

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: P477997

Luminaire Tested: **IFLD-S-SA2C-722-U-T4FT**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P477997
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2C-722-U-T4FT
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4FT distribution lens
Light Source: (32) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

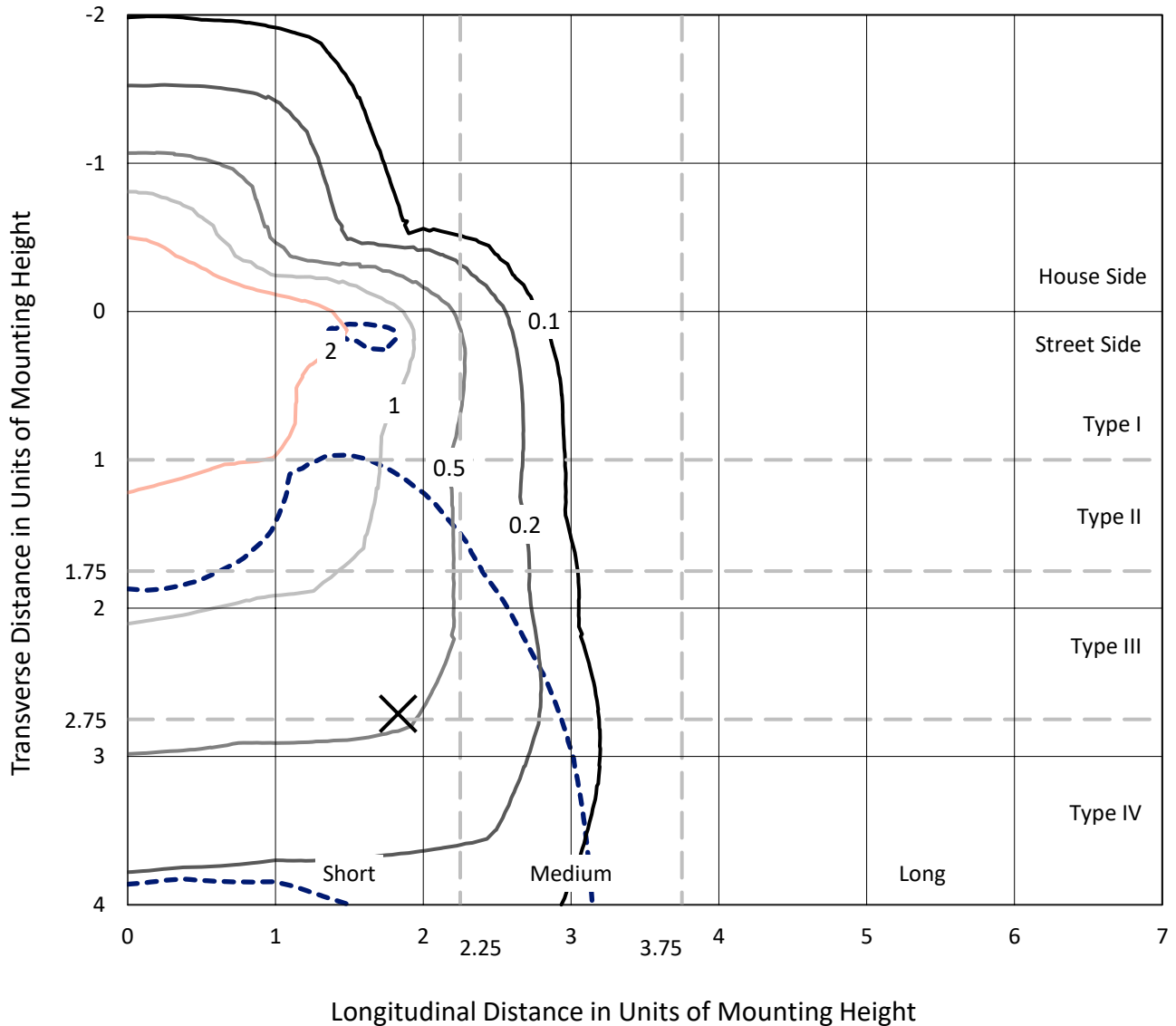
Lumens per Lamp: N/A
Luminaire Lumens: 10726 lumens
Efficiency: N/A
Efficacy: 99.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G2

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

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Iso-Footcandle Lines of Horizontal Illumination

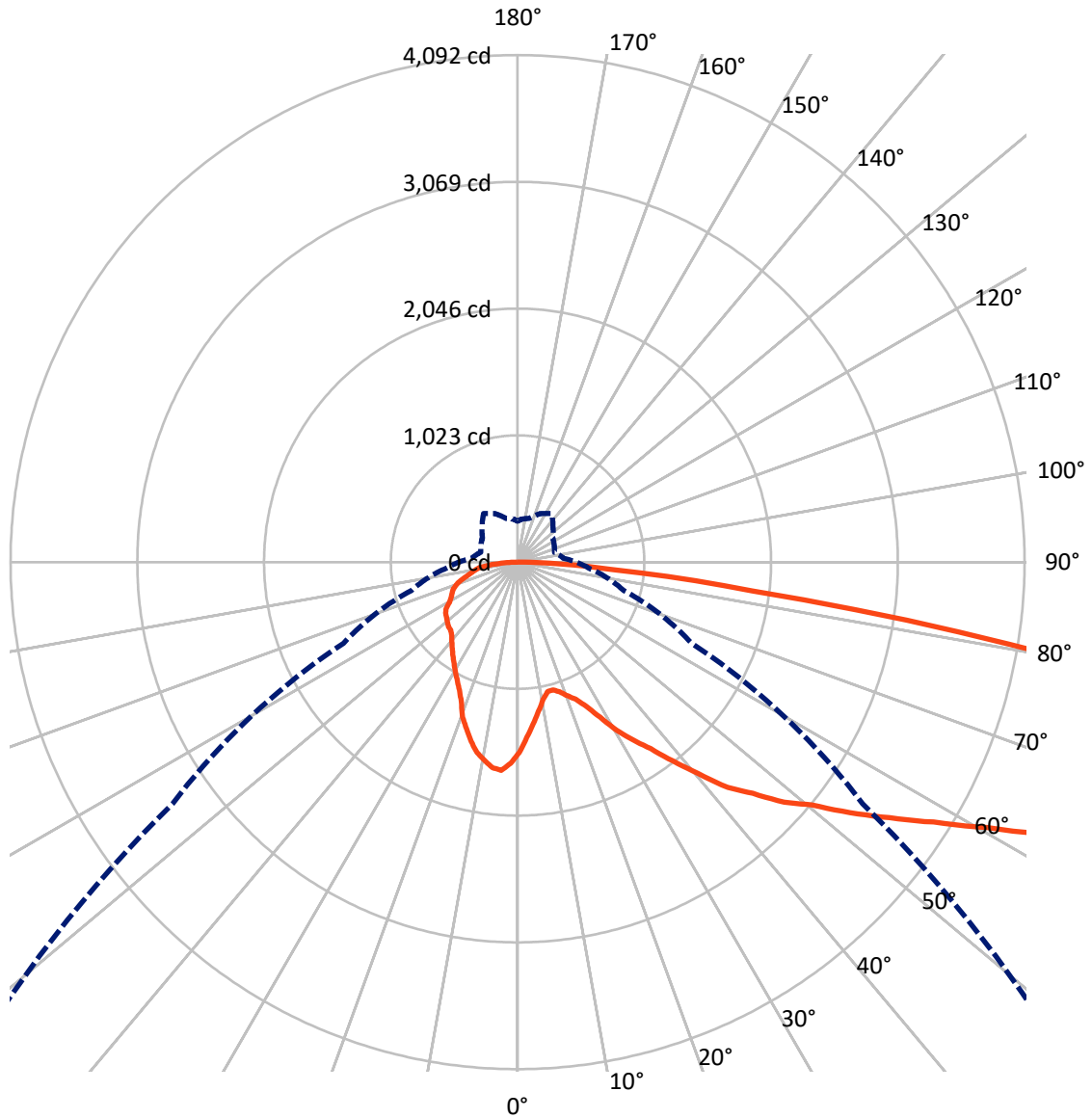
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4 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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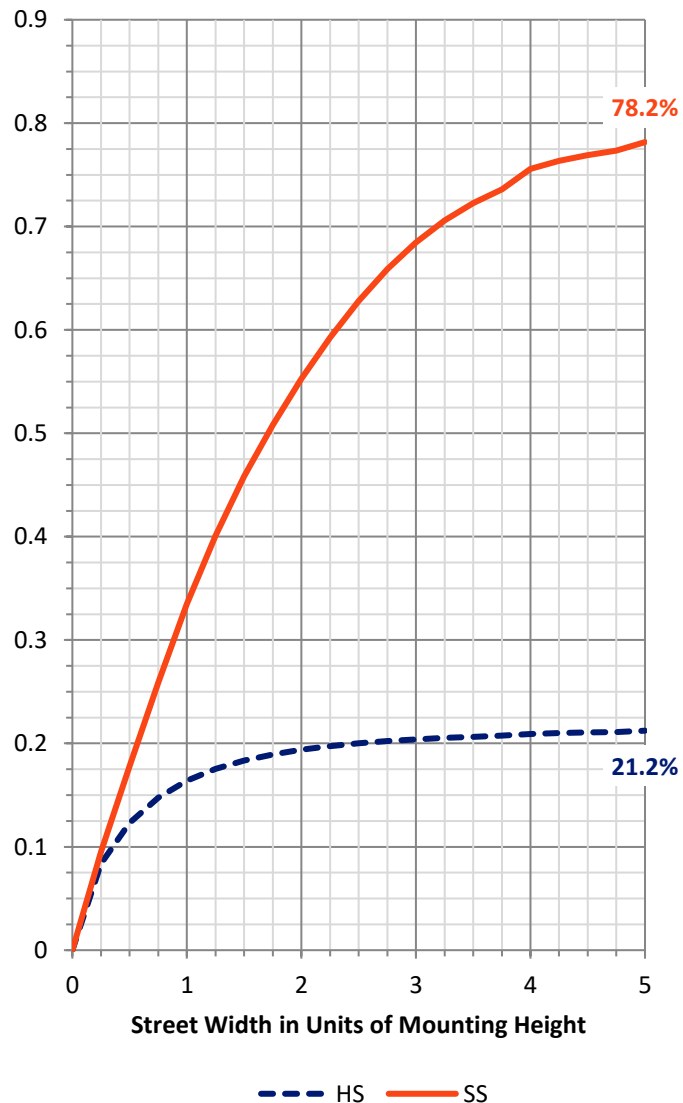
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2317.0	0.0	2317.0
	% Fixture	21.6	0.0	21.6
Street Side	Lumens	8409.1	0.0	8409.1
	% Fixture	78.4	0.0	78.4
Total	Lumens	10726.0	0.0	10726.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	141.9	1.3
10°-20°	397.2	3.7
20°-30°	653.7	6.1
30°-40°	977.6	9.1
40°-50°	1449.3	13.5
50°-60°	2088.6	19.5
60°-70°	2665.3	24.8
70°-80°	2074.1	19.3
80°-90°	278.3	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°	10726.0	100.0
0°-180°	10726.0	100.0

Coefficient of Utilization



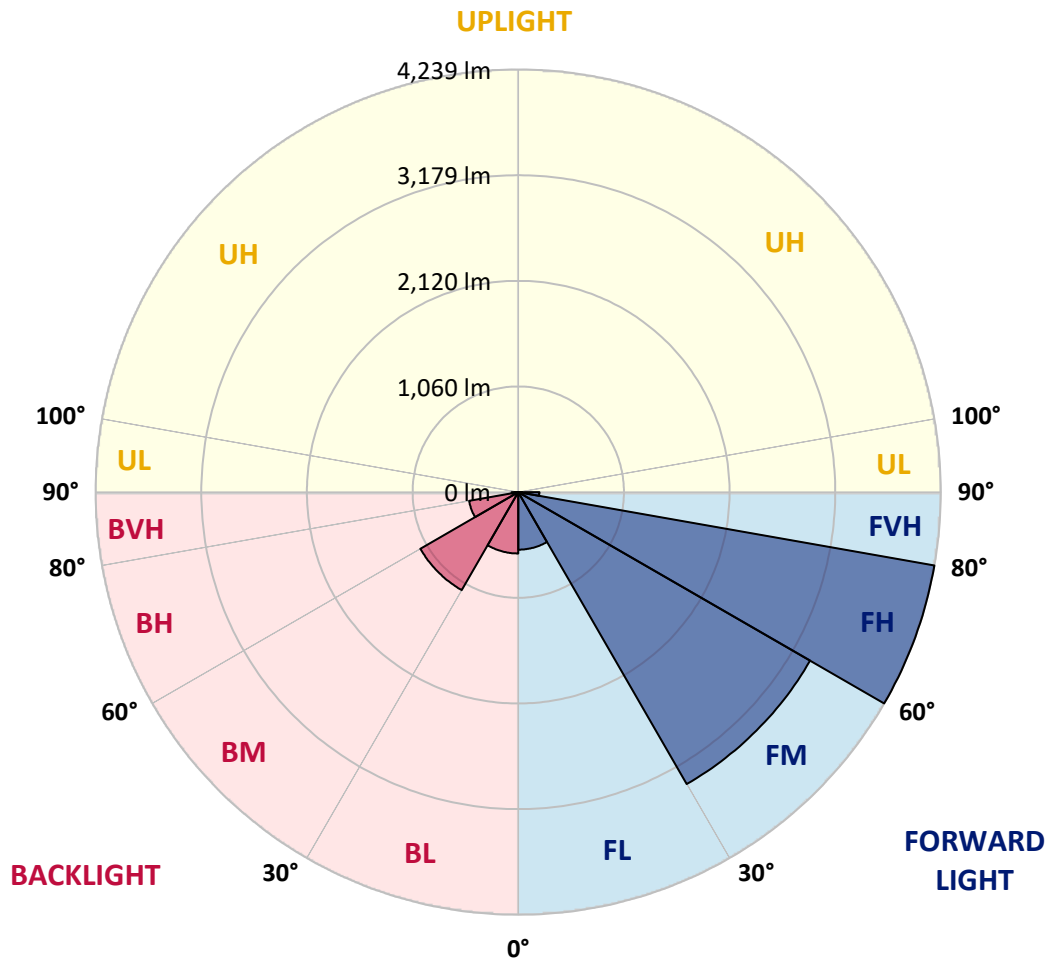
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	577.2	5.4			
FM (30°-60°)	3380.9	31.5			
FH (60°-80°)	4239.1	39.5			G2/5000
FVH (80°-90°)	211.8	2.0			G2/225
BL (0°-30°)	615.6	5.7	B2/1000		
BM (30°-60°)	1134.6	10.6	B2/2500		
BH (60°-80°)	500.3	4.7	B2/1000		G2/1000
BVH (80°-90°)	66.5	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-G2

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	1537.7	1537.7	1537.7	1537.7	1537.7	1537.7	1537.7	1537.7	1537.7	1537.7	1537.7
2.5°	1377.8	1382.4	1397.1	1400.5	1416.4	1407.3	1426.6	1460.6	1479.9	1508.3	1542.3
5°	1269.0	1249.7	1258.8	1293.9	1312.1	1316.6	1337.0	1394.9	1431.1	1473.1	1536.6
7.5°	1140.8	1137.4	1155.6	1178.3	1214.5	1217.9	1263.3	1314.3	1389.2	1482.2	1557.0
10°	1053.5	1068.3	1078.5	1102.3	1127.2	1127.2	1185.1	1273.5	1358.6	1448.2	1561.6
12.5°	1049.0	1039.9	1042.2	1054.6	1072.8	1095.5	1149.9	1229.3	1337.0	1441.3	1580.8
15°	1063.7	1067.1	1046.7	1062.6	1069.4	1077.3	1137.4	1227.0	1323.4	1465.2	1613.7
17.5°	1142.0	1122.7	1090.9	1076.2	1100.0	1100.0	1140.8	1211.1	1325.7	1477.6	1661.4
20°	1203.2	1203.2	1151.0	1135.2	1152.2	1148.8	1177.1	1229.3	1337.0	1502.6	1714.6
22.5°	1306.4	1321.1	1235.0	1202.1	1200.9	1210.0	1235.0	1279.2	1368.8	1537.7	1765.7
25°	1455.0	1458.4	1358.6	1324.5	1288.3	1303.0	1307.5	1351.8	1397.1	1578.6	1823.5
27.5°	1620.5	1618.3	1526.4	1441.3	1417.5	1420.9	1396.0	1425.5	1439.1	1591.0	1906.3
30°	1804.2	1783.8	1714.6	1594.4	1575.2	1553.6	1499.2	1498.1	1526.4	1661.4	2020.8
32.5°	1924.4	1898.4	1850.7	1764.5	1711.2	1713.5	1627.3	1626.2	1601.2	1738.5	2120.6
35°	2042.4	2002.7	1990.2	1901.8	1848.5	1854.1	1785.0	1775.9	1730.5	1855.3	2285.1
37.5°	2184.1	2149.0	2168.3	2101.4	2035.6	2008.4	1976.6	1965.3	1906.3	2019.7	2509.6
40°	2340.6	2329.3	2316.8	2283.9	2244.2	2246.5	2212.5	2201.1	2113.8	2218.2	2725.1
42.5°	2551.6	2508.5	2443.8	2465.4	2485.8	2507.3	2496.0	2466.5	2375.8	2420.0	2965.5
45°	2747.7	2691.0	2572.0	2578.8	2662.7	2679.7	2816.9	2813.5	2630.9	2676.3	3238.8
47.5°	2880.4	2854.3	2782.9	2775.0	2895.2	2894.0	3141.3	3141.3	2899.7	2931.5	3532.5
50°	3077.8	3009.7	2979.1	3018.8	3080.0	3122.0	3472.4	3493.9	3163.9	3198.0	3916.9
52.5°	3309.1	3224.0	3146.9	3249.0	3357.9	3385.1	3800.1	3791.1	3366.9	3507.5	4367.1
55°	3500.7	3457.7	3404.4	3463.3	3641.4	3675.4	4129.0	4045.1	3569.9	3763.8	4583.7
57.5°	3724.1	3750.2	3761.6	3746.8	3958.9	4012.2	4504.4	4263.9	3744.6	3936.2	4710.8
60°	4061.0	4076.8	4091.6	4126.7	4351.3	4426.1	4801.5	4538.4	3854.6	4036.0	4721.0
62.5°	4573.5	4512.3	4545.2	4666.5	4846.8	4931.9	5239.2	4731.2	3938.5	4096.1	4387.6
65°	5159.8	5077.0	5043.0	5199.5	5666.7	5598.7	5785.8	4875.2	3817.1	3871.6	3720.7
67.5°	5754.1	5763.1	5675.8	5989.9	6562.6	6562.6	6293.9	4944.4	3488.3	3137.9	2609.4
70°	6225.8	6254.2	6301.8	6910.8	7818.0	7955.2	6923.2	4660.9	2818.1	2088.9	1426.6
72.5°	6219.0	6134.0	6377.8	7499.3	8958.8	8844.3	7054.8	3685.6	1758.9	1022.9	654.3
73°	6079.5	6008.1	6274.6	7493.7	9005.3	8897.6	6958.4	3397.5	1551.3	886.8	581.8
75°	4964.8	4835.5	5289.1	6787.2	8331.7	8414.5	5911.7	2215.9	850.5	546.6	409.4
77.5°	2263.5	2320.2	2911.0	4553.1	6420.9	6518.4	3886.3	958.3	466.1	383.3	301.7
80°	726.9	763.2	1132.9	2263.5	4024.7	4200.4	1796.3	435.5	332.3	293.7	225.7
82.5°	277.8	276.7	475.2	941.2	1907.4	2019.7	656.6	265.4	247.2	216.6	159.9
85°	97.5	102.1	179.2	372.0	750.7	785.9	227.9	147.4	171.2	145.2	91.9
87.5°	34.0	35.2	63.5	134.9	258.6	273.3	63.5	59.0	85.1	83.9	46.5
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°	1537.7	1537.7	1537.7	1537.7	1537.7	1537.7	1537.7	1537.7	1537.7	1537.7	1537.7
2.5°	1553.6	1563.8	1567.2	1608.1	1608.1	1608.1	1623.9	1623.9	1619.4	1608.1	1635.3
5°	1560.4	1578.6	1613.7	1648.9	1657.9	1665.9	1687.4	1669.3	1676.1	1664.8	1675.0
7.5°	1579.7	1604.6	1670.4	1692.0	1677.2	1694.2	1671.6	1659.1	1646.6	1651.1	1635.3
10°	1612.6	1644.3	1675.0	1714.6	1686.3	1669.3	1622.8	1611.5	1571.8	1558.2	1570.6
12.5°	1653.4	1692.0	1744.1	1729.4	1675.0	1626.2	1576.3	1528.7	1504.9	1470.8	1479.9
15°	1694.2	1738.5	1746.4	1721.5	1653.4	1592.2	1501.5	1434.5	1410.7	1380.1	1396.0
17.5°	1738.5	1780.4	1766.8	1702.2	1610.3	1517.3	1414.1	1348.4	1298.5	1279.2	1279.2
20°	1804.2	1824.7	1803.1	1670.4	1558.2	1435.7	1335.9	1261.0	1211.1	1203.2	1190.7
22.5°	1855.3	1888.2	1791.8	1623.9	1482.2	1329.1	1214.5	1186.2	1171.5	1159.0	1143.1
25°	1921.0	1919.9	1771.4	1580.8	1351.8	1202.1	1132.9	1130.6	1123.8	1119.3	1140.8
27.5°	1983.4	1957.3	1747.5	1474.2	1216.8	1105.7	1068.3	1093.2	1103.4	1096.6	1105.7
30°	2082.1	2039.0	1713.5	1360.8	1097.7	1008.2	1015.0	1049.0	1066.0	1076.2	1062.6
32.5°	2186.4	2120.6	1643.2	1242.9	992.3	946.9	962.8	997.9	1018.4	1029.7	1042.2
35°	2337.2	2184.1	1571.8	1088.7	916.3	909.5	918.6	937.8	967.3	975.3	978.7
37.5°	2523.2	2280.5	1475.4	965.1	857.3	865.3	874.3	881.1	882.3	897.0	891.3
40°	2709.2	2362.2	1334.8	847.1	796.1	839.2	834.6	822.2	812.0	798.4	795.0
42.5°	2872.5	2433.6	1178.3	747.3	741.7	812.0	797.2	765.5	741.7	731.4	714.4
45°	3056.2	2534.6	1020.6	685.0	699.7	779.1	774.5	725.8	695.2	658.9	654.3
47.5°	3294.4	2640.0	869.8	620.3	660.0	766.6	768.9	706.5	662.3	613.5	606.7
50°	3599.4	2792.0	755.3	593.1	636.2	748.5	751.9	680.4	622.6	572.7	568.1
52.5°	3892.0	2947.3	660.0	551.1	620.3	726.9	734.8	656.6	589.7	527.3	530.7
55°	4039.4	2890.6	578.4	520.5	584.0	691.8	721.2	639.6	539.8	496.7	495.6
57.5°	4072.3	2751.2	513.7	488.8	553.4	654.3	698.6	588.6	517.1	480.8	476.3
60°	3964.6	2507.3	462.7	454.7	514.8	615.8	646.4	561.3	494.4	465.0	458.1
62.5°	3699.2	2254.4	427.5	438.9	482.0	573.8	613.5	542.1	472.9	452.5	437.7
65°	3033.5	1854.1	399.2	408.2	447.9	533.0	593.1	520.5	453.6	434.3	433.2
67.5°	2101.4	1278.0	376.5	393.5	420.7	503.5	572.7	496.7	428.7	421.9	412.8
70°	1076.2	681.6	347.0	360.6	391.2	466.1	536.4	471.8	402.6	401.4	390.1
72.5°	545.5	399.2	313.0	333.4	355.0	417.3	491.0	438.9	369.7	357.2	339.1
73°	471.8	369.7	307.3	325.5	345.9	403.7	477.4	430.9	365.2	347.0	330.0
75°	343.6	291.4	275.6	293.7	309.6	364.0	432.1	394.6	335.7	316.4	300.5
77.5°	257.4	224.5	229.1	249.5	263.1	314.1	384.4	357.2	303.9	277.8	271.0
80°	189.4	171.2	189.4	208.7	218.9	276.7	350.4	309.6	256.3	226.8	221.1
82.5°	134.9	124.7	146.3	158.8	163.3	229.1	315.3	247.2	193.9	155.4	142.9
85°	77.1	76.0	98.7	97.5	100.9	133.8	207.5	164.4	124.7	95.3	93.0
87.5°	34.0	37.4	49.9	39.7	42.0	63.5	88.5	61.2	51.0	28.4	21.5
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)