

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: P324145

Luminaire Tested: **GAN-SA1A-740-U-SLL-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P324145
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-SA1A-740-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 4000K, 615mA 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: 3618 lumens
Efficiency: N/A
Efficacy: 106.4 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

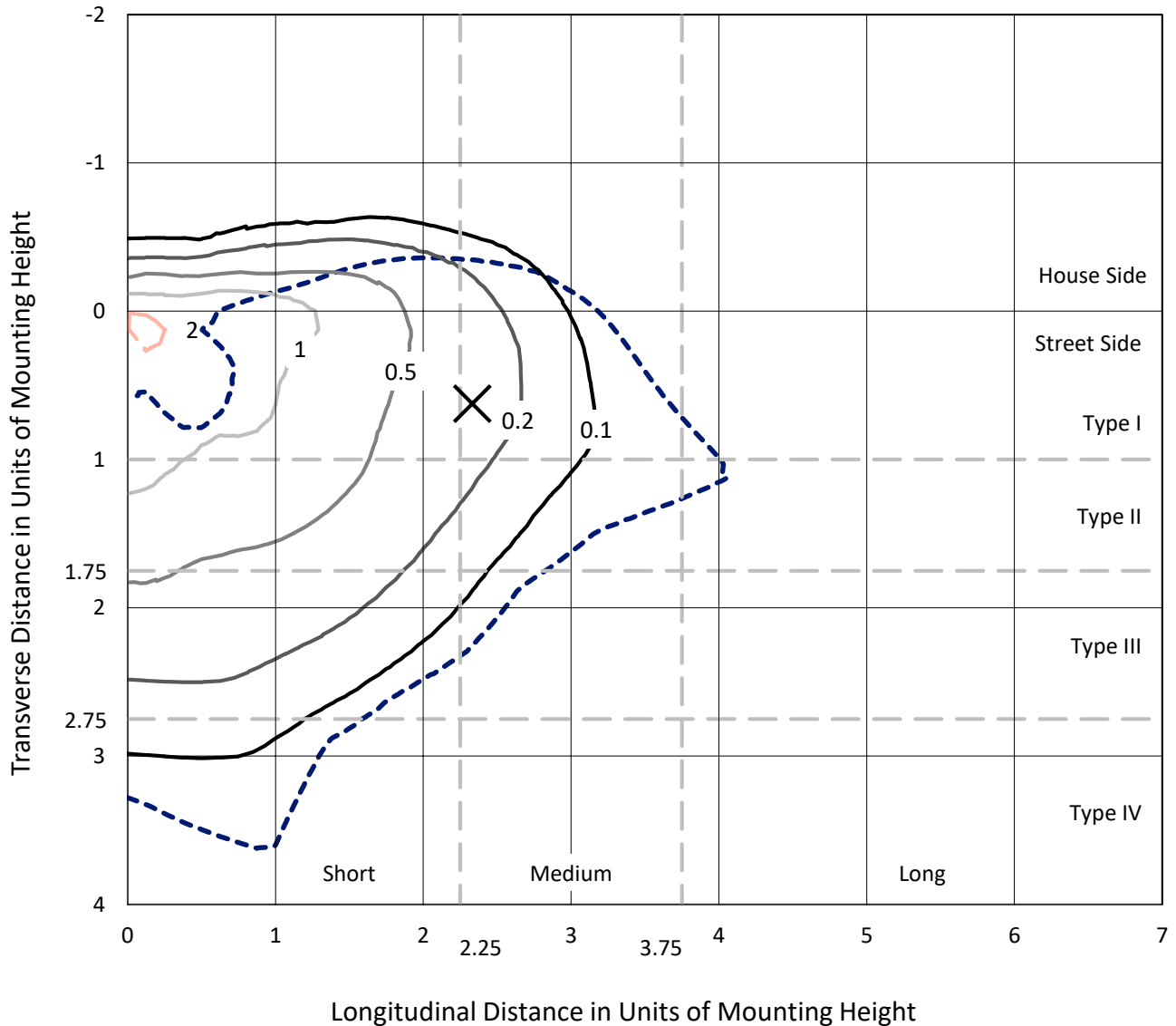
Input Watts (W): 34
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P324145
 CATALOG NUMBER: GAN-SA1A-740-U-SLL-HSS

Iso-Footcandle Lines of Horizontal Illumination

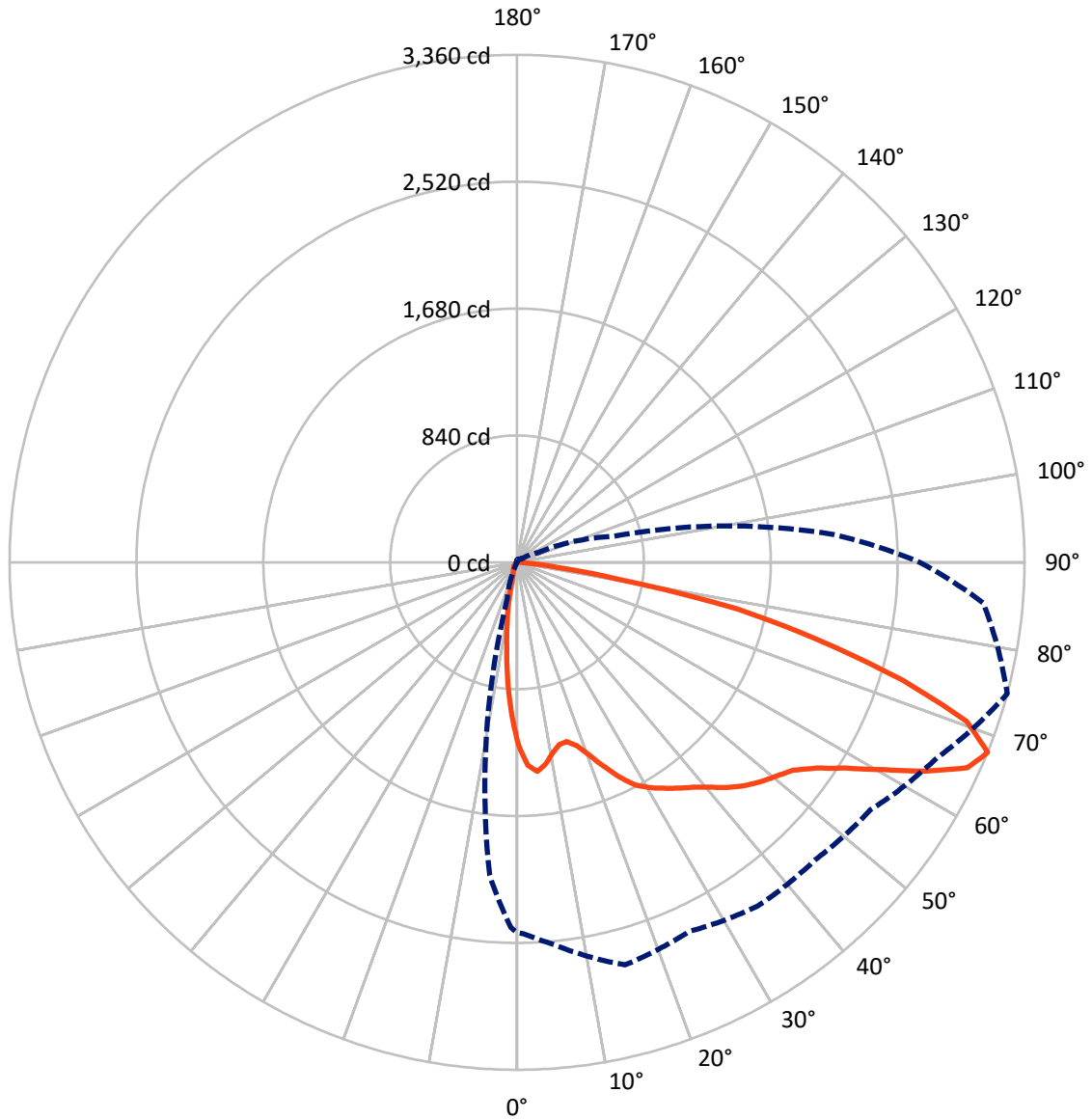
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.5 fc
 Type III - Medium - N/A

REPORT NUMBER: P324145
CATALOG NUMBER: GAN-SA1A-740-U-SLL-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P324145
 CATALOG NUMBER: GAN-SA1A-740-U-SLL-HSS

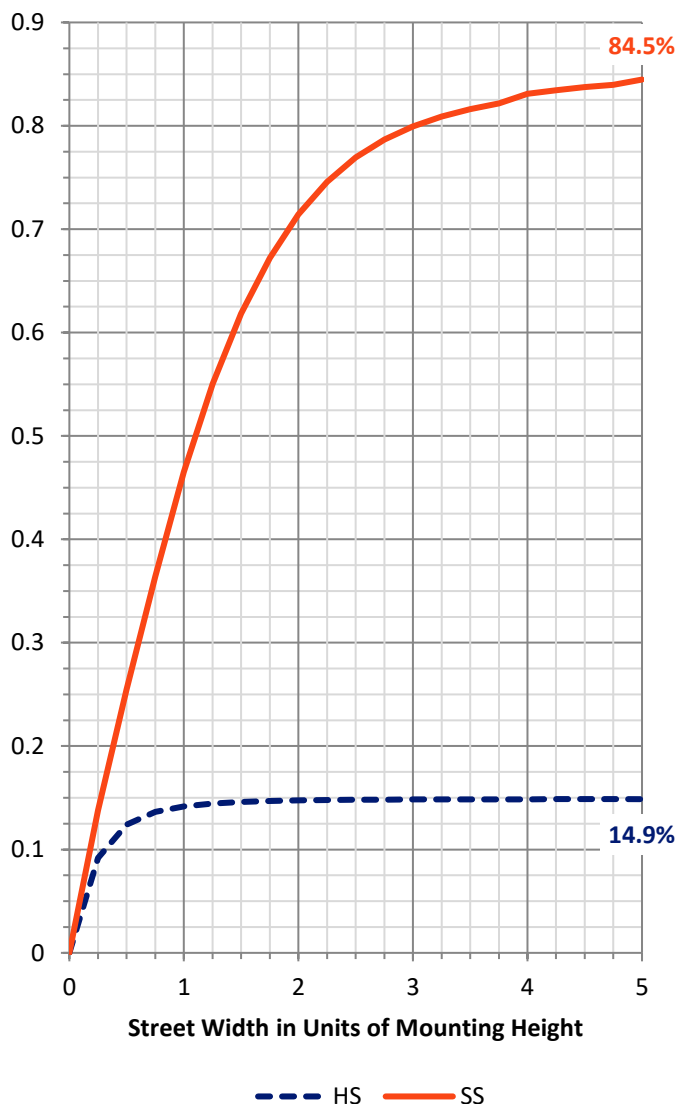
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	542.9	0.0	542.9
	% Fixture	15.0	0.0	15.0
Street Side	Lumens	3075.1	0.0	3075.1
	% Fixture	85.0	0.0	85.0
Total	Lumens	3618.0	0.0	3618.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	92.1	2.5
10°-20°	181.3	5.0
20°-30°	256.5	7.1
30°-40°	377.1	10.4
40°-50°	542.0	15.0
50°-60°	763.0	21.1
60°-70°	891.1	24.6
70°-80°	454.6	12.6
80°-90°	60.4	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°	3618.0	100.0
0°-180°	3618.0	100.0

Coefficient of Utilization

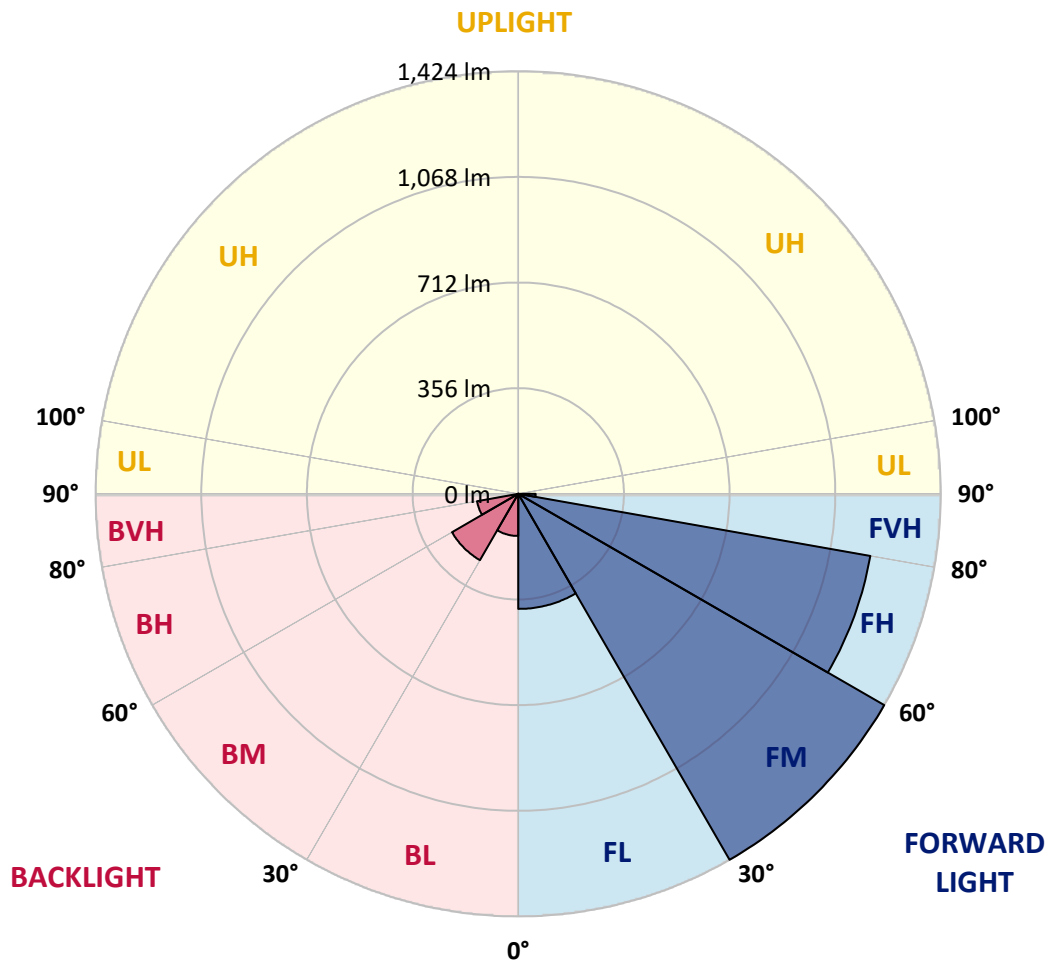


REPORT NUMBER: P324145
 CATALOG NUMBER: GAN-SA1A-740-U-SLL-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	387.9	10.7			
FM (30°-60°)	1424.0	39.4			
FH (60°-80°)	1204.7	33.3			G1/1800
FVH (80°-90°)	58.6	1.6			G1/100
BL (0°-30°)	142.0	3.9	B1/500		
BM (30°-60°)	258.1	7.1	B1/1000		
BH (60°-80°)	141.0	3.9	B1/500		G1/500
BVH (80°-90°)	1.8	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: P324145
 CATALOG NUMBER: GAN-SA1A-740-U-SLL-HSS

CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1213.8	1213.8	1213.8	1213.8	1213.8	1213.8	1213.8	1213.8	1213.8	1213.8	1213.8
2.5°	1315.8	1317.8	1328.4	1353.1	1380.0	1382.1	1400.2	1381.6	1375.2	1345.1	1313.9
5°	1325.7	1333.6	1370.1	1442.6	1505.5	1525.7	1540.1	1503.4	1464.9	1391.2	1312.5
7.5°	1245.7	1258.9	1316.3	1452.4	1564.8	1614.5	1623.9	1566.5	1472.1	1350.7	1232.5
10°	1143.2	1158.2	1227.5	1394.8	1549.2	1634.4	1647.4	1572.2	1436.4	1285.2	1145.9
12.5°	1060.2	1077.9	1148.6	1330.0	1495.5	1589.8	1615.5	1553.1	1405.6	1238.8	1086.8
15°	1022.0	1042.2	1116.6	1288.2	1436.1	1510.3	1531.5	1504.6	1388.4	1231.4	1073.1
17.5°	1043.9	1065.9	1142.7	1291.8	1380.2	1411.9	1429.0	1440.0	1388.4	1275.8	1113.2
20°	1133.9	1157.6	1238.8	1328.3	1333.9	1322.1	1340.4	1379.0	1404.5	1360.1	1209.5
22.5°	1258.3	1286.1	1377.8	1390.8	1311.3	1266.6	1269.0	1329.5	1433.8	1467.1	1343.2
25°	1410.0	1444.0	1537.2	1484.1	1320.7	1233.5	1232.6	1288.7	1462.5	1574.2	1492.1
27.5°	1560.7	1598.0	1680.0	1597.9	1359.6	1227.5	1225.8	1276.3	1490.4	1669.5	1654.8
30°	1687.0	1723.3	1793.9	1680.3	1401.6	1241.5	1233.3	1289.5	1507.0	1731.4	1773.4
32.5°	1789.8	1819.0	1876.0	1737.0	1446.5	1268.8	1251.0	1324.8	1535.3	1783.6	1882.4
35°	1902.9	1933.6	1956.4	1791.0	1496.9	1308.0	1282.5	1380.9	1578.8	1836.8	2001.8
37.5°	2032.0	2062.5	2059.8	1840.4	1560.8	1373.0	1356.7	1469.7	1646.5	1889.4	2135.2
40°	2158.3	2189.5	2167.2	1894.4	1635.9	1480.1	1468.1	1603.0	1737.2	1956.7	2291.5
42.5°	2276.6	2310.3	2262.7	1945.4	1725.4	1615.2	1635.7	1774.7	1850.7	2039.7	2426.2
45°	2371.9	2406.3	2342.7	1995.1	1819.6	1779.0	1840.9	1965.0	1987.1	2109.8	2517.2
47.5°	2441.1	2473.7	2398.2	2044.8	1940.3	1979.4	2087.2	2164.5	2110.3	2170.6	2581.8
50°	2485.3	2510.7	2414.5	2107.1	2098.7	2213.1	2343.7	2381.5	2226.3	2225.5	2660.3
52.5°	2513.4	2524.9	2426.5	2172.0	2263.9	2467.7	2595.0	2606.8	2345.8	2285.8	2766.0
55°	2610.3	2619.5	2511.5	2250.7	2400.5	2690.6	2822.3	2811.3	2481.0	2403.9	2890.8
57.5°	2775.5	2785.2	2687.2	2363.8	2511.0	2828.4	2987.0	3006.7	2639.6	2569.8	3024.5
60°	2858.4	2876.6	2841.6	2507.1	2618.1	2916.5	3099.2	3162.1	2837.7	2788.5	3154.1
62.5°	2783.2	2809.6	2860.3	2666.0	2724.6	2965.0	3134.2	3217.8	3040.6	3043.4	3233.9
65°	2633.0	2654.1	2740.2	2753.0	2786.3	2959.0	3047.8	3140.0	3164.9	3277.5	3229.7
67.5°	2451.7	2459.6	2532.6	2759.9	2696.8	2778.7	2788.3	2856.5	3066.7	3360.4	3099.9
70°	2190.7	2195.0	2258.7	2530.4	2317.5	2335.5	2321.3	2335.2	2636.5	3158.4	2772.4
72.5°	1763.1	1773.9	1864.5	2101.4	1688.4	1636.4	1748.2	1742.0	2030.4	2668.4	2059.1
75°	1298.1	1316.8	1453.7	1692.6	1185.0	1071.9	1153.4	1175.2	1443.4	2064.0	1287.6
77.5°	908.9	922.8	1055.4	1244.3	857.6	766.5	737.0	762.9	952.8	1493.1	648.7
80°	523.6	528.7	613.4	718.5	577.9	661.2	599.0	616.8	570.9	664.3	279.0
82.5°	342.6	343.5	376.5	427.6	359.9	418.2	309.5	395.7	351.2	266.9	90.8
85°	185.1	186.1	218.3	303.5	203.8	115.2	67.7	139.0	217.1	61.2	24.9
87.5°	20.4	18.7	65.8	110.4	56.6	10.5	3.6	15.6	34.8	3.9	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: P324145
 CATALOG NUMBER: GAN-SA1A-740-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1213.8	1213.8	1213.8	1213.8	1213.8	1213.8	1213.8	1213.8	1213.8	1213.8	1213.8
2.5°	1297.9	1283.7	1248.2	1210.7	1180.5	1152.2	1123.8	1089.0	1062.1	1056.6	1047.7
5°	1270.2	1225.1	1150.7	1076.0	1015.8	939.9	891.7	854.2	817.5	815.3	807.9
7.5°	1173.2	1113.9	1009.1	905.8	821.1	748.8	675.8	626.9	588.5	575.0	567.0
10°	1079.9	1013.3	882.5	764.6	689.0	625.1	573.6	522.6	476.3	444.4	430.0
12.5°	1014.8	941.1	797.0	695.3	641.2	580.5	517.8	454.0	400.7	362.3	338.8
15°	989.6	910.9	768.3	667.9	601.1	524.3	444.1	371.2	312.1	277.3	256.2
17.5°	1019.6	928.1	766.1	634.5	541.1	445.6	357.0	271.0	215.3	188.9	175.3
20°	1095.7	982.6	765.3	593.5	469.8	352.4	241.8	178.2	144.5	129.7	123.4
22.5°	1203.3	1052.2	772.1	553.1	395.6	251.8	166.9	130.9	113.6	105.7	102.1
25°	1341.8	1149.8	791.5	516.4	325.8	187.8	130.1	109.7	97.5	91.4	88.8
27.5°	1489.4	1262.3	821.6	484.5	269.1	149.8	111.4	93.9	85.2	80.9	78.5
30°	1611.1	1392.5	852.1	449.0	227.9	130.6	102.0	85.7	75.6	72.8	70.6
32.5°	1717.5	1491.1	873.7	417.0	201.0	116.0	92.2	76.6	69.8	64.4	62.0
35°	1827.7	1573.2	873.1	394.5	182.5	105.1	84.0	68.6	60.3	54.2	52.3
37.5°	1947.0	1665.9	858.1	375.3	174.5	96.3	79.4	64.3	56.0	49.9	47.5
40°	2086.7	1763.3	842.9	357.3	172.2	89.3	76.1	60.8	52.1	46.1	43.7
42.5°	2222.7	1851.0	829.5	344.0	162.6	89.1	73.2	58.3	49.0	43.2	40.4
45°	2331.6	1932.8	827.0	335.9	152.5	92.2	71.6	56.6	46.6	40.8	38.2
47.5°	2422.1	2021.5	843.4	330.3	142.9	84.2	75.4	55.4	44.4	38.7	35.8
50°	2529.7	2130.5	882.1	321.0	132.8	75.8	86.4	55.7	42.5	36.7	33.6
52.5°	2679.8	2281.4	939.0	305.4	118.9	68.0	85.0	56.0	40.4	34.4	31.4
55°	2848.1	2469.7	1000.2	279.5	99.6	57.9	72.8	53.6	36.5	32.0	29.1
57.5°	3025.0	2640.6	1036.6	248.7	79.2	50.0	58.3	48.8	32.2	28.8	26.9
60°	3052.8	2705.5	1019.9	210.8	62.9	43.5	43.2	49.7	28.8	25.4	24.0
62.5°	2983.7	2624.0	939.6	177.0	52.6	38.2	35.5	43.4	26.1	22.6	21.3
65°	2850.9	2403.4	809.3	159.6	48.8	32.7	29.5	30.5	22.8	19.7	18.5
67.5°	2666.1	2108.9	664.5	149.6	48.3	28.1	25.2	23.1	19.7	17.1	16.1
70°	2288.4	1756.9	530.1	144.1	47.0	23.7	21.3	18.9	16.5	14.6	13.7
72.5°	1684.2	1245.0	412.4	138.1	47.3	18.9	18.5	15.6	13.2	11.3	11.0
75°	973.1	711.3	270.5	111.9	45.1	14.6	15.4	11.0	9.3	7.9	7.9
77.5°	518.6	433.8	103.0	46.6	16.5	9.3	8.7	6.5	5.8	4.8	4.6
80°	226.1	190.9	31.0	13.0	9.1	5.0	3.3	2.9	2.6	2.1	1.9
82.5°	80.0	69.1	10.1	6.3	3.9	0.0	0.0	0.0	0.0	0.0	0.0
85°	18.2	13.0	0.0	1.5	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: P324145
 CATALOG NUMBER: GAN-SA1A-740-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	1213.8	1213.8	1213.8	1213.8	1213.8	1213.8	1213.8	1213.8	1213.8	1213.8	1213.8
2.5°	1029.5	1025.8	1003.5	1004.3	1008.3	1013.9	1000.6	1006.7	1023.4	1039.3	1045.3
5°	796.1	797.0	783.4	791.8	799.4	804.5	782.9	783.2	796.4	814.4	823.9
7.5°	561.0	559.6	560.3	580.3	594.5	584.3	592.3	564.4	566.1	579.0	569.4
10°	417.0	398.1	387.5	402.6	418.2	412.5	398.7	389.6	395.9	410.1	409.1
12.5°	327.7	300.6	284.7	273.9	286.7	276.1	275.8	267.9	259.3	260.9	283.6
15°	246.5	226.7	207.9	190.6	190.2	186.6	168.3	147.7	146.0	147.1	158.9
17.5°	169.5	162.8	155.1	140.2	136.3	121.2	103.3	95.1	91.0	92.9	96.8
20°	119.1	116.5	117.4	109.3	103.7	89.3	78.8	75.6	74.9	76.8	78.7
22.5°	98.7	94.1	93.6	90.0	84.3	73.9	68.2	66.3	65.5	67.2	68.6
25°	86.4	81.8	79.9	77.6	71.6	64.4	61.0	59.3	58.4	59.5	60.3
27.5°	76.1	71.8	70.1	68.6	62.7	57.6	54.8	53.3	52.6	53.0	53.8
30°	68.4	64.6	62.4	60.5	55.5	51.9	49.5	48.0	47.3	47.3	48.2
32.5°	60.3	58.3	56.2	53.8	49.2	46.8	44.4	42.7	42.0	42.2	42.8
35°	50.2	49.5	50.0	47.8	43.9	41.8	39.4	37.5	37.0	37.2	37.9
37.5°	44.6	41.5	43.4	42.2	39.9	37.2	34.1	32.4	31.5	32.0	32.4
40°	41.0	37.2	35.8	37.0	36.7	32.2	29.5	27.8	27.1	27.3	27.6
42.5°	37.9	33.4	30.3	30.2	32.2	28.1	25.2	23.7	22.8	22.8	23.1
45°	35.0	30.2	26.4	23.5	27.1	23.8	21.1	19.7	18.7	18.7	18.9
47.5°	32.7	27.4	23.0	19.2	20.4	19.5	17.3	15.9	14.9	14.9	15.1
50°	30.7	24.7	19.9	16.1	15.3	16.1	14.1	12.5	11.8	11.7	12.0
52.5°	28.5	21.9	17.0	13.7	12.0	12.2	11.0	9.9	9.1	9.1	9.4
55°	26.2	19.7	14.7	11.7	9.9	9.1	8.7	8.1	7.4	7.4	7.7
57.5°	24.0	17.3	12.5	9.6	7.9	7.2	7.2	6.7	6.2	6.2	6.5
60°	21.9	14.9	10.3	7.9	6.2	6.0	6.2	5.7	5.3	5.3	5.7
62.5°	19.5	12.7	8.4	6.5	5.0	4.8	5.3	5.0	4.6	4.6	5.0
65°	16.6	10.8	6.7	5.0	3.8	3.8	4.5	4.1	3.8	3.8	4.1
67.5°	14.1	9.1	5.1	3.6	2.7	2.9	3.8	3.4	3.3	3.3	3.6
70°	11.7	7.0	3.6	2.2	1.5	2.2	2.9	2.9	2.9	2.9	3.3
72.5°	8.7	4.8	2.1	0.9	0.7	1.5	2.4	2.7	2.6	2.6	3.1
75°	5.7	2.7	0.7	0.0	0.0	0.9	1.9	2.2	2.2	2.1	2.6
77.5°	3.3	0.9	0.0	0.0	0.0	0.0	1.2	1.0	0.9	0.7	1.2
80°	0.9	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: P324145
 CATALOG NUMBER: GAN-SA1A-740-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	1213.8	1213.8	1213.8	1213.8	1213.8	1213.8	1213.8	1213.8	1213.8	1213.8
2.5°	1069.5	1089.7	1118.1	1148.3	1194.8	1231.6	1267.8	1298.8	1310.8	1315.8
5°	846.5	876.1	917.8	971.3	1055.1	1130.5	1206.9	1283.9	1317.3	1325.7
7.5°	607.4	645.3	698.2	765.3	863.5	961.1	1067.9	1180.9	1232.6	1245.7
10°	449.6	495.8	556.5	627.1	720.9	821.3	937.7	1066.7	1125.9	1143.2
12.5°	319.0	381.5	462.8	548.6	629.9	719.5	837.2	979.5	1041.5	1060.2
15°	187.3	247.8	344.0	459.0	563.0	653.8	773.5	934.8	1003.1	1022.0
17.5°	107.5	137.6	210.3	338.5	479.7	605.5	753.4	945.9	1026.4	1043.9
20°	82.1	91.7	121.2	218.0	382.4	558.0	753.4	1009.0	1108.2	1133.9
22.5°	71.8	78.8	90.8	130.1	281.4	507.1	762.2	1100.1	1229.9	1258.3
25°	63.8	70.1	80.4	97.9	192.0	446.6	782.9	1212.1	1373.2	1410.0
27.5°	57.1	63.1	72.3	85.7	131.3	373.6	810.8	1343.3	1531.2	1560.7
30°	51.1	56.7	65.1	74.6	101.3	290.8	834.7	1467.1	1655.3	1687.0
32.5°	45.4	50.6	58.1	65.1	83.0	215.1	837.2	1565.1	1758.3	1789.8
35°	40.1	44.7	51.6	57.1	68.7	169.8	797.3	1650.1	1861.3	1902.9
37.5°	35.0	39.4	45.4	49.5	60.5	138.5	736.3	1744.9	1993.4	2032.0
40°	30.2	34.1	40.3	43.0	57.2	106.4	670.0	1844.3	2123.0	2158.3
42.5°	25.7	29.5	35.5	40.8	50.2	79.5	598.3	1937.6	2239.5	2276.6
45°	21.4	25.4	31.4	43.2	41.6	59.5	521.7	1999.4	2331.6	2371.9
47.5°	17.3	21.8	30.0	41.1	33.2	43.7	461.0	2058.0	2401.3	2441.1
50°	13.9	18.3	33.8	36.7	27.3	33.4	435.7	2110.5	2447.1	2485.3
52.5°	11.3	15.4	31.9	28.1	22.8	27.6	449.4	2195.5	2489.4	2513.4
55°	9.4	12.2	19.2	19.5	19.4	23.5	466.3	2317.5	2598.9	2610.3
57.5°	8.2	9.8	13.4	15.1	16.3	20.9	466.7	2492.7	2768.4	2775.5
60°	7.0	8.6	11.1	12.2	14.1	18.7	449.7	2553.9	2835.1	2858.4
62.5°	6.2	7.5	9.3	10.1	11.8	16.8	410.0	2465.3	2743.6	2783.2
65°	5.5	6.9	7.7	8.6	10.5	15.1	344.5	2288.0	2591.7	2633.0
67.5°	4.8	6.0	6.9	7.7	9.4	13.4	253.7	2082.2	2417.4	2451.7
70°	4.3	5.3	6.2	6.9	8.2	11.3	153.9	1766.8	2176.5	2190.7
72.5°	4.1	4.8	5.7	6.2	7.2	9.9	78.0	1298.4	1739.9	1763.1
75°	3.6	4.3	5.1	5.5	6.3	8.6	31.7	852.8	1260.9	1298.1
77.5°	2.9	3.9	4.6	5.0	5.5	7.0	16.1	545.0	884.9	908.9
80°	1.0	2.9	3.9	4.1	4.6	5.1	10.6	298.4	513.3	523.6
82.5°	0.0	1.9	3.1	2.9	3.3	3.9	6.9	141.9	338.8	342.6
85°	0.0	0.9	2.4	1.9	1.4	2.7	2.4	31.0	177.7	185.1
87.5°	0.0	0.0	0.2	0.9	0.7	1.0	0.3	0.2	16.1	20.4
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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