

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: P478001

Luminaire Tested: **IFLD-S-SA3B-722-U-T4FT**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P478001  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA3B-722-U-T4FT  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4FT distribution lens  
Light Source: (48) 2200K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

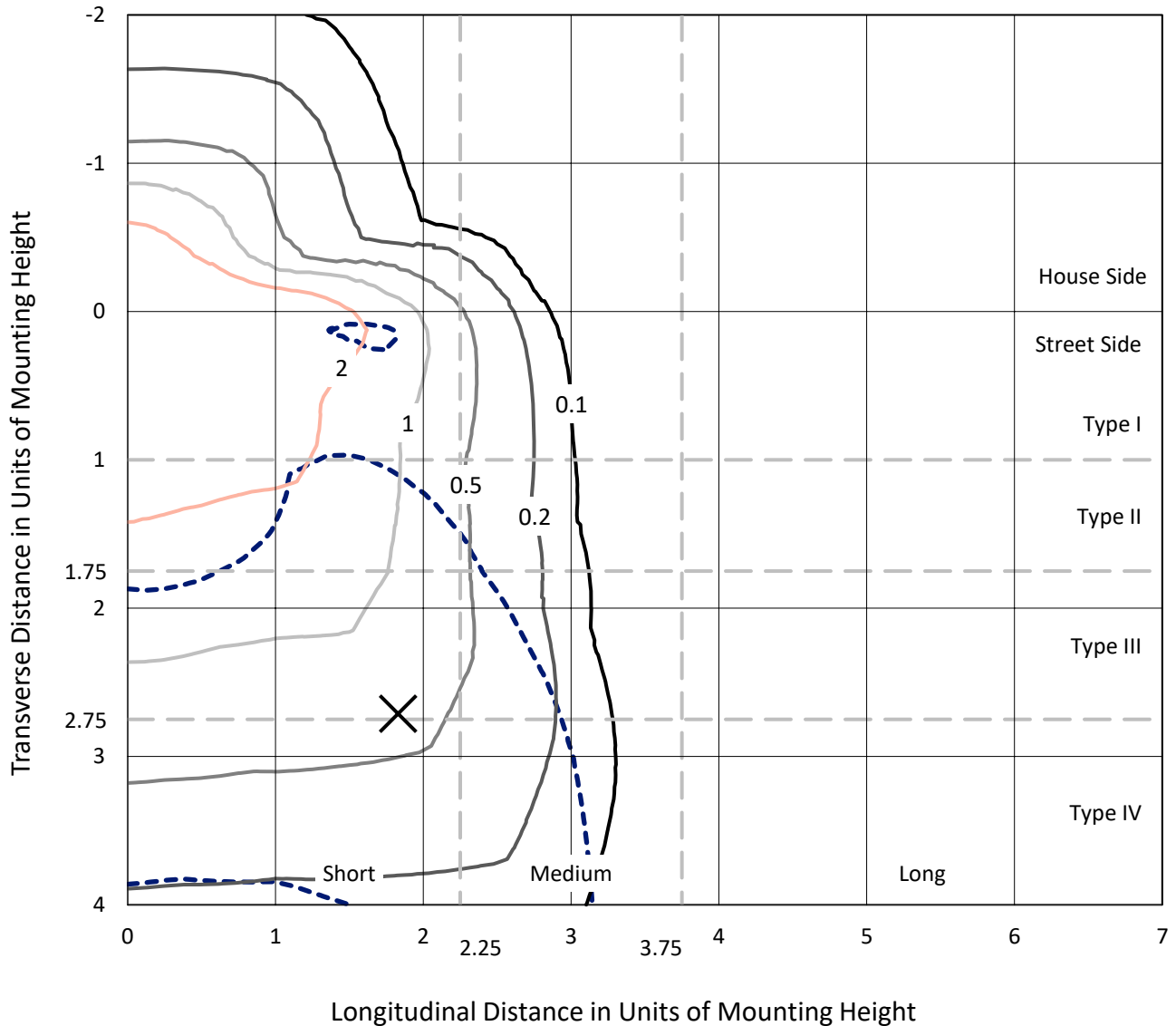
Lumens per Lamp: N/A  
Luminaire Lumens: 12840.9 lumens  
Efficiency: N/A  
Efficacy: 104.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G3

Input Watts (W): 122.4  
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

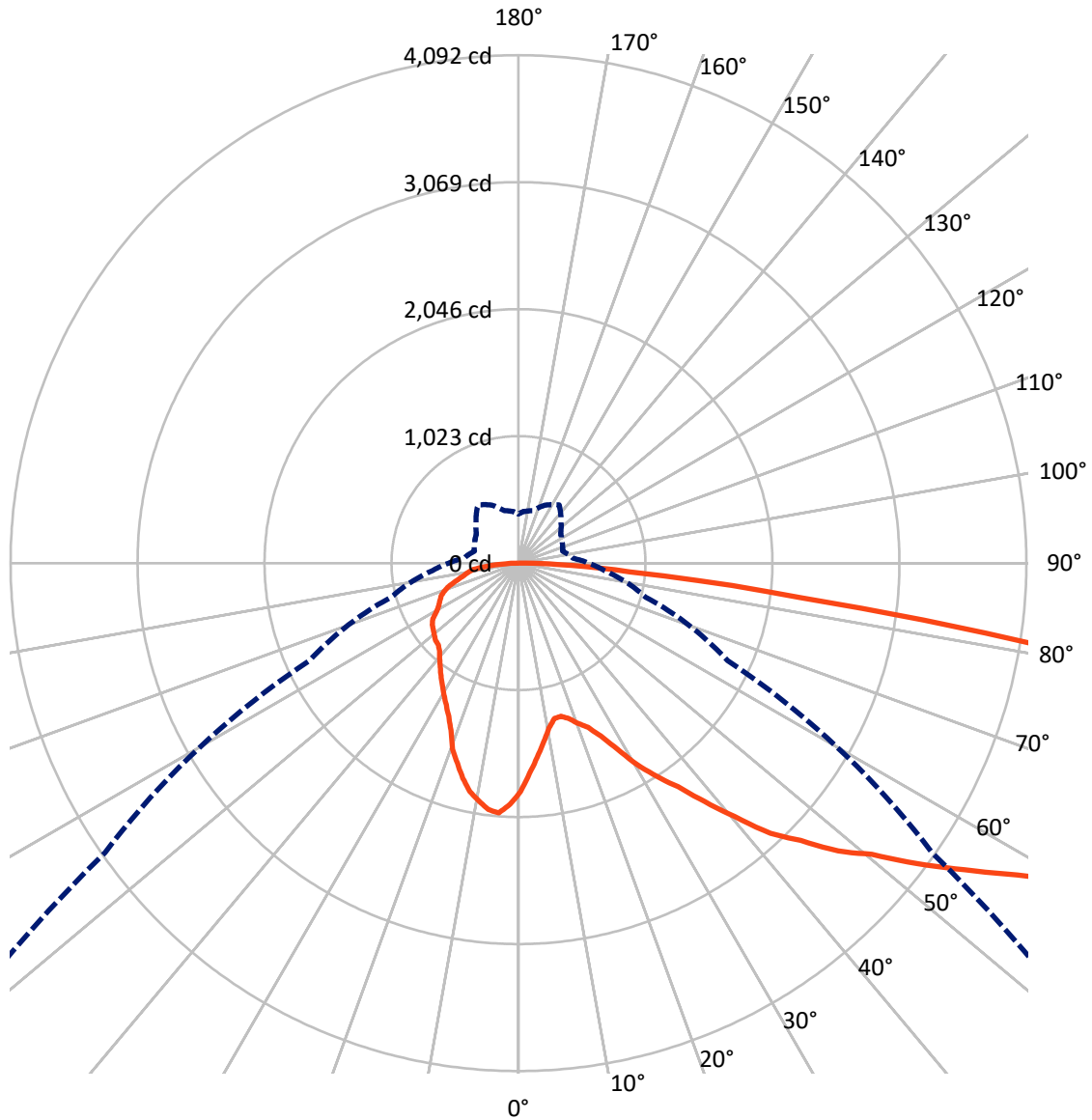
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4.8 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 34-Deg Lateral    - - - Horizontal Cone Through 73-Deg Vertical

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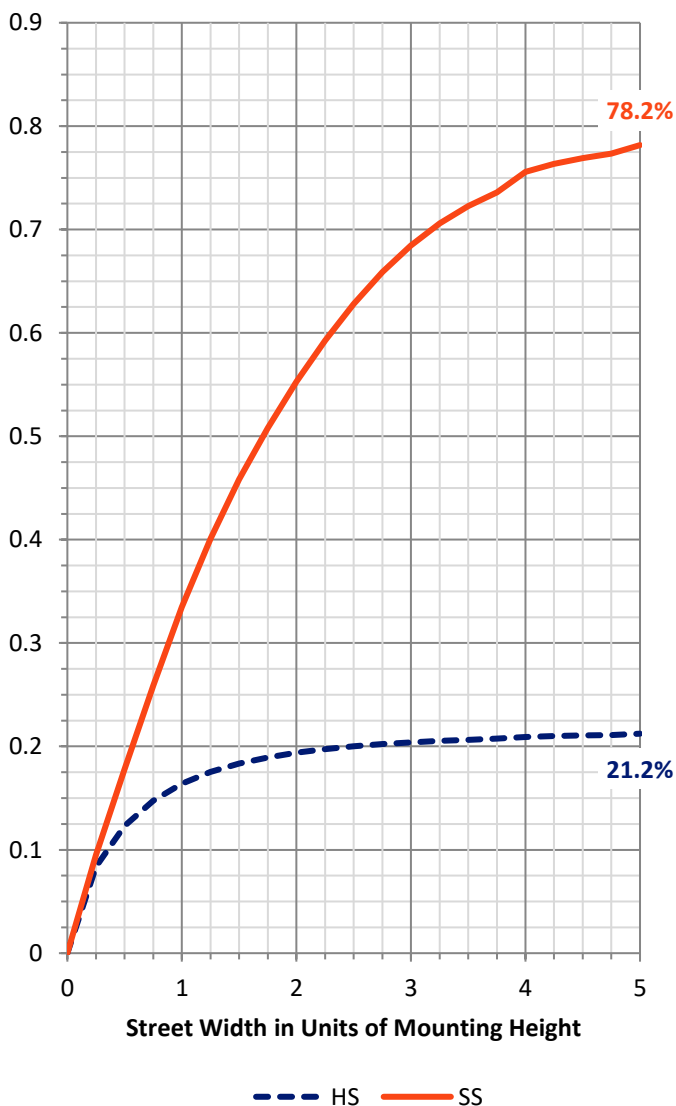
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2773.8	0.0	2773.8
	% Fixture	21.6	0.0	21.6
<b>Street Side</b>	Lumens	10067.1	0.0	10067.1
	% Fixture	78.4	0.0	78.4
<b>Total</b>	Lumens	12840.9	0.0	12840.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	169.9	1.3
10°-20°	475.5	3.7
20°-30°	782.6	6.1
30°-40°	1170.4	9.1
40°-50°	1735.1	13.5
50°-60°	2500.4	19.5
60°-70°	3190.8	24.8
70°-80°	2483.0	19.3
80°-90°	333.1	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°	12840.9	100.0
0°-180°	12840.9	100.0

**Coefficient of Utilization**



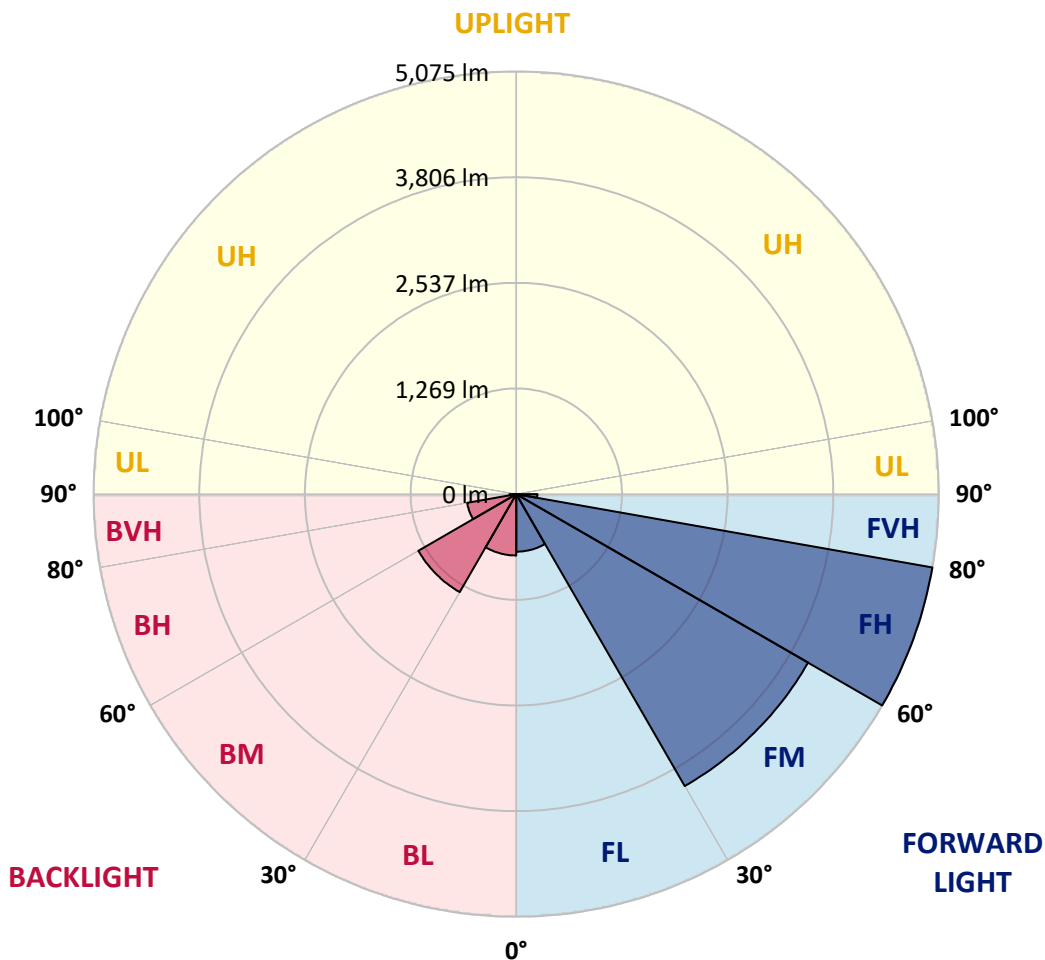
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	691.1	5.4			
FM (30°-60°)	4047.5	31.5			
FH (60°-80°)	5074.9	39.5			G3/7500
FVH (80°-90°)	253.6	2.0			G3/500
BL (0°-30°)	737.0	5.7	B2/1000		
BM (30°-60°)	1358.3	10.6	B2/2500		
BH (60°-80°)	598.9	4.7	B2/1000		G2/1000
BVH (80°-90°)	79.6	0.6			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°	34°	35°	45°	55°	65°	75°	85°
0°	1840.9	1840.9	1840.9	1840.9	1840.9	1840.9	1840.9	1840.9	1840.9	1840.9	1840.9
2.5°	1649.5	1654.9	1672.6	1676.7	1695.7	1684.8	1707.9	1748.6	1771.7	1805.6	1846.4
5°	1519.2	1496.1	1507.0	1549.0	1570.8	1576.2	1600.6	1669.9	1713.3	1763.6	1839.6
7.5°	1365.8	1361.7	1383.4	1410.6	1454.0	1458.1	1512.4	1573.5	1663.1	1774.4	1864.0
10°	1261.2	1278.9	1291.1	1319.6	1349.5	1349.5	1418.7	1524.6	1626.4	1733.7	1869.4
12.5°	1255.8	1244.9	1247.7	1262.6	1284.3	1311.5	1376.6	1471.7	1600.6	1725.5	1892.5
15°	1273.5	1277.5	1253.1	1272.1	1280.2	1289.7	1361.7	1468.9	1584.3	1754.1	1931.9
17.5°	1367.1	1344.0	1306.0	1288.4	1316.9	1316.9	1365.8	1449.9	1587.1	1769.0	1988.9
20°	1440.4	1440.4	1378.0	1359.0	1379.3	1375.3	1409.2	1471.7	1600.6	1798.9	2052.7
22.5°	1564.0	1581.6	1478.5	1439.1	1437.7	1448.6	1478.5	1531.4	1638.7	1840.9	2113.8
25°	1741.8	1745.9	1626.4	1585.7	1542.3	1559.9	1565.3	1618.3	1672.6	1889.8	2183.1
27.5°	1940.0	1937.3	1827.4	1725.5	1697.0	1701.1	1671.2	1706.5	1722.8	1904.7	2282.2
30°	2160.0	2135.5	2052.7	1908.8	1885.7	1859.9	1794.8	1793.4	1827.4	1988.9	2419.3
32.5°	2303.9	2272.7	2215.6	2112.5	2048.7	2051.4	1948.2	1946.8	1917.0	2081.2	2538.8
35°	2445.1	2397.6	2382.6	2276.7	2212.9	2219.7	2136.9	2126.0	2071.7	2221.1	2735.6
37.5°	2614.8	2572.7	2595.8	2515.7	2436.9	2404.4	2366.3	2352.8	2282.2	2417.9	3004.4
40°	2802.1	2788.6	2773.6	2734.3	2686.7	2689.5	2648.7	2635.1	2530.6	2655.5	3262.4
42.5°	3054.7	3003.1	2925.7	2951.5	2975.9	3001.7	2988.1	2952.8	2844.2	2897.2	3550.2
45°	3289.5	3221.6	3079.1	3087.2	3187.7	3208.1	3372.3	3368.3	3149.7	3204.0	3877.4
47.5°	3448.4	3417.1	3331.6	3322.1	3466.0	3464.7	3760.6	3760.6	3471.4	3509.5	4229.0
50°	3684.6	3603.1	3566.5	3614.0	3687.3	3737.5	4157.0	4182.8	3787.8	3828.5	4689.2
52.5°	3961.5	3859.7	3767.4	3889.6	4019.9	4052.5	4549.4	4538.5	4030.8	4199.1	5228.2
55°	4191.0	4139.4	4075.6	4146.2	4359.3	4400.1	4943.1	4842.6	4273.8	4506.0	5487.5
57.5°	4458.4	4489.7	4503.2	4485.6	4739.5	4803.3	5392.5	5104.7	4482.9	4712.3	5639.6
60°	4861.7	4880.7	4898.3	4940.4	5209.2	5298.8	5748.2	5433.2	4614.6	4831.8	5651.8
62.5°	5475.3	5402.0	5441.4	5586.6	5802.5	5904.3	6272.2	5664.0	4715.0	4903.7	5252.6
65°	6177.2	6078.1	6037.4	6224.7	6784.0	6702.6	6926.6	5836.4	4569.8	4634.9	4454.4
67.5°	6888.6	6899.4	6794.9	7171.0	7856.6	7856.6	7534.8	5919.2	4176.1	3756.5	3123.9
70°	7453.4	7487.3	7544.3	8273.4	9359.5	9523.7	8288.3	5579.8	3373.7	2500.7	1707.9
72.5°	7445.2	7343.4	7635.3	8978.0	10725.2	10588.1	8445.8	4412.3	2105.7	1224.6	783.3
73°	7278.2	7192.7	7511.7	8971.2	10780.9	10651.9	8330.4	4067.4	1857.2	1061.7	696.5
75°	5943.7	5788.9	6332.0	8125.4	9974.5	10073.6	7077.3	2652.8	1018.2	654.4	490.1
77.5°	2709.8	2777.7	3485.0	5450.9	7686.9	7803.6	4652.6	1147.2	558.0	458.9	361.1
80°	870.2	913.7	1356.3	2709.8	4818.2	5028.6	2150.5	521.3	397.8	351.6	270.2
82.5°	332.6	331.3	568.8	1126.8	2283.5	2417.9	786.1	317.7	296.0	259.3	191.4
85°	116.8	122.2	214.5	445.3	898.7	940.8	272.9	176.5	205.0	173.8	110.0
87.5°	40.7	42.1	76.0	161.6	309.5	327.2	76.0	70.6	101.8	100.5	55.7
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°	1840.9	1840.9	1840.9	1840.9	1840.9	1840.9	1840.9	1840.9	1840.9	1840.9	1840.9
2.5°	1859.9	1872.2	1876.2	1925.1	1925.1	1925.1	1944.1	1944.1	1938.7	1925.1	1957.7
5°	1868.1	1889.8	1931.9	1974.0	1984.8	1994.4	2020.1	1998.4	2006.6	1993.0	2005.2
7.5°	1891.2	1921.0	1999.8	2025.6	2007.9	2028.3	2001.1	1986.2	1971.3	1976.7	1957.7
10°	1930.5	1968.6	2005.2	2052.7	2018.8	1998.4	1942.8	1929.2	1881.7	1865.4	1880.3
12.5°	1979.4	2025.6	2088.0	2070.4	2005.2	1946.8	1887.1	1830.1	1801.6	1760.8	1771.7
15°	2028.3	2081.2	2090.7	2060.9	1979.4	1906.1	1797.5	1717.4	1688.9	1652.2	1671.2
17.5°	2081.2	2131.5	2115.2	2037.8	1927.8	1816.5	1693.0	1614.2	1554.5	1531.4	1531.4
20°	2160.0	2184.4	2158.6	1999.8	1865.4	1718.8	1599.3	1509.7	1449.9	1440.4	1425.5
22.5°	2221.1	2260.4	2145.0	1944.1	1774.4	1591.1	1454.0	1420.1	1402.4	1387.5	1368.5
25°	2299.8	2298.5	2120.6	1892.5	1618.3	1439.1	1356.3	1353.6	1345.4	1340.0	1365.8
27.5°	2374.5	2343.3	2092.1	1764.9	1456.7	1323.7	1278.9	1308.7	1321.0	1312.8	1323.7
30°	2492.6	2441.0	2051.4	1629.1	1314.2	1206.9	1215.1	1255.8	1276.2	1288.4	1272.1
32.5°	2617.5	2538.8	1967.2	1488.0	1187.9	1133.6	1152.6	1194.7	1219.1	1232.7	1247.7
35°	2798.1	2614.8	1881.7	1303.3	1097.0	1088.8	1099.7	1122.8	1158.1	1167.6	1171.6
37.5°	3020.7	2730.2	1766.3	1155.3	1026.4	1035.9	1046.7	1054.9	1056.2	1073.9	1067.1
40°	3243.4	2827.9	1597.9	1014.1	953.1	1004.6	999.2	984.3	972.1	955.8	951.7
42.5°	3438.9	2913.5	1410.6	894.7	887.9	972.1	954.4	916.4	887.9	875.7	855.3
45°	3658.8	3034.3	1221.9	820.0	837.7	932.7	927.3	868.9	832.2	788.8	783.3
47.5°	3943.9	3160.5	1041.3	742.6	790.1	917.8	920.5	845.8	792.9	734.5	726.3
50°	4309.1	3342.5	904.2	710.0	761.6	896.0	900.1	814.6	745.3	685.6	680.2
52.5°	4659.4	3528.5	790.1	659.8	742.6	870.2	879.7	786.1	706.0	631.3	635.4
55°	4835.9	3460.6	692.4	623.1	699.2	828.2	863.4	765.7	646.2	594.6	593.3
57.5°	4875.2	3293.6	615.0	585.1	662.5	783.3	836.3	704.6	619.1	575.6	570.2
60°	4746.3	3001.7	553.9	544.4	616.4	737.2	773.8	672.0	591.9	556.6	548.5
62.5°	4428.6	2699.0	511.8	525.4	577.0	687.0	734.5	648.9	566.1	541.7	524.0
65°	3631.6	2219.7	477.9	488.7	536.3	638.1	710.0	623.1	543.0	520.0	518.6
67.5°	2515.7	1530.0	450.7	471.1	503.7	602.8	685.6	594.6	513.2	505.0	494.2
70°	1288.4	815.9	415.4	431.7	468.4	558.0	642.2	564.8	482.0	480.6	467.0
72.5°	653.0	477.9	374.7	399.1	424.9	499.6	587.9	525.4	442.6	427.7	405.9
73°	564.8	442.6	367.9	389.6	414.1	483.3	571.6	515.9	437.2	415.4	395.1
75°	411.4	348.9	329.9	351.6	370.6	435.8	517.3	472.5	401.9	378.8	359.8
77.5°	308.2	268.8	274.2	298.7	315.0	376.1	460.2	427.7	363.8	332.6	324.5
80°	226.7	205.0	226.7	249.8	262.0	331.3	419.5	370.6	306.8	271.5	264.7
82.5°	161.6	149.3	175.1	190.1	195.5	274.2	377.4	296.0	232.2	186.0	171.1
85°	92.3	91.0	118.1	116.8	120.8	160.2	248.4	196.9	149.3	114.0	111.3
87.5°	40.7	44.8	59.7	47.5	50.2	76.0	105.9	73.3	61.1	33.9	25.8
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)