

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: P322817

Luminaire Tested: **GAN-SA3D-727-U-T4W-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322817
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-19)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA3D-727-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14358 lumens
Efficiency: N/A
Efficacy: 75.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

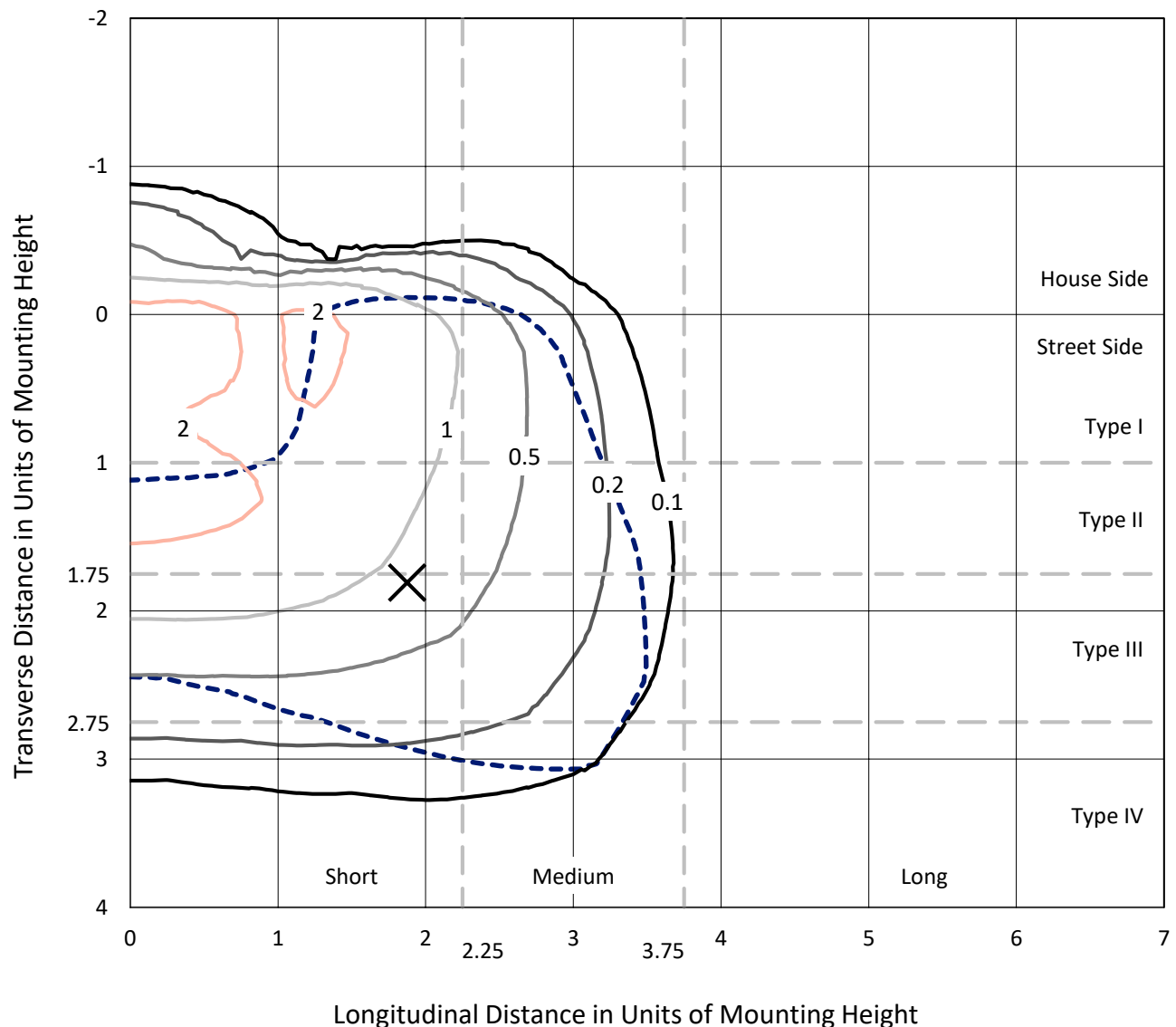
Input Watts (W): 191
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P322817
 CATALOG NUMBER: GAN-SA3D-727-U-T4W-HSS

Iso-Footcandle Lines of Horizontal Illumination

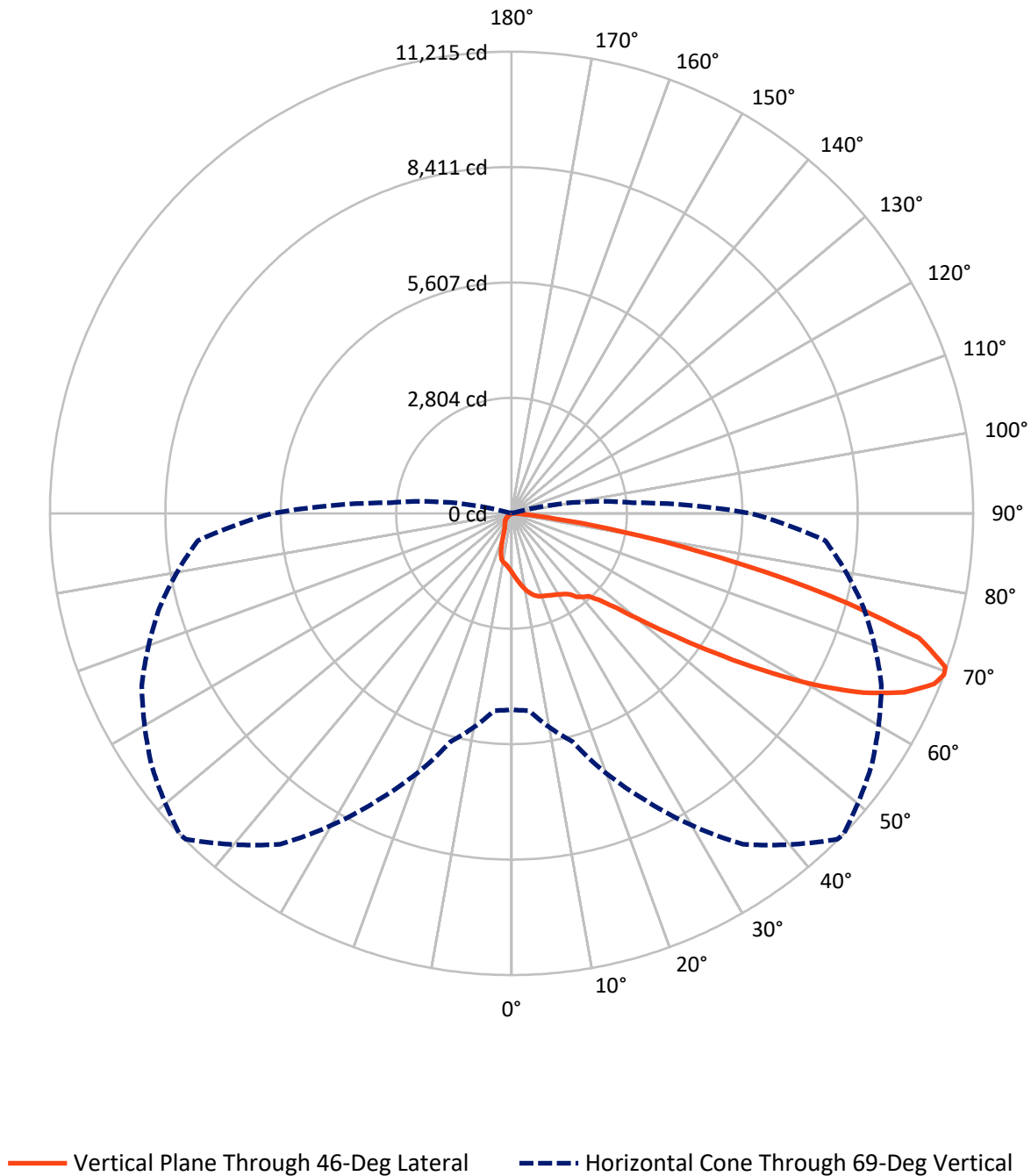
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.3 fc
 Type IV - Short - N/A

REPORT NUMBER: P322817
CATALOG NUMBER: GAN-SA3D-727-U-T4W-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P322817

CATALOG NUMBER: GAN-SA3D-727-U-T4W-HSS

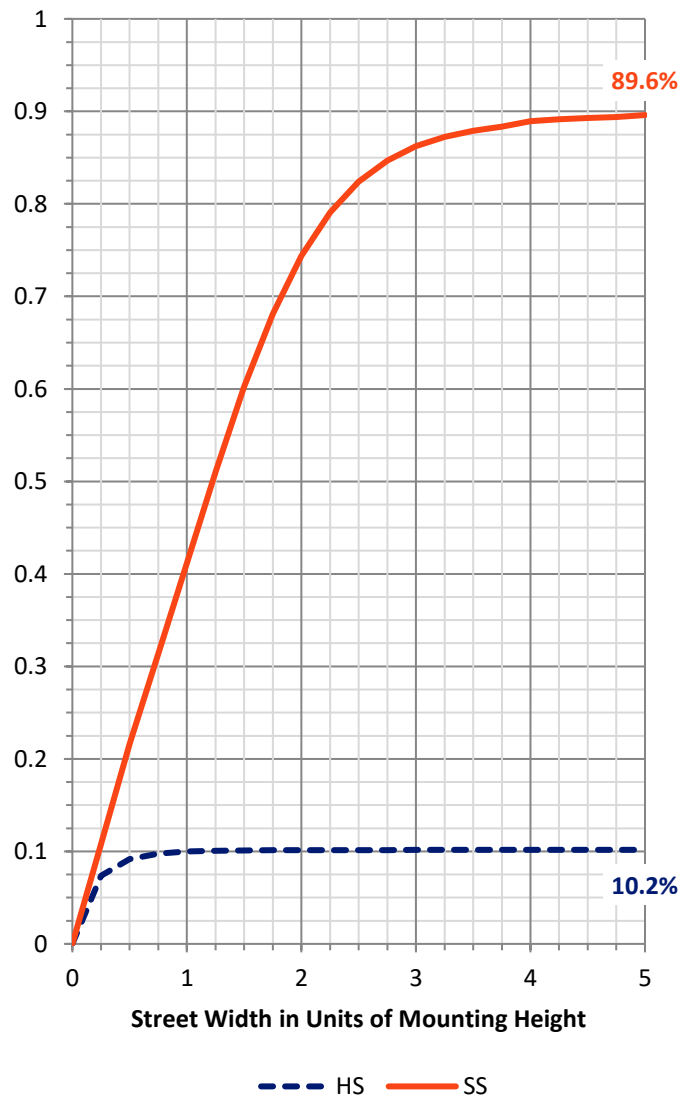
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1473.5	0.0	1473.5
	% Fixture	10.3	0.0	10.3
Street Side	Lumens	12884.5	0.0	12884.5
	% Fixture	89.7	0.0	89.7
Total	Lumens	14358.0	0.0	14358.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	143.2	1.0
10°-20°	434.4	3.0
20°-30°	683.2	4.8
30°-40°	979.7	6.8
40°-50°	1693.3	11.8
50°-60°	3345.2	23.3
60°-70°	4675.2	32.6
70°-80°	2258.6	15.7
80°-90°	145.2	1.0
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°	14358.0	100.0
0°-180°	14358.0	100.0

Coefficient of Utilization



REPORT NUMBER: P322817

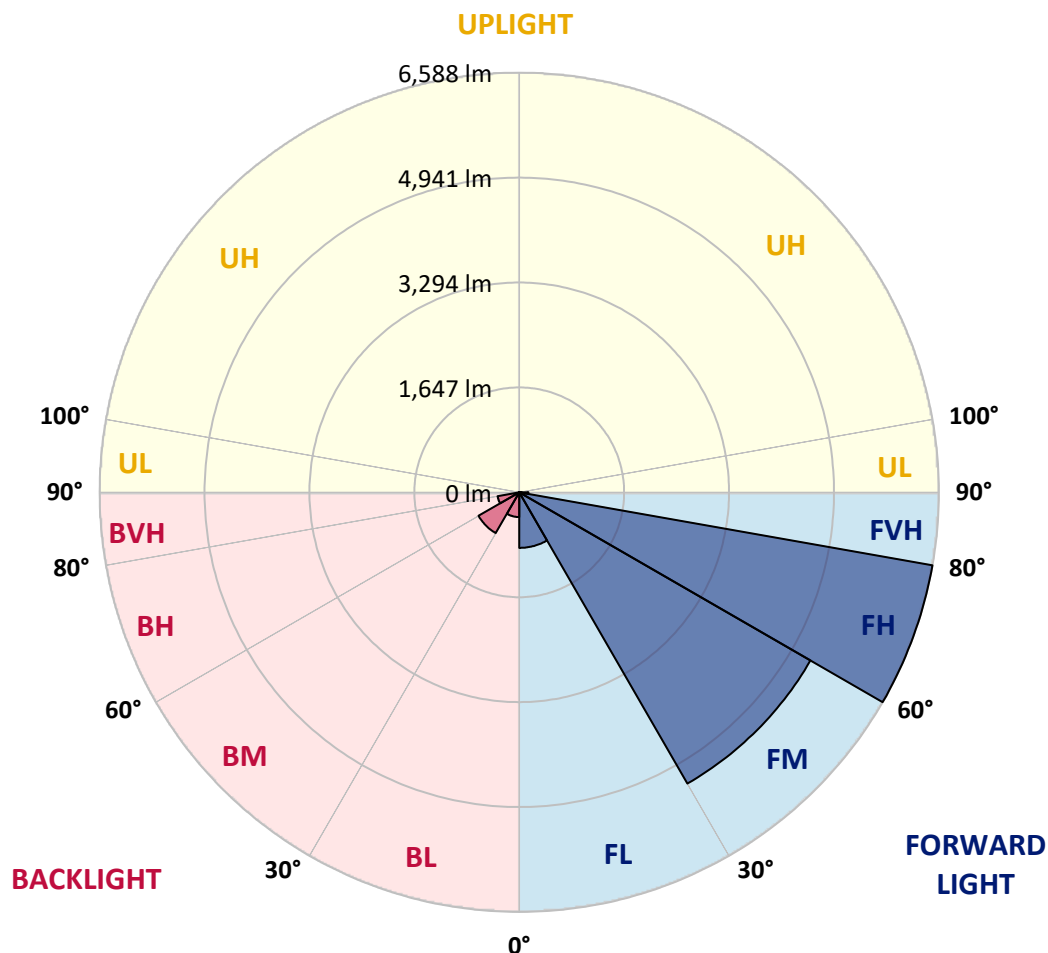
CATALOG NUMBER: GAN-SA3D-727-U-T4W-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	872.4	6.1			
FM	(30°-60°)	5279.8	36.8			
FH	(60°-80°)	6588.4	45.9			G3/7500
FVH	(80°-90°)	144.0	1.0			G2/225
BL	(0°-30°)	388.4	2.7	B1/500		
BM	(30°-60°)	738.4	5.1	B1/1000		
BH	(60°-80°)	345.5	2.4	B1/500		G1/500
BVH	(80°-90°)	1.2	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G3

Type IV Short





REPORT NUMBER: P322817

CATALOG NUMBER: GAN-SA3D-727-U-T4W-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	1438.6	1438.6	1438.6	1438.6	1438.6	1438.6	1438.6	1438.6	1438.6	1438.6	1438.6
2.5°	1598.2	1596.1	1586.7	1582.7	1559.8	1546.3	1540.9	1524.1	1499.9	1475.6	1448.7
5°	1779.9	1779.3	1761.8	1744.9	1701.8	1661.4	1654.0	1615.0	1560.5	1509.3	1458.1
7.5°	1965.7	1957.0	1939.5	1907.2	1844.6	1779.9	1773.9	1718.7	1641.2	1567.2	1493.8
10°	2123.3	2117.9	2095.0	2045.8	1972.5	1899.1	1891.7	1823.7	1736.2	1645.3	1551.7
12.5°	2245.8	2241.7	2211.4	2150.2	2072.1	1996.0	1985.9	1925.3	1831.8	1730.1	1619.7
15°	2320.5	2318.5	2281.5	2216.2	2139.4	2073.4	2064.7	2011.5	1924.7	1818.3	1693.8
17.5°	2338.0	2338.7	2300.3	2234.3	2171.1	2123.9	2117.2	2076.8	2004.1	1898.4	1767.8
20°	2299.0	2307.0	2272.7	2215.5	2176.4	2151.5	2146.1	2121.9	2060.7	1961.0	1827.1
22.5°	2243.8	2247.8	2224.2	2185.9	2169.7	2174.4	2171.7	2158.3	2106.4	2014.9	1885.6
25°	2210.1	2210.1	2196.0	2163.6	2174.4	2203.4	2204.0	2201.3	2160.3	2080.8	1957.0
27.5°	2208.8	2204.7	2188.6	2164.3	2193.9	2238.4	2241.1	2259.2	2233.7	2161.0	2045.8
30°	2262.6	2257.9	2223.6	2191.9	2229.6	2277.4	2284.2	2323.9	2311.1	2247.8	2144.8
32.5°	2388.5	2371.7	2295.6	2243.8	2272.0	2329.3	2338.0	2401.3	2421.5	2354.8	2240.4
35°	2560.8	2507.7	2397.9	2342.0	2344.7	2404.7	2412.7	2505.6	2565.5	2453.1	2314.4
37.5°	2798.5	2772.2	2593.8	2444.4	2456.5	2547.4	2570.9	2671.9	2655.1	2507.0	2398.6
40°	3319.5	3278.5	3088.6	2731.2	2563.5	2663.2	2670.6	2724.4	2725.8	2628.8	2573.6
42.5°	4029.1	4012.2	3812.3	3251.5	2774.2	2740.6	2754.0	2844.9	2946.6	2886.0	2883.3
45°	4814.7	4805.9	4593.9	3942.2	3200.4	2994.4	3011.2	3133.1	3327.6	3341.1	3426.6
47.5°	5446.8	5442.8	5320.9	4713.0	3852.7	3424.5	3429.9	3559.2	3901.2	4070.1	4206.8
50°	6023.1	6042.6	5946.3	5547.1	4741.3	4098.4	4085.6	4171.8	4721.1	4997.8	5167.4
52.5°	6824.2	6851.8	6581.8	6325.3	5673.7	4934.5	4924.4	5014.6	5706.7	5914.0	5944.3
55°	7531.7	7484.6	7271.2	7197.1	6810.7	5967.2	5964.5	6043.9	6659.9	6748.1	6804.0
57.5°	7844.1	7825.9	7928.9	8098.5	8001.6	7187.7	7181.6	7121.1	7512.9	7522.3	7693.9
60°	8041.3	8063.5	8379.3	8902.3	9144.0	8501.1	8462.1	8092.5	8327.4	8306.6	8490.3
62.5°	7893.2	7937.0	8505.1	9376.9	9999.0	9647.6	9592.4	8982.4	9023.5	8951.5	9122.5
65°	7106.9	7174.9	8105.9	9287.4	10423.1	10543.6	10487.7	9768.1	9576.2	9457.7	9362.8
67.5°	5770.6	5811.0	6783.1	8508.5	10231.9	11078.1	11066.7	10456.7	9993.6	9372.2	8635.7
69°	4768.9	4808.6	5744.4	7688.6	9811.1	11192.5	11214.8	10677.5	9914.1	8852.5	7651.5
70°	4039.2	4081.6	4953.4	6985.7	9323.1	11139.4	11179.1	10656.7	9686.6	8250.7	6787.8
72.5°	2118.5	2154.9	3049.6	4812.7	7600.4	10228.5	10349.0	9755.9	8211.0	5992.1	4013.6
75°	665.8	686.7	1190.9	2515.7	5203.8	7953.1	7980.7	7652.9	5830.5	3296.0	1671.5
77.5°	253.8	247.7	396.5	927.0	2630.8	5007.9	5176.9	4782.4	3059.7	1165.3	385.7
80°	136.7	137.3	206.0	383.7	1125.6	2573.6	2716.3	2317.8	1087.2	363.5	88.9
82.5°	59.2	61.9	115.8	203.3	517.0	949.2	1020.6	849.6	415.4	244.4	33.0
85°	12.8	14.1	55.9	110.4	210.7	266.6	279.4	275.3	264.6	189.8	12.8
87.5°	0.0	0.0	24.9	39.7	53.2	60.6	53.2	69.3	146.1	127.9	6.7
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: P322817

CATALOG NUMBER: GAN-SA3D-727-U-T4W-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1438.6	1438.6	1438.6	1438.6	1438.6	1438.6	1438.6	1438.6	1438.6	1438.6	1438.6
2.5°	1440.0	1427.8	1407.0	1384.1	1367.9	1351.1	1337.6	1331.6	1324.8	1320.1	1326.2
5°	1437.3	1413.7	1373.3	1334.3	1306.0	1283.1	1264.3	1256.9	1249.5	1244.1	1243.4
7.5°	1460.8	1427.8	1365.9	1308.7	1264.9	1234.0	1208.4	1197.6	1188.9	1184.8	1181.5
10°	1505.9	1463.5	1380.7	1306.0	1249.5	1196.9	1141.7	1099.3	1071.7	1058.9	1054.2
12.5°	1564.5	1511.3	1409.0	1320.1	1238.0	1137.0	1019.9	918.9	853.6	832.1	819.3
15°	1633.2	1567.2	1446.0	1338.3	1196.3	1011.8	813.2	681.3	620.7	608.6	595.1
17.5°	1699.1	1626.4	1490.5	1341.7	1104.7	808.5	595.8	506.2	482.7	490.8	492.8
20°	1757.0	1685.0	1534.2	1312.1	938.4	606.5	461.1	438.9	447.7	463.2	465.9
22.5°	1815.6	1741.6	1574.6	1234.0	725.7	460.5	415.4	420.7	429.5	445.0	447.7
25°	1887.0	1810.2	1612.3	1090.6	544.6	391.8	394.5	402.6	411.3	425.5	426.8
27.5°	1969.1	1897.1	1637.2	904.1	403.9	360.2	368.9	381.0	389.8	403.2	405.9
30°	2078.2	2011.5	1645.3	710.9	338.6	331.9	335.9	350.7	363.5	375.6	377.7
32.5°	2180.5	2124.6	1618.4	536.5	313.7	305.6	305.6	314.4	329.2	340.6	343.3
35°	2274.7	2238.4	1532.2	392.5	294.9	281.4	274.7	274.7	284.1	293.5	296.2
37.5°	2399.3	2397.9	1392.8	313.0	276.7	261.2	247.1	236.3	232.9	234.9	236.3
40°	2612.7	2614.7	1211.1	280.7	261.2	240.3	218.8	199.3	181.1	175.0	174.4
42.5°	2945.9	2915.6	1020.6	265.2	247.7	218.8	186.5	160.2	131.9	123.2	122.5
45°	3475.0	3295.3	818.6	251.1	233.6	194.6	154.2	118.5	95.6	88.9	88.9
47.5°	4245.8	3794.1	634.1	235.6	214.7	167.0	116.5	85.5	70.0	66.6	67.3
50°	5042.9	4282.9	486.0	216.1	191.9	138.0	86.2	61.9	53.2	53.2	53.9
52.5°	5749.8	4641.0	379.0	195.2	163.6	108.4	65.3	48.5	44.4	43.8	44.4
55°	6411.5	4871.9	290.1	171.0	129.9	80.8	49.8	39.7	37.0	35.7	35.0
57.5°	7049.7	4986.4	217.4	138.0	94.2	58.6	39.7	33.7	31.0	28.9	28.3
60°	7474.5	4893.5	149.4	101.7	65.3	42.4	33.0	28.9	25.6	23.6	22.9
62.5°	7714.1	4639.7	96.3	73.4	46.5	31.6	26.3	24.2	19.5	17.5	17.5
65°	7617.2	4220.9	67.3	52.5	33.7	23.6	19.5	19.5	14.1	11.4	10.8
67.5°	6750.1	3565.9	51.2	39.0	24.2	17.5	14.8	16.8	8.8	5.4	5.4
69°	5807.7	2955.3	43.8	32.3	20.2	14.1	12.8	15.5	6.1	4.0	3.4
70°	5047.6	2549.4	39.7	28.3	16.8	12.1	11.4	14.8	6.1	3.4	2.7
72.5°	3020.0	1421.8	30.3	20.2	10.8	9.4	9.4	16.8	6.1	3.4	2.7
75°	1220.5	500.9	22.2	14.1	8.1	8.1	11.4	21.5	5.4	2.7	2.0
77.5°	276.7	109.7	12.8	8.8	5.4	8.1	13.5	16.8	3.4	1.3	0.0
80°	67.3	26.9	8.1	5.4	3.4	6.1	10.1	9.4	0.7	0.0	0.0
82.5°	22.2	9.4	3.4	2.7	0.7	2.0	4.7	2.7	0.0	0.0	0.0
85°	9.4	5.4	1.3	0.7	0.0	0.0	0.7	0.0	0.0	0.0	0.0
87.5°	6.1	2.0	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

(END OF REPORT)