

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: P478152

Luminaire Tested: **IFLD-S-SA2B-740-U-T4FT**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P478152
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2B-740-U-T4FT
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4FT distribution lens
Light Source: (32) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

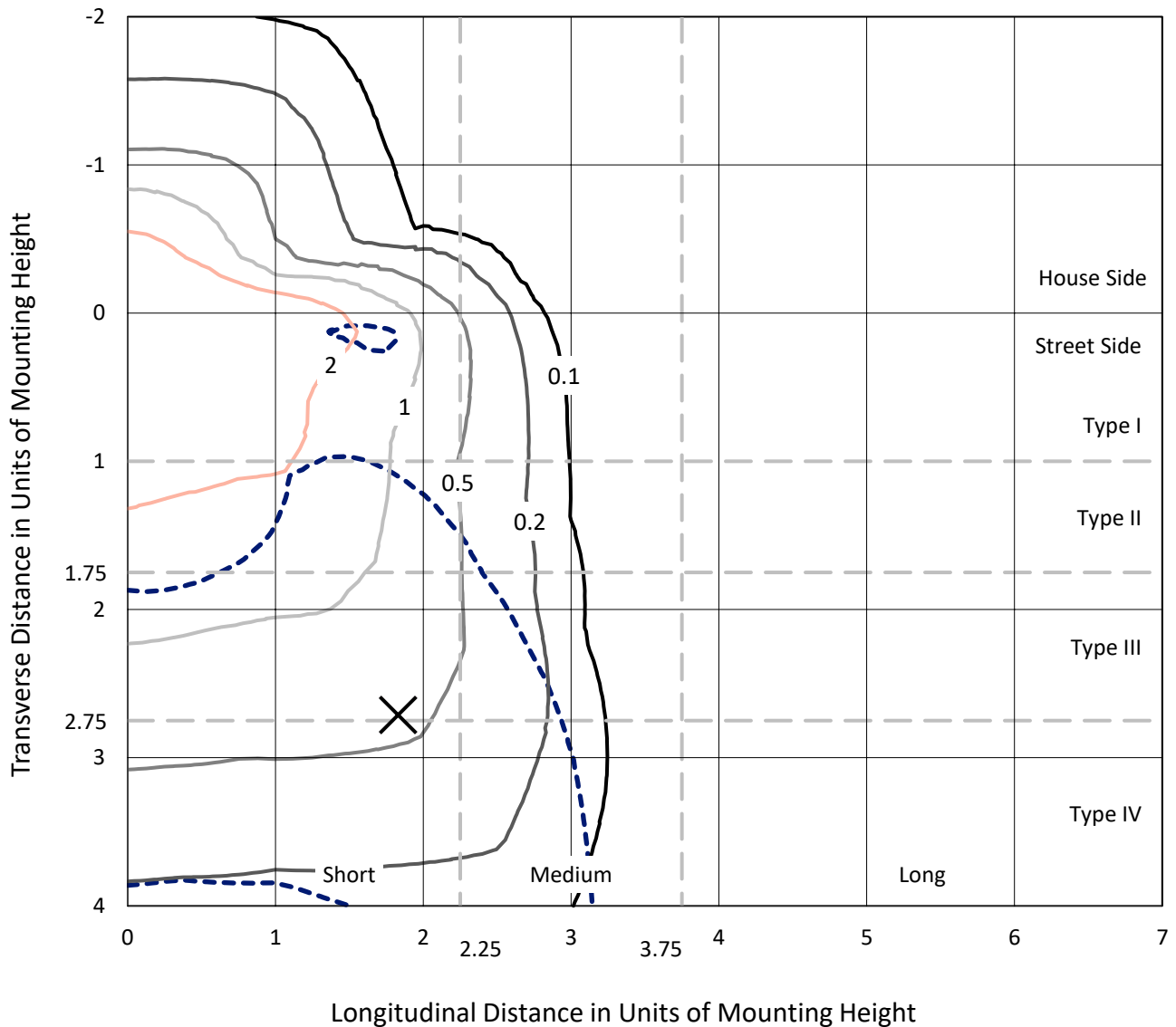
Lumens per Lamp: N/A
Luminaire Lumens: 11697.4 lumens
Efficiency: N/A
Efficacy: 142.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

Input Watts (W): 82.4
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

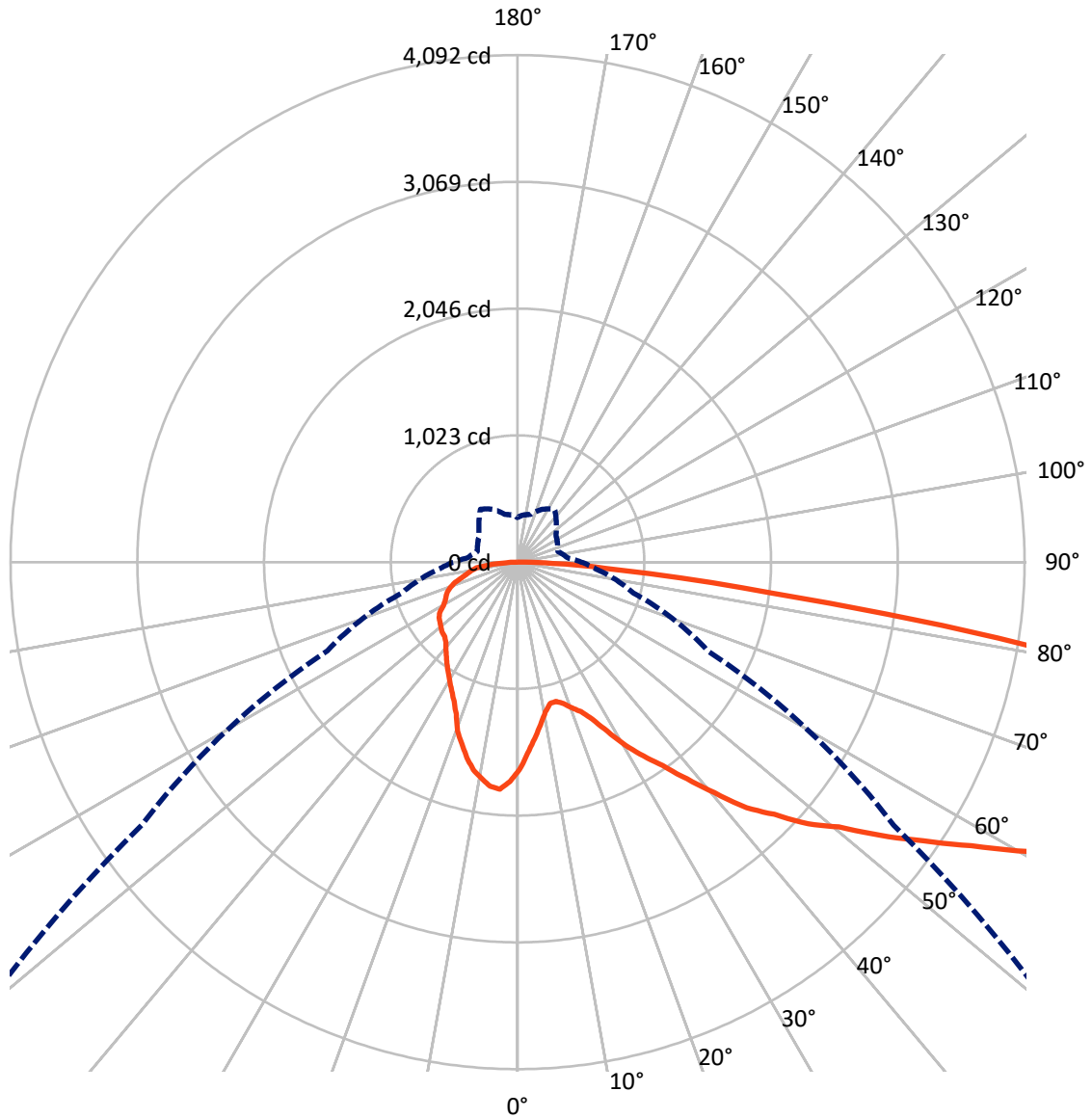
× Max cd
 - - - 1/2 Max cd



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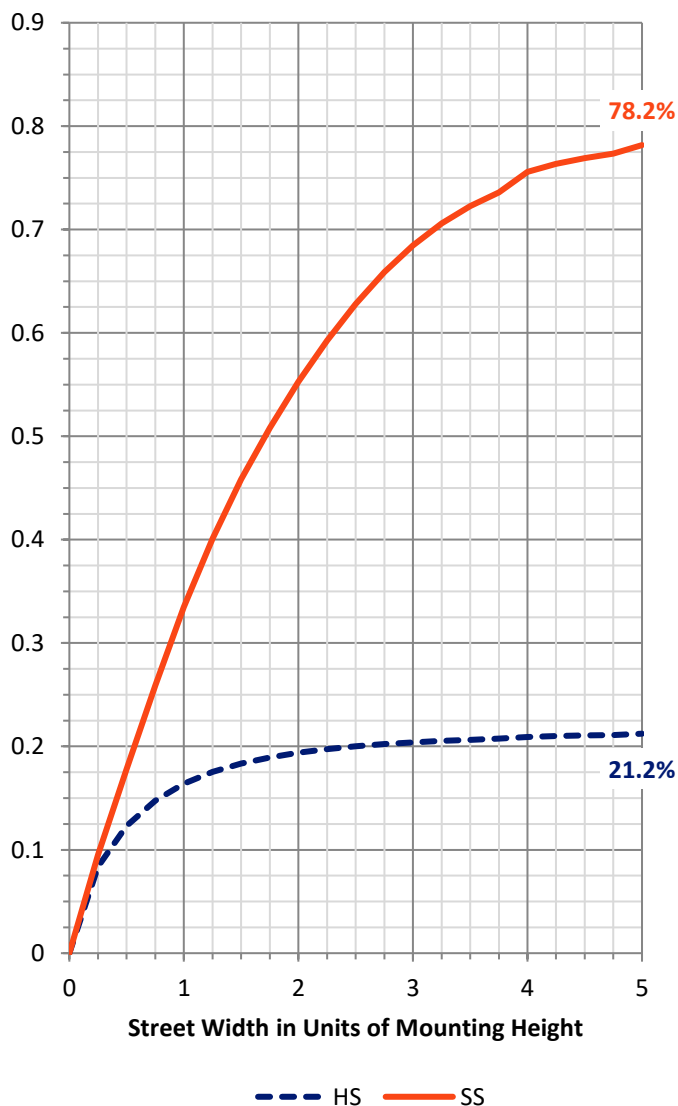
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2526.8	0.0	2526.8
	% Fixture	21.6	0.0	21.6
Street Side	Lumens	9170.6	0.0	9170.6
	% Fixture	78.4	0.0	78.4
Total	Lumens	11697.4	0.0	11697.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	154.8	1.3
10°-20°	433.2	3.7
20°-30°	712.9	6.1
30°-40°	1066.2	9.1
40°-50°	1580.6	13.5
50°-60°	2277.7	19.5
60°-70°	2906.7	24.8
70°-80°	2261.9	19.3
80°-90°	303.5	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°	11697.4	100.0
0°-180°	11697.4	100.0

Coefficient of Utilization



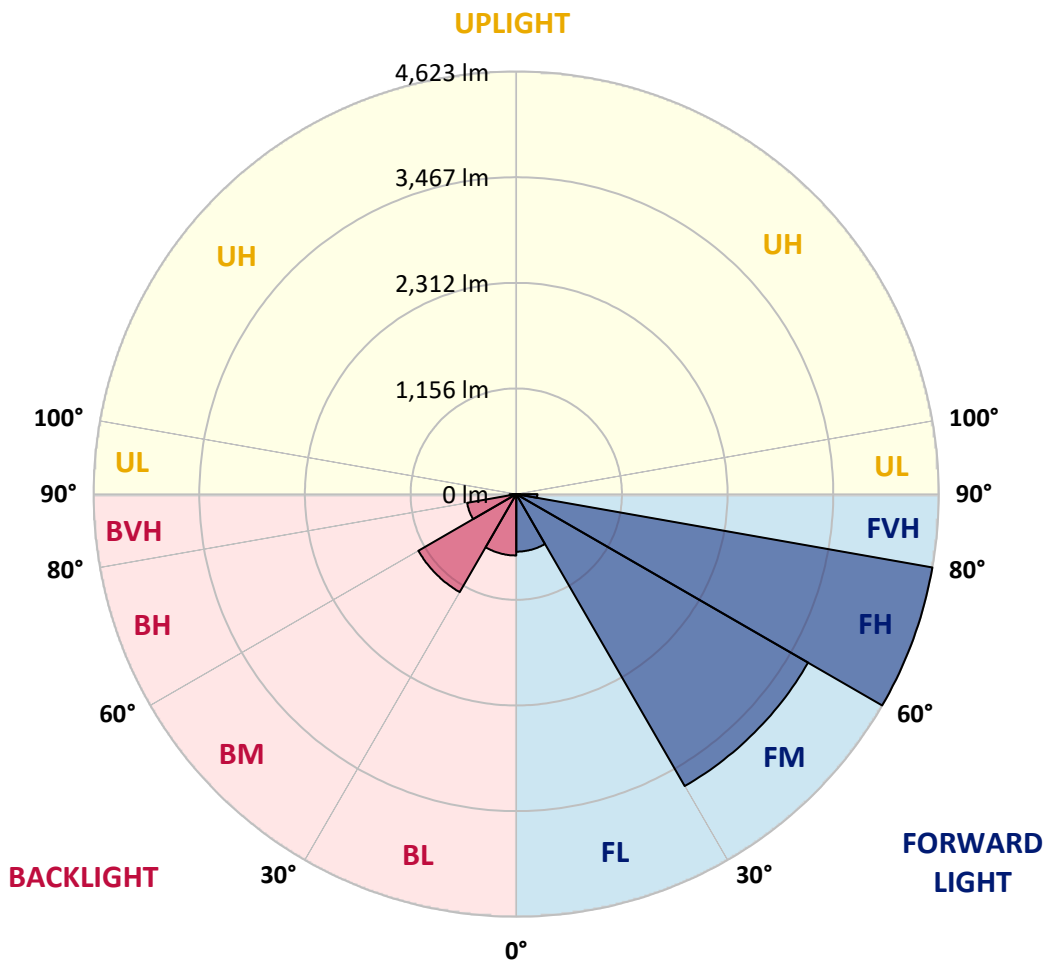
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	629.5	5.4			
FM (30°-60°)	3687.1	31.5			
FH (60°-80°)	4623.0	39.5			G2/5000
FVH (80°-90°)	231.0	2.0			G3/500
BL (0°-30°)	671.4	5.7	B2/1000		
BM (30°-60°)	1237.4	10.6	B2/2500		
BH (60°-80°)	545.6	4.7	B2/1000		G2/1000
BVH (80°-90°)	72.5	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°	1677.0	1677.0	1677.0	1677.0	1677.0	1677.0	1677.0	1677.0	1677.0	1677.0	1677.0
2.5°	1502.6	1507.6	1523.7	1527.4	1544.7	1534.8	1555.8	1592.9	1613.9	1644.9	1682.0
5°	1383.9	1362.9	1372.8	1411.1	1430.9	1435.8	1458.1	1521.2	1560.8	1606.5	1675.8
7.5°	1244.2	1240.4	1260.2	1285.0	1324.5	1328.2	1377.7	1433.4	1515.0	1616.4	1698.0
10°	1148.9	1165.0	1176.1	1202.1	1229.3	1229.3	1292.4	1388.8	1481.6	1579.3	1703.0
12.5°	1144.0	1134.1	1136.6	1150.2	1169.9	1194.7	1254.0	1340.6	1458.1	1571.9	1724.0
15°	1160.1	1163.8	1141.5	1158.8	1166.2	1174.9	1240.4	1338.1	1443.3	1597.9	1759.9
17.5°	1245.4	1224.4	1189.7	1173.7	1199.6	1199.6	1244.2	1320.8	1445.7	1611.5	1811.8
20°	1312.2	1312.2	1255.3	1238.0	1256.5	1252.8	1283.7	1340.6	1458.1	1638.7	1869.9
22.5°	1424.7	1440.8	1346.8	1310.9	1309.7	1319.6	1346.8	1395.0	1492.7	1677.0	1925.6
25°	1586.7	1590.4	1481.6	1444.5	1404.9	1421.0	1426.0	1474.2	1523.7	1721.5	1988.7
27.5°	1767.3	1764.8	1664.6	1571.9	1545.9	1549.6	1522.4	1554.6	1569.4	1735.1	2078.9
30°	1967.6	1945.4	1869.9	1738.8	1717.8	1694.3	1635.0	1633.7	1664.6	1811.8	2203.9
32.5°	2098.7	2070.3	2018.3	1924.4	1866.2	1868.7	1774.7	1773.5	1746.3	1895.9	2312.7
35°	2227.4	2184.1	2170.5	2074.0	2015.9	2022.1	1946.6	1936.7	1887.3	2023.3	2492.0
37.5°	2381.9	2343.6	2364.6	2291.7	2219.9	2190.3	2155.6	2143.3	2078.9	2202.6	2736.9
40°	2552.6	2540.2	2526.6	2490.8	2447.5	2450.0	2412.9	2400.5	2305.3	2419.0	2971.9
42.5°	2782.6	2735.6	2665.2	2688.7	2710.9	2734.4	2722.0	2689.9	2591.0	2639.2	3234.1
45°	2996.6	2934.8	2804.9	2812.3	2903.8	2922.4	3072.0	3068.3	2869.2	2918.7	3532.1
47.5°	3141.3	3112.9	3034.9	3026.3	3157.4	3156.1	3425.7	3425.7	3162.3	3196.9	3852.4
50°	3356.5	3282.3	3248.9	3292.2	3359.0	3404.7	3786.9	3810.4	3450.5	3487.6	4271.7
52.5°	3608.8	3516.0	3431.9	3543.2	3662.0	3691.6	4144.3	4134.4	3671.9	3825.2	4762.7
55°	3817.8	3770.8	3712.7	3777.0	3971.1	4008.2	4502.9	4411.4	3893.2	4104.7	4998.9
57.5°	4061.4	4089.9	4102.2	4086.2	4317.4	4375.6	4912.3	4650.1	4083.7	4292.7	5137.4
60°	4428.7	4446.0	4462.1	4500.5	4745.3	4827.0	5236.3	4949.4	4203.6	4401.5	5148.5
62.5°	4987.7	4921.0	4956.8	5089.1	5285.8	5378.5	5713.7	5159.6	4295.2	4467.1	4784.9
65°	5627.1	5536.8	5499.7	5670.4	6179.9	6105.7	6309.8	5316.7	4162.8	4222.2	4057.7
67.5°	6275.2	6285.1	6189.8	6532.4	7157.0	7157.0	6863.9	5392.1	3804.2	3422.0	2845.7
70°	6789.7	6820.6	6872.5	7536.6	8526.0	8675.7	7550.2	5083.0	3073.3	2278.1	1555.8
72.5°	6782.2	6689.5	6955.4	8178.5	9770.2	9645.3	7693.7	4019.4	1918.2	1115.5	713.6
73°	6630.1	6552.2	6842.8	8172.3	9820.9	9703.4	7588.6	3705.2	1691.8	967.1	634.4
75°	5414.4	5273.4	5768.1	7401.8	9086.3	9176.5	6447.1	2416.6	927.5	596.1	446.5
77.5°	2468.5	2530.4	3174.7	4965.5	7002.4	7108.7	4238.3	1045.0	508.3	418.0	329.0
80°	792.7	832.3	1235.5	2468.5	4389.2	4580.9	1959.0	474.9	362.4	320.3	246.1
82.5°	303.0	301.8	518.2	1026.5	2080.2	2202.6	716.1	289.4	269.6	236.2	174.4
85°	106.4	111.3	195.4	405.6	818.7	857.1	248.6	160.8	186.7	158.3	100.2
87.5°	37.1	38.3	69.3	147.2	282.0	298.1	69.3	64.3	92.8	91.5	50.7
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°	1677.0	1677.0	1677.0	1677.0	1677.0	1677.0	1677.0	1677.0	1677.0	1677.0	1677.0
2.5°	1694.3	1705.5	1709.2	1753.7	1753.7	1753.7	1771.0	1771.0	1766.1	1753.7	1783.4
5°	1701.7	1721.5	1759.9	1798.2	1808.1	1816.8	1840.3	1820.5	1827.9	1815.5	1826.7
7.5°	1722.8	1750.0	1821.7	1845.2	1829.1	1847.7	1822.9	1809.3	1795.7	1800.7	1783.4
10°	1758.6	1793.3	1826.7	1869.9	1839.0	1820.5	1769.8	1757.4	1714.1	1699.3	1712.9
12.5°	1803.2	1845.2	1902.1	1886.0	1826.7	1773.5	1719.1	1667.1	1641.1	1604.0	1613.9
15°	1847.7	1895.9	1904.6	1877.4	1803.2	1736.4	1637.4	1564.5	1538.5	1505.1	1522.4
17.5°	1895.9	1941.7	1926.8	1856.3	1756.2	1654.7	1542.2	1470.5	1416.1	1395.0	1395.0
20°	1967.6	1989.9	1966.4	1821.7	1699.3	1565.7	1456.9	1375.2	1320.8	1312.2	1298.6
22.5°	2023.3	2059.2	1954.0	1771.0	1616.4	1449.4	1324.5	1293.6	1277.5	1263.9	1246.6
25°	2095.0	2093.8	1931.8	1724.0	1474.2	1310.9	1235.5	1233.0	1225.6	1220.7	1244.2
27.5°	2163.0	2134.6	1905.8	1607.8	1327.0	1205.8	1165.0	1192.2	1203.3	1195.9	1205.8
30°	2270.6	2223.6	1868.7	1484.1	1197.2	1099.5	1106.9	1144.0	1162.5	1173.7	1158.8
32.5°	2384.4	2312.7	1792.0	1355.5	1082.1	1032.7	1050.0	1088.3	1110.6	1123.0	1136.6
35°	2548.9	2381.9	1714.1	1187.3	999.3	991.9	1001.8	1022.8	1054.9	1063.6	1067.3
37.5°	2751.7	2487.1	1609.0	1052.5	935.0	943.6	953.5	960.9	962.2	978.3	972.1
40°	2954.5	2576.1	1455.6	923.8	868.2	915.2	910.2	896.6	885.5	870.7	866.9
42.5°	3132.6	2654.0	1285.0	815.0	808.8	885.5	869.4	834.8	808.8	797.7	779.1
45°	3333.0	2764.1	1113.1	747.0	763.1	849.6	844.7	791.5	758.1	718.5	713.6
47.5°	3592.7	2879.1	948.6	676.5	719.8	836.0	838.5	770.5	722.3	669.1	661.7
50°	3925.4	3044.8	823.7	646.8	693.8	816.2	820.0	742.0	679.0	624.5	619.6
52.5°	4244.5	3214.3	719.8	601.1	676.5	792.7	801.4	716.1	643.1	575.1	578.8
55°	4405.2	3152.4	630.7	567.7	636.9	754.4	786.6	697.5	588.7	541.7	540.5
57.5°	4441.1	3000.3	560.2	533.0	603.5	713.6	761.8	641.9	563.9	524.4	519.4
60°	4323.6	2734.4	504.6	495.9	561.5	671.5	704.9	612.2	539.2	507.1	499.6
62.5°	4034.2	2458.6	466.2	478.6	525.6	625.8	669.1	591.2	515.7	493.5	477.4
65°	3308.3	2022.1	435.3	445.2	488.5	581.3	646.8	567.7	494.7	473.7	472.4
67.5°	2291.7	1393.8	410.6	429.1	458.8	549.1	624.5	541.7	467.5	460.1	450.2
70°	1173.7	743.3	378.4	393.3	426.7	508.3	585.0	514.5	439.0	437.8	425.4
72.5°	594.9	435.3	341.3	363.6	387.1	455.1	535.5	478.6	403.2	389.6	369.8
73°	514.5	403.2	335.2	354.9	377.2	440.3	520.7	470.0	398.2	378.4	359.9
75°	374.7	317.8	300.5	320.3	337.6	397.0	471.2	430.4	366.1	345.0	327.7
77.5°	280.7	244.9	249.8	272.1	286.9	342.6	419.3	389.6	331.4	303.0	295.6
80°	206.5	186.7	206.5	227.6	238.7	301.8	382.1	337.6	279.5	247.3	241.2
82.5°	147.2	136.0	159.5	173.1	178.1	249.8	343.8	269.6	211.5	169.4	155.8
85°	84.1	82.9	107.6	106.4	110.1	145.9	226.3	179.3	136.0	103.9	101.4
87.5°	37.1	40.8	54.4	43.3	45.8	69.3	96.5	66.8	55.7	30.9	23.5
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)