

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: P478191

Luminaire Tested: **IFLD-S-SA2B-750-U-T4FT**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P478191
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2B-750-U-T4FT
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4FT distribution lens
Light Source: (32) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

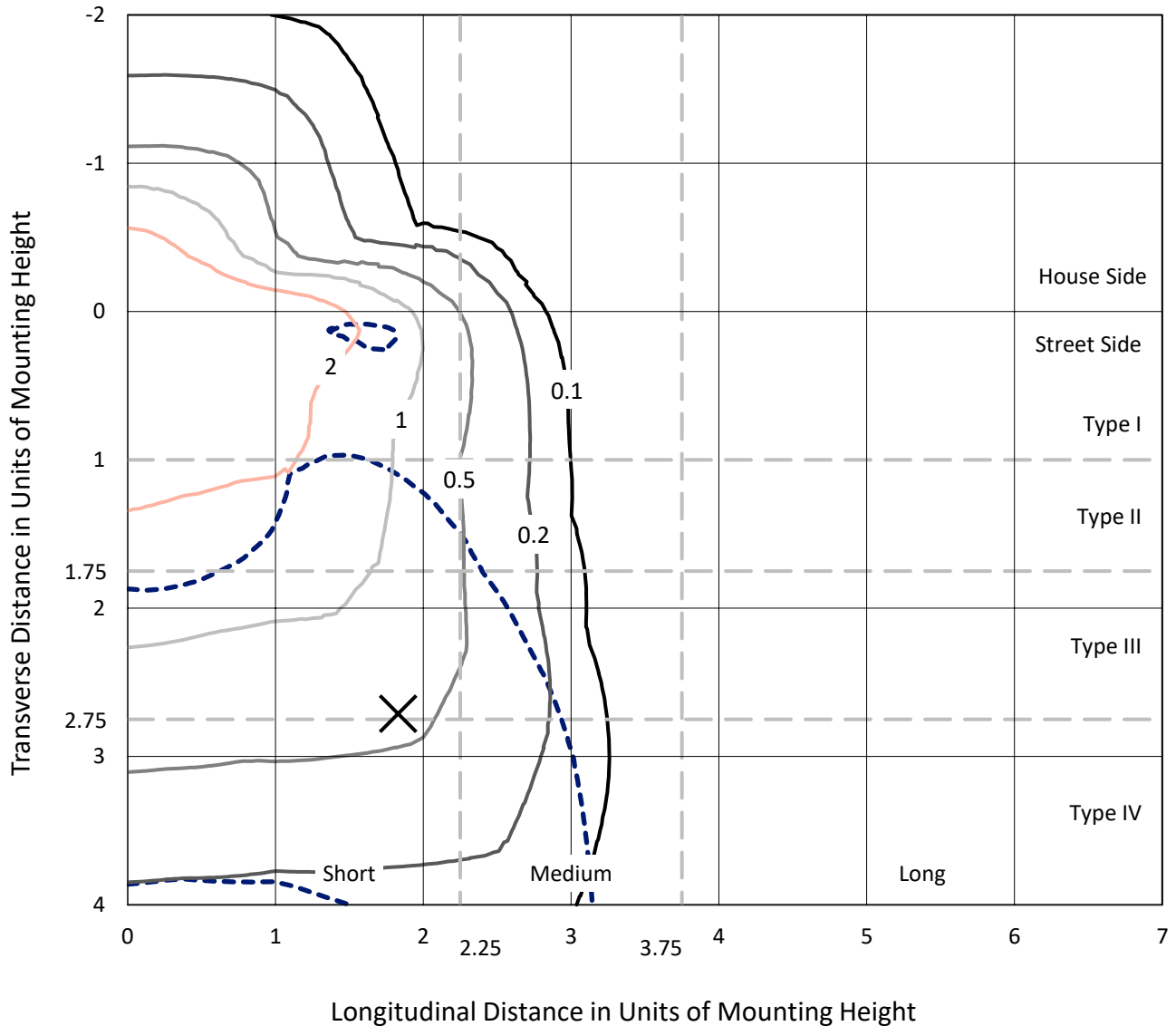
Lumens per Lamp: N/A
Luminaire Lumens: 11965.3 lumens
Efficiency: N/A
Efficacy: 145.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

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

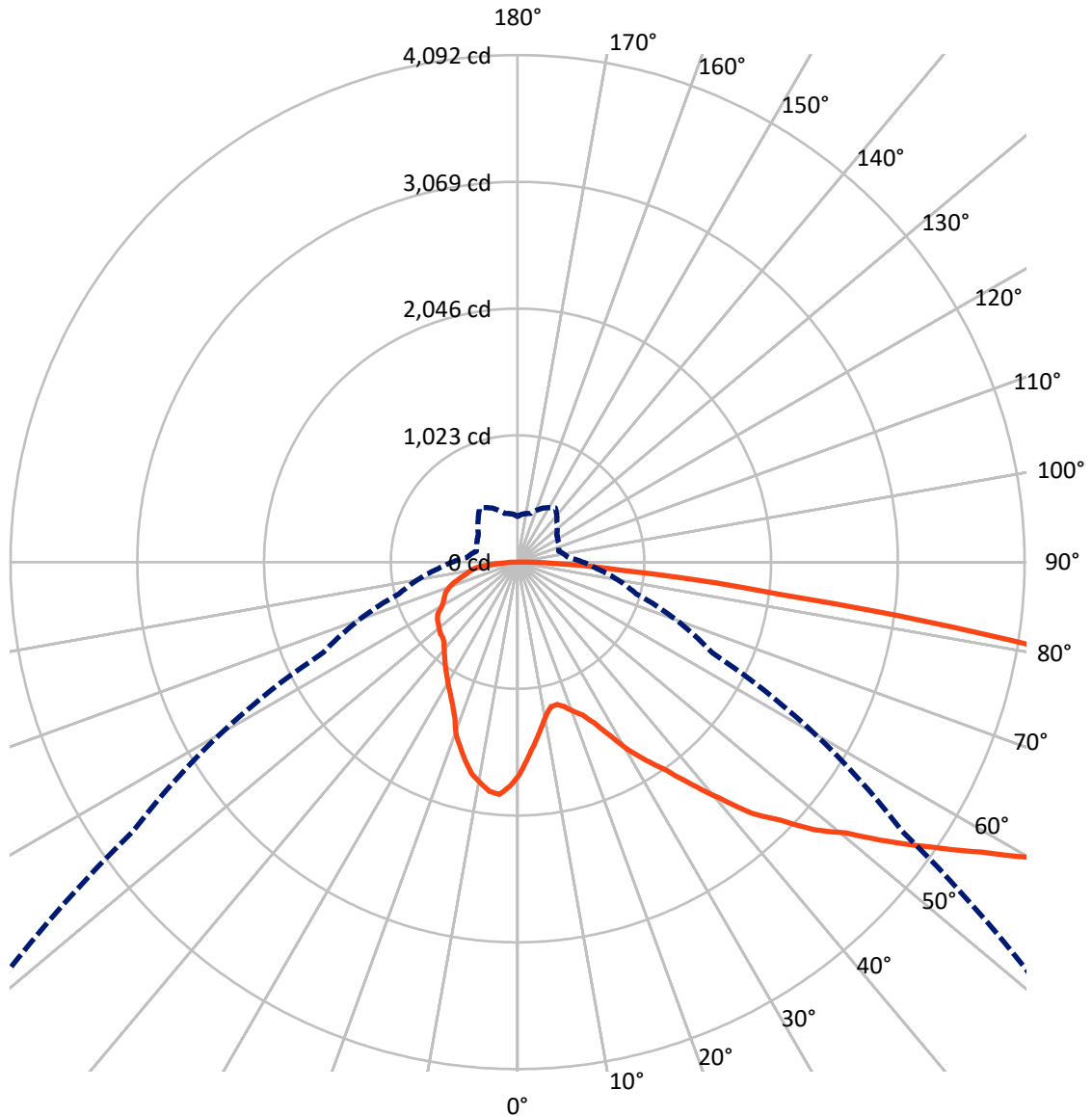
× Max cd
 - - - 1/2 Max cd



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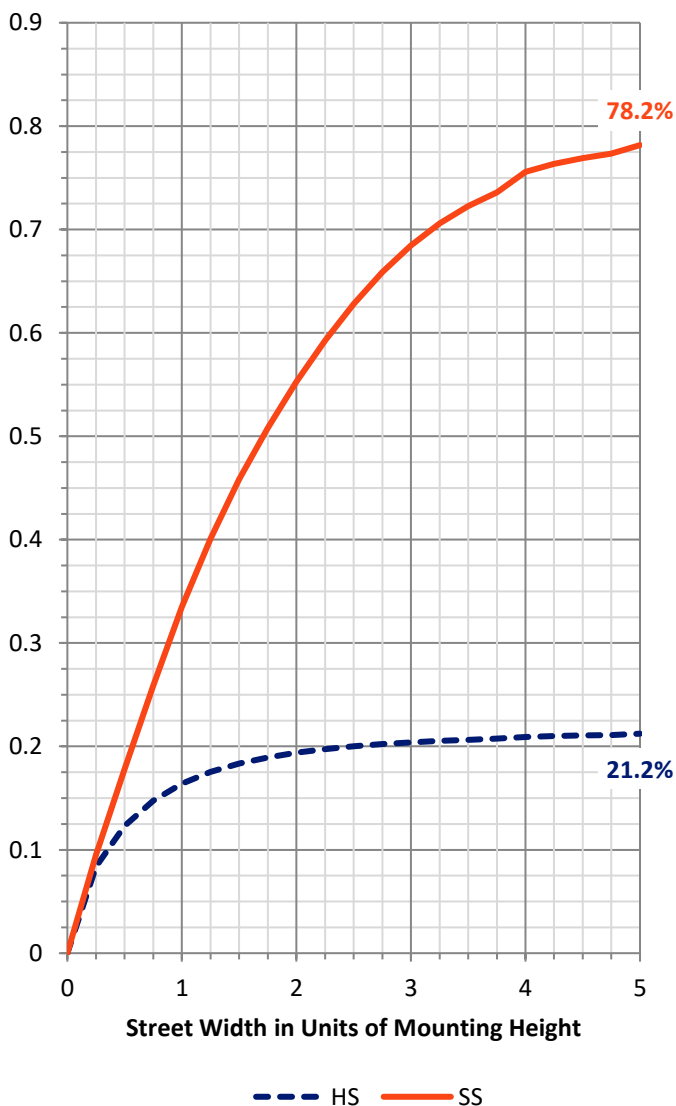
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2584.7	0.0	2584.7
	% Fixture	21.6	0.0	21.6
Street Side	Lumens	9380.6	0.0	9380.6
	% Fixture	78.4	0.0	78.4
Total	Lumens	11965.3	0.0	11965.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	158.3	1.3
10°-20°	443.1	3.7
20°-30°	729.3	6.1
30°-40°	1090.6	9.1
40°-50°	1616.7	13.5
50°-60°	2329.9	19.5
60°-70°	2973.3	24.8
70°-80°	2313.7	19.3
80°-90°	310.4	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°	11965.3	100.0
0°-180°	11965.3	100.0

Coefficient of Utilization



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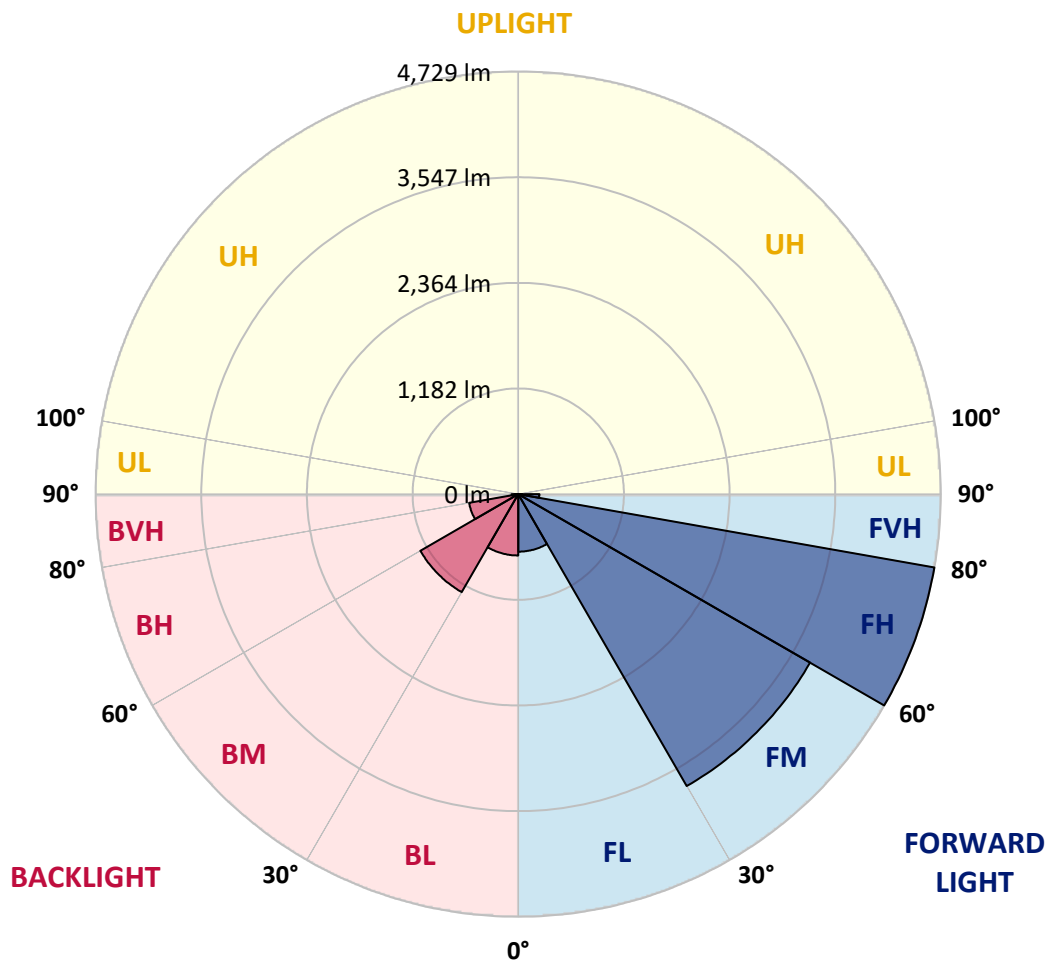
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	643.9	5.4			
FM (30°-60°)	3771.5	31.5			
FH (60°-80°)	4728.9	39.5			G2/5000
FVH (80°-90°)	236.3	2.0			G3/500
BL (0°-30°)	686.7	5.7	B2/1000		
BM (30°-60°)	1265.7	10.6	B2/2500		
BH (60°-80°)	558.1	4.7	B2/1000		G2/1000
BVH (80°-90°)	74.1	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°	1715.4	1715.4	1715.4	1715.4	1715.4	1715.4	1715.4	1715.4	1715.4	1715.4	1715.4
2.5°	1537.0	1542.1	1558.5	1562.3	1580.0	1569.9	1591.4	1629.4	1650.9	1682.5	1720.5
5°	1415.6	1394.1	1404.2	1443.4	1463.7	1468.7	1491.5	1556.0	1596.5	1643.3	1714.1
7.5°	1272.6	1268.8	1289.1	1314.4	1354.9	1358.7	1409.3	1466.2	1549.7	1653.4	1736.9
10°	1175.2	1191.7	1203.1	1229.6	1257.5	1257.5	1322.0	1420.7	1515.5	1615.5	1742.0
12.5°	1170.2	1160.1	1162.6	1176.5	1196.7	1222.0	1282.8	1371.3	1491.5	1607.9	1763.5
15°	1186.6	1190.4	1167.6	1185.4	1192.9	1201.8	1268.8	1368.8	1476.3	1634.4	1800.2
17.5°	1273.9	1252.4	1217.0	1200.5	1227.1	1227.1	1272.6	1351.1	1478.8	1648.4	1853.3
20°	1342.2	1342.2	1284.0	1266.3	1285.3	1281.5	1313.1	1371.3	1491.5	1676.2	1912.8
22.5°	1457.3	1473.8	1377.6	1341.0	1339.7	1349.8	1377.6	1427.0	1526.9	1715.4	1969.7
25°	1623.1	1626.9	1515.5	1477.6	1437.1	1453.5	1458.6	1507.9	1558.5	1761.0	2034.2
27.5°	1807.8	1805.2	1702.8	1607.9	1581.3	1585.1	1557.3	1590.2	1605.4	1774.9	2126.6
30°	2012.7	1989.9	1912.8	1778.7	1757.2	1733.1	1672.4	1671.1	1702.8	1853.3	2254.3
32.5°	2146.8	2117.7	2064.6	1968.4	1909.0	1911.5	1815.3	1814.1	1786.3	1939.3	2365.6
35°	2278.4	2234.1	2220.2	2121.5	2062.0	2068.4	1991.2	1981.1	1930.5	2069.6	2549.1
37.5°	2436.5	2397.3	2418.8	2344.1	2270.8	2240.4	2205.0	2192.3	2126.6	2253.1	2799.6
40°	2611.1	2598.4	2584.5	2547.8	2503.5	2506.1	2468.1	2455.5	2358.1	2474.4	3039.9
42.5°	2846.4	2798.3	2726.2	2750.2	2773.0	2797.0	2784.4	2751.5	2650.3	2699.6	3308.1
45°	3065.2	3002.0	2869.1	2876.7	2970.3	2989.3	3142.4	3138.6	2934.9	2985.5	3613.0
47.5°	3213.2	3184.1	3104.4	3095.6	3229.7	3228.4	3504.2	3504.2	3234.7	3270.2	3940.6
50°	3433.4	3357.4	3323.3	3367.6	3435.9	3482.7	3873.6	3897.6	3529.5	3567.4	4369.5
52.5°	3691.4	3596.5	3510.5	3624.4	3745.8	3776.2	4239.2	4229.1	3755.9	3912.8	4871.7
55°	3905.2	3857.1	3797.7	3863.5	4062.1	4100.0	4606.1	4512.4	3982.4	4198.7	5113.3
57.5°	4154.4	4183.5	4196.2	4179.7	4416.3	4475.8	5024.8	4756.6	4177.2	4391.0	5255.0
60°	4530.2	4547.9	4564.3	4603.5	4854.0	4937.5	5356.2	5062.7	4299.9	4502.3	5266.4
62.5°	5102.0	5033.6	5070.3	5205.7	5406.8	5501.7	5844.5	5277.8	4393.5	4569.4	4894.5
65°	5756.0	5663.6	5625.7	5800.3	6321.5	6245.6	6454.3	5438.5	4258.2	4318.9	4150.6
67.5°	6418.9	6429.0	6331.6	6682.0	7320.9	7320.9	7021.0	5515.6	3891.3	3500.4	2910.9
70°	6945.1	6976.8	7029.9	7709.2	8721.3	8874.3	7723.1	5199.4	3143.7	2330.2	1591.4
72.5°	6937.5	6842.7	7114.7	8365.8	9993.9	9866.1	7869.9	4111.4	1962.1	1141.1	729.9
73°	6781.9	6702.2	6999.5	8359.5	10045.8	9925.6	7762.4	3790.1	1730.6	989.3	649.0
75°	5538.4	5394.2	5900.2	7571.3	9294.3	9386.7	6594.7	2471.9	948.8	609.8	456.7
77.5°	2525.0	2588.3	3247.4	5079.2	7162.7	7271.5	4335.3	1069.0	519.9	427.6	336.5
80°	810.9	851.4	1263.8	2525.0	4489.7	4685.8	2003.8	485.8	370.7	327.6	251.7
82.5°	309.9	308.7	530.1	1050.0	2127.8	2253.1	732.5	296.0	275.8	241.6	178.4
85°	108.8	113.9	199.9	414.9	837.5	876.7	254.3	164.5	191.0	161.9	102.5
87.5°	38.0	39.2	70.8	150.5	288.4	304.9	70.8	65.8	94.9	93.6	51.9
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°	1715.4	1715.4	1715.4	1715.4	1715.4	1715.4	1715.4	1715.4	1715.4	1715.4	1715.4
2.5°	1733.1	1744.5	1748.3	1793.8	1793.8	1793.8	1811.6	1811.6	1806.5	1793.8	1824.2
5°	1740.7	1761.0	1800.2	1839.4	1849.5	1858.4	1882.4	1862.2	1869.7	1857.1	1868.5
7.5°	1762.2	1790.0	1863.4	1887.5	1871.0	1890.0	1864.7	1850.8	1836.9	1841.9	1824.2
10°	1798.9	1834.3	1868.5	1912.8	1881.1	1862.2	1810.3	1797.6	1753.4	1738.2	1752.1
12.5°	1844.4	1887.5	1945.6	1929.2	1868.5	1814.1	1758.4	1705.3	1678.7	1640.8	1650.9
15°	1890.0	1939.3	1948.2	1920.3	1844.4	1776.1	1674.9	1600.3	1573.7	1539.6	1557.3
17.5°	1939.3	1986.1	1971.0	1898.8	1796.4	1692.6	1577.5	1504.1	1448.5	1427.0	1427.0
20°	2012.7	2035.5	2011.4	1863.4	1738.2	1601.6	1490.2	1406.7	1351.1	1342.2	1328.3
22.5°	2069.6	2106.3	1998.8	1811.6	1653.4	1482.6	1354.9	1323.2	1306.8	1292.9	1275.2
25°	2143.0	2141.7	1976.0	1763.5	1507.9	1341.0	1263.8	1261.3	1253.7	1248.6	1272.6
27.5°	2212.6	2183.5	1949.4	1644.6	1357.4	1233.4	1191.7	1219.5	1230.9	1223.3	1233.4
30°	2322.6	2274.6	1911.5	1518.1	1224.6	1124.6	1132.2	1170.2	1189.1	1200.5	1185.4
32.5°	2439.0	2365.6	1833.1	1386.5	1106.9	1056.3	1074.0	1113.2	1136.0	1148.7	1162.6
35°	2607.3	2436.5	1753.4	1214.4	1022.2	1014.6	1024.7	1046.2	1079.1	1087.9	1091.7
37.5°	2814.7	2544.0	1645.8	1076.6	956.4	965.2	975.4	982.9	984.2	1000.7	994.3
40°	3022.2	2635.1	1489.0	945.0	888.1	936.1	931.1	917.2	905.8	890.6	886.8
42.5°	3204.4	2714.8	1314.4	833.7	827.3	905.8	889.3	853.9	827.3	816.0	797.0
45°	3409.3	2827.4	1138.5	764.1	780.5	869.1	864.0	809.6	775.5	735.0	729.9
47.5°	3675.0	2945.0	970.3	692.0	736.3	855.2	857.7	788.1	738.8	684.4	676.8
50°	4015.3	3114.6	842.5	661.6	709.7	834.9	838.7	759.0	694.5	638.9	633.8
52.5°	4341.7	3287.9	736.3	614.8	692.0	810.9	819.8	732.5	657.8	588.2	592.0
55°	4506.1	3224.6	645.2	580.7	651.5	771.7	804.6	713.5	602.2	554.1	552.8
57.5°	4542.8	3069.0	573.1	545.2	617.3	729.9	779.3	656.6	576.9	536.4	531.3
60°	4422.6	2797.0	516.1	507.3	574.3	686.9	721.1	626.2	551.6	518.7	511.1
62.5°	4126.6	2514.9	476.9	489.6	537.6	640.1	684.4	604.7	527.5	504.8	488.3
65°	3384.0	2068.4	445.3	455.4	499.7	594.6	661.6	580.7	506.0	484.5	483.2
67.5°	2344.1	1425.7	420.0	439.0	469.3	561.7	638.9	554.1	478.2	470.6	460.5
70°	1200.5	760.3	387.1	402.3	436.4	519.9	598.4	526.3	449.1	447.8	435.2
72.5°	608.5	445.3	349.2	371.9	396.0	465.5	547.8	489.6	412.4	398.5	378.3
73°	526.3	412.4	342.8	363.1	385.8	450.4	532.6	480.7	407.3	387.1	368.1
75°	383.3	325.1	307.4	327.6	345.4	406.1	482.0	440.2	374.5	352.9	335.2
77.5°	287.2	250.5	255.5	278.3	293.5	350.4	428.9	398.5	339.0	309.9	302.3
80°	211.3	191.0	211.3	232.8	244.2	308.7	390.9	345.4	285.9	253.0	246.7
82.5°	150.5	139.2	163.2	177.1	182.2	255.5	351.7	275.8	216.3	173.3	159.4
85°	86.0	84.8	110.1	108.8	112.6	149.3	231.5	183.4	139.2	106.3	103.7
87.5°	38.0	41.7	55.7	44.3	46.8	70.8	98.7	68.3	56.9	31.6	24.0
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)