

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: P478542

Luminaire Tested: **IFLD-S-SA2B-740-U-T4W**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P478542
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-T4W
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4W distribution lens
Light Source: (32) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

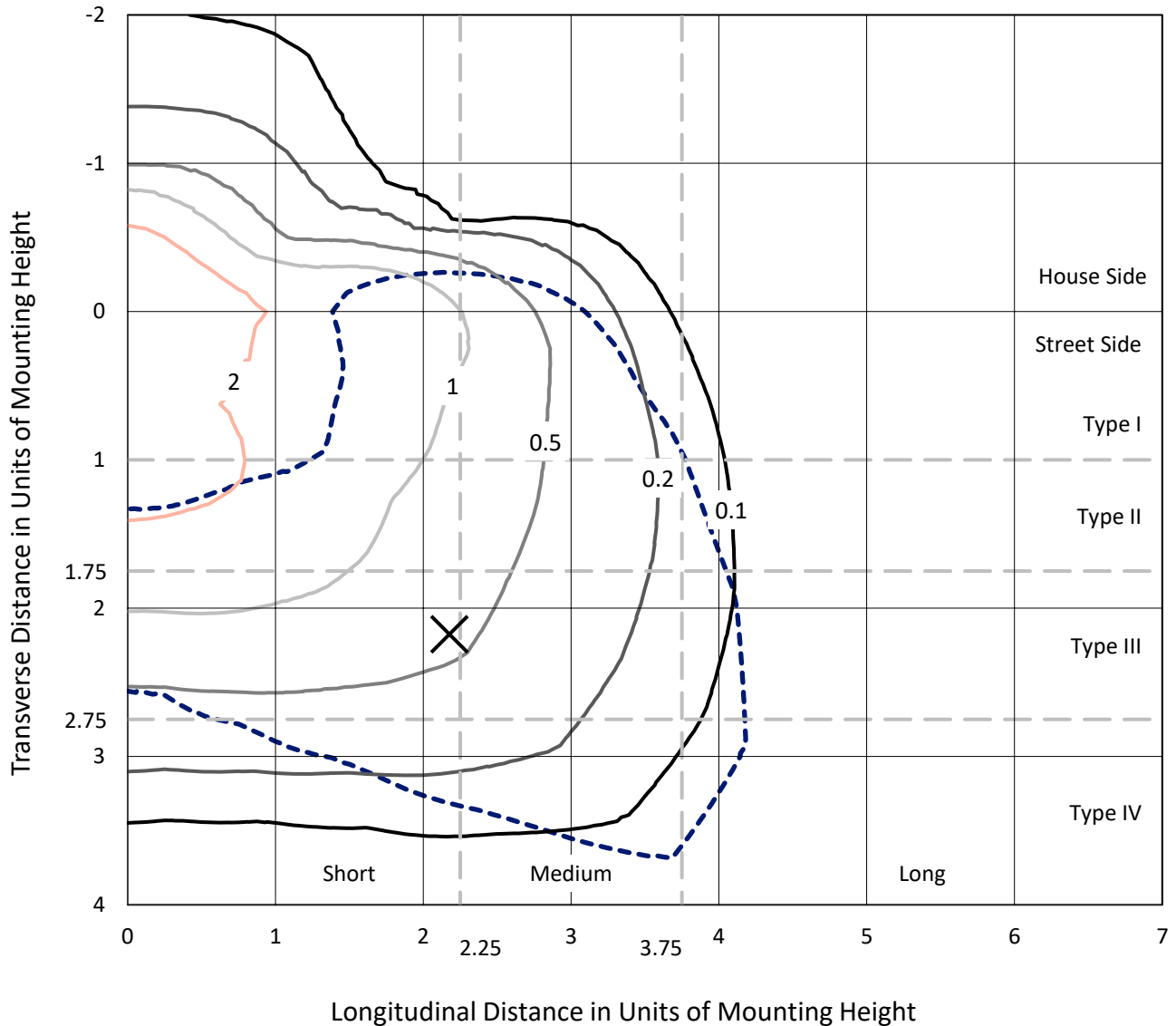
Lumens per Lamp: N/A
Luminaire Lumens: 11540.9 lumens
Efficiency: N/A
Efficacy: 140.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G2

Input Watts (W): 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

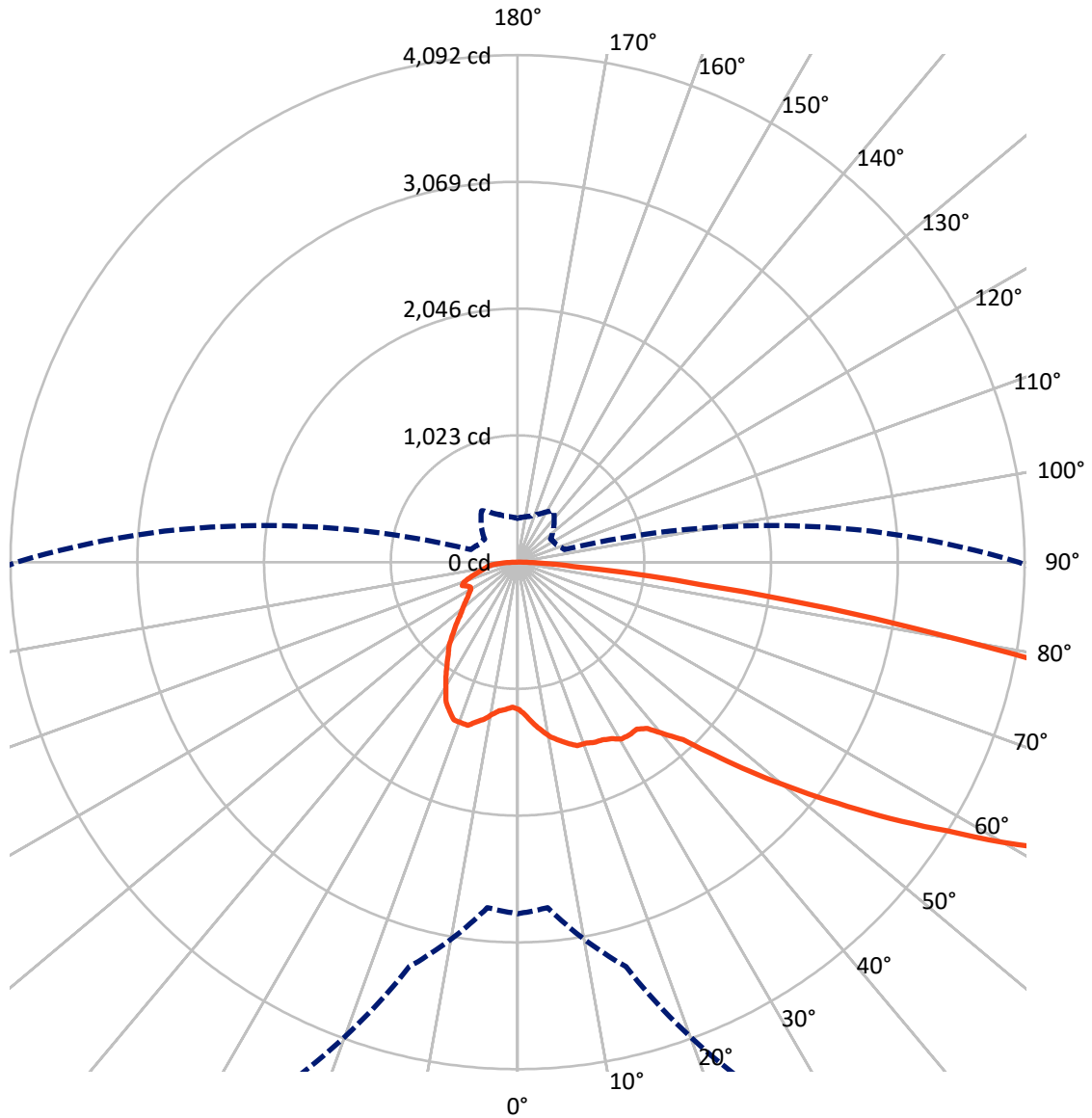
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 3.8 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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

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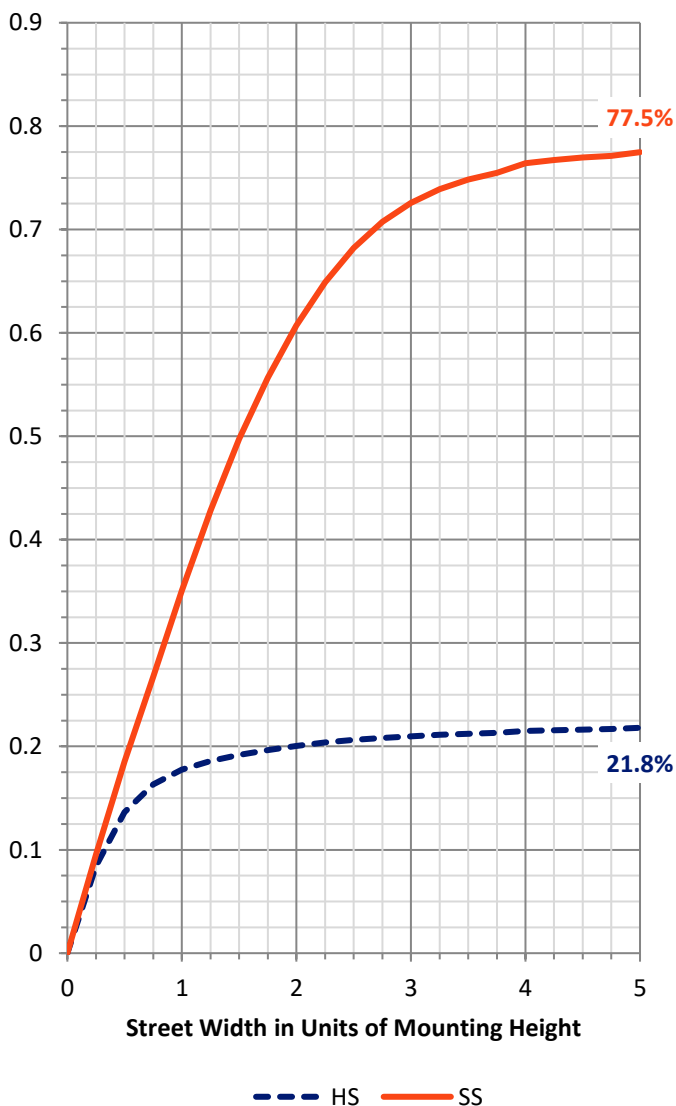
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2569.1	0.0	2569.1
	% Fixture	22.3	0.0	22.3
Street Side	Lumens	8971.8	0.0	8971.8
	% Fixture	77.7	0.0	77.7
Total	Lumens	11540.9	0.0	11540.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	121.6	1.1
10°-20°	404.6	3.5
20°-30°	683.3	5.9
30°-40°	945.6	8.2
40°-50°	1352.6	11.7
50°-60°	2181.5	18.9
60°-70°	3217.4	27.9
70°-80°	2336.4	20.2
80°-90°	297.8	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°	11540.9	100.0
0°-180°	11540.9	100.0

Coefficient of Utilization



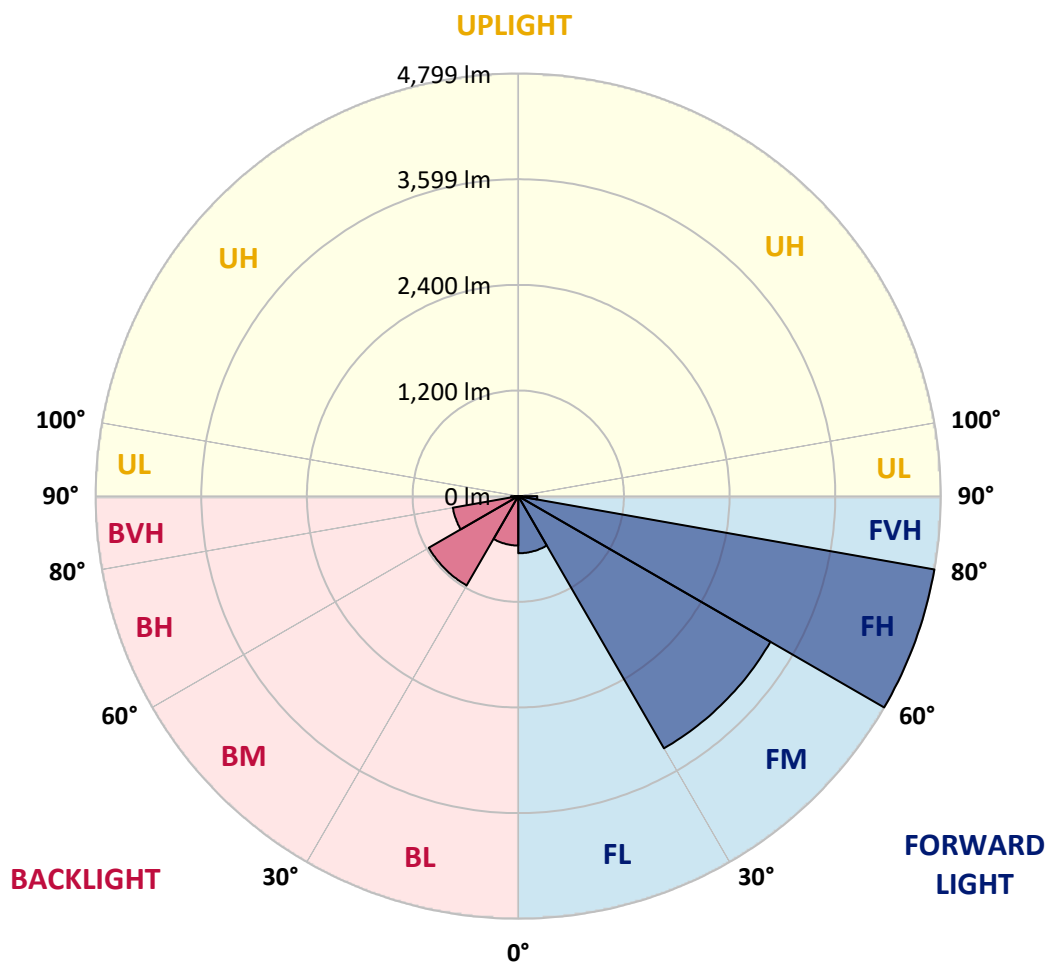
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	648.6	5.6			
FM (30°-60°)	3307.2	28.7			
FH (60°-80°)	4799.2	41.6			G2/5000
FVH (80°-90°)	216.8	1.9			G2/225
BL (0°-30°)	560.9	4.9	B2/1000		
BM (30°-60°)	1172.4	10.2	B2/2500		
BH (60°-80°)	754.6	6.5	B2/1000		G2/1000
BVH (80°-90°)	81.1	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	1188.5	1188.5	1188.5	1188.5	1188.5	1188.5	1188.5	1188.5	1188.5	1188.5	1188.5
2.5°	1252.0	1259.4	1252.0	1250.7	1238.3	1229.6	1237.0	1225.8	1213.4	1208.4	1197.2
5°	1366.5	1367.7	1354.0	1355.3	1329.1	1301.7	1306.7	1273.1	1237.0	1223.3	1200.9
7.5°	1483.4	1469.8	1449.8	1443.6	1402.6	1372.7	1369.0	1339.1	1283.1	1252.0	1220.9
10°	1559.4	1564.3	1532.0	1504.6	1469.8	1433.7	1432.4	1376.4	1344.1	1298.0	1258.2
12.5°	1626.6	1627.8	1600.4	1556.9	1513.3	1468.5	1474.7	1449.8	1395.1	1351.5	1311.7
15°	1678.8	1671.4	1641.5	1601.7	1555.6	1520.8	1517.0	1495.9	1449.8	1413.8	1347.8
17.5°	1693.8	1690.0	1660.2	1617.9	1573.0	1546.9	1556.9	1522.0	1503.4	1471.0	1407.5
20°	1665.1	1656.4	1651.5	1604.2	1571.8	1569.3	1560.6	1568.1	1537.0	1507.1	1461.0
22.5°	1612.9	1609.1	1606.7	1569.3	1554.4	1565.6	1580.5	1591.7	1586.7	1558.1	1505.8
25°	1559.4	1576.8	1560.6	1543.2	1564.3	1593.0	1589.2	1625.3	1625.3	1616.6	1573.0
27.5°	1596.7	1585.5	1573.0	1564.3	1571.8	1616.6	1614.1	1657.7	1673.9	1657.7	1607.9
30°	1690.0	1678.8	1642.7	1604.2	1594.2	1642.7	1655.2	1693.8	1701.2	1661.4	1619.1
32.5°	1865.5	1859.3	1802.0	1688.8	1627.8	1655.2	1661.4	1705.0	1698.7	1673.9	1656.4
35°	2125.6	2104.5	2024.8	1833.2	1698.7	1671.4	1655.2	1690.0	1713.7	1701.2	1685.1
37.5°	2410.6	2387.0	2288.6	2046.0	1826.9	1714.9	1702.5	1731.1	1758.5	1752.3	1718.7
40°	2683.1	2683.1	2594.8	2312.3	2017.3	1820.7	1823.2	1790.8	1815.7	1804.5	1810.7
42.5°	2952.0	2942.0	2905.9	2624.7	2221.4	1997.4	1957.6	1876.7	1921.5	1917.8	1926.5
45°	3224.5	3217.0	3207.1	2915.9	2513.9	2236.4	2215.2	2069.6	2110.7	2093.3	2130.6
47.5°	3442.3	3451.0	3451.0	3240.7	2826.3	2555.0	2523.8	2293.6	2372.0	2380.7	2389.4
50°	3627.7	3631.5	3627.7	3550.6	3174.7	2919.6	2856.1	2622.2	2700.6	2769.0	2848.7
52.5°	3884.1	3889.1	3871.6	3841.8	3647.6	3302.9	3232.0	2971.9	3132.4	3204.6	3347.7
55°	4200.2	4162.9	4130.5	4152.9	4101.9	3724.8	3651.4	3332.8	3574.2	3670.0	3956.3
57.5°	4258.7	4291.0	4373.2	4551.1	4624.6	4135.5	4093.2	3775.8	4073.3	4156.6	4634.5
60°	4465.3	4411.8	4613.4	4999.2	5081.3	4670.6	4627.1	4261.2	4569.8	4656.9	5260.5
62.5°	4600.9	4598.4	4897.1	5355.1	5541.8	5225.7	5137.3	4892.1	5106.2	5190.8	5942.5
65°	4561.1	4597.2	5127.3	5564.2	5926.3	5856.6	5805.6	5434.7	5717.2	5709.8	6386.8
67.5°	4197.7	4299.8	4981.7	5714.7	6498.8	6625.7	6609.5	6197.6	6213.8	6055.7	6584.7
70°	3693.7	3658.8	4365.7	5557.9	6785.0	7537.9	7534.2	6765.1	6660.6	6131.7	6017.2
72°	2837.5	2798.9	3380.1	4772.7	6634.4	7902.6	8014.6	7158.4	6655.6	5816.8	4970.5
72.5°	2576.1	2542.5	3121.2	4492.6	6467.7	7997.2	7944.9	7173.3	6603.3	5668.7	4643.2
75°	1186.0	1147.4	1559.4	2750.3	5045.2	7086.2	7264.2	6712.8	5767.0	4512.6	2781.5
77.5°	353.4	342.2	501.5	1110.1	2932.0	5220.7	5289.1	5065.1	4026.0	2471.6	1031.7
80°	196.6	197.9	258.9	415.7	1289.3	3017.9	3264.3	3128.7	1975.0	816.4	343.5
82.5°	109.5	115.7	161.8	246.4	592.4	1385.1	1490.9	1437.4	714.3	383.3	187.9
85°	57.2	59.7	84.6	131.9	336.0	438.1	450.5	482.9	370.9	261.3	100.8
87.5°	22.4	22.4	31.1	54.8	124.5	135.7	122.0	148.1	212.8	169.3	49.8
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°	1188.5	1188.5	1188.5	1188.5	1188.5	1188.5	1188.5	1188.5	1188.5	1188.5	1188.5
2.5°	1207.2	1197.2	1196.0	1179.8	1184.8	1171.1	1172.3	1169.8	1171.1	1168.6	1162.4
5°	1200.9	1193.5	1172.3	1186.0	1173.6	1191.0	1204.7	1199.7	1203.4	1202.2	1203.4
7.5°	1209.7	1199.7	1197.2	1189.7	1200.9	1208.4	1219.6	1250.7	1248.2	1252.0	1259.4
10°	1235.8	1224.6	1217.1	1228.3	1222.1	1245.7	1258.2	1274.4	1303.0	1304.2	1289.3
12.5°	1286.8	1279.3	1264.4	1266.9	1288.1	1295.5	1303.0	1312.9	1331.6	1327.9	1341.6
15°	1345.3	1329.1	1320.4	1317.9	1322.9	1331.6	1330.4	1340.3	1350.3	1359.0	1355.3
17.5°	1387.6	1366.5	1369.0	1381.4	1380.2	1377.7	1361.5	1356.5	1361.5	1366.5	1364.0
20°	1431.2	1433.7	1415.0	1403.8	1398.8	1373.9	1361.5	1346.6	1331.6	1339.1	1350.3
22.5°	1485.9	1474.7	1447.4	1413.8	1388.9	1373.9	1335.3	1309.2	1309.2	1316.7	1312.9
25°	1548.2	1524.5	1477.2	1416.2	1385.1	1321.7	1294.3	1290.5	1280.6	1291.8	1296.8
27.5°	1596.7	1575.5	1510.8	1407.5	1321.7	1270.6	1254.5	1249.5	1265.7	1266.9	1286.8
30°	1616.6	1610.4	1515.8	1385.1	1256.9	1174.8	1164.9	1187.3	1204.7	1230.8	1232.1
32.5°	1642.7	1645.2	1523.3	1332.9	1172.3	1090.2	1075.2	1102.6	1152.4	1173.6	1189.7
35°	1686.3	1698.7	1517.0	1268.1	1082.7	1004.3	1001.8	1009.3	1057.8	1095.2	1116.3
37.5°	1762.2	1759.7	1515.8	1191.0	1011.8	929.6	909.7	912.2	944.6	975.7	972.0
40°	1864.3	1854.3	1512.1	1090.2	919.7	866.2	832.6	820.1	817.6	808.9	811.4
42.5°	2003.6	1983.7	1510.8	988.1	836.3	779.1	755.4	723.1	699.4	654.6	657.1
45°	2197.8	2162.9	1478.5	892.3	754.2	706.9	670.8	647.1	596.1	540.1	540.1
47.5°	2497.7	2384.5	1479.7	786.5	674.5	635.9	611.1	570.0	515.2	470.4	465.4
50°	2939.5	2680.7	1437.4	703.1	609.8	583.7	557.5	510.2	458.0	426.9	430.6
52.5°	3509.5	3122.5	1436.2	628.5	558.8	540.1	511.5	469.2	430.6	410.7	403.2
55°	4189.0	3707.4	1481.0	567.5	506.5	496.6	484.1	449.3	411.9	394.5	393.3
57.5°	4884.7	4278.6	1553.1	523.9	461.7	469.2	460.5	433.1	403.2	383.3	380.8
60°	5503.2	4731.6	1407.5	471.7	421.9	438.1	450.5	426.9	410.7	409.4	400.7
62.5°	5969.9	4925.7	1070.3	431.8	400.7	430.6	464.2	479.1	471.7	481.6	482.9
65°	6140.4	4808.8	736.7	410.7	384.6	448.0	522.7	517.7	474.2	455.5	465.4
67.5°	5901.4	4334.6	546.3	385.8	373.4	484.1	556.3	494.1	428.1	425.6	418.2
70°	5075.1	3673.8	445.5	359.7	354.7	464.2	541.4	458.0	403.2	387.0	379.6
72°	4043.4	2861.1	390.8	341.0	324.8	414.4	506.5	429.4	382.1	362.1	353.4
72.5°	3691.2	2652.0	383.3	332.3	318.6	403.2	489.1	420.6	377.1	359.7	346.0
75°	2024.8	1357.8	337.3	304.9	268.8	348.5	453.0	394.5	355.9	331.0	328.5
77.5°	752.9	526.4	291.2	270.1	232.7	301.2	411.9	374.6	323.6	292.5	286.2
80°	288.7	277.5	237.7	227.7	195.4	263.8	379.6	336.0	275.0	243.9	234.0
82.5°	175.5	161.8	180.5	178.0	149.3	240.2	357.2	314.9	243.9	197.9	191.7
85°	95.8	95.8	125.7	120.7	104.5	191.7	270.1	209.1	154.3	126.9	129.4
87.5°	42.3	49.8	67.2	63.5	57.2	108.3	131.9	110.8	77.2	52.3	56.0
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)