

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: P318666

Luminaire Tested: **GAN-SA2A-730-U-T4FT**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318666
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-16)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA2A-730-U-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8735 lumens
Efficiency: N/A
Efficacy: 132.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

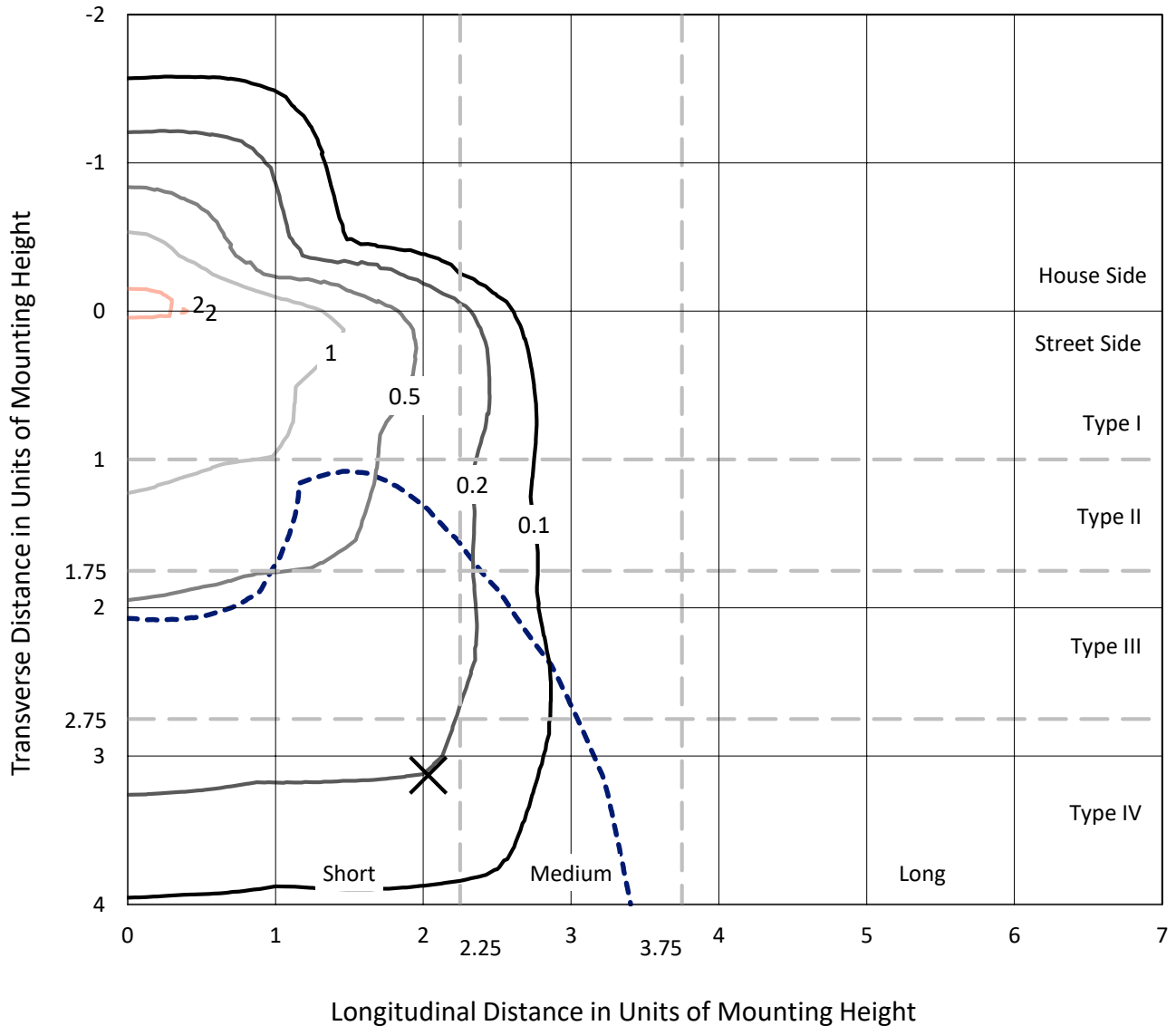
Input Watts (W): 66
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

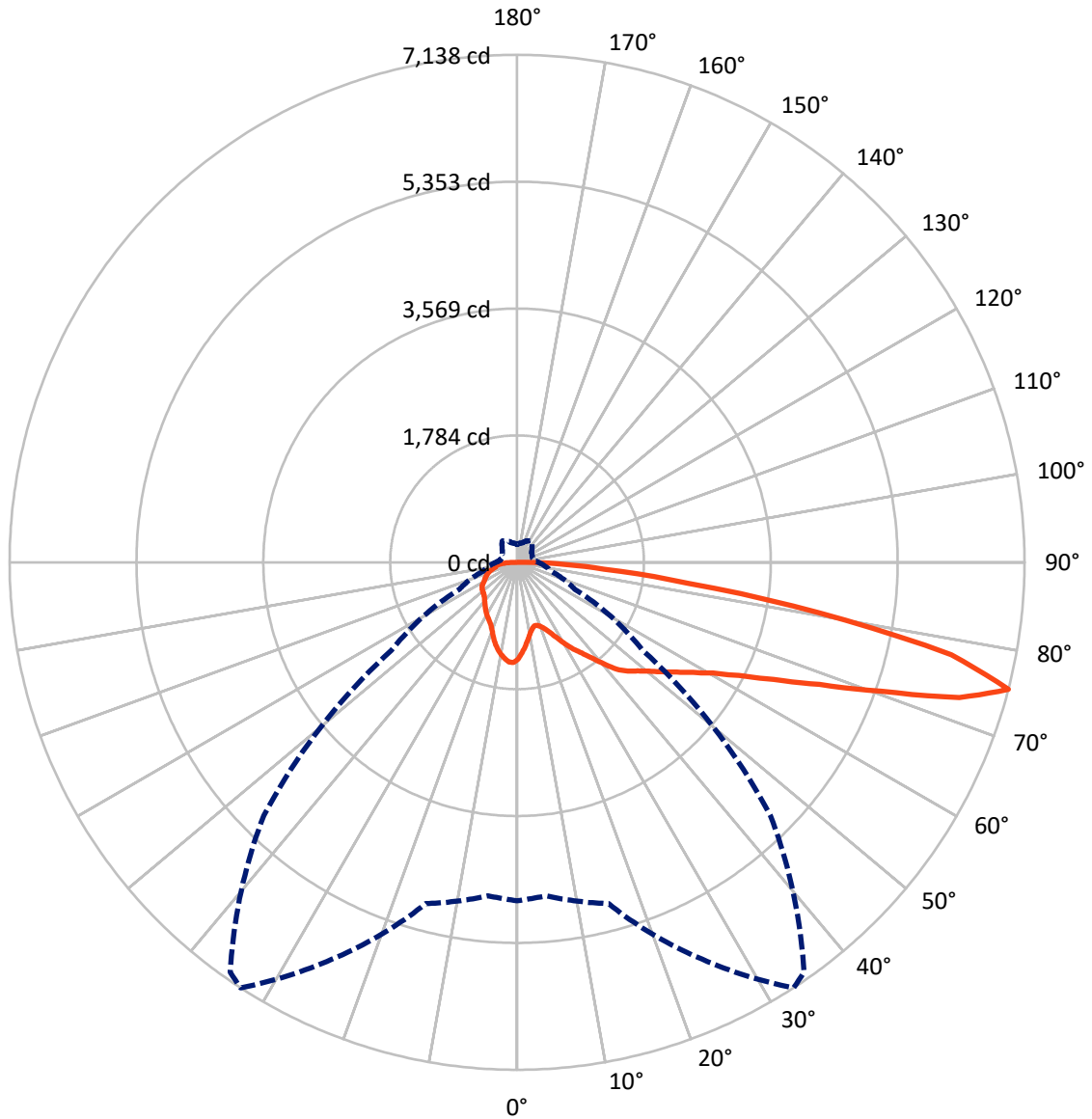
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.2 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 33-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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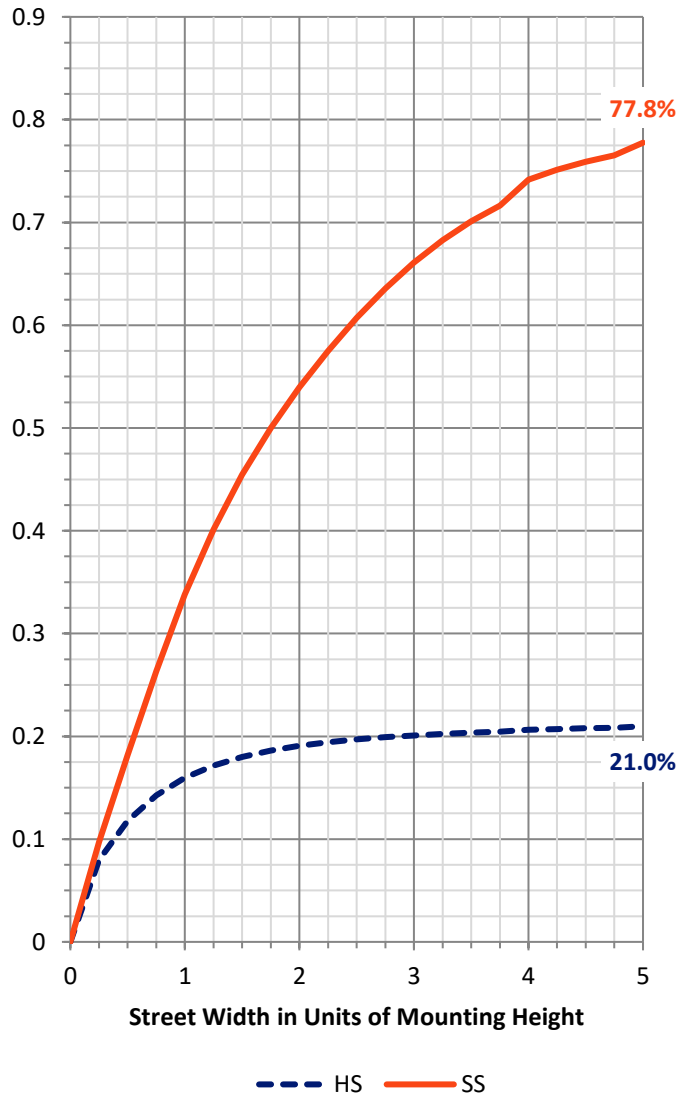
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1875.6	0.0	1875.6
	% Fixture	21.5	0.0	21.5
Street Side	Lumens	6859.4	0.0	6859.4
	% Fixture	78.5	0.0	78.5
Total	Lumens	8735.0	0.0	8735.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	123.5	1.4
10°-20°	334.4	3.8
20°-30°	546.2	6.3
30°-40°	813.4	9.3
40°-50°	1166.6	13.4
50°-60°	1601.6	18.3
60°-70°	2005.1	23.0
70°-80°	1813.9	20.8
80°-90°	330.4	3.8
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°	8735.0	100.0
0°-180°	8735.0	100.0

Coefficient of Utilization

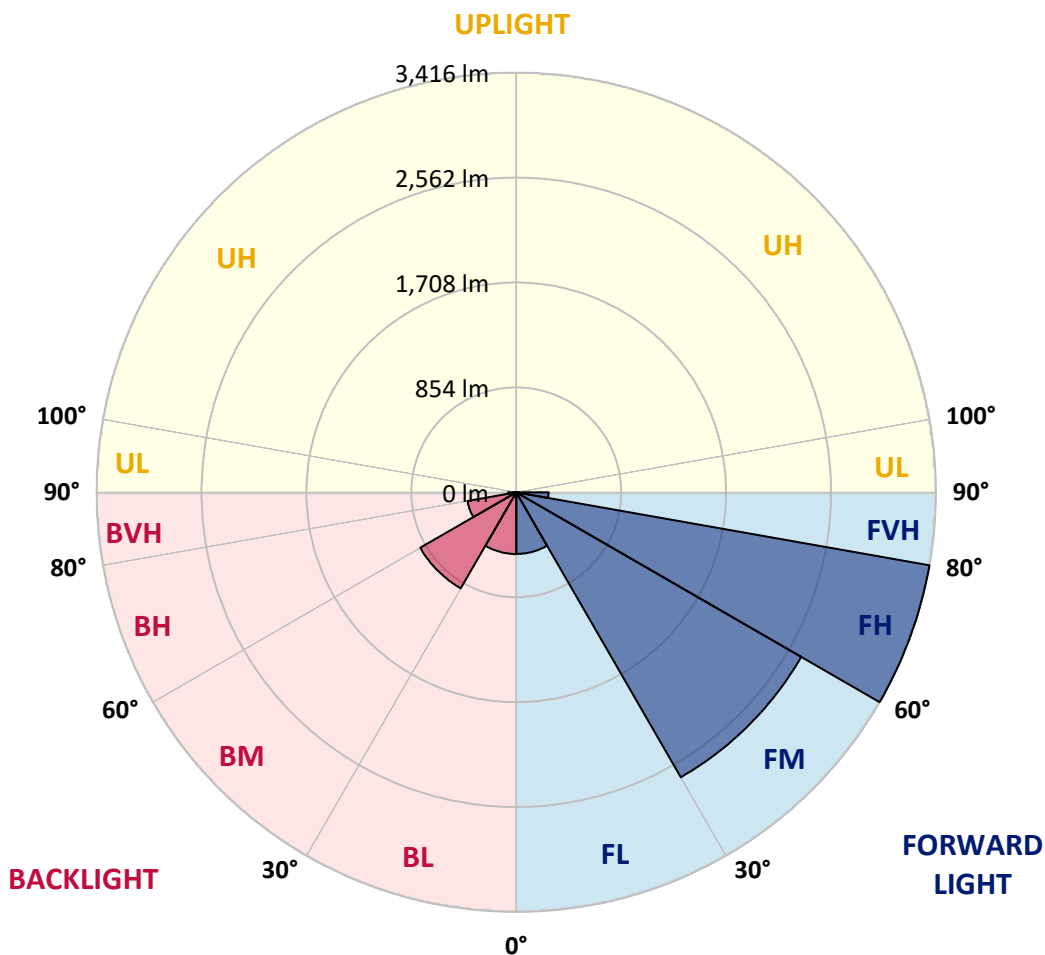


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	501.7	5.7			
FM (30°-60°)	2678.8	30.7			
FH (60°-80°)	3415.7	39.1			G2/5000
FVH (80°-90°)	263.1	3.0			G3/500
BL (0°-30°)	502.4	5.8	B2/1000		
BM (30°-60°)	902.7	10.3	B1/1000		
BH (60°-80°)	403.3	4.6	B1/500		G1/500
BVH (80°-90°)	67.3	0.8			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	33°	35°	45°	55°	65°	75°	85°
0°	1365.3	1365.3	1365.3	1365.3	1365.3	1365.3	1365.3	1365.3	1365.3	1365.3	1365.3
2.5°	1267.9	1263.0	1272.1	1273.3	1281.1	1284.2	1295.0	1311.9	1325.8	1341.8	1356.3
5°	1152.9	1149.6	1162.3	1171.3	1188.5	1195.8	1221.4	1257.3	1289.3	1325.5	1358.4
7.5°	1043.7	1041.9	1056.1	1076.6	1096.5	1106.4	1150.8	1203.0	1256.4	1314.9	1365.3
10°	951.7	951.1	964.6	984.8	1014.1	1025.3	1082.6	1151.4	1226.2	1306.8	1377.1
12.5°	900.1	902.2	908.5	925.4	952.6	963.7	1027.4	1108.3	1200.9	1304.1	1394.3
15°	912.7	916.1	905.2	904.6	923.9	932.6	992.4	1077.5	1182.8	1308.6	1419.3
17.5°	966.7	967.3	938.7	920.6	932.3	936.9	981.5	1060.0	1172.2	1318.9	1450.7
20°	1042.8	1041.3	990.6	960.4	966.7	968.0	996.9	1060.3	1171.3	1336.7	1491.5
22.5°	1143.6	1132.4	1064.2	1023.2	1021.7	1019.8	1036.4	1082.6	1184.6	1365.6	1540.0
25°	1275.1	1264.6	1170.7	1114.6	1102.5	1098.0	1100.4	1130.3	1210.8	1396.7	1594.3
27.5°	1421.5	1403.0	1312.5	1233.2	1208.1	1201.8	1187.3	1197.6	1239.5	1426.6	1658.9
30°	1544.0	1534.0	1454.9	1360.8	1331.2	1322.2	1284.2	1273.0	1280.8	1467.3	1740.4
32.5°	1612.4	1605.8	1557.8	1481.8	1454.3	1441.7	1388.0	1365.6	1347.2	1531.6	1850.8
35°	1695.4	1691.2	1662.2	1607.0	1566.3	1553.0	1511.4	1488.1	1440.8	1620.0	1993.5
37.5°	1801.0	1796.5	1797.1	1752.4	1703.9	1691.5	1664.0	1639.6	1562.1	1736.2	2148.6
40°	1920.5	1911.8	1908.4	1906.3	1875.6	1868.6	1854.1	1820.9	1714.1	1875.0	2301.6
42.5°	2100.3	2069.3	2002.9	2027.9	2058.4	2054.8	2066.6	2018.9	1883.1	2039.1	2451.0
45°	2273.8	2222.8	2108.2	2113.6	2180.3	2200.5	2288.6	2254.8	2066.2	2218.9	2605.4
47.5°	2352.9	2314.3	2216.8	2217.1	2283.2	2325.1	2518.2	2494.1	2258.8	2423.2	2794.0
50°	2441.3	2402.7	2315.2	2348.1	2405.7	2450.4	2740.0	2727.6	2441.9	2646.8	3020.0
52.5°	2537.9	2472.4	2416.9	2475.7	2556.6	2608.5	2962.1	2928.3	2610.0	2871.9	3279.8
55°	2539.1	2521.3	2563.5	2606.6	2727.6	2791.3	3194.7	3105.4	2747.0	3093.0	3491.3
57.5°	2683.6	2654.6	2744.2	2764.2	2922.3	2994.1	3426.1	3259.6	2886.4	3262.6	3605.4
60°	2874.9	2850.1	2923.5	2976.0	3163.0	3259.0	3673.3	3418.0	2995.9	3390.5	3599.9
62.5°	3205.3	3177.2	3176.3	3249.9	3501.9	3613.5	3950.6	3573.4	3039.3	3415.9	3446.4
65°	3689.0	3644.3	3560.1	3595.1	3969.9	4081.2	4260.4	3685.9	2982.0	3280.1	3050.8
67.5°	4159.7	4158.1	4054.7	4126.5	4587.8	4677.1	4613.5	3697.1	2803.1	2807.3	2349.0
70°	4628.8	4634.9	4617.4	4867.2	5422.7	5515.6	4989.4	3547.1	2400.9	2027.3	1407.3
72.5°	5000.6	4999.1	5087.2	5731.4	6506.2	6485.4	5306.2	3092.7	1723.8	1094.4	672.6
75°	4759.8	4707.3	4969.8	6159.2	7137.7	7036.0	5036.8	2157.4	894.6	498.2	362.1
77.5°	3104.5	3154.3	3539.6	5088.1	6243.4	6119.7	3695.3	1006.6	421.5	326.8	262.5
80°	1124.2	1176.7	1657.4	2882.1	4301.5	4281.3	1819.7	413.7	285.1	246.8	191.3
82.5°	386.8	406.1	653.8	1279.9	2428.6	2519.1	684.6	235.0	207.3	175.0	131.0
85°	151.8	173.8	299.0	615.8	1225.0	1234.1	277.3	140.6	144.2	114.7	71.8
87.5°	57.6	70.0	143.0	286.0	559.4	513.8	99.3	67.0	82.1	68.2	34.1
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°	1365.3	1365.3	1365.3	1365.3	1365.3	1365.3	1365.3	1365.3	1365.3	1365.3	1365.3
2.5°	1367.4	1373.8	1387.1	1396.1	1405.8	1408.5	1409.7	1412.1	1414.5	1413.6	1413.9
5°	1375.9	1388.3	1409.7	1418.7	1423.0	1418.1	1408.8	1401.2	1395.8	1392.8	1391.9
7.5°	1389.8	1407.3	1430.2	1428.7	1419.0	1397.6	1373.5	1355.4	1340.3	1334.9	1331.8
10°	1408.2	1428.7	1444.7	1427.5	1399.4	1362.3	1326.1	1298.0	1275.4	1266.7	1265.2
12.5°	1431.7	1452.5	1455.5	1419.0	1372.6	1321.9	1272.7	1235.6	1201.8	1190.9	1188.5
15°	1462.2	1481.8	1463.1	1404.3	1339.4	1271.2	1207.5	1157.1	1121.5	1108.3	1103.4
17.5°	1494.2	1512.9	1464.6	1379.8	1295.9	1211.1	1131.2	1079.6	1038.9	1023.5	1021.7
20°	1532.5	1540.9	1458.3	1344.8	1236.2	1133.3	1049.1	1000.5	978.8	968.0	966.7
22.5°	1579.9	1570.8	1443.8	1297.4	1160.5	1043.4	974.9	952.3	946.8	944.4	945.3
25°	1629.9	1602.2	1422.4	1235.6	1064.8	953.5	920.6	926.9	934.2	933.3	933.3
27.5°	1685.2	1634.2	1389.5	1153.5	958.9	879.8	883.8	907.0	917.9	917.6	917.3
30°	1756.1	1670.4	1347.5	1054.8	859.9	827.9	851.8	880.1	894.9	894.3	894.6
32.5°	1843.3	1710.2	1290.5	944.7	788.4	789.6	817.1	845.1	862.3	860.8	861.1
35°	1945.3	1754.9	1213.3	836.1	741.0	759.2	780.9	800.5	816.8	814.7	812.6
37.5°	2056.3	1798.6	1110.7	738.9	702.4	730.8	748.9	752.2	759.8	754.3	750.4
40°	2161.9	1832.1	978.5	659.3	663.5	706.7	718.4	705.1	691.6	689.8	684.3
42.5°	2253.9	1843.3	844.8	595.6	622.5	681.3	688.5	660.8	636.3	624.9	620.1
45°	2351.1	1847.2	720.2	542.2	582.9	658.7	666.5	629.4	595.0	570.3	562.1
47.5°	2478.1	1875.6	623.4	502.7	552.8	643.6	654.8	604.4	559.7	524.4	516.9
50°	2644.4	1931.7	544.6	472.5	533.2	633.6	646.3	579.9	530.7	488.2	480.7
52.5°	2829.0	1983.3	481.0	448.1	514.1	616.1	635.4	562.4	503.6	454.7	446.6
55°	2958.2	1943.7	429.7	422.7	489.4	591.1	620.4	547.6	464.7	422.1	414.9
57.5°	2982.9	1808.6	390.7	396.5	459.5	559.7	597.1	514.8	443.5	407.9	400.4
60°	2915.3	1620.3	361.8	372.3	427.6	520.2	553.7	491.5	423.3	392.9	386.5
62.5°	2745.4	1427.5	340.4	350.6	397.7	480.1	526.5	467.1	402.8	375.7	369.3
65°	2402.4	1198.5	319.8	331.3	369.9	445.4	502.1	444.4	382.6	361.8	355.7
67.5°	1813.4	897.6	300.5	310.8	345.2	415.2	475.5	422.1	363.0	349.7	342.5
70°	1067.8	562.1	278.5	289.4	319.2	383.8	447.2	397.7	338.5	332.5	323.2
72.5°	496.9	338.2	253.5	264.0	286.6	341.9	410.7	365.7	309.6	296.3	283.6
75°	296.6	247.4	223.9	233.2	249.2	297.2	364.8	333.1	282.1	264.6	251.3
77.5°	221.8	189.2	191.3	201.3	214.2	260.1	323.2	307.5	261.0	247.4	238.4
80°	159.6	143.6	156.0	166.9	180.4	236.6	309.6	284.2	236.0	217.8	209.4
82.5°	106.5	103.2	117.4	128.5	141.8	207.0	290.9	248.9	201.6	178.6	159.9
85°	58.8	62.2	79.1	83.9	95.3	145.7	238.4	200.0	151.8	122.2	116.8
87.5°	24.4	28.7	42.5	41.0	50.7	86.9	156.9	120.7	96.6	72.1	56.1
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)