

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: P478702

Luminaire Tested: **IFLD-S-SA3A-830-U-T4W**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P478702
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3A-830-U-T4W
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4W distribution lens
Light Source: (48) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

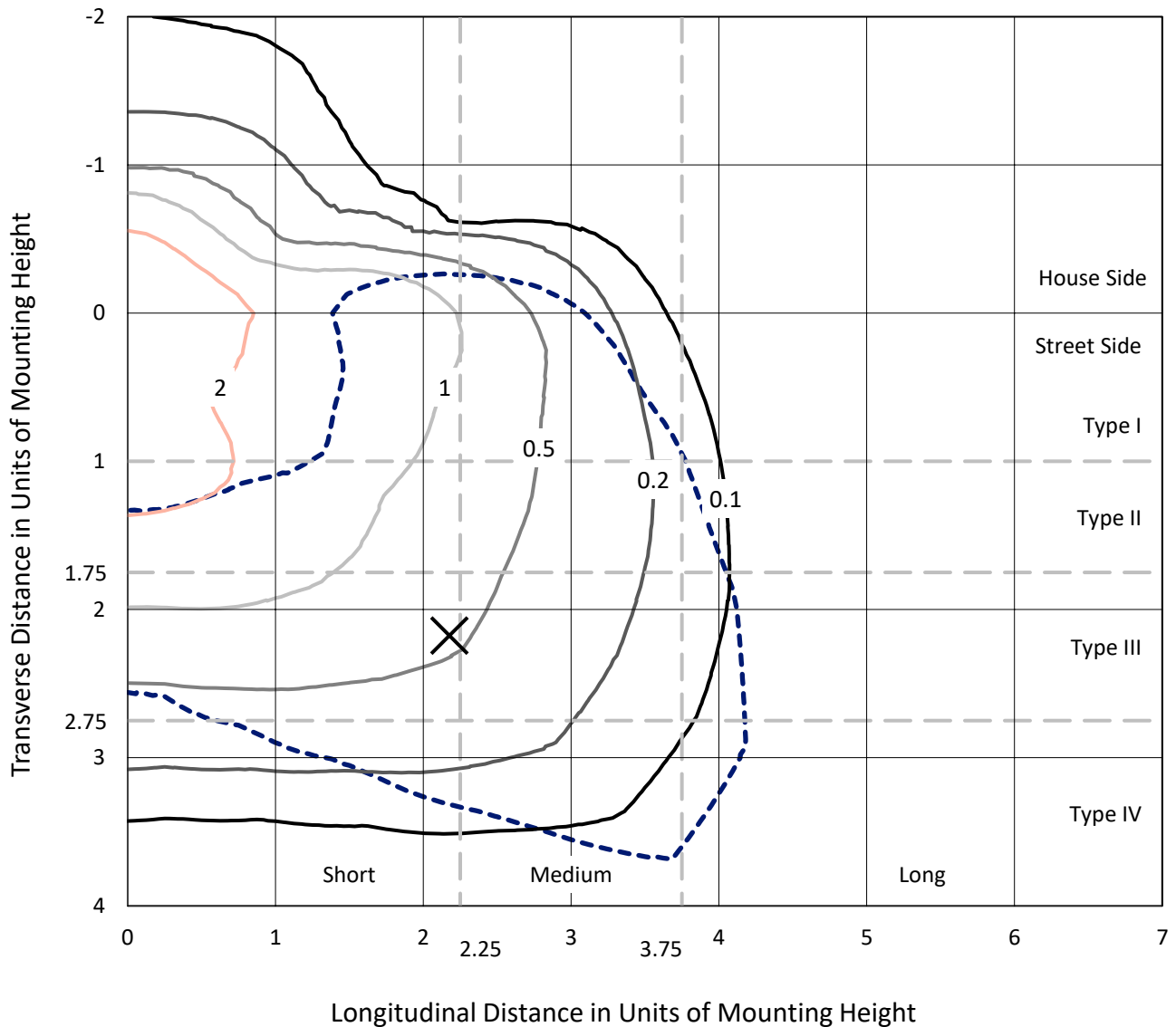
Lumens per Lamp: N/A
Luminaire Lumens: 11050.4 lumens
Efficiency: N/A
Efficacy: 116.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G2

Input Watts (W): 94.8
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: P478702
 CATALOG NUMBER: IFLD-S-SA3A-830-U-T4W

Iso-Footcandle Lines of Horizontal Illumination

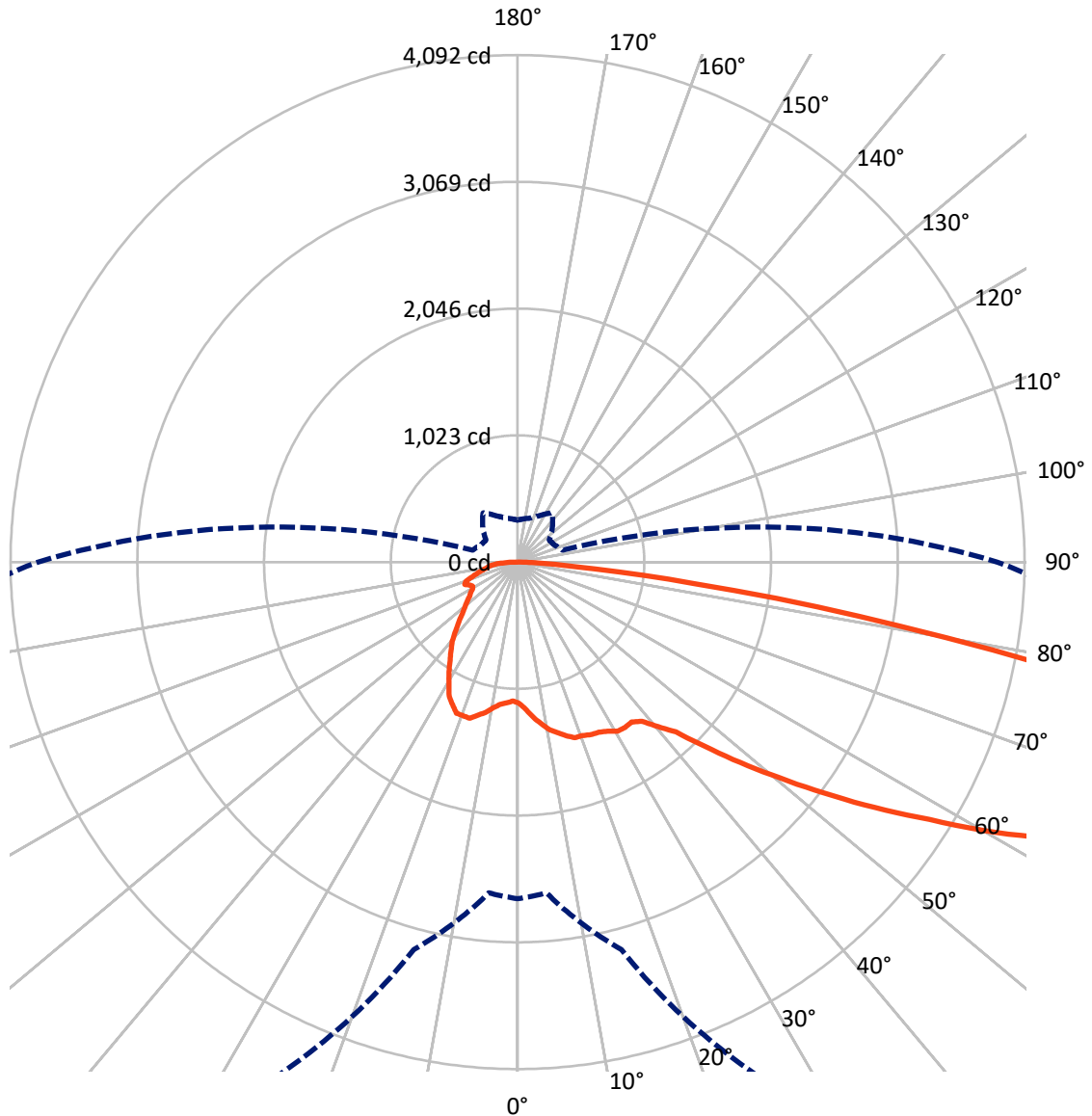
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 3.6 fc
 Type IV - Short - N/A

REPORT NUMBER: P478702
CATALOG NUMBER: IFLD-S-SA3A-830-U-T4W

Luminous Intensity Polar Plot



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

REPORT NUMBER: P478702
 CATALOG NUMBER: IFLD-S-SA3A-830-U-T4W

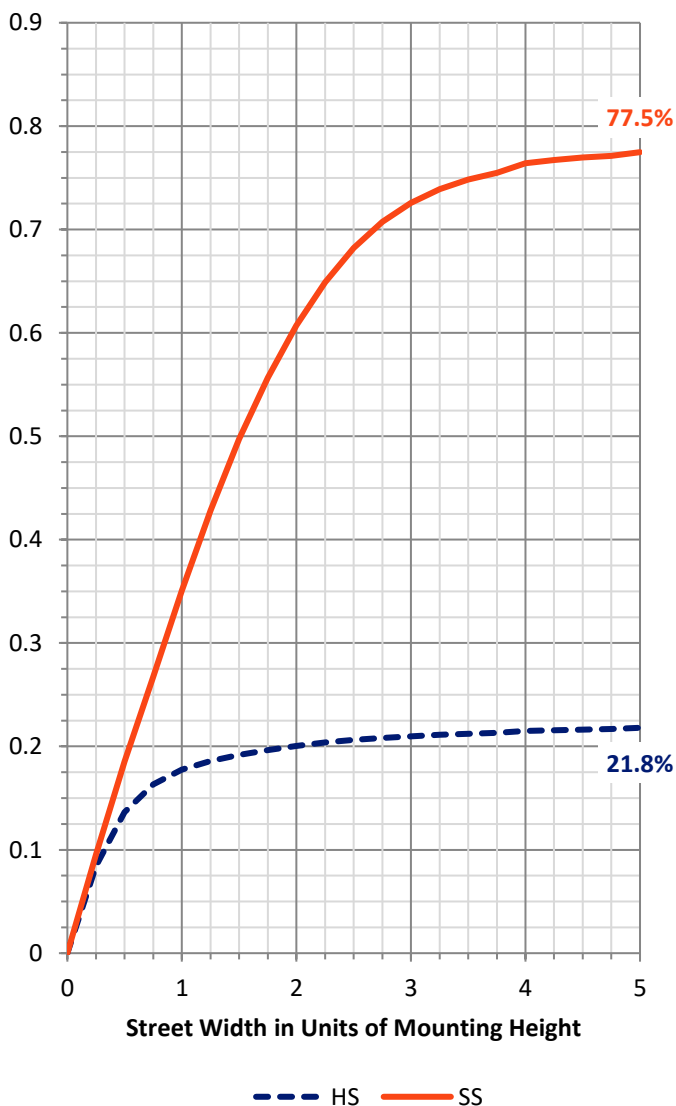
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2459.9	0.0	2459.9
	% Fixture	22.3	0.0	22.3
Street Side	Lumens	8590.5	0.0	8590.5
	% Fixture	77.7	0.0	77.7
Total	Lumens	11050.4	0.0	11050.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	116.4	1.1
10°-20°	387.4	3.5
20°-30°	654.3	5.9
30°-40°	905.4	8.2
40°-50°	1295.1	11.7
50°-60°	2088.8	18.9
60°-70°	3080.7	27.9
70°-80°	2237.1	20.2
80°-90°	285.2	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°	11050.4	100.0
0°-180°	11050.4	100.0



REPORT NUMBER: P478702

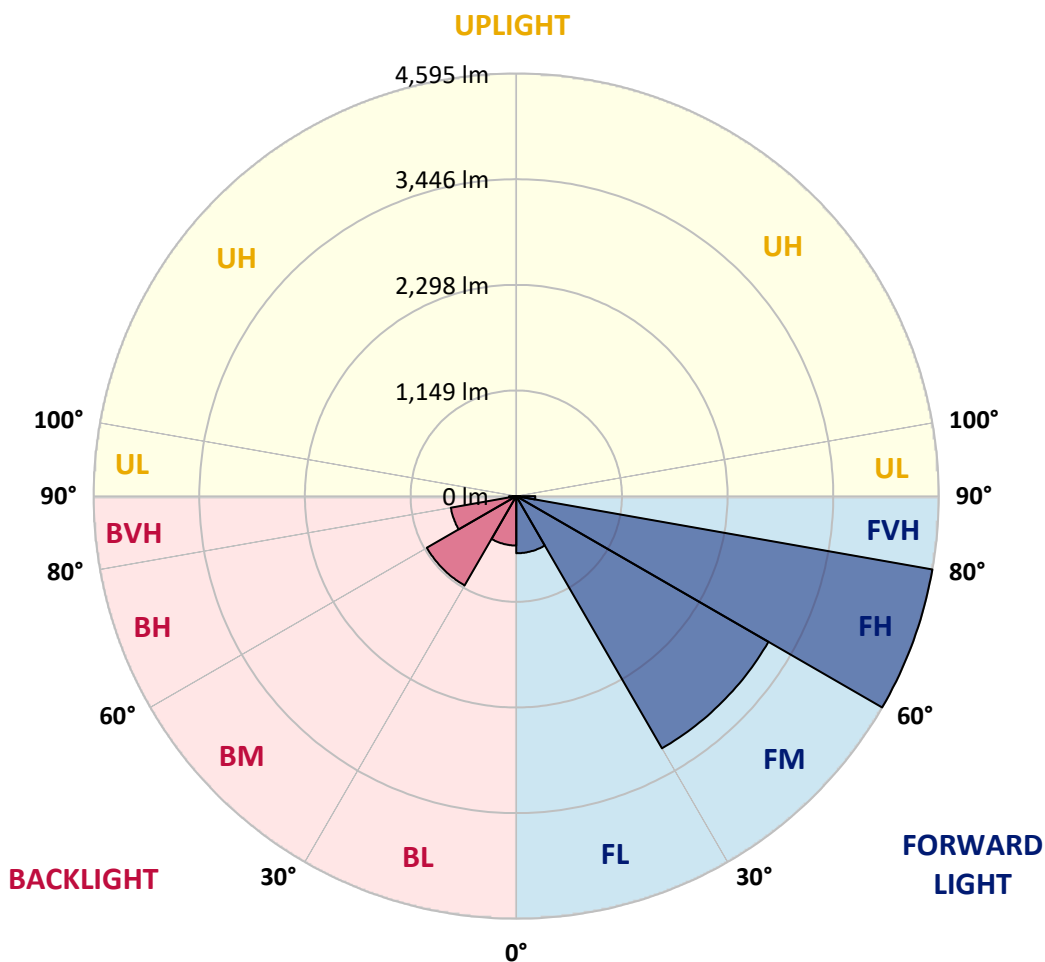
CATALOG NUMBER: IFLD-S-SA3A-830-U-T4W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	621.0	5.6			
FM (30°-60°)	3166.6	28.7			
FH (60°-80°)	4595.2	41.6			G2/5000
FVH (80°-90°)	207.6	1.9			G2/225
BL (0°-30°)	537.1	4.9	B2/1000		
BM (30°-60°)	1122.6	10.2	B2/2500		
BH (60°-80°)	722.6	6.5	B2/1000		G2/1000
BVH (80°-90°)	77.6	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-G2

Type IV Short





REPORT NUMBER: P478702

CATALOG NUMBER: IFLD-S-SA3A-830-U-T4W

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	1138.0	1138.0	1138.0	1138.0	1138.0	1138.0	1138.0	1138.0	1138.0	1138.0	1138.0
2.5°	1198.8	1205.9	1198.8	1197.6	1185.7	1177.3	1184.5	1173.7	1161.8	1157.1	1146.3
5°	1308.4	1309.6	1296.5	1297.7	1272.6	1246.4	1251.2	1219.0	1184.5	1171.4	1149.9
7.5°	1420.4	1407.3	1388.2	1382.3	1342.9	1314.3	1310.8	1282.2	1228.6	1198.8	1169.0
10°	1493.1	1497.9	1466.9	1440.7	1407.3	1372.7	1371.5	1317.9	1286.9	1242.9	1204.7
12.5°	1557.4	1558.6	1532.4	1490.7	1449.0	1406.1	1412.1	1388.2	1335.8	1294.1	1256.0
15°	1607.5	1600.3	1571.7	1533.6	1489.5	1456.1	1452.6	1432.3	1388.2	1353.7	1290.5
17.5°	1621.8	1618.2	1589.6	1549.1	1506.2	1481.2	1490.7	1457.3	1439.5	1408.5	1347.7
20°	1594.4	1586.0	1581.3	1536.0	1505.0	1502.6	1494.3	1501.4	1471.6	1443.0	1399.0
22.5°	1544.3	1540.8	1538.4	1502.6	1488.3	1499.0	1513.3	1524.1	1519.3	1491.9	1441.8
25°	1493.1	1509.8	1494.3	1477.6	1497.9	1525.3	1521.7	1556.2	1556.2	1547.9	1506.2
27.5°	1528.8	1518.1	1506.2	1497.9	1505.0	1547.9	1545.5	1587.2	1602.7	1587.2	1539.6
30°	1618.2	1607.5	1572.9	1536.0	1526.5	1572.9	1584.8	1621.8	1628.9	1590.8	1550.3
32.5°	1786.2	1780.3	1725.5	1617.0	1558.6	1584.8	1590.8	1632.5	1626.5	1602.7	1586.0
35°	2035.3	2015.0	1938.8	1755.2	1626.5	1600.3	1584.8	1618.2	1640.8	1628.9	1613.4
37.5°	2308.2	2285.5	2191.4	1959.0	1749.3	1642.0	1630.1	1657.5	1683.7	1677.8	1645.6
40°	2569.1	2569.1	2484.5	2214.0	1931.6	1743.3	1745.7	1714.7	1738.6	1727.8	1733.8
42.5°	2826.5	2817.0	2782.4	2513.1	2127.0	1912.5	1874.4	1796.9	1839.8	1836.3	1844.6
45°	3087.5	3080.3	3070.8	2791.9	2407.1	2141.3	2121.1	1981.6	2021.0	2004.3	2040.0
47.5°	3296.0	3304.3	3304.3	3103.0	2706.1	2446.4	2416.6	2196.1	2271.2	2279.6	2287.9
50°	3473.5	3477.1	3473.5	3399.7	3039.8	2795.5	2734.7	2510.7	2585.8	2651.3	2727.6
52.5°	3719.0	3723.8	3707.1	3678.5	3492.6	3162.5	3094.6	2845.6	2999.3	3068.4	3205.4
55°	4021.7	3985.9	3955.0	3976.4	3927.5	3566.5	3496.2	3191.1	3422.3	3514.1	3788.1
57.5°	4077.7	4108.7	4187.3	4357.7	4428.0	3959.7	3919.2	3615.3	3900.1	3980.0	4437.6
60°	4275.5	4224.3	4417.3	4786.7	4865.3	4472.1	4430.4	4080.1	4375.6	4459.0	5036.9
62.5°	4405.4	4403.0	4689.0	5127.5	5306.2	5003.6	4919.0	4684.2	4889.2	4970.2	5689.9
65°	4367.3	4401.8	4909.4	5327.7	5674.5	5607.7	5558.9	5203.8	5474.3	5467.1	6115.3
67.5°	4019.3	4117.0	4770.0	5471.9	6222.6	6344.1	6328.6	5934.2	5949.7	5798.4	6304.8
70°	3536.7	3503.3	4180.2	5321.7	6496.7	7217.6	7214.0	6477.6	6377.5	5871.1	5761.4
72°	2716.9	2679.9	3236.4	4569.8	6352.5	7566.7	7674.0	6854.1	6372.7	5569.6	4759.3
72.5°	2466.6	2434.5	2988.6	4301.7	6192.8	7657.3	7607.2	6868.4	6322.7	5427.8	4445.9
75°	1135.6	1098.7	1493.1	2633.5	4830.8	6785.0	6955.4	6427.5	5521.9	4320.8	2663.3
77.5°	338.4	327.7	480.2	1062.9	2807.4	4998.8	5064.3	4849.9	3854.9	2366.5	987.8
80°	188.3	189.5	247.9	398.0	1234.5	2889.7	3125.6	2995.7	1891.1	781.7	328.9
82.5°	104.9	110.8	154.9	235.9	567.2	1326.3	1427.5	1376.3	684.0	367.0	179.9
85°	54.8	57.2	81.0	126.3	321.7	419.4	431.4	462.3	355.1	250.2	96.5
87.5°	21.4	21.4	29.8	52.4	119.2	129.9	116.8	141.8	203.8	162.1	47.7
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: P478702
 CATALOG NUMBER: IFLD-S-SA3A-830-U-T4W

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1138.0	1138.0	1138.0	1138.0	1138.0	1138.0	1138.0	1138.0	1138.0	1138.0	1138.0
2.5°	1155.9	1146.3	1145.1	1129.6	1134.4	1121.3	1122.5	1120.1	1121.3	1118.9	1113.0
5°	1149.9	1142.8	1122.5	1135.6	1123.7	1140.4	1153.5	1148.7	1152.3	1151.1	1152.3
7.5°	1158.2	1148.7	1146.3	1139.2	1149.9	1157.1	1167.8	1197.6	1195.2	1198.8	1205.9
10°	1183.3	1172.5	1165.4	1176.1	1170.2	1192.8	1204.7	1220.2	1247.6	1248.8	1234.5
12.5°	1232.1	1225.0	1210.7	1213.1	1233.3	1240.5	1247.6	1257.1	1275.0	1271.4	1284.6
15°	1288.1	1272.6	1264.3	1261.9	1266.7	1275.0	1273.8	1283.4	1292.9	1301.2	1297.7
17.5°	1328.6	1308.4	1310.8	1322.7	1321.5	1319.1	1303.6	1298.9	1303.6	1308.4	1306.0
20°	1370.4	1372.7	1354.9	1344.1	1339.4	1315.5	1303.6	1289.3	1275.0	1282.2	1292.9
22.5°	1422.8	1412.1	1385.8	1353.7	1329.8	1315.5	1278.6	1253.6	1253.6	1260.7	1257.1
25°	1482.4	1459.7	1414.4	1356.1	1326.3	1265.5	1239.3	1235.7	1226.2	1236.9	1241.7
27.5°	1528.8	1508.6	1446.6	1347.7	1265.5	1216.6	1201.1	1196.4	1211.9	1213.1	1232.1
30°	1547.9	1541.9	1451.4	1326.3	1203.5	1124.9	1115.3	1136.8	1153.5	1178.5	1179.7
32.5°	1572.9	1575.3	1458.5	1276.2	1122.5	1043.9	1029.6	1055.8	1103.4	1123.7	1139.2
35°	1614.6	1626.5	1452.6	1214.3	1036.7	961.6	959.2	966.4	1012.9	1048.6	1068.9
37.5°	1687.3	1684.9	1451.4	1140.4	968.8	890.1	871.1	873.5	904.4	934.2	930.6
40°	1785.0	1775.5	1447.8	1043.9	880.6	829.4	797.2	785.3	782.9	774.5	776.9
42.5°	1918.5	1899.4	1446.6	946.1	800.8	745.9	723.3	692.3	669.7	626.8	629.2
45°	2104.4	2071.0	1415.6	854.4	722.1	676.8	642.3	619.6	570.8	517.2	517.2
47.5°	2391.6	2283.1	1416.8	753.1	645.9	608.9	585.1	545.8	493.3	450.4	445.7
50°	2814.6	2566.7	1376.3	673.3	583.9	558.9	533.8	488.6	438.5	408.7	412.3
52.5°	3360.3	2989.8	1375.1	601.8	535.0	517.2	489.8	449.2	412.3	393.2	386.1
55°	4011.0	3549.8	1418.0	543.4	485.0	475.5	463.5	430.2	394.4	377.7	376.5
57.5°	4677.1	4096.8	1487.1	501.7	442.1	449.2	440.9	414.7	386.1	367.0	364.6
60°	5269.3	4530.5	1347.7	451.6	404.0	419.4	431.4	408.7	393.2	392.0	383.7
62.5°	5716.2	4716.4	1024.8	413.5	383.7	412.3	444.5	458.8	451.6	461.2	462.3
65°	5879.4	4604.4	705.4	393.2	368.2	429.0	500.5	495.7	454.0	436.1	445.7
67.5°	5650.6	4150.4	523.1	369.4	357.5	463.5	532.7	473.1	409.9	407.5	400.4
70°	4859.4	3517.6	426.6	344.4	339.6	444.5	518.4	438.5	386.1	370.6	363.4
72°	3871.5	2739.5	374.2	326.5	311.0	396.8	485.0	411.1	365.8	346.8	338.4
72.5°	3534.3	2539.3	367.0	318.2	305.1	386.1	468.3	402.8	361.1	344.4	331.3
75°	1938.8	1300.0	322.9	291.9	257.4	333.7	433.7	377.7	340.8	317.0	314.6
77.5°	720.9	504.1	278.8	258.6	222.8	288.4	394.4	358.7	309.8	280.0	274.1
80°	276.5	265.7	227.6	218.1	187.1	252.6	363.4	321.7	263.3	233.6	224.0
82.5°	168.0	154.9	172.8	170.4	143.0	230.0	342.0	301.5	233.6	189.5	183.5
85°	91.8	91.8	120.4	115.6	100.1	183.5	258.6	200.2	147.8	121.5	123.9
87.5°	40.5	47.7	64.3	60.8	54.8	103.7	126.3	106.1	73.9	50.0	53.6
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)