

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: P478308

Luminaire Tested: **IFLD-S-SA2B-830-U-T4FT**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P478308
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2B-830-U-T4FT
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4FT distribution lens
Light Source: (32) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

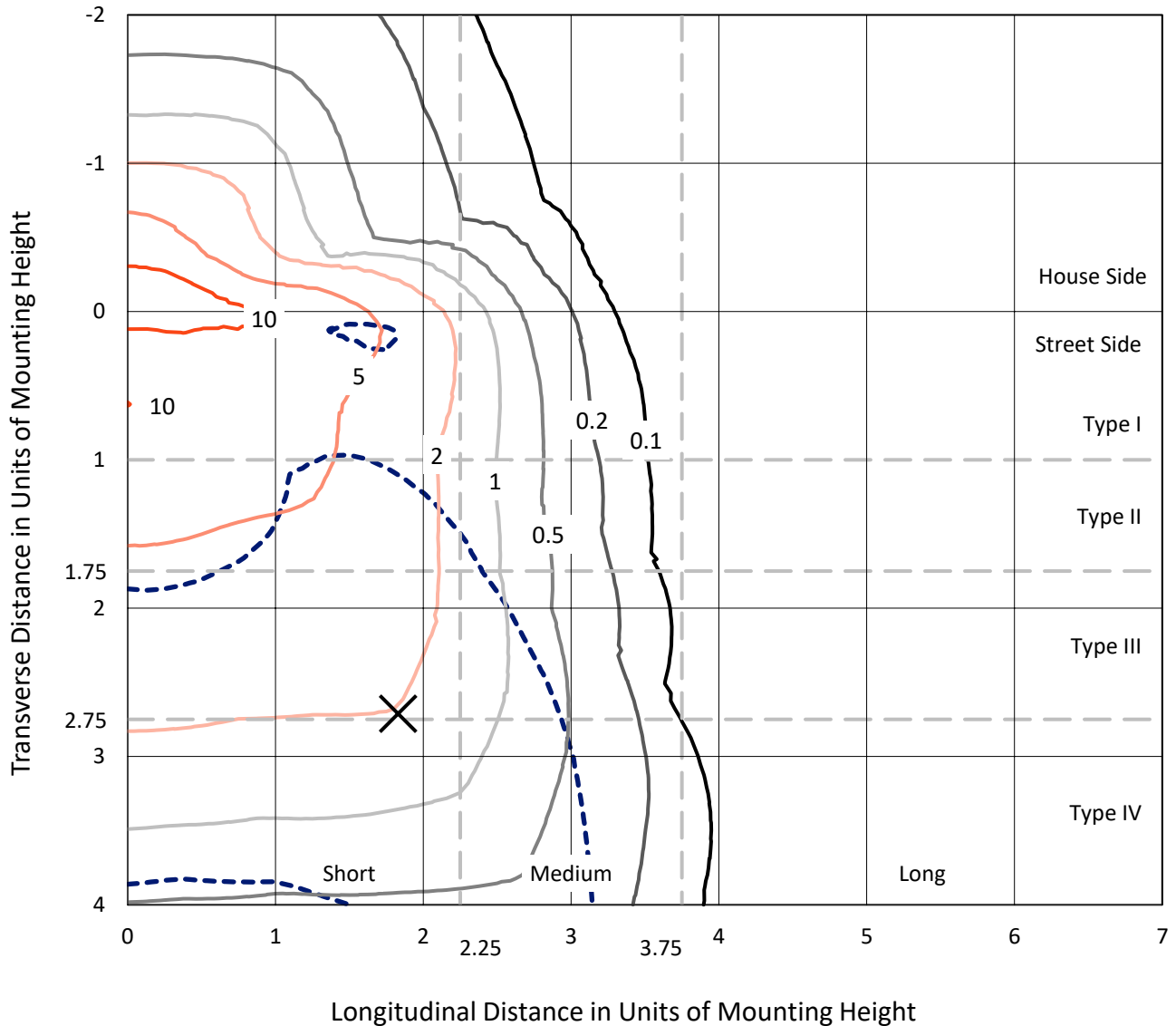
Lumens per Lamp: N/A
Luminaire Lumens: 9294.8 lumens
Efficiency: N/A
Efficacy: 112.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G2

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

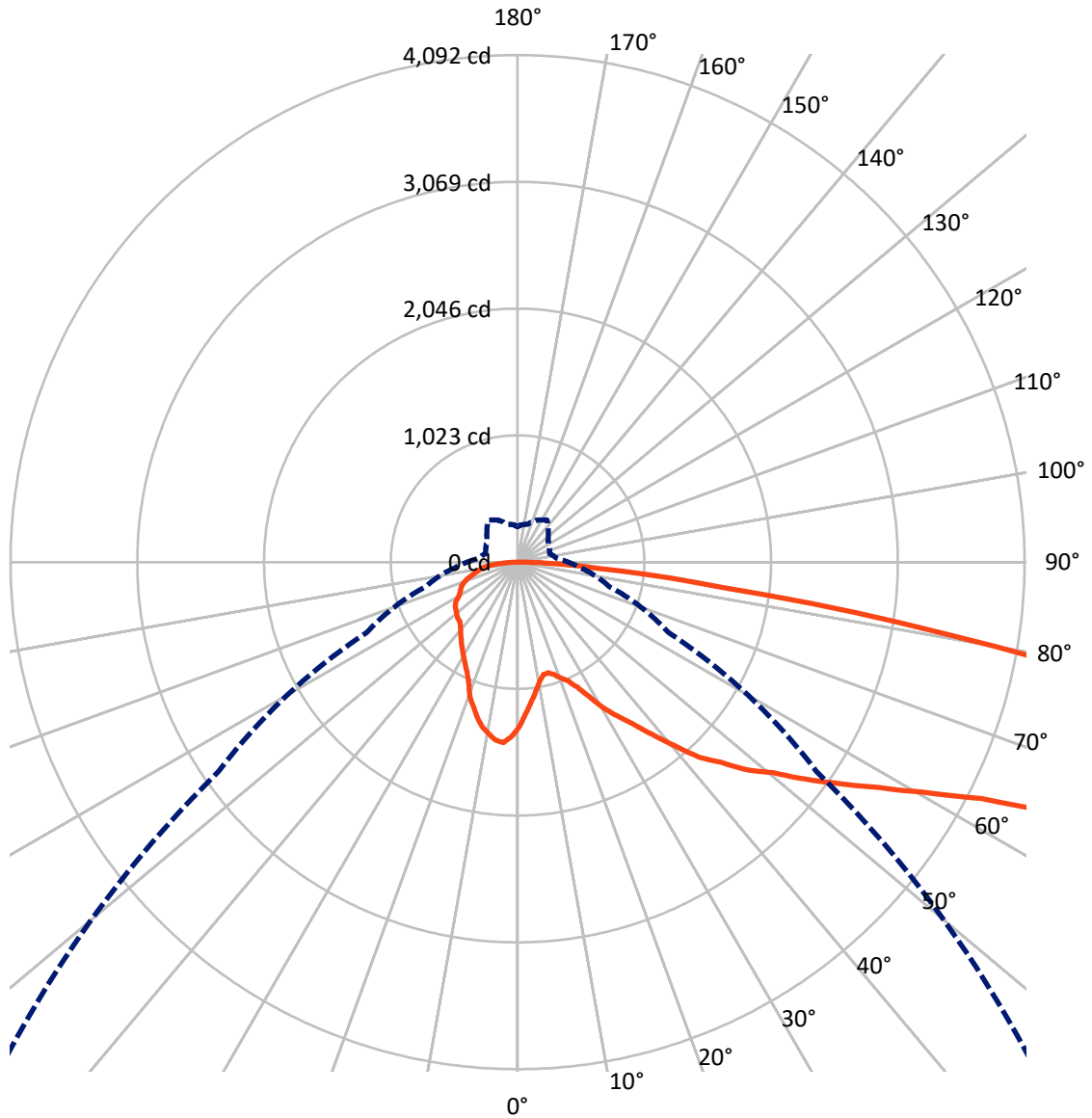
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 13.9 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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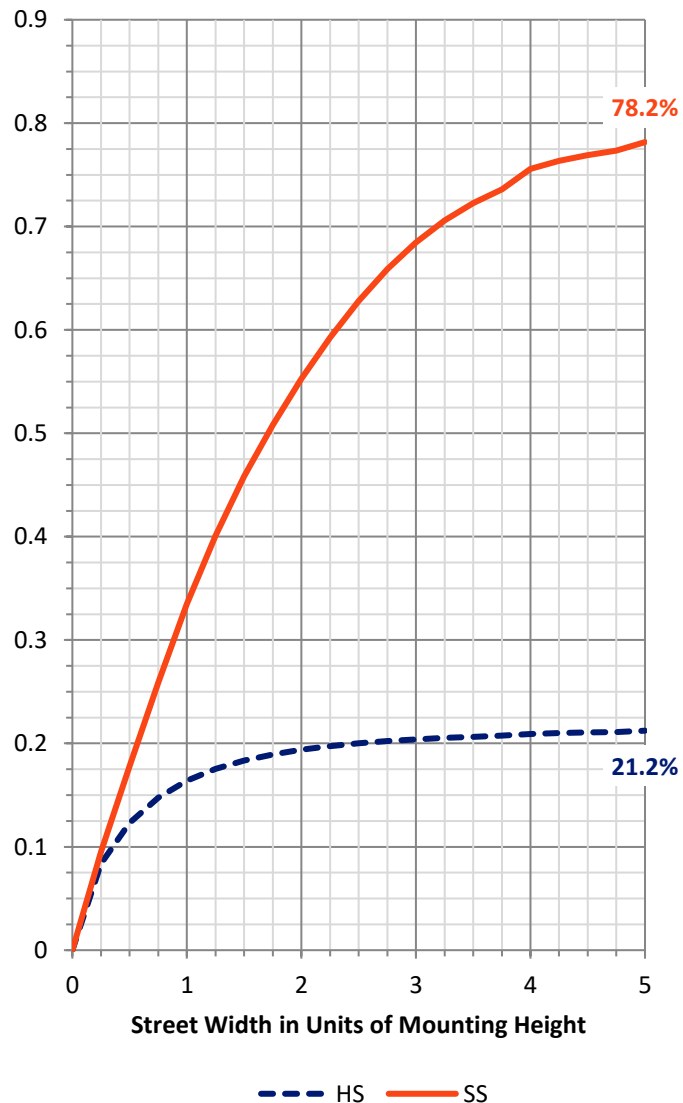
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2007.8	0.0	2007.8
	% Fixture	21.6	0.0	21.6
Street Side	Lumens	7287.0	0.0	7287.0
	% Fixture	78.4	0.0	78.4
Total	Lumens	9294.8	0.0	9294.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	123.0	1.3
10°-20°	344.2	3.7
20°-30°	566.5	6.1
30°-40°	847.2	9.1
40°-50°	1255.9	13.5
50°-60°	1809.9	19.5
60°-70°	2309.7	24.8
70°-80°	1797.3	19.3
80°-90°	241.1	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°	9294.8	100.0
0°-180°	9294.8	100.0

Coefficient of Utilization

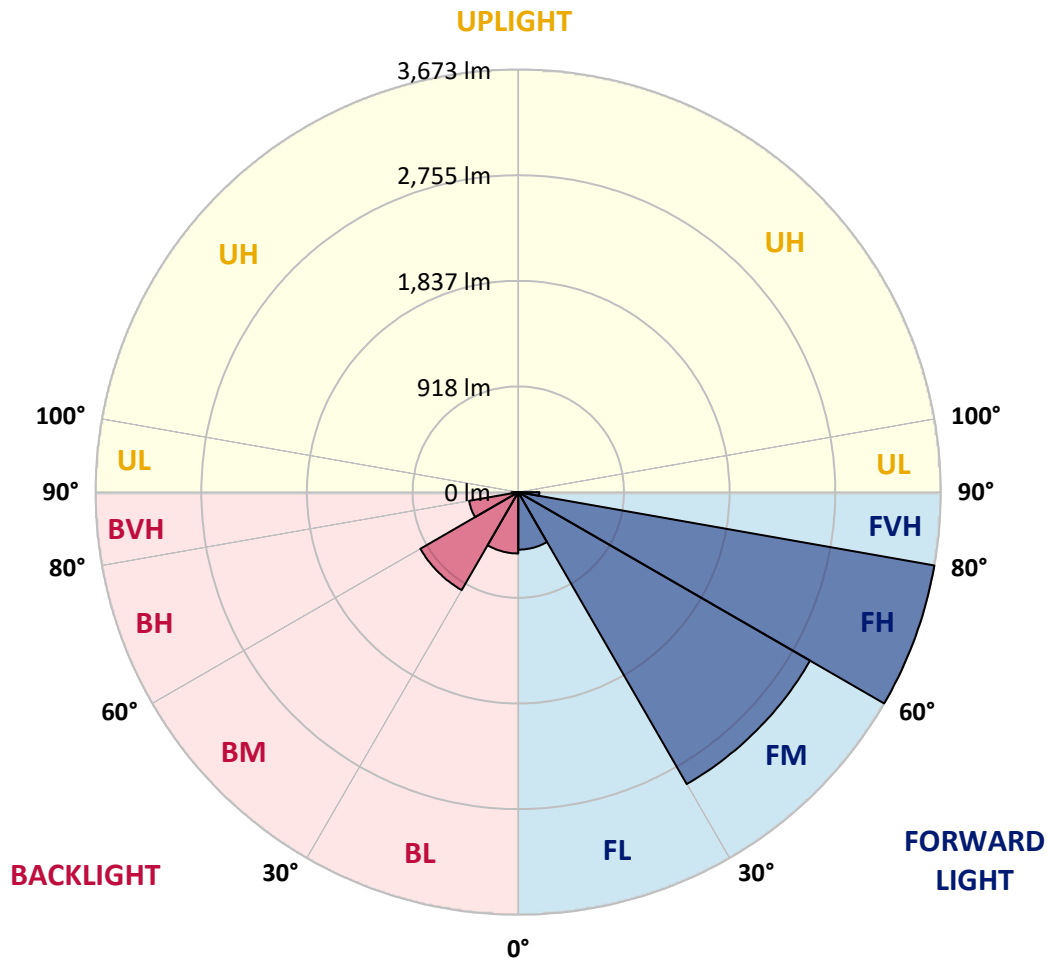


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	500.2	5.4			
FM (30°-60°)	2929.8	31.5			
FH (60°-80°)	3673.5	39.5			G2/5000
FVH (80°-90°)	183.5	2.0			G2/225
BL (0°-30°)	533.5	5.7	B2/1000		
BM (30°-60°)	983.2	10.6	B1/1000		
BH (60°-80°)	433.5	4.7	B1/500		G1/500
BVH (80°-90°)	57.6	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°	1332.5	1332.5	1332.5	1332.5	1332.5	1332.5	1332.5	1332.5	1332.5	1332.5	1332.5
2.5°	1194.0	1197.9	1210.7	1213.6	1227.4	1219.5	1236.2	1265.7	1282.4	1307.0	1336.5
5°	1099.6	1082.9	1090.8	1121.3	1137.0	1140.9	1158.6	1208.7	1240.2	1276.5	1331.6
7.5°	988.6	985.7	1001.4	1021.0	1052.5	1055.4	1094.7	1139.0	1203.8	1284.4	1349.3
10°	912.9	925.7	934.6	955.2	976.8	976.8	1026.9	1103.6	1177.3	1254.9	1353.2
12.5°	909.0	901.1	903.1	913.9	929.6	949.3	996.5	1065.3	1158.6	1249.0	1369.9
15°	921.8	924.7	907.0	920.8	926.7	933.6	985.7	1063.3	1146.8	1269.7	1398.4
17.5°	989.6	972.9	945.4	932.6	953.2	953.2	988.6	1049.5	1148.8	1280.5	1439.7
20°	1042.7	1042.7	997.4	983.7	998.4	995.5	1020.0	1065.3	1158.6	1302.1	1485.9
22.5°	1132.1	1144.9	1070.2	1041.7	1040.7	1048.5	1070.2	1108.5	1186.1	1332.5	1530.1
25°	1260.8	1263.8	1177.3	1147.8	1116.4	1129.1	1133.1	1171.4	1210.7	1367.9	1580.2
27.5°	1404.3	1402.3	1322.7	1249.0	1228.4	1231.3	1209.7	1235.3	1247.1	1378.7	1651.9
30°	1563.5	1545.8	1485.9	1381.7	1365.0	1346.3	1299.1	1298.2	1322.7	1439.7	1751.2
32.5°	1667.7	1645.1	1603.8	1529.1	1482.9	1484.9	1410.2	1409.2	1387.6	1506.5	1837.7
35°	1769.9	1735.5	1724.6	1648.0	1601.8	1606.7	1546.8	1538.9	1499.6	1607.7	1980.2
37.5°	1892.7	1862.2	1878.9	1821.0	1764.0	1740.4	1712.9	1703.0	1651.9	1750.2	2174.7
40°	2028.3	2018.5	2007.7	1979.2	1944.8	1946.7	1917.3	1907.4	1831.8	1922.2	2361.4
42.5°	2211.1	2173.7	2117.7	2136.4	2154.1	2172.8	2162.9	2137.4	2058.8	2097.1	2569.8
45°	2381.1	2332.0	2228.8	2234.7	2307.4	2322.1	2441.0	2438.1	2279.9	2319.2	2806.6
47.5°	2496.1	2473.5	2411.6	2404.7	2508.8	2507.9	2722.1	2722.1	2512.8	2540.3	3061.1
50°	2667.1	2608.1	2581.6	2616.0	2669.0	2705.4	3009.0	3027.7	2741.8	2771.2	3394.3
52.5°	2867.5	2793.8	2727.0	2815.5	2909.8	2933.4	3293.0	3285.2	2917.7	3039.5	3784.4
55°	3033.6	2996.3	2950.1	3001.2	3155.5	3185.0	3578.0	3505.3	3093.6	3261.6	3972.1
57.5°	3227.2	3249.8	3259.6	3246.9	3430.6	3476.8	3903.3	3695.0	3244.9	3411.0	4082.2
60°	3519.1	3532.8	3545.6	3576.1	3770.6	3835.5	4160.8	3932.8	3340.2	3497.5	4091.0
62.5°	3963.3	3910.2	3938.7	4043.8	4200.1	4273.8	4540.1	4099.9	3412.9	3549.5	3802.1
65°	4471.3	4399.6	4370.1	4505.7	4910.6	4851.6	5013.8	4224.7	3307.8	3355.0	3224.3
67.5°	4986.3	4994.1	4918.4	5190.7	5686.9	5686.9	5454.0	4284.6	3022.8	2719.1	2261.2
70°	5395.1	5419.6	5460.9	5988.6	6774.8	6893.7	5999.4	4038.9	2442.0	1810.1	1236.2
72.5°	5389.2	5315.5	5526.7	6498.6	7763.4	7664.1	6113.4	3193.8	1524.2	886.4	567.0
73°	5268.3	5206.4	5437.3	6493.7	7803.7	7710.3	6029.9	2944.2	1344.3	768.5	504.1
75°	4302.3	4190.3	4583.3	5881.5	7219.9	7291.7	5122.8	1920.2	737.0	473.7	354.8
77.5°	1961.5	2010.6	2522.6	3945.6	5564.1	5648.6	3367.7	830.4	403.9	332.2	261.4
80°	629.9	661.4	981.7	1961.5	3487.6	3639.9	1556.6	377.4	287.9	254.5	195.6
82.5°	240.8	239.8	411.8	815.6	1652.9	1750.2	569.0	230.0	214.2	187.7	138.6
85°	84.5	88.4	155.3	322.3	650.6	681.0	197.5	127.8	148.4	125.8	79.6
87.5°	29.5	30.5	55.0	116.9	224.1	236.8	55.0	51.1	73.7	72.7	40.3
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°	1332.5	1332.5	1332.5	1332.5	1332.5	1332.5	1332.5	1332.5	1332.5	1332.5	1332.5
2.5°	1346.3	1355.2	1358.1	1393.5	1393.5	1393.5	1407.2	1407.2	1403.3	1393.5	1417.1
5°	1352.2	1367.9	1398.4	1428.9	1436.7	1443.6	1462.3	1446.5	1452.4	1442.6	1451.5
7.5°	1368.9	1390.5	1447.5	1466.2	1453.4	1468.2	1448.5	1437.7	1426.9	1430.8	1417.1
10°	1397.4	1424.9	1451.5	1485.9	1461.3	1446.5	1406.3	1396.4	1362.0	1350.2	1361.0
12.5°	1432.8	1466.2	1511.4	1498.6	1451.5	1409.2	1366.0	1324.7	1304.1	1274.6	1282.4
15°	1468.2	1506.5	1513.4	1491.7	1432.8	1379.7	1301.1	1243.1	1222.5	1196.0	1209.7
17.5°	1506.5	1542.8	1531.1	1475.0	1395.4	1314.9	1225.4	1168.4	1125.2	1108.5	1108.5
20°	1563.5	1581.2	1562.5	1447.5	1350.2	1244.1	1157.6	1092.8	1049.5	1042.7	1031.8
22.5°	1607.7	1636.2	1552.7	1407.2	1284.4	1151.7	1052.5	1027.9	1015.1	1004.3	990.6
25°	1664.7	1663.7	1535.0	1369.9	1171.4	1041.7	981.7	979.8	973.9	969.9	988.6
27.5°	1718.8	1696.2	1514.4	1277.5	1054.4	958.1	925.7	947.3	956.2	950.3	958.1
30°	1804.2	1766.9	1484.9	1179.2	951.3	873.6	879.5	909.0	923.7	932.6	920.8
32.5°	1894.7	1837.7	1423.9	1077.0	859.9	820.6	834.3	864.8	882.5	892.3	903.1
35°	2025.4	1892.7	1362.0	943.4	794.0	788.1	796.0	812.7	838.2	845.1	848.1
37.5°	2186.5	1976.2	1278.5	836.3	742.9	749.8	757.7	763.6	764.5	777.3	772.4
40°	2347.7	2047.0	1156.6	734.1	689.9	727.2	723.3	712.5	703.6	691.8	688.9
42.5°	2489.2	2108.9	1021.0	647.6	642.7	703.6	690.8	663.3	642.7	633.8	619.1
45°	2648.4	2196.3	884.4	593.6	606.3	675.1	671.2	628.9	602.4	571.0	567.0
47.5°	2854.8	2287.7	753.7	537.5	571.9	664.3	666.3	612.2	573.9	531.6	525.7
50°	3119.1	2419.4	654.5	514.0	551.3	648.6	651.5	589.6	539.5	496.3	492.3
52.5°	3372.6	2554.1	571.9	477.6	537.5	629.9	636.8	569.0	511.0	457.0	459.9
55°	3500.4	2504.9	501.2	451.1	506.1	599.5	625.0	554.2	467.8	430.4	429.4
57.5°	3528.9	2384.0	445.2	423.5	479.6	567.0	605.3	510.0	448.1	416.7	412.7
60°	3435.5	2172.8	400.9	394.1	446.1	533.6	560.1	486.4	428.5	402.9	397.0
62.5°	3205.6	1953.6	370.5	380.3	417.7	497.2	531.6	469.7	409.8	392.1	379.3
65°	2628.7	1606.7	345.9	353.8	388.2	461.9	514.0	451.1	393.1	376.4	375.4
67.5°	1821.0	1107.5	326.3	341.0	364.6	436.3	496.3	430.4	371.5	365.6	357.7
70°	932.6	590.6	300.7	312.5	339.0	403.9	464.8	408.8	348.9	347.9	338.1
72.5°	472.7	345.9	271.2	288.9	307.6	361.6	425.5	380.3	320.4	309.6	293.8
73°	408.8	320.4	266.3	282.0	299.7	349.8	413.7	373.4	316.4	300.7	286.0
75°	297.8	252.6	238.8	254.5	268.3	315.4	374.4	342.0	290.9	274.2	260.4
77.5°	223.1	194.6	198.5	216.2	228.0	272.2	333.1	309.6	263.4	240.8	234.9
80°	164.1	148.4	164.1	180.8	189.7	239.8	303.7	268.3	222.1	196.5	191.6
82.5°	116.9	108.1	126.8	137.6	141.5	198.5	273.2	214.2	168.0	134.6	123.8
85°	66.8	65.8	85.5	84.5	87.5	116.0	179.8	142.5	108.1	82.5	80.6
87.5°	29.5	32.4	43.2	34.4	36.4	55.0	76.7	53.1	44.2	24.6	18.7
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)