.1	803.6	757.7	728.0	679.1	613.8	560.5	554.5
50°	3502.1	3193.7	1712.5	837.7	726.5	695.4	664.2	607.9	545.6	508.6	513.0
52.5°	4181.2	3720.1	1711.0	748.8	665.7	643.5	609.4	559.0	513.0	489.3	480.4
55°	4990.7	4416.9	1764.4	676.1	603.5	591.6	576.8	535.3	490.8	470.0	468.5
57.5°	5819.6	5097.5	1850.4	624.2	550.1	559.0	548.6	516.0	480.4	456.7	453.7
60°	6556.5	5637.2	1676.9	561.9	502.6	521.9	536.7	508.6	489.3	487.8	477.4
62.5°	7112.5	5868.5	1275.1	514.5	477.4	513.0	553.0	570.8	561.9	573.8	575.3
65°	7315.6	5729.1	877.8	489.3	458.2	533.8	622.7	616.8	564.9	542.7	554.5
67.5°	7030.9	5164.2	650.9	459.6	444.8	576.8	662.8	588.6	510.0	507.1	498.2
70°	6046.4	4376.9	530.8	428.5	422.6	553.0	645.0	545.6	480.4	461.1	452.2
72°	4817.3	3408.7	465.6	406.3	387.0	493.7	603.5	511.5	455.2	431.5	421.1
72.5°	4397.7	3159.6	456.7	395.9	379.6	480.4	582.7	501.1	449.3	428.5	412.2
75°	2412.3	1617.6	401.8	363.3	320.3	415.2	539.7	470.0	424.0	394.4	391.4
77.5°	897.0	627.2	346.9	321.7	277.3	358.8	490.8	446.3	385.5	348.4	341.0
80°	344.0	330.6	283.2	271.3	232.8	314.3	452.2	400.3	327.7	290.6	278.7
82.5°	209.1	192.7	215.0	212.0	177.9	286.2	425.5	375.1	290.6	235.7	228.3
85°	114.2	114.2	149.8	143.8	124.5	228.3	321.7	249.1	183.9	151.2	154.2
87.5°	50.4	59.3	80.1	75.6	68.2	129.0	157.2	132.0	91.9	62.3	66.7
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)