

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: P478425

Luminaire Tested: **IFLD-S-SA2B-727-U-T4W**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P478425
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2B-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

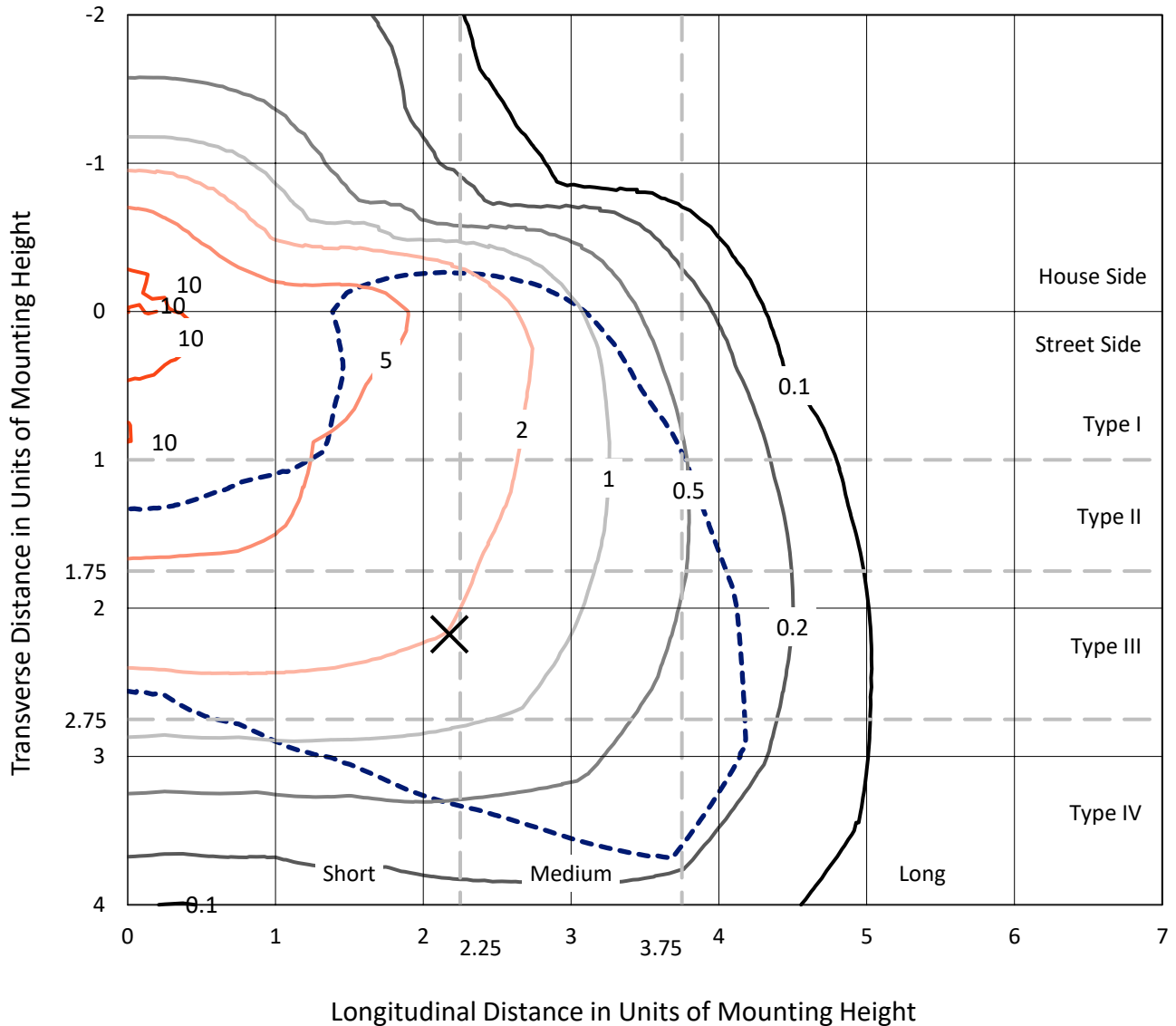
Lumens per Lamp: N/A
Luminaire Lumens: 9651.6 lumens
Efficiency: N/A
Efficacy: 117.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G2

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

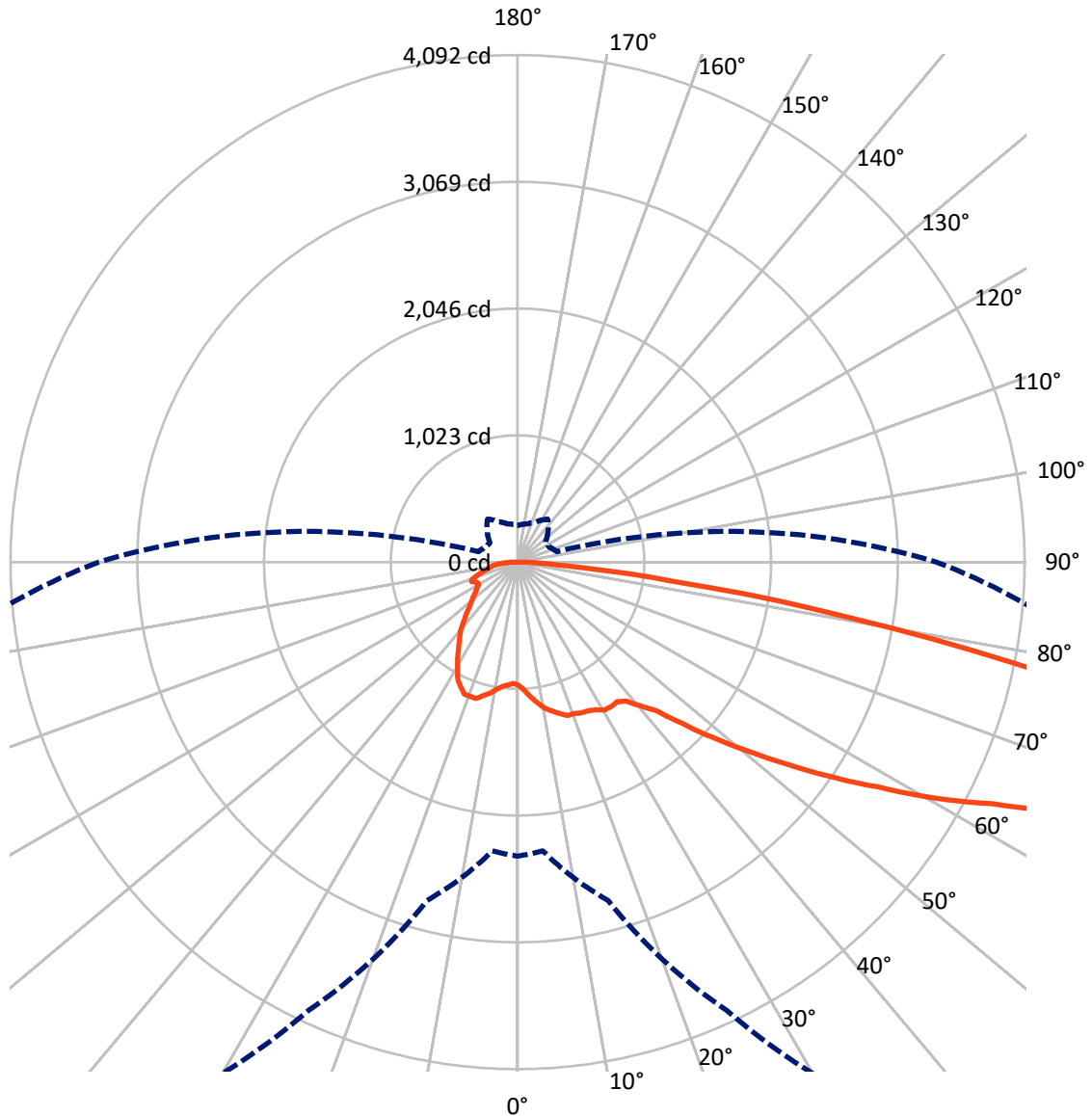
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 12.7 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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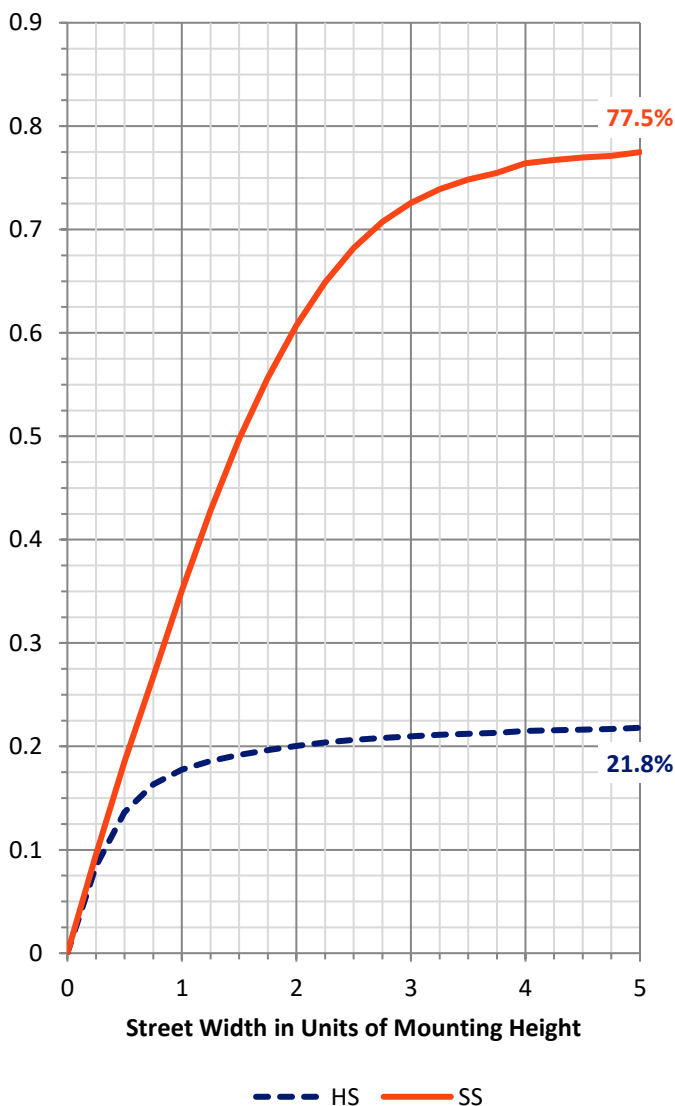
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2148.5	0.0	2148.5
	% Fixture	22.3	0.0	22.3
Street Side	Lumens	7503.1	0.0	7503.1
	% Fixture	77.7	0.0	77.7
Total	Lumens	9651.6	0.0	9651.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	101.7	1.1
10°-20°	338.4	3.5
20°-30°	571.4	5.9
30°-40°	790.8	8.2
40°-50°	1131.1	11.7
50°-60°	1824.4	18.9
60°-70°	2690.7	27.9
70°-80°	1953.9	20.2
80°-90°	249.1	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°	9651.6	100.0
0°-180°	9651.6	100.0

Coefficient of Utilization



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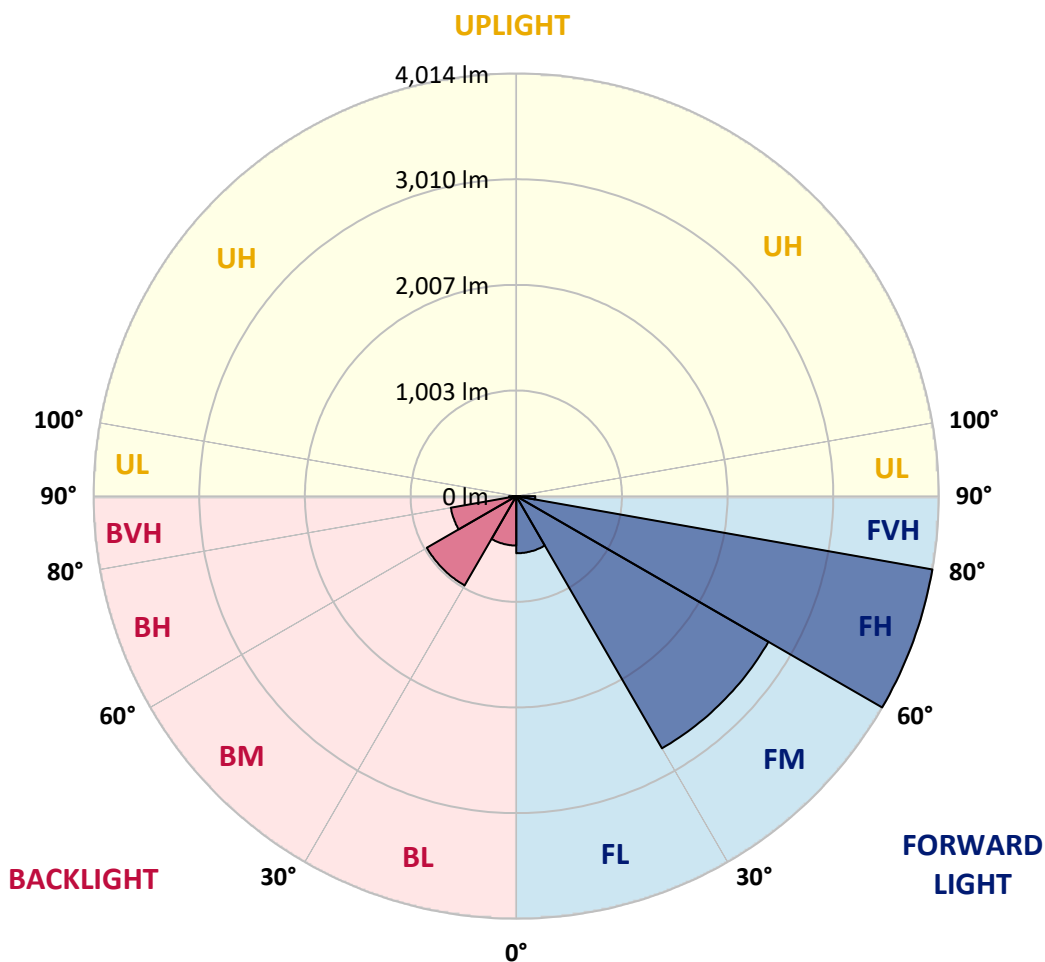
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	542.4	5.6			
FM (30°-60°)	2765.8	28.7			
FH (60°-80°)	4013.6	41.6			G2/5000
FVH (80°-90°)	181.3	1.9			G2/225
BL (0°-30°)	469.1	4.9	B1/500		
BM (30°-60°)	980.5	10.2	B1/1000		
BH (60°-80°)	631.1	6.5	B2/1000		G2/1000
BVH (80°-90°)	67.8	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°	993.9	993.9	993.9	993.9	993.9	993.9	993.9	993.9	993.9	993.9	993.9
2.5°	1047.0	1053.3	1047.0	1046.0	1035.6	1028.3	1034.5	1025.2	1014.8	1010.6	1001.2
5°	1142.8	1143.8	1132.4	1133.4	1111.5	1088.7	1092.8	1064.7	1034.5	1023.1	1004.3
7.5°	1240.6	1229.2	1212.5	1207.3	1173.0	1148.0	1144.9	1119.9	1073.0	1047.0	1021.0
10°	1304.1	1308.3	1281.2	1258.3	1229.2	1199.0	1197.9	1151.1	1124.0	1085.5	1052.2
12.5°	1360.3	1361.3	1338.4	1302.0	1265.6	1228.1	1233.3	1212.5	1166.7	1130.3	1097.0
15°	1404.0	1397.8	1372.8	1339.5	1301.0	1271.8	1268.7	1251.0	1212.5	1182.3	1127.2
17.5°	1416.5	1413.4	1388.4	1353.0	1315.5	1293.7	1302.0	1272.9	1257.3	1230.2	1177.1
20°	1392.6	1385.3	1381.1	1341.6	1314.5	1312.4	1305.1	1311.4	1285.4	1260.4	1221.9
22.5°	1348.8	1345.7	1343.6	1312.4	1299.9	1309.3	1321.8	1331.2	1327.0	1303.1	1259.3
25°	1304.1	1318.7	1305.1	1290.6	1308.3	1332.2	1329.1	1359.3	1359.3	1352.0	1315.5
27.5°	1335.3	1325.9	1315.5	1308.3	1314.5	1352.0	1349.9	1386.3	1399.8	1386.3	1344.7
30°	1413.4	1404.0	1373.8	1341.6	1333.2	1373.8	1384.2	1416.5	1422.7	1389.4	1354.1
32.5°	1560.1	1554.9	1507.0	1412.3	1361.3	1384.2	1389.4	1425.9	1420.7	1399.8	1385.3
35°	1777.6	1760.0	1693.3	1533.1	1420.7	1397.8	1384.2	1413.4	1433.1	1422.7	1409.2
37.5°	2016.0	1996.2	1914.0	1711.0	1527.9	1434.2	1423.8	1447.7	1470.6	1465.4	1437.3
40°	2243.9	2243.9	2170.0	1933.8	1687.1	1522.7	1524.7	1497.7	1518.5	1509.1	1514.3
42.5°	2468.7	2460.4	2430.2	2195.0	1857.8	1670.4	1637.1	1569.5	1607.0	1603.8	1611.1
45°	2696.7	2690.4	2682.1	2438.5	2102.4	1870.3	1852.6	1730.8	1765.2	1750.6	1781.8
47.5°	2878.8	2886.1	2886.1	2710.2	2363.6	2136.7	2110.7	1918.2	1983.7	1991.0	1998.3
50°	3033.9	3037.0	3033.9	2969.3	2655.0	2441.7	2388.6	2192.9	2258.5	2315.7	2382.3
52.5°	3248.3	3252.4	3237.9	3212.9	3050.5	2762.2	2702.9	2485.4	2619.6	2680.0	2799.7
55°	3512.6	3481.4	3454.3	3473.1	3430.4	3115.0	3053.6	2787.2	2989.1	3069.2	3308.6
57.5°	3561.5	3588.6	3657.3	3806.1	3867.5	3458.5	3423.1	3157.7	3406.5	3476.2	3875.9
60°	3734.3	3689.6	3858.2	4180.8	4249.5	3906.0	3869.6	3563.6	3821.7	3894.6	4399.4
62.5°	3847.8	3845.7	4095.5	4478.5	4634.6	4370.2	4296.3	4091.3	4270.3	4341.1	4969.7
65°	3814.4	3844.6	4288.0	4653.3	4956.2	4897.9	4855.2	4545.1	4781.3	4775.1	5341.3
67.5°	3510.5	3595.9	4166.2	4779.2	5434.9	5541.1	5527.6	5183.1	5196.6	5064.4	5506.7
70°	3089.0	3059.9	3651.0	4648.1	5674.3	6304.0	6300.9	5657.7	5570.2	5127.9	5032.2
72°	2373.0	2340.7	2826.7	3991.4	5548.4	6608.9	6702.6	5986.5	5566.1	4864.6	4156.9
72.5°	2154.4	2126.3	2610.3	3757.2	5408.9	6688.0	6644.3	5999.0	5522.4	4740.7	3883.1
75°	991.9	959.6	1304.1	2300.1	4219.3	5926.2	6075.0	5613.9	4823.0	3773.9	2326.1
77.5°	295.6	286.2	419.4	928.4	2452.1	4366.1	4423.3	4236.0	3366.9	2067.0	862.8
80°	164.4	165.5	216.5	347.6	1078.2	2523.9	2730.0	2616.5	1651.7	682.7	287.3
82.5°	91.6	96.8	135.3	206.1	495.4	1158.4	1246.9	1202.1	597.4	320.6	157.2
85°	47.9	50.0	70.8	110.3	281.0	366.4	376.8	403.8	310.2	218.6	84.3
87.5°	18.7	18.7	26.0	45.8	104.1	113.4	102.0	123.9	178.0	141.5	41.6
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°	993.9	993.9	993.9	993.9	993.9	993.9	993.9	993.9	993.9	993.9	993.9
2.5°	1009.6	1001.2	1000.2	986.7	990.8	979.4	980.4	978.3	979.4	977.3	972.1
5°	1004.3	998.1	980.4	991.9	981.5	996.0	1007.5	1003.3	1006.4	1005.4	1006.4
7.5°	1011.6	1003.3	1001.2	995.0	1004.3	1010.6	1020.0	1046.0	1043.9	1047.0	1053.3
10°	1033.5	1024.1	1017.9	1027.2	1022.0	1041.8	1052.2	1065.8	1089.7	1090.7	1078.2
12.5°	1076.2	1069.9	1057.4	1059.5	1077.2	1083.4	1089.7	1098.0	1113.6	1110.5	1122.0
15°	1125.1	1111.5	1104.3	1102.2	1106.3	1113.6	1112.6	1120.9	1129.2	1136.5	1133.4
17.5°	1160.5	1142.8	1144.9	1155.3	1154.2	1152.1	1138.6	1134.4	1138.6	1142.8	1140.7
20°	1196.9	1199.0	1183.4	1174.0	1169.8	1149.0	1138.6	1126.1	1113.6	1119.9	1129.2
22.5°	1242.7	1233.3	1210.4	1182.3	1161.5	1149.0	1116.8	1094.9	1094.9	1101.1	1098.0
25°	1294.7	1275.0	1235.4	1184.4	1158.4	1105.3	1082.4	1079.3	1071.0	1080.3	1084.5
27.5°	1335.3	1317.6	1263.5	1177.1	1105.3	1062.6	1049.1	1044.9	1058.5	1059.5	1076.2
30°	1352.0	1346.8	1267.7	1158.4	1051.2	982.5	974.2	992.9	1007.5	1029.3	1030.4
32.5°	1373.8	1375.9	1273.9	1114.7	980.4	911.7	899.2	922.1	963.8	981.5	995.0
35°	1410.3	1420.7	1268.7	1060.6	905.5	839.9	837.8	844.1	884.7	915.9	933.6
37.5°	1473.7	1471.7	1267.7	996.0	846.2	777.5	760.8	762.9	789.9	816.0	812.8
40°	1559.1	1550.8	1264.5	911.7	769.1	724.4	696.3	685.9	683.8	676.5	678.6
42.5°	1675.7	1659.0	1263.5	826.4	699.4	651.5	631.8	604.7	584.9	547.4	549.5
45°	1838.0	1808.9	1236.4	746.2	630.7	591.2	561.0	541.2	498.5	451.7	451.7
47.5°	2088.8	1994.1	1237.5	657.8	564.1	531.8	511.0	476.7	430.9	393.4	389.3
50°	2458.3	2241.8	1202.1	588.0	510.0	488.1	466.3	426.7	383.0	357.0	360.1
52.5°	2935.0	2611.3	1201.1	525.6	467.3	451.7	427.8	392.4	360.1	343.5	337.2
55°	3503.3	3100.5	1238.5	474.6	423.6	415.3	404.9	375.7	344.5	329.9	328.9
57.5°	4085.0	3578.2	1298.9	438.2	386.1	392.4	385.1	362.2	337.2	320.6	318.5
60°	4602.3	3957.0	1177.1	394.5	352.8	366.4	376.8	357.0	343.5	342.4	335.1
62.5°	4992.6	4119.4	895.1	361.1	335.1	360.1	388.2	400.7	394.5	402.8	403.8
65°	5135.2	4021.6	616.1	343.5	321.6	374.7	437.1	433.0	396.5	380.9	389.3
67.5°	4935.4	3625.0	456.9	322.6	312.2	404.9	465.2	413.2	358.0	355.9	349.7
70°	4244.3	3072.4	372.6	300.8	296.6	388.2	452.7	383.0	337.2	323.7	317.4
72°	3381.5	2392.7	326.8	285.2	271.6	346.6	423.6	359.1	319.5	302.9	295.6
72.5°	3086.9	2217.9	320.6	277.9	266.4	337.2	409.0	351.8	315.4	300.8	289.3
75°	1693.3	1135.5	282.1	255.0	224.8	291.4	378.8	329.9	297.7	276.8	274.8
77.5°	629.7	440.2	243.5	225.8	194.6	251.9	344.5	313.3	270.6	244.6	239.4
80°	241.5	232.1	198.8	190.5	163.4	220.6	317.4	281.0	230.0	204.0	195.7
82.5°	146.7	135.3	150.9	148.8	124.9	200.9	298.7	263.3	204.0	165.5	160.3
85°	80.1	80.1	105.1	101.0	87.4	160.3	225.8	174.9	129.1	106.2	108.2
87.5°	35.4	41.6	56.2	53.1	47.9	90.5	110.3	92.6	64.5	43.7	46.8
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)