

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: P324115

Luminaire Tested: **GAN-SA1B-730-U-SLL-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P324115
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-27)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA1B-730-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3000K, 800mA LIGHTSQUARE WITH 16 LEDS AND SPILL LIGHT
ELIMINATOR LEFT OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4040 lumens
Efficiency: N/A
Efficacy: 91.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G1

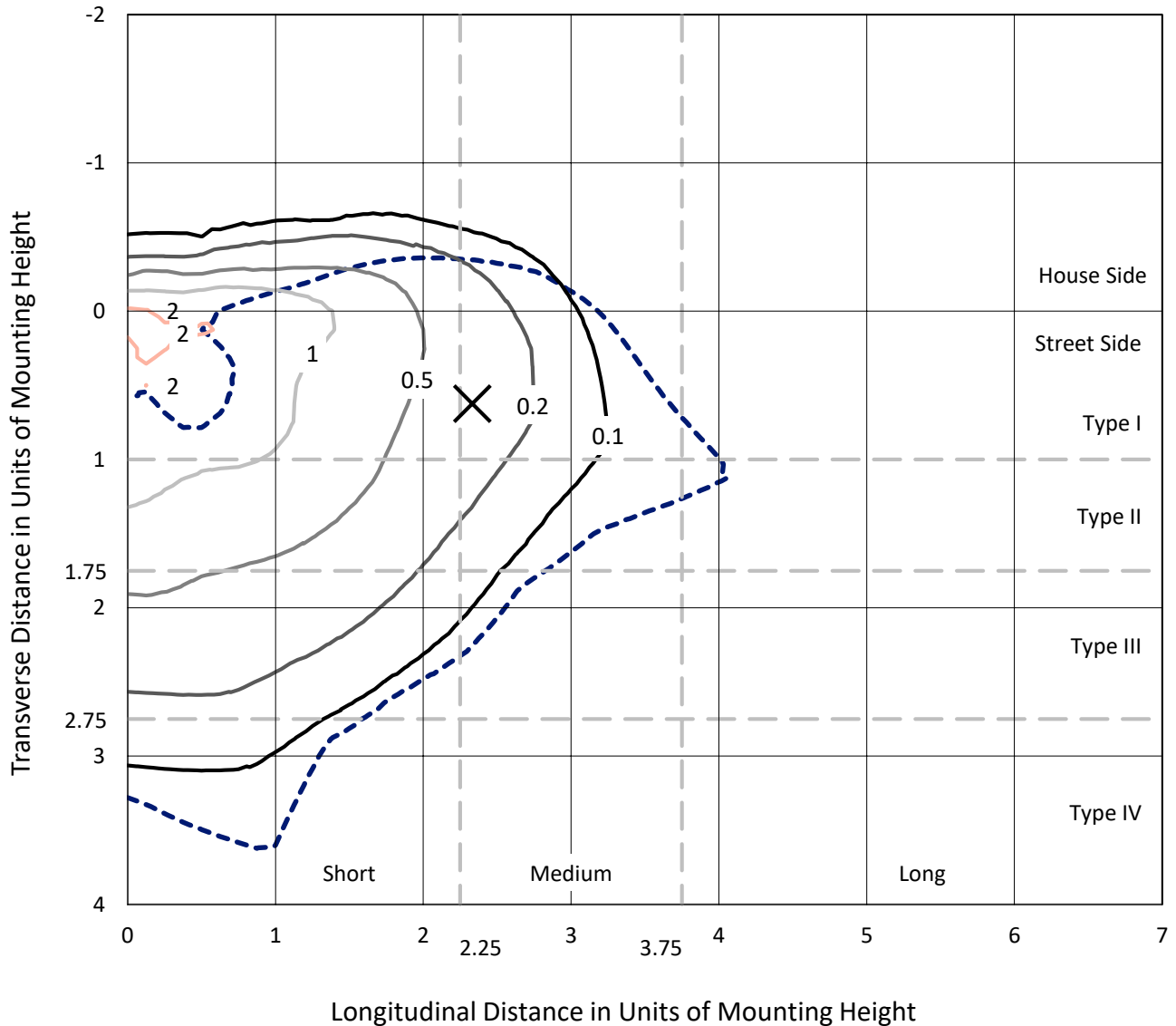
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P324115
 CATALOG NUMBER: GAN-SA1B-730-U-SLL-HSS

Iso-Footcandle Lines of Horizontal Illumination

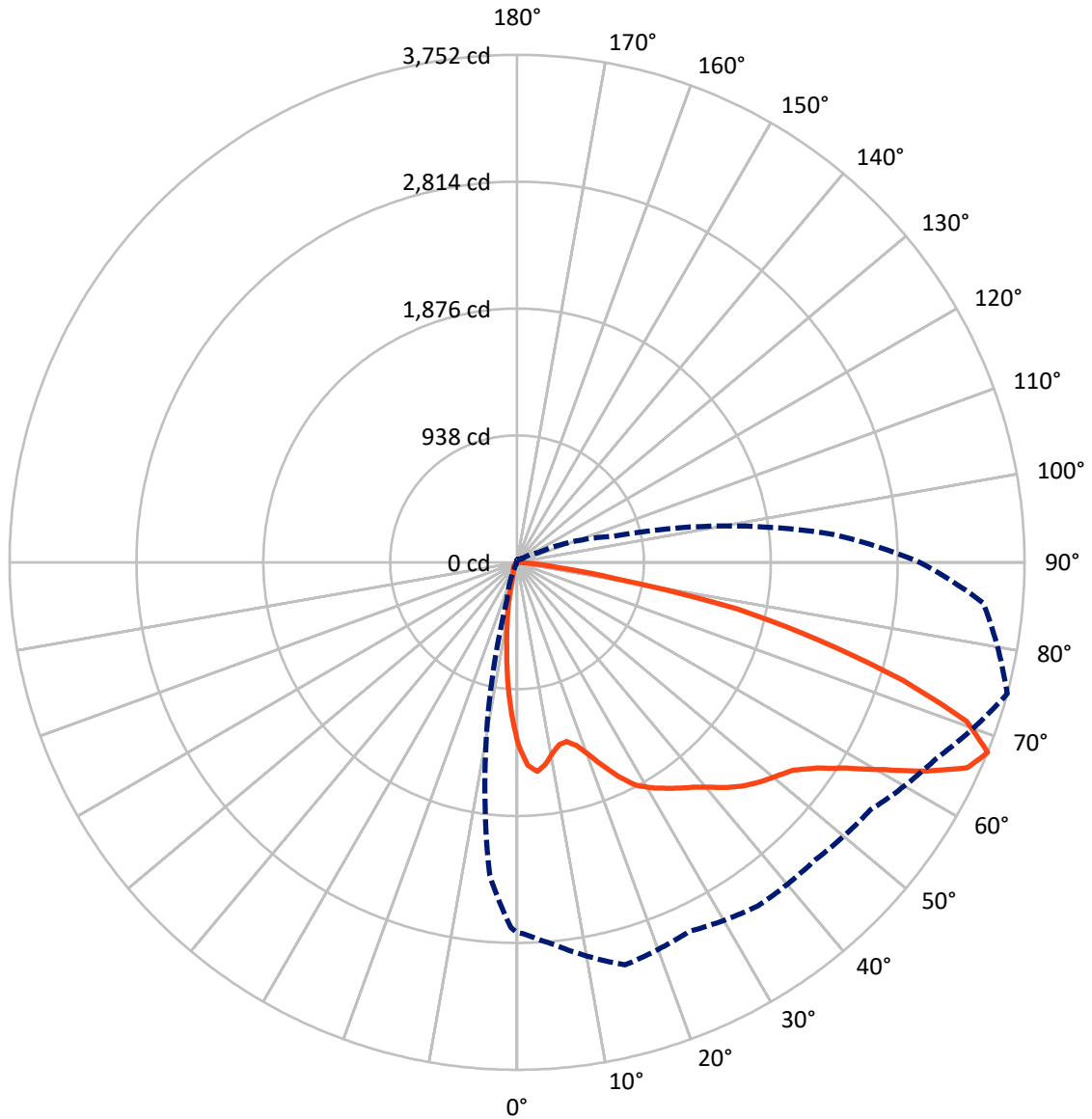
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.8 fc
 Type III - Medium - N/A

REPORT NUMBER: P324115
CATALOG NUMBER: GAN-SA1B-730-U-SLL-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

REPORT NUMBER: P324115
 CATALOG NUMBER: GAN-SA1B-730-U-SLL-HSS

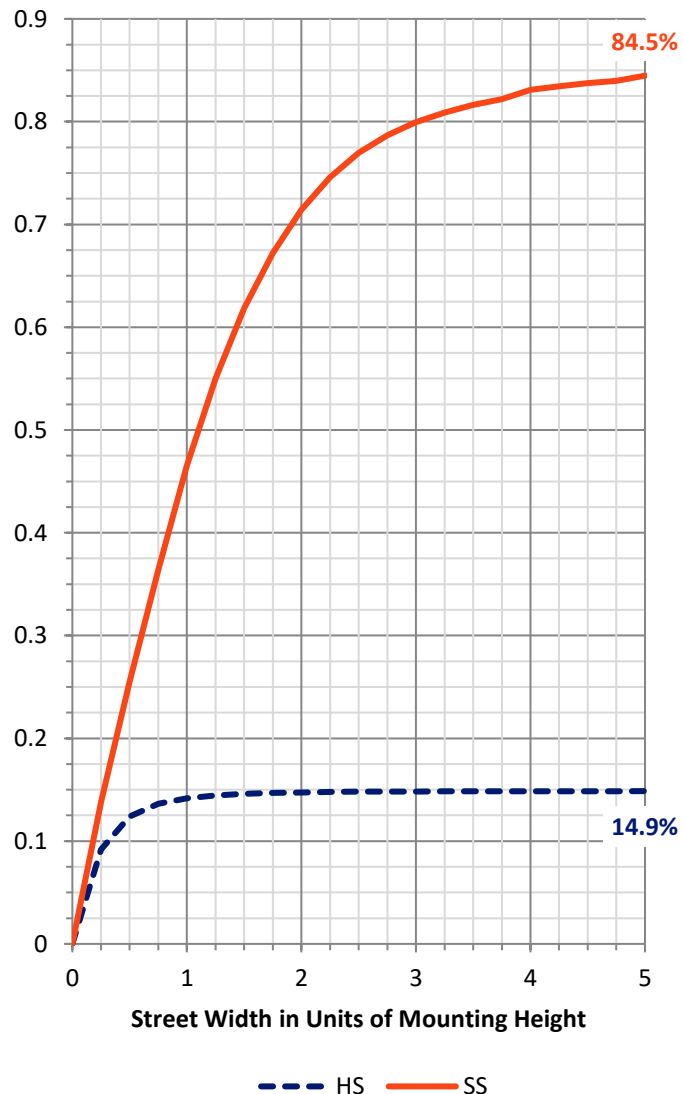
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	606.3	0.0	606.3
	% Fixture	15.0	0.0	15.0
Street Side	Lumens	3433.8	0.0	3433.8
	% Fixture	85.0	0.0	85.0
Total	Lumens	4040.0	0.0	4040.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	102.8	2.5
10°-20°	202.4	5.0
20°-30°	286.4	7.1
30°-40°	421.1	10.4
40°-50°	605.2	15.0
50°-60°	852.0	21.1
60°-70°	995.0	24.6
70°-80°	507.6	12.6
80°-90°	67.4	1.7
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°	4040.0	100.0
0°-180°	4040.0	100.0

Coefficient of Utilization

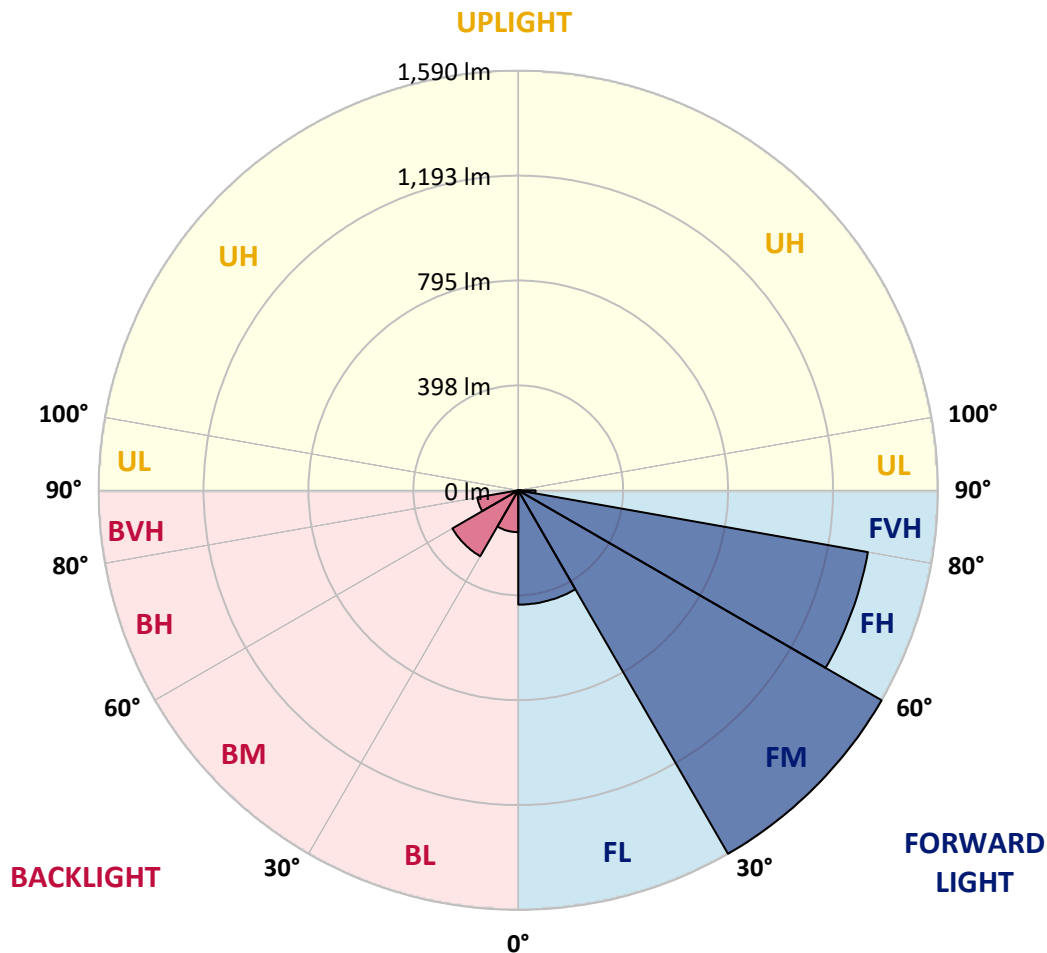


REPORT NUMBER: P324115
 CATALOG NUMBER: GAN-SA1B-730-U-SLL-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	433.1	10.7			
FM (30°-60°)	1590.1	39.4			
FH (60°-80°)	1345.2	33.3			G1/1800
FVH (80°-90°)	65.4	1.6			G1/100
BL (0°-30°)	158.5	3.9	B1/500		
BM (30°-60°)	288.2	7.1	B1/1000		
BH (60°-80°)	157.5	3.9	B1/500		G1/500
BVH (80°-90°)	2.0	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1
 Type III Medium





REPORT NUMBER: P324115

CATALOG NUMBER: GAN-SA1B-730-U-SLL-HSS

CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1355.4	1355.4	1355.4	1355.4	1355.4	1355.4	1355.4	1355.4	1355.4	1355.4	1355.4
2.5°	1469.2	1471.5	1483.4	1510.9	1541.0	1543.3	1563.6	1542.7	1535.6	1501.9	1467.1
5°	1480.3	1489.1	1529.9	1610.8	1681.1	1703.7	1719.7	1678.8	1635.7	1553.4	1465.6
7.5°	1390.9	1405.7	1469.8	1621.8	1747.3	1802.8	1813.3	1749.2	1643.8	1508.3	1376.2
10°	1276.5	1293.3	1370.7	1557.4	1729.9	1825.0	1839.5	1755.5	1604.0	1435.2	1279.6
12.5°	1183.9	1203.6	1282.6	1485.1	1670.0	1775.2	1803.9	1734.3	1569.5	1383.3	1213.5
15°	1141.2	1163.8	1246.8	1438.4	1603.6	1686.4	1710.2	1680.1	1550.4	1375.1	1198.2
17.5°	1165.7	1190.2	1275.9	1442.4	1541.2	1576.6	1595.7	1608.0	1550.4	1424.6	1243.0
20°	1266.2	1292.6	1383.3	1483.2	1489.5	1476.3	1496.8	1539.8	1568.4	1518.8	1350.6
22.5°	1405.1	1436.1	1538.5	1553.0	1464.2	1414.3	1417.0	1484.5	1601.1	1638.2	1499.8
25°	1574.5	1612.4	1716.5	1657.2	1474.8	1377.4	1376.4	1439.0	1633.0	1757.8	1666.2
27.5°	1742.7	1784.4	1875.9	1784.2	1518.2	1370.7	1368.7	1425.2	1664.2	1864.2	1847.8
30°	1883.8	1924.3	2003.2	1876.3	1565.1	1386.4	1377.2	1439.9	1682.8	1933.3	1980.2
32.5°	1998.6	2031.1	2094.8	1939.6	1615.2	1416.8	1396.9	1479.4	1714.4	1991.7	2101.9
35°	2124.9	2159.1	2184.6	1999.9	1671.5	1460.6	1432.1	1541.9	1763.0	2051.0	2235.3
37.5°	2269.0	2303.1	2300.0	2055.0	1742.9	1533.1	1515.0	1641.1	1838.6	2109.8	2384.2
40°	2410.0	2444.9	2420.0	2115.3	1826.7	1652.8	1639.4	1790.0	1939.8	2185.0	2558.7
42.5°	2542.1	2579.8	2526.6	2172.4	1926.6	1803.6	1826.5	1981.7	2066.5	2277.6	2709.2
45°	2648.5	2687.0	2616.0	2227.9	2031.9	1986.5	2055.6	2194.2	2218.9	2355.9	2810.8
47.5°	2725.8	2762.2	2678.0	2283.4	2166.6	2210.2	2330.6	2416.9	2356.5	2423.8	2882.9
50°	2775.2	2803.5	2696.2	2352.8	2343.4	2471.3	2617.1	2659.2	2486.0	2485.1	2970.6
52.5°	2806.6	2819.4	2709.6	2425.4	2527.9	2755.5	2897.7	2910.9	2619.4	2552.4	3088.7
55°	2914.7	2925.0	2804.5	2513.2	2680.5	3004.5	3151.4	3139.2	2770.4	2684.3	3228.0
57.5°	3099.2	3110.1	3000.6	2639.5	2803.9	3158.3	3335.4	3357.4	2947.4	2869.5	3377.3
60°	3191.8	3212.1	3173.1	2799.5	2923.5	3256.7	3460.7	3531.0	3168.7	3113.7	3522.0
62.5°	3107.8	3137.3	3193.9	2976.9	3042.4	3310.9	3499.8	3593.2	3395.3	3398.3	3611.1
65°	2940.2	2963.7	3059.8	3074.1	3111.3	3304.2	3403.3	3506.3	3534.0	3659.8	3606.4
67.5°	2737.7	2746.5	2828.0	3081.8	3011.4	3102.8	3113.6	3189.7	3424.4	3752.4	3461.5
70°	2446.2	2451.0	2522.2	2825.5	2587.8	2607.9	2592.0	2607.5	2944.0	3526.7	3095.8
72.5°	1968.7	1980.8	2082.0	2346.5	1885.3	1827.3	1952.1	1945.2	2267.3	2979.6	2299.2
75°	1449.5	1470.4	1623.3	1890.1	1323.2	1196.9	1288.0	1312.3	1611.8	2304.8	1437.8
77.5°	1014.9	1030.4	1178.5	1389.4	957.7	855.8	822.9	851.8	1063.9	1667.3	724.4
80°	584.7	590.4	684.9	802.3	645.3	738.3	668.9	688.8	637.5	741.8	311.6
82.5°	382.6	383.5	420.5	477.5	401.9	467.0	345.6	441.9	392.1	298.0	101.4
85°	206.7	207.8	243.8	338.9	227.6	128.6	75.6	155.2	242.5	68.3	27.8
87.5°	22.8	20.9	73.5	123.2	63.2	11.7	4.0	17.4	38.9	4.4	0.0
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: P324115
 CATALOG NUMBER: GAN-SA1B-730-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1355.4	1355.4	1355.4	1355.4	1355.4	1355.4	1355.4	1355.4	1355.4	1355.4	1355.4
2.5°	1449.3	1433.4	1393.8	1351.9	1318.2	1286.6	1254.9	1216.0	1186.0	1179.9	1169.9
5°	1418.3	1368.0	1284.9	1201.5	1134.3	1049.5	995.7	953.8	912.9	910.4	902.2
7.5°	1310.0	1243.8	1126.8	1011.4	916.9	836.1	754.6	700.1	657.2	642.1	633.1
10°	1205.9	1131.4	985.4	853.7	769.3	698.0	640.5	583.5	531.8	496.2	480.2
12.5°	1133.2	1050.9	889.9	776.4	716.0	648.2	578.2	507.0	447.4	404.6	378.4
15°	1105.0	1017.2	858.0	745.8	671.2	585.4	495.9	414.5	348.5	309.7	286.1
17.5°	1138.5	1036.3	855.5	708.5	604.2	497.6	398.6	302.6	240.4	210.9	195.8
20°	1223.5	1097.2	854.5	662.7	524.6	393.5	270.0	199.0	161.3	144.9	137.8
22.5°	1343.7	1174.9	862.2	617.6	441.7	281.1	186.4	146.2	126.9	118.1	114.1
25°	1498.3	1284.0	883.8	576.6	363.8	209.8	145.3	122.5	108.9	102.0	99.1
27.5°	1663.1	1409.5	917.5	541.0	300.5	167.3	124.4	104.9	95.1	90.3	87.7
30°	1799.0	1555.0	951.5	501.4	254.5	145.8	113.9	95.7	84.4	81.3	78.8
32.5°	1917.8	1665.0	975.7	465.6	224.5	129.6	103.0	85.5	77.9	72.0	69.3
35°	2040.9	1756.7	974.9	440.6	203.8	117.3	93.8	76.6	67.4	60.5	58.4
37.5°	2174.1	1860.2	958.2	419.1	194.8	107.6	88.6	71.8	62.6	55.7	53.0
40°	2330.0	1968.9	941.2	399.0	192.3	99.7	85.0	67.9	58.2	51.5	48.8
42.5°	2482.0	2066.9	926.3	384.1	181.6	99.5	81.7	65.1	54.7	48.2	45.2
45°	2603.5	2158.2	923.4	375.1	170.3	103.0	80.0	63.2	52.1	45.5	42.7
47.5°	2704.6	2257.3	941.8	368.8	159.6	94.0	84.2	61.8	49.6	43.3	40.0
50°	2824.8	2379.0	985.0	358.5	148.3	84.6	96.5	62.2	47.5	41.0	37.5
52.5°	2992.4	2547.5	1048.6	341.0	132.8	76.0	94.9	62.6	45.2	38.5	35.0
55°	3180.3	2757.8	1116.9	312.1	111.2	64.7	81.3	59.9	40.8	35.8	32.5
57.5°	3377.9	2948.6	1157.5	277.7	88.4	55.9	65.1	54.5	36.0	32.2	30.0
60°	3408.9	3021.1	1138.9	235.4	70.2	48.6	48.2	55.5	32.2	28.3	26.8
62.5°	3331.7	2930.0	1049.1	197.7	58.8	42.7	39.6	48.4	29.1	25.3	23.7
65°	3183.4	2683.7	903.7	178.2	54.5	36.6	32.9	34.1	25.5	22.0	20.7
67.5°	2977.1	2354.9	742.0	167.1	54.0	31.4	28.1	25.8	22.0	19.1	18.0
70°	2555.3	1961.8	591.9	161.0	52.4	26.4	23.7	21.1	18.4	16.3	15.3
72.5°	1880.7	1390.2	460.5	154.3	52.8	21.1	20.7	17.4	14.7	12.6	12.2
75°	1086.7	794.2	302.0	125.0	50.3	16.3	17.2	12.2	10.3	8.8	8.8
77.5°	579.1	484.4	115.0	52.1	18.4	10.3	9.8	7.3	6.5	5.4	5.2
80°	252.4	213.2	34.6	14.5	10.1	5.6	3.6	3.3	2.9	2.3	2.1
82.5°	89.4	77.1	11.3	7.1	4.4	0.0	0.0	0.0	0.0	0.0	0.0
85°	20.3	14.5	0.0	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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: P324115
 CATALOG NUMBER: GAN-SA1B-730-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	1355.4	1355.4	1355.4	1355.4	1355.4	1355.4	1355.4	1355.4	1355.4	1355.4	1355.4
2.5°	1149.6	1145.4	1120.5	1121.5	1125.9	1132.2	1117.3	1124.2	1142.7	1160.5	1167.2
5°	889.0	889.9	874.8	884.2	892.6	898.3	874.2	874.6	889.3	909.4	920.0
7.5°	626.4	624.9	625.6	648.0	663.9	652.4	661.4	630.2	632.1	646.5	635.8
10°	465.6	444.6	432.7	449.6	467.0	460.7	445.1	435.0	442.1	458.0	456.8
12.5°	365.9	335.7	317.9	305.8	320.2	308.3	307.9	299.1	289.6	291.3	316.7
15°	275.2	253.2	232.1	212.8	212.4	208.4	187.9	165.0	163.1	164.2	177.4
17.5°	189.3	181.8	173.2	156.5	152.1	135.3	115.4	106.2	101.6	103.7	108.1
20°	133.0	130.1	131.1	122.1	115.8	99.7	88.0	84.4	83.6	85.7	87.8
22.5°	110.2	105.1	104.5	100.5	94.2	82.5	76.2	74.1	73.1	75.0	76.6
25°	96.5	91.3	89.2	86.7	80.0	72.0	68.1	66.2	65.3	66.4	67.4
27.5°	85.0	80.2	78.3	76.6	70.0	64.3	61.2	59.5	58.8	59.1	60.1
30°	76.4	72.2	69.7	67.6	62.0	58.0	55.3	53.6	52.8	52.8	53.8
32.5°	67.4	65.1	62.8	60.1	54.9	52.2	49.6	47.7	46.9	47.1	47.8
35°	56.1	55.3	55.9	53.4	49.0	46.7	44.0	41.9	41.3	41.5	42.3
37.5°	49.8	46.3	48.4	47.1	44.6	41.5	38.1	36.2	35.2	35.8	36.2
40°	45.7	41.5	40.0	41.3	41.0	36.0	32.9	31.0	30.2	30.4	30.8
42.5°	42.3	37.3	33.9	33.7	36.0	31.4	28.1	26.4	25.5	25.5	25.8
45°	39.0	33.7	29.5	26.2	30.2	26.6	23.5	22.0	20.9	20.9	21.1
47.5°	36.6	30.6	25.6	21.4	22.8	21.8	19.3	17.8	16.7	16.7	16.8
50°	34.3	27.6	22.2	18.0	17.0	18.0	15.7	14.0	13.2	13.0	13.4
52.5°	31.8	24.5	18.9	15.3	13.4	13.6	12.2	11.1	10.1	10.1	10.5
55°	29.3	22.0	16.5	13.0	11.1	10.1	9.8	9.0	8.2	8.2	8.6
57.5°	26.8	19.3	14.0	10.7	8.8	8.0	8.0	7.5	6.9	6.9	7.3
60°	24.5	16.7	11.5	8.8	6.9	6.7	6.9	6.3	5.9	5.9	6.3
62.5°	21.8	14.2	9.4	7.3	5.6	5.4	5.9	5.6	5.2	5.2	5.6
65°	18.6	12.1	7.5	5.6	4.2	4.2	5.0	4.6	4.2	4.2	4.6
67.5°	15.7	10.1	5.7	4.0	3.1	3.3	4.2	3.8	3.6	3.6	4.0
70°	13.0	7.8	4.0	2.5	1.7	2.5	3.3	3.3	3.3	3.3	3.6
72.5°	9.8	5.4	2.3	1.0	0.8	1.7	2.7	3.1	2.9	2.9	3.4
75°	6.3	3.1	0.8	0.0	0.0	1.0	2.1	2.5	2.5	2.3	2.9
77.5°	3.6	1.0	0.0	0.0	0.0	0.0	1.3	1.1	1.0	0.8	1.3
80°	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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: P324115
 CATALOG NUMBER: GAN-SA1B-730-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	1355.4	1355.4	1355.4	1355.4	1355.4	1355.4	1355.4	1355.4	1355.4	1355.4
2.5°	1194.2	1216.8	1248.6	1282.2	1334.1	1375.3	1415.6	1450.3	1463.7	1469.2
5°	945.2	978.3	1024.8	1084.5	1178.1	1262.3	1347.7	1433.6	1470.9	1480.3
7.5°	678.2	720.5	779.7	854.5	964.2	1073.3	1192.5	1318.6	1376.4	1390.9
10°	502.0	553.7	621.4	700.3	804.9	917.1	1047.0	1191.1	1257.2	1276.5
12.5°	356.2	426.0	516.7	612.6	703.3	803.4	934.9	1093.7	1163.0	1183.9
15°	209.2	276.7	384.1	512.5	628.7	730.1	863.7	1043.8	1120.1	1141.2
17.5°	120.0	153.7	234.8	378.0	535.7	676.1	841.3	1056.2	1146.2	1165.7
20°	91.7	102.4	135.3	243.4	427.0	623.1	841.3	1126.7	1237.5	1266.2
22.5°	80.2	88.0	101.4	145.3	314.2	566.3	851.1	1228.5	1373.3	1405.1
25°	71.2	78.3	89.8	109.3	214.3	498.7	874.2	1353.4	1533.3	1574.5
27.5°	63.7	70.4	80.8	95.7	146.6	417.2	905.4	1500.0	1709.8	1742.7
30°	57.0	63.3	72.7	83.3	113.1	324.8	932.0	1638.2	1848.3	1883.8
32.5°	50.7	56.5	64.9	72.7	92.6	240.2	934.9	1747.7	1963.4	1998.6
35°	44.8	50.0	57.6	63.7	76.7	189.7	890.3	1842.6	2078.4	2124.9
37.5°	39.0	44.0	50.7	55.3	67.6	154.6	822.2	1948.4	2225.9	2269.0
40°	33.7	38.1	45.0	48.0	63.9	118.8	748.1	2059.4	2370.6	2410.0
42.5°	28.7	32.9	39.6	45.5	56.1	88.8	668.1	2163.5	2500.8	2542.1
45°	23.9	28.3	35.0	48.2	46.5	66.4	582.6	2232.6	2603.5	2648.5
47.5°	19.3	24.3	33.5	45.9	37.1	48.8	514.8	2298.1	2681.4	2725.8
50°	15.5	20.5	37.7	41.0	30.4	37.3	486.5	2356.6	2732.5	2775.2
52.5°	12.6	17.2	35.6	31.4	25.5	30.8	501.8	2451.6	2779.8	2806.6
55°	10.5	13.6	21.4	21.8	21.6	26.2	520.7	2587.8	2902.1	2914.7
57.5°	9.2	10.9	14.9	16.8	18.2	23.3	521.1	2783.4	3091.4	3099.2
60°	7.8	9.6	12.4	13.6	15.7	20.9	502.2	2851.7	3165.8	3191.8
62.5°	6.9	8.4	10.3	11.3	13.2	18.8	457.8	2752.8	3063.6	3107.8
65°	6.1	7.7	8.6	9.6	11.7	16.8	384.7	2554.9	2894.0	2940.2
67.5°	5.4	6.7	7.7	8.6	10.5	14.9	283.2	2325.1	2699.4	2737.7
70°	4.8	5.9	6.9	7.7	9.2	12.6	171.9	1972.9	2430.3	2446.2
72.5°	4.6	5.4	6.3	6.9	8.0	11.1	87.1	1449.9	1942.9	1968.7
75°	4.0	4.8	5.7	6.1	7.1	9.6	35.4	952.3	1408.0	1449.5
77.5°	3.3	4.4	5.2	5.6	6.1	7.8	18.0	608.6	988.1	1014.9
80°	1.1	3.3	4.4	4.6	5.2	5.7	11.9	333.2	573.2	584.7
82.5°	0.0	2.1	3.4	3.3	3.6	4.4	7.7	158.5	378.4	382.6
85°	0.0	1.0	2.7	2.1	1.5	3.1	2.7	34.6	198.5	206.7
87.5°	0.0	0.0	0.2	1.0	0.8	1.1	0.4	0.2	18.0	22.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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