

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: P478426

Luminaire Tested: **IFLD-S-SA2C-727-U-T4W**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P478426
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2C-727-U-T4W
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4W distribution lens
Light Source: (32) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

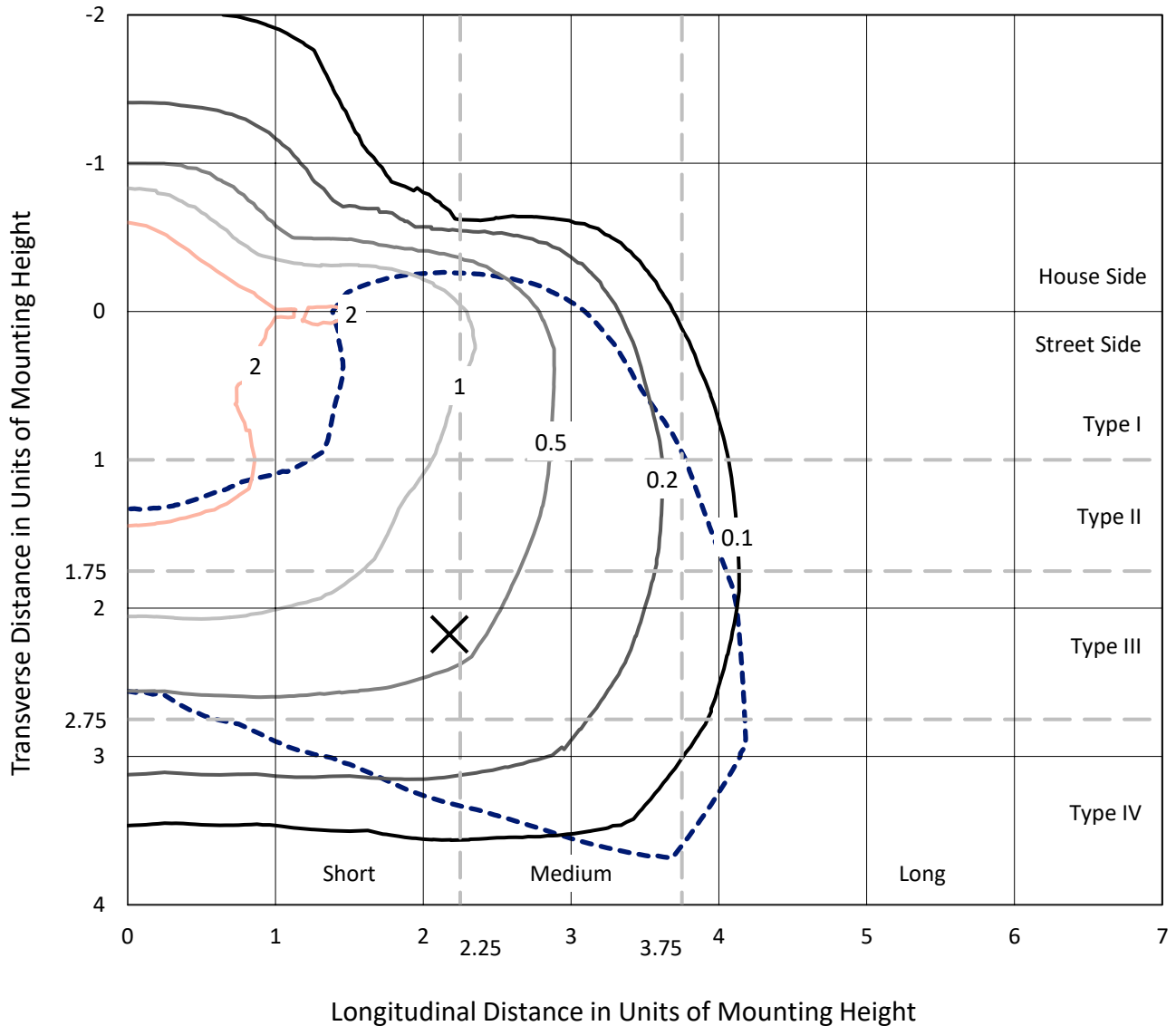
Lumens per Lamp: N/A
Luminaire Lumens: 12014.8 lumens
Efficiency: N/A
Efficacy: 111.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

Input Watts (W): 108.2
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

REPORT NUMBER: P478426
 CATALOG NUMBER: IFLD-S-SA2C-727-U-T4W

Iso-Footcandle Lines of Horizontal Illumination

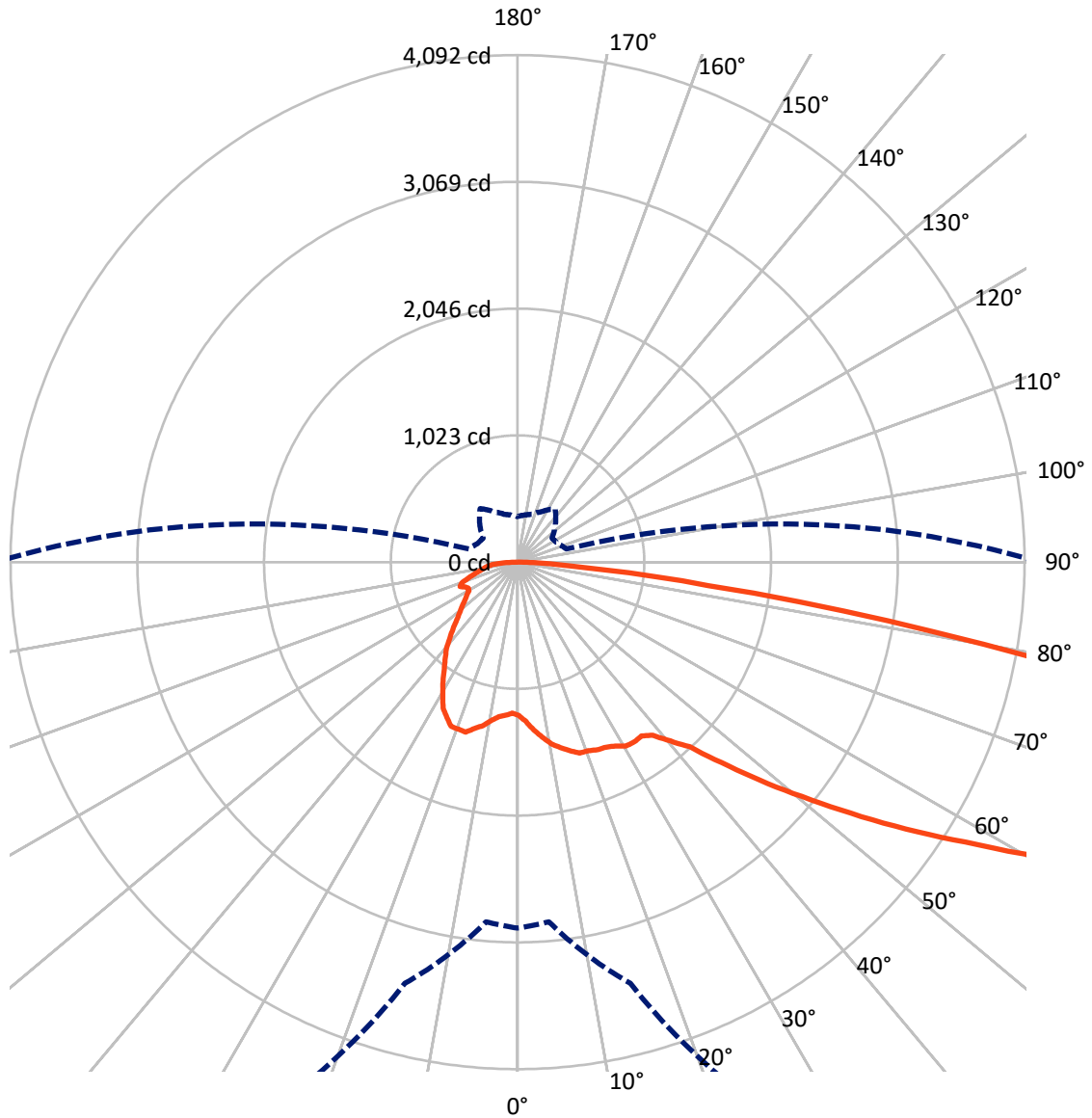
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 3.9 fc
 Type IV - Short - N/A

REPORT NUMBER: P478426
CATALOG NUMBER: IFLD-S-SA2C-727-U-T4W

Luminous Intensity Polar Plot



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

REPORT NUMBER: P478426

CATALOG NUMBER: IFLD-S-SA2C-727-U-T4W

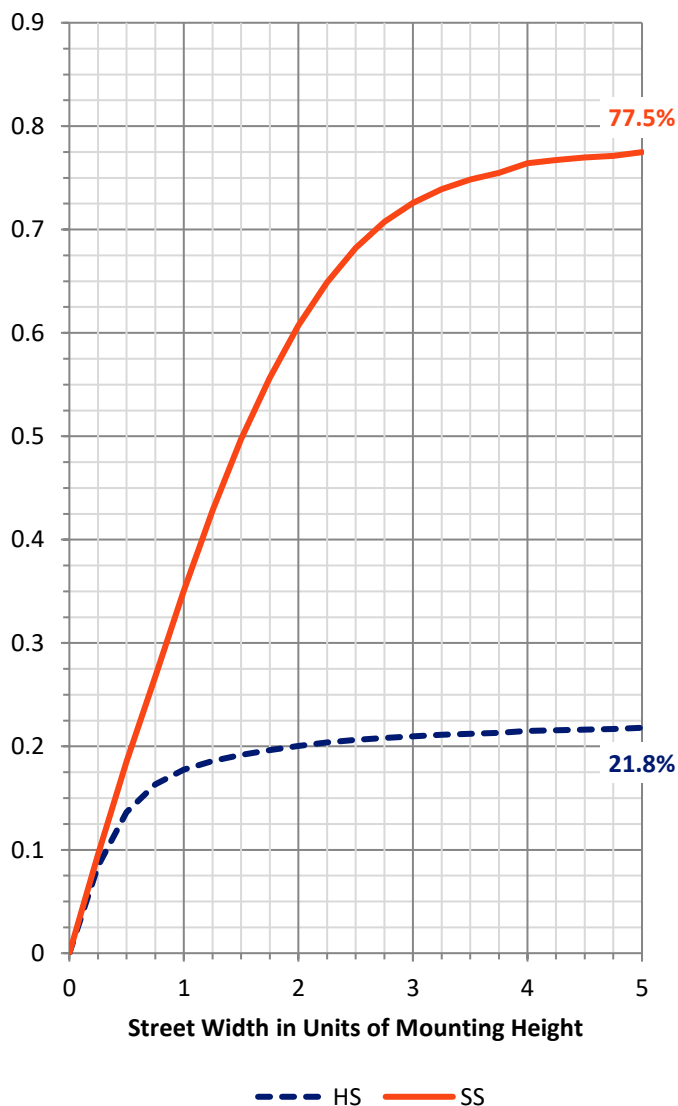
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2674.6	0.0	2674.6
	% Fixture	22.3	0.0	22.3
Street Side	Lumens	9340.2	0.0	9340.2
	% Fixture	77.7	0.0	77.7
Total	Lumens	12014.8	0.0	12014.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	126.6	1.1
10°-20°	421.2	3.5
20°-30°	711.4	5.9
30°-40°	984.4	8.2
40°-50°	1408.1	11.7
50°-60°	2271.1	18.9
60°-70°	3349.6	27.9
70°-80°	2432.4	20.2
80°-90°	310.1	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°	12014.8	100.0
0°-180°	12014.8	100.0

Coefficient of Utilization



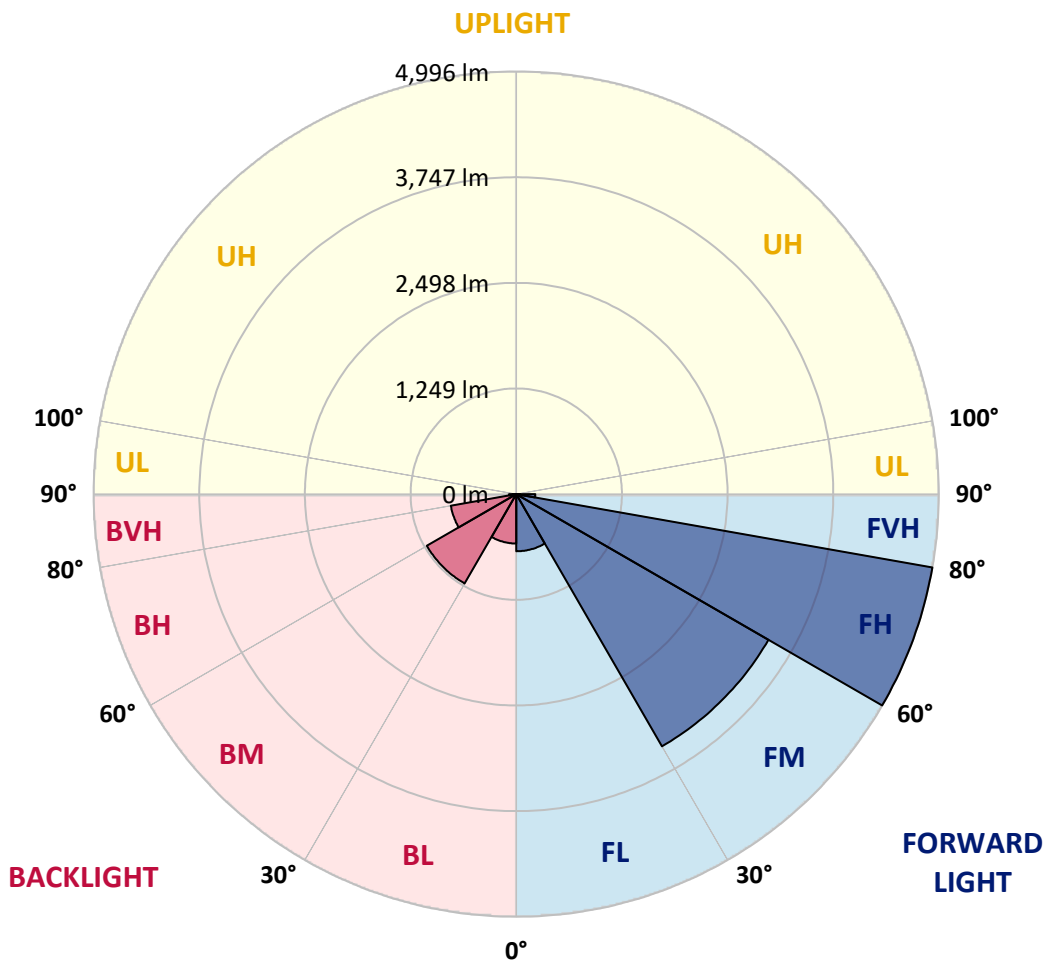
REPORT NUMBER: P478426
 CATALOG NUMBER: IFLD-S-SA2C-727-U-T4W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	675.2	5.6			
FM (30°-60°)	3443.0	28.7			
FH (60°-80°)	4996.3	41.6			G2/5000
FVH (80°-90°)	225.7	1.9			G3/500
BL (0°-30°)	584.0	4.9	B2/1000		
BM (30°-60°)	1220.6	10.2	B2/2500		
BH (60°-80°)	785.6	6.5	B2/1000		G2/1000
BVH (80°-90°)	84.4	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





REPORT NUMBER: P478426
 CATALOG NUMBER: IFLD-S-SA2C-727-U-T4W

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	1237.3	1237.3	1237.3	1237.3	1237.3	1237.3	1237.3	1237.3	1237.3	1237.3	1237.3
2.5°	1303.4	1311.2	1303.4	1302.1	1289.1	1280.1	1287.8	1276.2	1263.2	1258.0	1246.4
5°	1422.6	1423.9	1409.6	1410.9	1383.7	1355.2	1360.4	1325.4	1287.8	1273.6	1250.3
7.5°	1544.4	1530.1	1509.4	1502.9	1460.2	1429.1	1425.2	1394.1	1335.8	1303.4	1271.0
10°	1623.4	1628.6	1594.9	1566.4	1530.1	1492.5	1491.2	1432.9	1399.3	1351.3	1309.9
12.5°	1693.4	1694.7	1666.2	1620.8	1575.5	1528.8	1535.3	1509.4	1452.4	1407.0	1365.6
15°	1747.8	1740.0	1708.9	1667.4	1619.5	1583.2	1579.3	1557.3	1509.4	1471.8	1403.1
17.5°	1763.3	1759.4	1728.3	1684.3	1637.7	1610.4	1620.8	1584.5	1565.1	1531.4	1465.3
20°	1733.5	1724.5	1719.3	1670.0	1636.4	1633.8	1624.7	1632.5	1600.1	1569.0	1521.0
22.5°	1679.1	1675.2	1672.6	1633.8	1618.2	1629.9	1645.4	1657.1	1651.9	1622.1	1567.7
25°	1623.4	1641.5	1624.7	1606.6	1628.6	1658.4	1654.5	1692.1	1692.1	1683.0	1637.7
27.5°	1662.3	1650.6	1637.7	1628.6	1636.4	1683.0	1680.4	1725.8	1742.6	1725.8	1673.9
30°	1759.4	1747.8	1710.2	1670.0	1659.7	1710.2	1723.2	1763.3	1771.1	1729.6	1685.6
32.5°	1942.1	1935.6	1876.0	1758.1	1694.7	1723.2	1729.6	1775.0	1768.5	1742.6	1724.5
35°	2212.9	2190.9	2108.0	1908.4	1768.5	1740.0	1723.2	1759.4	1784.1	1771.1	1754.3
37.5°	2509.6	2485.0	2382.6	2130.0	1902.0	1785.3	1772.4	1802.2	1830.7	1824.2	1789.2
40°	2793.3	2793.3	2701.3	2407.2	2100.2	1895.5	1898.1	1864.4	1890.3	1878.6	1885.1
42.5°	3073.2	3062.8	3025.2	2732.4	2312.7	2079.5	2038.0	1953.8	2000.4	1996.5	2005.6
45°	3356.9	3349.2	3338.8	3035.6	2617.1	2328.2	2306.2	2154.6	2197.4	2179.2	2218.1
47.5°	3583.7	3592.7	3592.7	3373.8	2942.3	2659.9	2627.5	2387.8	2469.4	2478.5	2487.6
50°	3776.7	3780.6	3776.7	3696.4	3305.1	3039.5	2973.4	2729.8	2811.5	2882.7	2965.7
52.5°	4043.6	4048.8	4030.6	3999.5	3797.4	3438.5	3364.7	3093.9	3261.0	3336.2	3485.2
55°	4372.7	4333.8	4300.1	4323.4	4270.3	3877.8	3801.3	3469.6	3721.0	3820.8	4118.7
57.5°	4433.6	4467.3	4552.8	4738.0	4814.5	4305.3	4261.3	3930.9	4240.5	4327.3	4824.9
60°	4648.6	4592.9	4802.8	5204.5	5290.0	4862.4	4817.1	4436.2	4757.5	4848.2	5476.5
62.5°	4789.9	4787.3	5098.2	5575.0	5769.3	5440.3	5348.3	5093.0	5315.9	5404.0	6186.5
65°	4748.4	4786.0	5337.9	5792.7	6169.7	6097.1	6044.0	5657.9	5952.0	5944.3	6649.1
67.5°	4370.1	4476.3	5186.3	5949.4	6765.7	6897.8	6881.0	6452.1	6469.0	6304.4	6855.1
70°	3845.4	3809.1	4545.0	5786.2	7063.7	7847.5	7843.6	7042.9	6934.1	6383.5	6264.3
72°	2954.0	2913.8	3518.9	4968.7	6906.9	8227.1	8343.7	7452.3	6928.9	6055.7	5174.7
72.5°	2681.9	2646.9	3249.4	4677.2	6733.3	8325.6	8271.2	7467.9	6874.5	5901.5	4833.9
75°	1234.7	1194.6	1623.4	2863.3	5252.4	7377.2	7562.5	6988.5	6003.9	4697.9	2895.7
77.5°	368.0	356.3	522.1	1155.7	3052.5	5435.1	5506.3	5273.1	4191.3	2573.1	1074.1
80°	204.7	206.0	269.5	432.7	1342.3	3141.9	3398.4	3257.2	2056.1	849.9	357.6
82.5°	114.0	120.5	168.4	256.5	616.7	1442.0	1552.1	1496.4	743.7	399.0	195.6
85°	59.6	62.2	88.1	137.3	349.8	456.1	469.0	502.7	386.1	272.1	104.9
87.5°	23.3	23.3	32.4	57.0	129.6	141.2	127.0	154.2	221.5	176.2	51.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P478426
 CATALOG NUMBER: IFLD-S-SA2C-727-U-T4W

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1237.3	1237.3	1237.3	1237.3	1237.3	1237.3	1237.3	1237.3	1237.3	1237.3	1237.3
2.5°	1256.7	1246.4	1245.1	1228.2	1233.4	1219.2	1220.5	1217.9	1219.2	1216.6	1210.1
5°	1250.3	1242.5	1220.5	1234.7	1221.8	1239.9	1254.2	1249.0	1252.9	1251.6	1252.9
7.5°	1259.3	1249.0	1246.4	1238.6	1250.3	1258.0	1269.7	1302.1	1299.5	1303.4	1311.2
10°	1286.5	1274.9	1267.1	1278.8	1272.3	1296.9	1309.9	1326.7	1356.5	1357.8	1342.3
12.5°	1339.7	1331.9	1316.3	1318.9	1341.0	1348.7	1356.5	1366.9	1386.3	1382.4	1396.7
15°	1400.6	1383.7	1374.6	1372.1	1377.2	1386.3	1385.0	1395.4	1405.7	1414.8	1410.9
17.5°	1444.6	1422.6	1425.2	1438.1	1436.8	1434.2	1417.4	1412.2	1417.4	1422.6	1420.0
20°	1490.0	1492.5	1473.1	1461.4	1456.3	1430.4	1417.4	1401.8	1386.3	1394.1	1405.7
22.5°	1547.0	1535.3	1506.8	1471.8	1445.9	1430.4	1390.2	1363.0	1363.0	1370.8	1366.9
25°	1611.7	1587.1	1537.9	1474.4	1442.0	1375.9	1347.4	1343.5	1333.2	1344.8	1350.0
27.5°	1662.3	1640.2	1572.9	1465.3	1375.9	1322.8	1306.0	1300.8	1317.6	1318.9	1339.7
30°	1683.0	1676.5	1578.1	1442.0	1308.6	1223.1	1212.7	1236.0	1254.2	1281.4	1282.7
32.5°	1710.2	1712.8	1585.8	1387.6	1220.5	1135.0	1119.4	1147.9	1199.7	1221.8	1238.6
35°	1755.6	1768.5	1579.3	1320.2	1127.2	1045.6	1043.0	1050.7	1101.3	1140.1	1162.2
37.5°	1834.6	1832.0	1578.1	1239.9	1053.3	967.8	947.1	949.7	983.4	1015.8	1011.9
40°	1940.8	1930.5	1574.2	1135.0	957.5	901.7	866.8	853.8	851.2	842.1	844.7
42.5°	2085.9	2065.2	1572.9	1028.7	870.6	811.1	786.4	752.7	728.1	681.5	684.1
45°	2288.0	2251.8	1539.2	929.0	785.1	735.9	698.3	673.7	620.6	562.3	562.3
47.5°	2600.3	2482.4	1540.5	818.8	702.2	662.1	636.1	593.4	536.4	489.7	484.6
50°	3060.2	2790.7	1496.4	732.0	634.8	607.6	580.4	531.2	476.8	444.4	448.3
52.5°	3653.6	3250.7	1495.1	654.3	581.7	562.3	532.5	488.4	448.3	427.6	419.8
55°	4361.0	3859.6	1541.8	590.8	527.3	516.9	504.0	467.7	428.8	410.7	409.4
57.5°	5085.3	4454.3	1616.9	545.5	480.7	488.4	479.4	450.9	419.8	399.0	396.5
60°	5729.2	4925.9	1465.3	491.0	439.2	456.1	469.0	444.4	427.6	426.3	417.2
62.5°	6215.0	5128.0	1114.2	449.6	417.2	448.3	483.3	498.8	491.0	501.4	502.7
65°	6392.5	5006.2	767.0	427.6	400.3	466.4	544.2	539.0	493.6	474.2	484.6
67.5°	6143.8	4512.6	568.8	401.6	388.7	504.0	579.1	514.4	445.7	443.1	435.3
70°	5283.5	3824.6	463.8	374.4	369.2	483.3	563.6	476.8	419.8	402.9	395.2
72°	4209.4	2978.6	406.8	355.0	338.2	431.4	527.3	447.0	397.8	377.0	368.0
72.5°	3842.8	2760.9	399.0	345.9	331.7	419.8	509.2	437.9	392.6	374.4	360.2
75°	2108.0	1413.5	351.1	317.4	279.9	362.8	471.6	410.7	370.5	344.6	342.0
77.5°	783.8	548.0	303.2	281.1	242.3	313.5	428.8	390.0	336.9	304.5	298.0
80°	300.6	288.9	247.5	237.1	203.4	274.7	395.2	349.8	286.3	253.9	243.6
82.5°	182.7	168.4	187.9	185.3	155.5	250.1	371.8	327.8	253.9	206.0	199.5
85°	99.8	99.8	130.9	125.7	108.8	199.5	281.1	217.7	160.7	132.2	134.7
87.5°	44.1	51.8	70.0	66.1	59.6	112.7	137.3	115.3	80.3	54.4	58.3
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)