

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: P478543

Luminaire Tested: **IFLD-S-SA2C-740-U-T4W**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P478543
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2C-740-U-T4W
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4W distribution lens
Light Source: (32) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

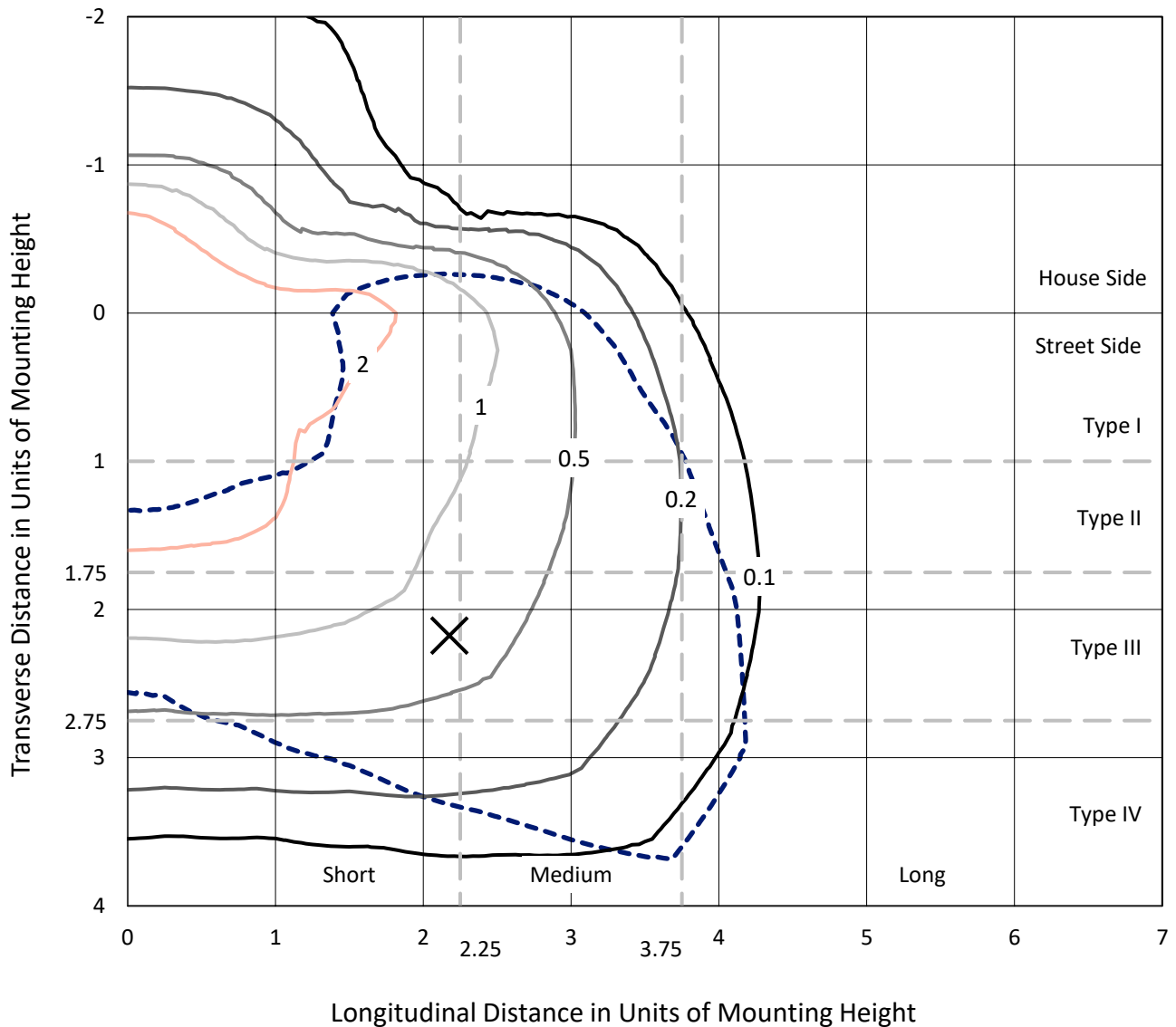
Lumens per Lamp: N/A
Luminaire Lumens: 14366.6 lumens
Efficiency: N/A
Efficacy: 132.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

Input Watts (W): 108.2
Input Voltage (V): 120
Input Current (A_{in}): 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: P478543
 CATALOG NUMBER: IFLD-S-SA2C-740-U-T4W

Iso-Footcandle Lines of Horizontal Illumination

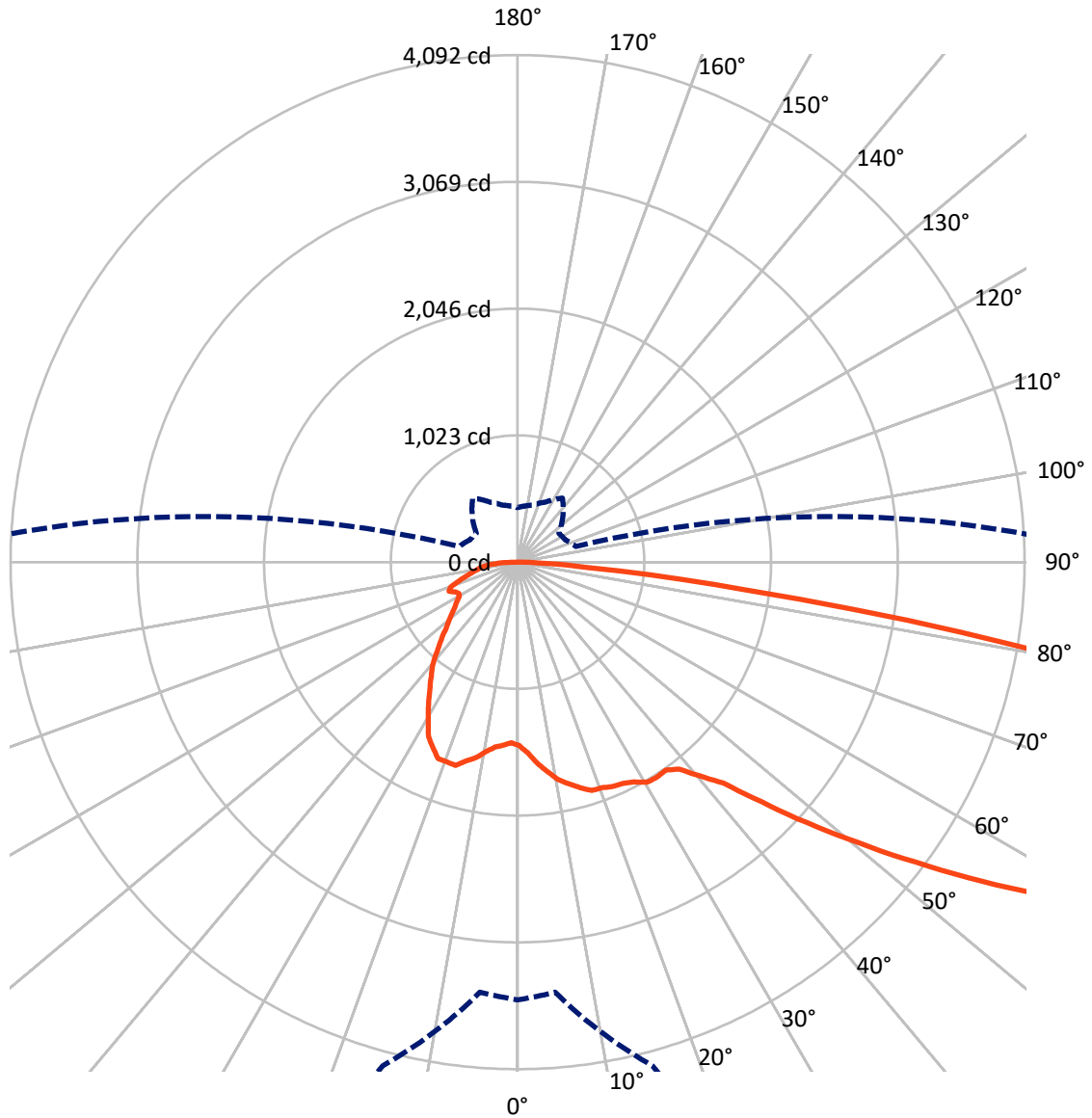
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4.7 fc
 Type IV - Short - N/A

REPORT NUMBER: P478543
CATALOG NUMBER: IFLD-S-SA2C-740-U-T4W

Luminous Intensity Polar Plot



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

REPORT NUMBER: P478543
 CATALOG NUMBER: IFLD-S-SA2C-740-U-T4W

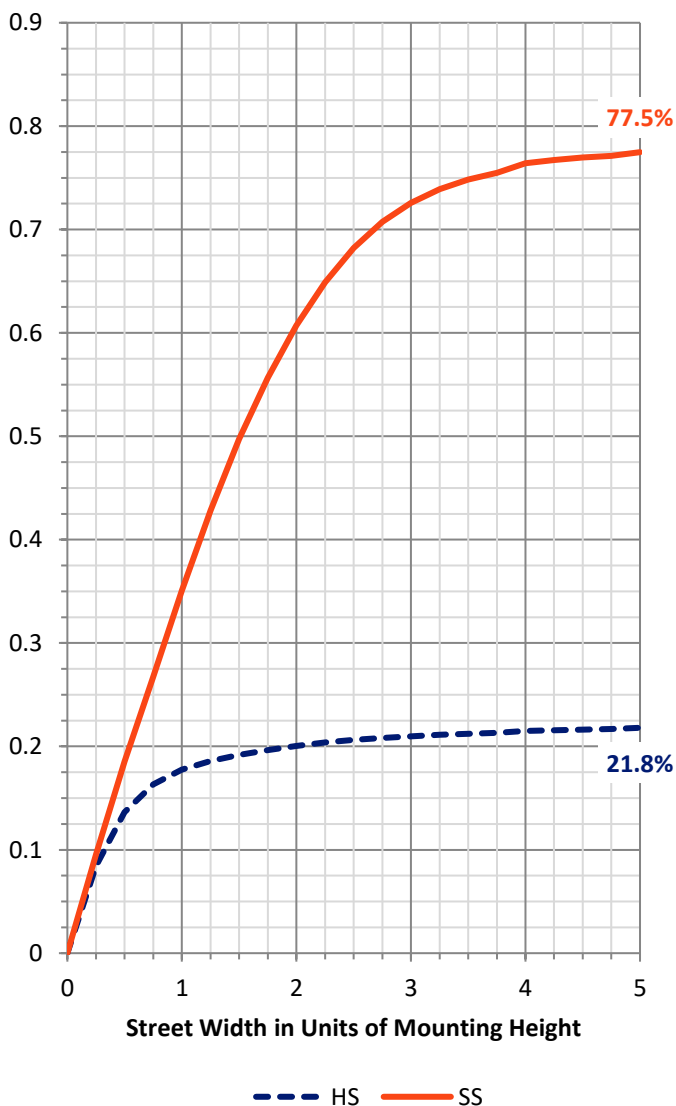
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3198.1	0.0	3198.1
	% Fixture	22.3	0.0	22.3
Street Side	Lumens	11168.5	0.0	11168.5
	% Fixture	77.7	0.0	77.7
Total	Lumens	14366.6	0.0	14366.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	151.4	1.1
10°-20°	503.7	3.5
20°-30°	850.6	5.9
30°-40°	1177.1	8.2
40°-50°	1683.7	11.7
50°-60°	2715.7	18.9
60°-70°	4005.2	27.9
70°-80°	2908.5	20.2
80°-90°	370.8	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°	14366.6	100.0
0°-180°	14366.6	100.0



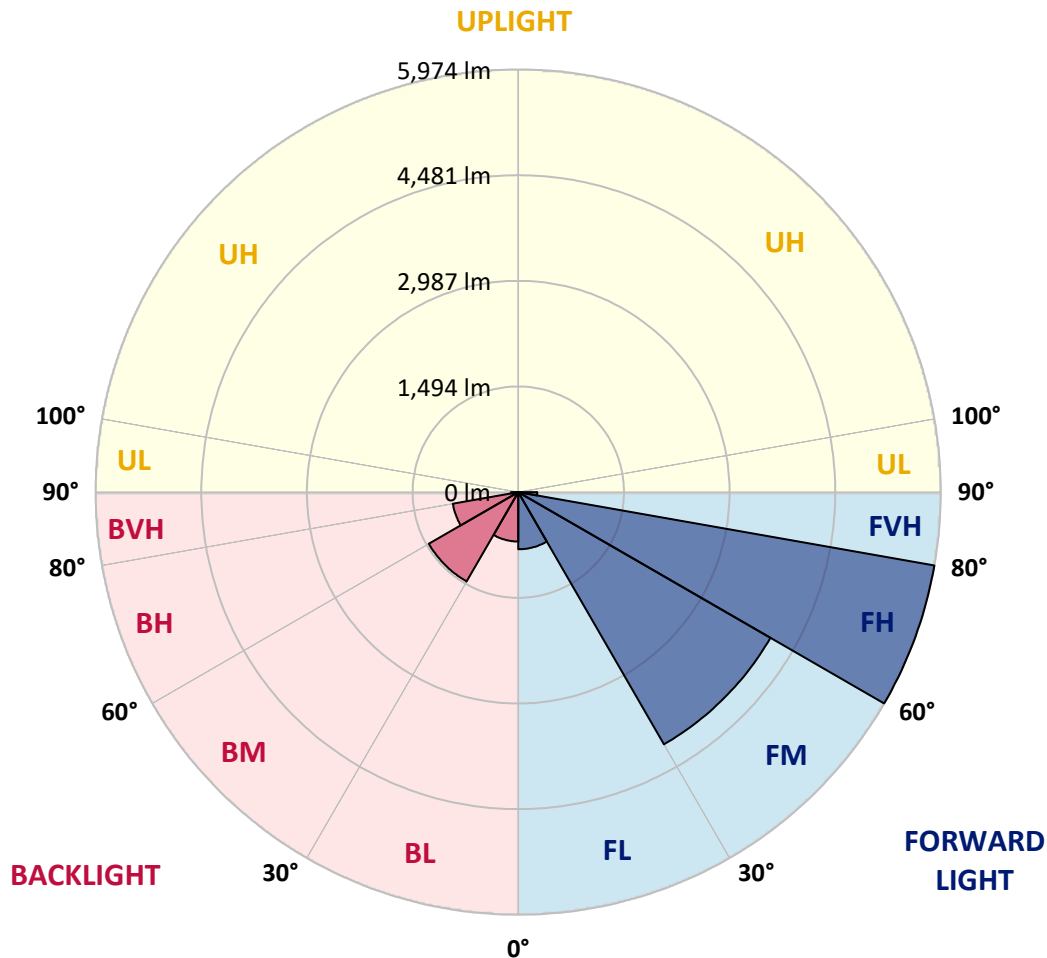
REPORT NUMBER: P478543
 CATALOG NUMBER: IFLD-S-SA2C-740-U-T4W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	807.4	5.6			
FM (30°-60°)	4117.0	28.7			
FH (60°-80°)	5974.3	41.6			G3/7500
FVH (80°-90°)	269.9	1.9			G3/500
BL (0°-30°)	698.3	4.9	B2/1000		
BM (30°-60°)	1459.5	10.2	B2/2500		
BH (60°-80°)	939.4	6.5	B2/1000		G2/1000
BVH (80°-90°)	100.9	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: P478543

CATALOG NUMBER: IFLD-S-SA2C-740-U-T4W

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	1479.5	1479.5	1479.5	1479.5	1479.5	1479.5	1479.5	1479.5	1479.5	1479.5	1479.5
2.5°	1558.5	1567.8	1558.5	1557.0	1541.5	1530.6	1539.9	1526.0	1510.5	1504.3	1490.3
5°	1701.0	1702.6	1685.5	1687.1	1654.6	1620.5	1626.7	1584.8	1539.9	1522.9	1495.0
7.5°	1846.7	1829.6	1804.8	1797.1	1746.0	1708.8	1704.1	1667.0	1597.2	1558.5	1519.8
10°	1941.2	1947.4	1907.1	1873.0	1829.6	1784.7	1783.1	1713.4	1673.2	1615.8	1566.3
12.5°	2024.8	2026.4	1992.3	1938.1	1883.8	1828.1	1835.8	1804.8	1736.7	1682.4	1632.9
15°	2089.9	2080.6	2043.4	1993.8	1936.5	1893.1	1888.5	1862.2	1804.8	1759.9	1677.8
17.5°	2108.5	2103.8	2066.7	2014.0	1958.2	1925.7	1938.1	1894.7	1871.5	1831.2	1752.2
20°	2072.9	2062.0	2055.8	1996.9	1956.7	1953.6	1942.7	1952.0	1913.3	1876.1	1818.8
22.5°	2007.8	2003.1	2000.0	1953.6	1935.0	1948.9	1967.5	1981.4	1975.3	1939.6	1874.6
25°	1941.2	1962.9	1942.7	1921.0	1947.4	1983.0	1978.3	2023.3	2023.3	2012.4	1958.2
27.5°	1987.6	1973.7	1958.2	1947.4	1956.7	2012.4	2009.3	2063.6	2083.7	2063.6	2001.6
30°	2103.8	2089.9	2045.0	1996.9	1984.5	2045.0	2060.5	2108.5	2117.8	2068.2	2015.5
32.5°	2322.3	2314.5	2243.3	2102.3	2026.4	2060.5	2068.2	2122.4	2114.7	2083.7	2062.0
35°	2646.1	2619.7	2520.6	2282.0	2114.7	2080.6	2060.5	2103.8	2133.3	2117.8	2097.6
37.5°	3000.8	2971.4	2849.0	2546.9	2274.2	2134.8	2119.3	2155.0	2189.0	2181.3	2139.5
40°	3340.1	3340.1	3230.1	2878.4	2511.3	2266.5	2269.6	2229.3	2260.3	2246.4	2254.1
42.5°	3674.7	3662.3	3617.4	3267.3	2765.4	2486.5	2436.9	2336.2	2392.0	2387.3	2398.2
45°	4014.0	4004.7	3992.3	3629.8	3129.4	2783.9	2757.6	2576.3	2627.5	2605.8	2652.3
47.5°	4285.1	4296.0	4296.0	4034.2	3518.3	3180.5	3141.8	2855.2	2952.8	2963.7	2974.5
50°	4516.0	4520.6	4516.0	4419.9	3952.1	3634.5	3555.5	3264.2	3361.8	3447.0	3546.2
52.5°	4835.1	4841.3	4819.6	4782.4	4540.8	4111.6	4023.3	3699.5	3899.4	3989.2	4167.4
55°	5228.6	5182.1	5141.8	5169.7	5106.2	4636.8	4545.4	4148.8	4449.3	4568.6	4925.0
57.5°	5301.4	5341.7	5443.9	5665.5	5756.9	5148.0	5095.4	4700.3	5070.6	5174.4	5769.3
60°	5558.6	5492.0	5742.9	6223.2	6325.5	5814.2	5760.0	5304.5	5688.7	5797.2	6548.5
62.5°	5727.5	5724.4	6096.2	6666.3	6898.7	6505.2	6395.2	6090.0	6356.4	6461.8	7397.5
65°	5677.9	5722.8	6382.8	6926.5	7377.4	7290.6	7227.1	6765.4	7117.1	7107.8	7950.6
67.5°	5225.5	5352.5	6201.5	7114.0	8090.0	8248.0	8227.9	7715.1	7735.2	7538.5	8196.9
70°	4598.1	4554.7	5434.7	6918.8	8446.3	9383.6	9379.0	8421.5	8291.4	7633.0	7490.5
72°	3532.2	3484.2	4207.7	5941.2	8258.9	9837.5	9977.0	8911.1	8285.2	7241.0	6187.6
72.5°	3206.9	3165.0	3885.4	5592.7	8051.3	9955.3	9890.2	8929.7	8220.1	7056.7	5780.1
75°	1476.4	1428.4	1941.2	3423.8	6280.5	8821.2	9042.8	8356.5	7179.1	5617.5	3462.5
77.5°	440.0	426.0	624.3	1381.9	3650.0	6499.0	6584.2	6305.3	5011.7	3076.7	1284.3
80°	244.8	246.3	322.2	517.4	1605.0	3756.8	4063.6	3894.7	2458.6	1016.3	427.6
82.5°	136.3	144.1	201.4	306.7	737.4	1724.3	1856.0	1789.3	889.3	477.2	233.9
85°	71.3	74.4	105.3	164.2	418.3	545.3	560.8	601.1	461.7	325.3	125.5
87.5°	27.9	27.9	38.7	68.2	154.9	168.9	151.8	184.4	264.9	210.7	62.0
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°	1479.5	1479.5	1479.5	1479.5	1479.5	1479.5	1479.5	1479.5	1479.5	1479.5	1479.5
2.5°	1502.7	1490.3	1488.8	1468.7	1474.9	1457.8	1459.4	1456.3	1457.8	1454.7	1447.0
5°	1495.0	1485.7	1459.4	1476.4	1460.9	1482.6	1499.6	1493.4	1498.1	1496.5	1498.1
7.5°	1505.8	1493.4	1490.3	1481.1	1495.0	1504.3	1518.2	1557.0	1553.9	1558.5	1567.8
10°	1538.4	1524.4	1515.1	1529.1	1521.3	1550.8	1566.3	1586.4	1622.0	1623.6	1605.0
12.5°	1601.9	1592.6	1574.0	1577.1	1603.4	1612.7	1622.0	1634.4	1657.7	1653.0	1670.1
15°	1674.7	1654.6	1643.7	1640.6	1646.8	1657.7	1656.1	1668.5	1680.9	1691.7	1687.1
17.5°	1727.4	1701.0	1704.1	1719.6	1718.1	1715.0	1694.8	1688.6	1694.8	1701.0	1697.9
20°	1781.6	1784.7	1761.5	1747.5	1741.3	1710.3	1694.8	1676.3	1657.7	1667.0	1680.9
22.5°	1849.8	1835.8	1801.7	1759.9	1728.9	1710.3	1662.3	1629.8	1629.8	1639.1	1634.4
25°	1927.2	1897.8	1838.9	1763.0	1724.3	1645.3	1611.2	1606.5	1594.1	1608.1	1614.3
27.5°	1987.6	1961.3	1880.7	1752.2	1645.3	1581.7	1561.6	1555.4	1575.6	1577.1	1601.9
30°	2012.4	2004.7	1886.9	1724.3	1564.7	1462.5	1450.1	1478.0	1499.6	1532.2	1533.7
32.5°	2045.0	2048.1	1896.2	1659.2	1459.4	1357.1	1338.5	1372.6	1434.6	1460.9	1481.1
35°	2099.2	2114.7	1888.5	1578.7	1347.8	1250.2	1247.1	1256.4	1316.8	1363.3	1389.6
37.5°	2193.7	2190.6	1886.9	1482.6	1259.5	1157.3	1132.5	1135.6	1175.9	1214.6	1209.9
40°	2320.7	2308.3	1882.3	1357.1	1144.9	1078.3	1036.4	1020.9	1017.8	1007.0	1010.1
42.5°	2494.2	2469.5	1880.7	1230.1	1041.1	969.8	940.4	900.1	870.7	814.9	818.0
45°	2735.9	2692.5	1840.5	1110.8	938.8	880.0	835.0	805.6	742.1	672.4	672.4
47.5°	3109.3	2968.3	1842.0	979.1	839.7	791.6	760.7	709.5	641.4	585.6	579.4
50°	3659.2	3337.0	1789.3	875.3	759.1	726.6	694.0	635.2	570.1	531.4	536.0
52.5°	4368.8	3887.0	1787.8	782.4	695.6	672.4	636.7	584.1	536.0	511.2	501.9
55°	5214.7	4615.1	1843.6	706.4	630.5	618.1	602.6	559.3	512.8	491.1	489.6
57.5°	6080.7	5326.2	1933.4	652.2	574.8	584.1	573.2	539.1	501.9	477.2	474.1
60°	6850.6	5890.1	1752.2	587.2	525.2	545.3	560.8	531.4	511.2	509.7	498.8
62.5°	7431.6	6131.8	1332.3	537.6	498.8	536.0	577.9	596.4	587.2	599.5	601.1
65°	7643.8	5986.2	917.1	511.2	478.7	557.7	650.7	644.5	590.3	567.0	579.4
67.5°	7346.4	5395.9	680.1	480.3	464.8	602.6	692.5	615.0	532.9	529.8	520.5
70°	6317.7	4573.3	554.6	447.7	441.5	577.9	673.9	570.1	501.9	481.8	472.5
72°	5033.4	3561.6	486.5	424.5	404.3	515.9	630.5	534.5	475.6	450.8	440.0
72.5°	4595.0	3301.4	477.2	413.6	396.6	501.9	608.8	523.6	469.4	447.7	430.7
75°	2520.6	1690.2	419.8	379.6	334.6	433.8	563.9	491.1	443.1	412.1	409.0
77.5°	937.3	655.3	362.5	336.2	289.7	374.9	512.8	466.3	402.8	364.1	356.3
80°	359.4	345.5	295.9	283.5	243.2	328.4	472.5	418.3	342.4	303.6	291.3
82.5°	218.4	201.4	224.6	221.5	185.9	299.0	444.6	392.0	303.6	246.3	238.6
85°	119.3	119.3	156.5	150.3	130.1	238.6	336.2	260.3	192.1	158.0	161.1
87.5°	52.7	62.0	83.7	79.0	71.3	134.8	164.2	137.9	96.1	65.1	69.7
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)