

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: P324178

Luminaire Tested: **GAN-SA4D-740-U-SLL-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P324178
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-SA4D-740-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR LEFT OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23203 lumens
Efficiency: N/A
Efficacy: 89.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G4

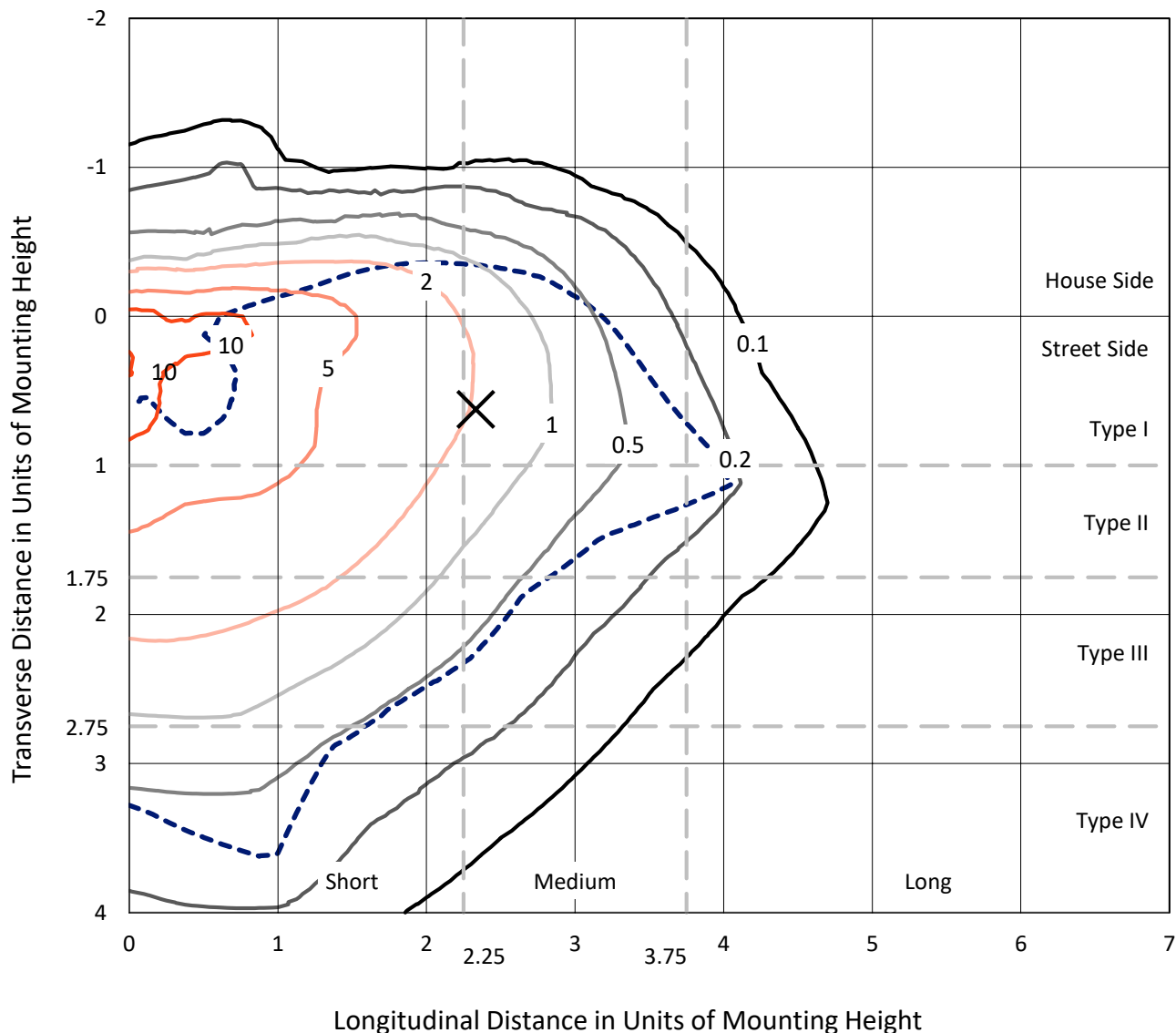
Input Watts (W): 258
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

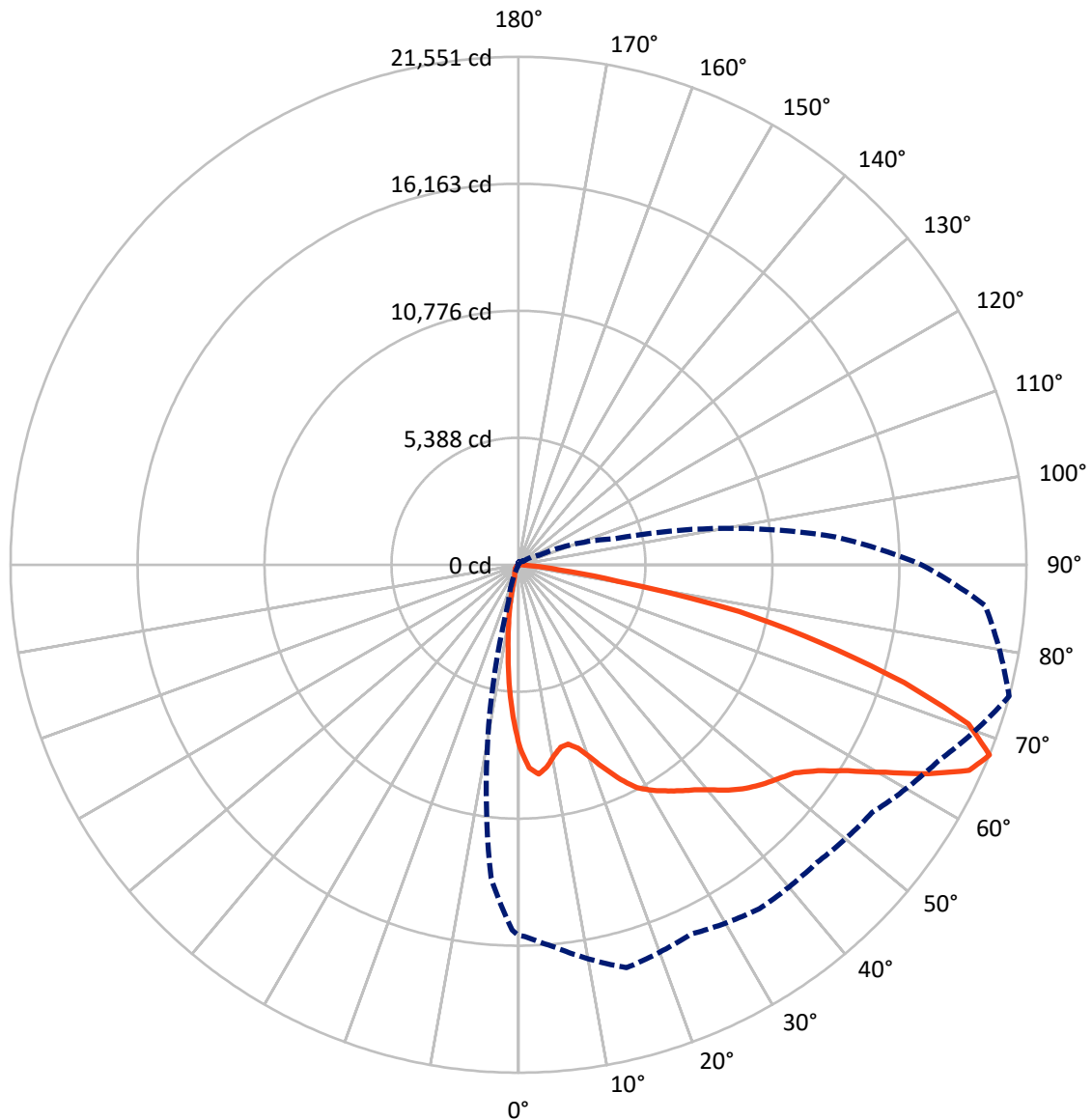
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.1 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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

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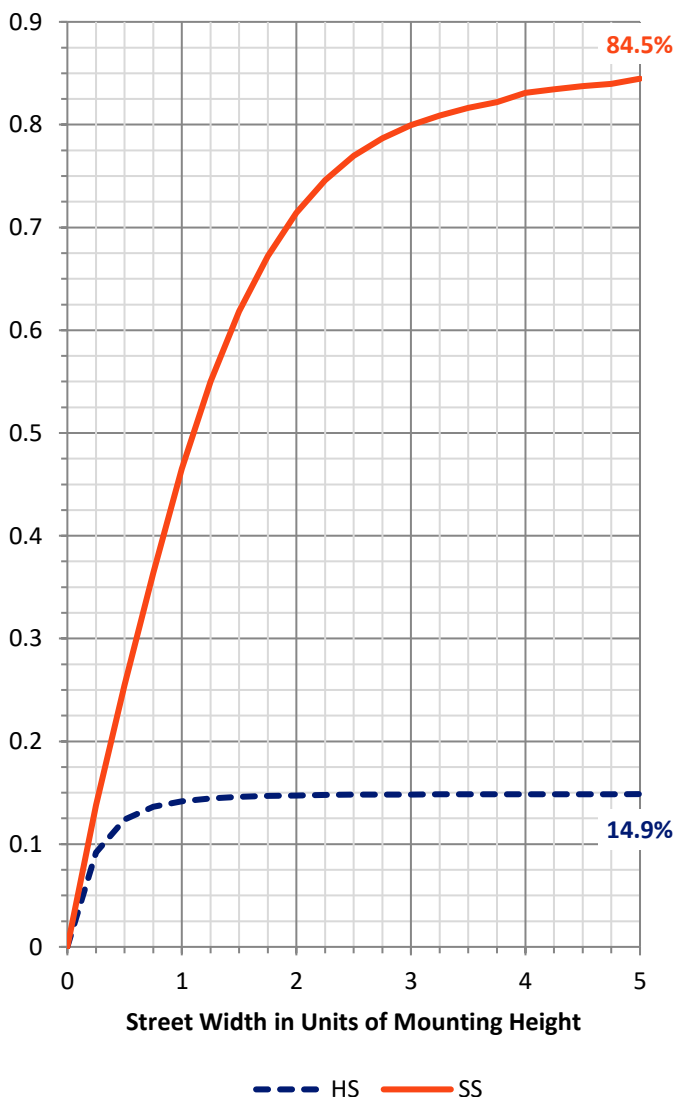
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3481.9	0.0	3481.9
	% Fixture	15.0	0.0	15.0
Street Side	Lumens	19721.2	0.0	19721.2
	% Fixture	85.0	0.0	85.0
Total	Lumens	23203.0	0.0	23203.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	590.5	2.5
10°-20°	1162.6	5.0
20°-30°	1644.8	7.1
30°-40°	2418.3	10.4
40°-50°	3475.9	15.0
50°-60°	4893.2	21.1
60°-70°	5714.8	24.6
70°-80°	2915.5	12.6
80°-90°	387.3	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°	23203.0	100.0
0°-180°	23203.0	100.0

Coefficient of Utilization

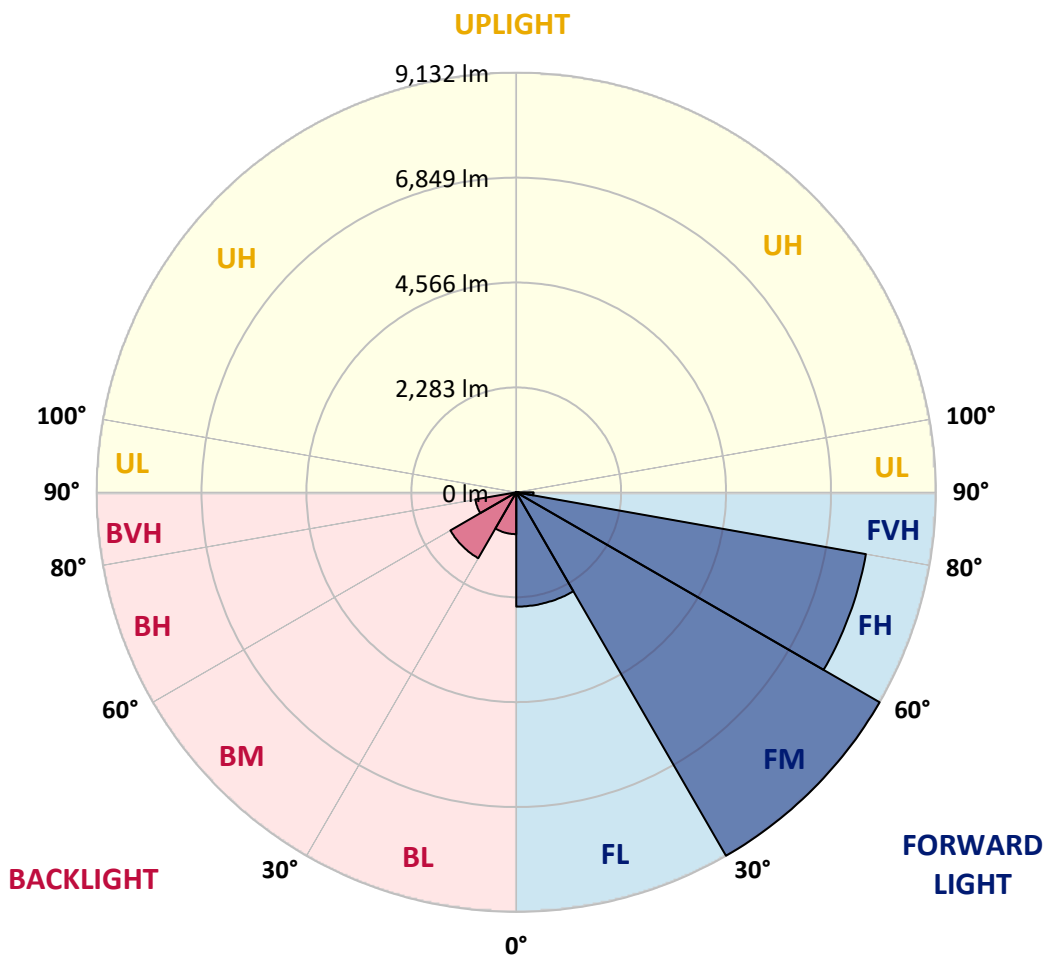


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2487.4	10.7			
FM (30°-60°)	9132.3	39.4			
FH (60°-80°)	7725.9	33.3			G4/12000
FVH (80°-90°)	375.6	1.6			G3/500
BL (0°-30°)	910.5	3.9	B2/1000		
BM (30°-60°)	1655.2	7.1	B2/2500		
BH (60°-80°)	904.4	3.9	B2/1000		G2/1000
BVH (80°-90°)	11.7	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	7784.2	7784.2	7784.2	7784.2	7784.2	7784.2	7784.2	7784.2	7784.2	7784.2	7784.2
2.5°	8438.2	8451.4	8519.5	8677.8	8850.4	8863.6	8980.1	8860.3	8819.6	8626.2	8426.1
5°	8502.0	8552.5	8786.6	9251.6	9655.0	9784.7	9877.0	9641.8	9394.5	8921.8	8417.3
7.5°	7988.7	8073.3	8441.5	9314.2	10035.3	10354.0	10414.5	10046.3	9440.6	8662.4	7904.0
10°	7331.4	7428.1	7872.1	8944.9	9935.3	10481.5	10565.1	10082.5	9212.0	8242.6	7348.9
12.5°	6799.4	6912.6	7366.5	8529.4	9591.2	10195.8	10360.6	9960.5	9014.2	7944.7	6969.7
15°	6554.3	6684.0	7161.0	8261.2	9209.8	9685.7	9822.0	9649.5	8904.2	7897.4	6881.8
17.5°	6694.9	6835.6	7328.1	8284.3	8851.5	9054.8	9164.7	9235.1	8904.2	8182.1	7139.0
20°	7272.0	7423.7	7944.7	8518.4	8554.7	8478.9	8596.5	8843.8	9007.6	8722.9	7756.7
22.5°	8070.0	8248.1	8836.1	8919.6	8409.6	8122.7	8138.1	8526.1	9195.5	9408.8	8614.1
25°	9042.7	9260.4	9858.3	9517.6	8470.1	7910.6	7905.1	8264.5	9379.1	10095.7	9569.2
27.5°	10008.9	10248.5	10773.9	10247.4	8719.6	7872.1	7861.2	8185.4	9558.2	10706.9	10612.3
30°	10819.0	11052.0	11504.8	10776.1	8988.9	7962.3	7909.5	8270.0	9664.9	11103.7	11372.9
32.5°	11478.5	11665.3	12031.3	11139.9	9276.9	8137.0	8022.7	8496.5	9846.2	11438.9	12072.0
35°	12203.9	12400.7	12546.8	11486.2	9600.0	8388.7	8225.0	8855.9	10125.4	11779.6	12838.1
37.5°	13031.6	13227.2	13209.6	11802.7	10010.0	8805.3	8700.9	9425.2	10559.6	12117.1	13693.3
40°	13841.6	14041.7	13898.8	12149.0	10491.4	9492.3	9415.4	10280.4	11141.0	12549.0	14695.7
42.5°	14600.1	14816.6	14511.0	12476.5	11065.2	10358.4	10490.3	11381.7	11868.7	13081.0	15559.6
45°	15211.2	15432.1	15024.3	12795.3	11669.7	11409.2	11806.0	12601.8	12743.6	13530.6	16143.3
47.5°	15655.3	15864.1	15380.5	13114.0	12443.5	12694.1	13385.5	13881.2	13533.9	13920.8	16557.7
50°	15938.8	16101.5	15484.9	13513.0	13459.1	14193.4	15030.9	15272.7	14278.0	14272.5	17061.1
52.5°	16119.1	16192.7	15561.8	13929.6	14518.7	15825.6	16642.3	16718.1	15044.1	14659.4	17739.2
55°	16740.1	16799.5	16107.0	14434.1	15394.8	17255.6	18099.8	18029.4	15911.4	15416.7	18539.4
57.5°	17799.7	17862.4	17233.6	15159.5	16103.7	18139.3	19156.1	19282.5	16928.1	16480.7	19396.8
60°	18331.7	18448.2	18224.0	16078.4	16790.7	18704.3	19876.0	20279.4	18198.7	17883.2	20227.7
62.5°	17849.2	18018.4	18343.8	17097.3	17473.3	19015.4	20100.2	20636.6	19500.1	19517.7	20739.9
65°	16886.3	17021.5	17573.3	17655.7	17868.9	18976.9	19546.3	20137.6	20297.0	21019.1	20712.5
67.5°	15723.4	15774.0	16242.2	17699.7	17295.2	17820.6	17882.1	18319.6	19667.2	21551.1	19880.4
70°	14049.4	14076.9	14485.8	16227.9	14862.8	14978.2	14886.9	14976.0	16908.3	20255.2	17779.9
72.5°	11307.0	11376.2	11957.7	13476.7	10827.8	10494.7	11211.4	11171.8	13021.7	17112.7	13205.2
75°	8325.0	8444.8	9323.0	10855.2	7599.6	6874.1	7397.3	7536.9	9257.1	13237.1	8257.9
77.5°	5828.8	5917.8	6768.6	7979.9	5500.2	4915.4	4726.4	4892.3	6110.2	9575.8	4160.3
80°	3357.9	3390.9	3933.9	4607.7	3706.3	4240.5	3841.5	3955.9	3661.3	4260.3	1789.4
82.5°	2197.2	2202.7	2414.8	2742.4	2308.2	2681.9	1985.1	2537.9	2252.2	1711.4	582.6
85°	1187.1	1193.7	1400.3	1946.6	1306.9	738.6	434.2	891.4	1392.6	392.4	159.4
87.5°	130.8	119.8	422.1	707.9	362.7	67.0	23.1	100.0	223.1	25.3	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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	7784.2	7784.2	7784.2	7784.2	7784.2	7784.2	7784.2	7784.2	7784.2	7784.2	7784.2
2.5°	8323.9	8232.7	8005.1	7764.4	7571.0	7389.6	7207.2	6984.0	6811.5	6776.3	6719.1
5°	8145.8	7856.8	7379.7	6900.5	6514.7	6027.8	5718.9	5478.2	5243.0	5228.7	5181.4
7.5°	7523.7	7143.4	6471.8	5809.0	5266.0	4802.2	4334.0	4020.7	3774.5	3687.7	3636.0
10°	6925.8	6498.2	5659.5	4903.3	4418.6	4008.6	3678.9	3351.3	3054.5	2850.1	2757.8
12.5°	6508.1	6035.5	5111.1	4459.3	4111.9	3722.8	3320.5	2911.7	2569.8	2323.6	2173.0
15°	6346.5	5842.0	4927.5	4283.4	3854.7	3362.3	2847.9	2380.8	2001.6	1778.4	1643.2
17.5°	6538.9	5951.9	4913.2	4069.1	3470.0	2857.8	2289.5	1737.8	1380.5	1211.3	1124.4
20°	7026.9	6301.5	4907.7	3806.4	3012.8	2259.9	1550.9	1143.1	926.6	832.1	791.4
22.5°	7717.2	6747.7	4951.7	3547.0	2536.8	1614.7	1070.6	839.8	728.7	678.2	655.1
25°	8605.3	7374.2	5075.9	3311.8	2089.5	1204.7	834.3	703.5	625.4	585.8	569.4
27.5°	9551.6	8095.3	5269.3	3107.3	1725.7	960.7	714.5	602.3	546.3	518.8	503.4
30°	10332.0	8930.6	5465.0	2879.8	1461.9	837.6	654.0	549.6	484.7	467.1	452.9
32.5°	11014.6	9562.6	5603.5	2674.2	1289.3	744.1	591.3	491.3	447.4	413.3	397.9
35°	11721.4	10089.1	5599.1	2530.3	1170.6	673.8	538.6	439.7	386.9	347.3	335.2
37.5°	12486.4	10683.8	5503.5	2407.1	1118.9	617.7	508.9	412.2	359.4	319.9	304.5
40°	13382.2	11308.1	5405.6	2291.7	1104.6	572.7	488.0	390.2	334.1	295.7	280.3
42.5°	14254.9	11870.9	5319.9	2206.0	1043.1	571.6	469.3	373.7	314.4	277.0	259.4
45°	14952.9	12395.2	5303.4	2154.3	978.2	591.3	459.4	362.7	299.0	261.6	245.1
47.5°	15533.2	12964.5	5408.9	2118.1	916.7	539.7	483.6	355.0	284.7	248.4	229.7
50°	16223.5	13663.6	5657.3	2058.7	851.8	485.8	554.0	357.2	272.6	235.2	215.4
52.5°	17186.4	14630.8	6022.3	1958.7	762.8	436.4	545.2	359.4	259.4	220.9	201.1
55°	18265.7	15838.8	6414.7	1792.7	638.6	371.5	467.1	344.0	234.1	205.5	186.9
57.5°	19400.1	16934.7	6647.7	1594.9	507.8	321.0	373.7	313.3	206.6	184.7	172.6
60°	19578.1	17351.2	6541.1	1352.0	403.4	279.2	277.0	318.8	184.7	162.7	153.9
62.5°	19135.2	16828.0	6025.6	1135.4	337.4	245.1	227.5	278.1	167.1	145.1	136.3
65°	18283.3	15413.4	5190.2	1023.3	313.3	209.9	189.1	195.6	146.2	126.4	118.7
67.5°	17098.4	13525.1	4261.4	959.6	310.0	180.3	161.6	148.4	126.4	109.9	103.3
70°	14675.9	11267.4	3399.7	924.4	301.2	151.7	136.3	120.9	105.5	93.4	87.9
72.5°	10801.4	7984.3	2644.6	885.9	303.4	120.9	118.7	100.0	84.6	72.5	70.3
75°	6241.0	4561.5	1734.5	717.7	289.1	93.4	98.9	70.3	59.4	50.6	50.6
77.5°	3326.0	2782.0	660.6	299.0	105.5	59.4	56.1	41.8	37.4	30.8	29.7
80°	1449.8	1224.5	198.9	83.5	58.3	31.9	20.9	18.7	16.5	13.2	12.1
82.5°	513.3	443.0	64.9	40.7	25.3	0.0	0.0	0.0	0.0	0.0	0.0
85°	116.5	83.5	0.0	9.9	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



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CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	7784.2	7784.2	7784.2	7784.2	7784.2	7784.2	7784.2	7784.2	7784.2	7784.2	7784.2
2.5°	6602.6	6578.4	6435.5	6441.0	6466.3	6502.6	6416.9	6456.4	6563.0	6665.3	6703.7
5°	5105.6	5111.1	5024.2	5078.1	5126.5	5159.4	5020.9	5023.1	5107.8	5223.2	5283.6
7.5°	3597.5	3588.7	3593.1	3721.7	3813.0	3747.0	3798.7	3619.5	3630.5	3712.9	3651.4
10°	2674.2	2553.3	2485.2	2581.9	2681.9	2645.7	2556.6	2498.4	2539.0	2630.3	2623.7
12.5°	2101.6	1927.9	1825.7	1756.4	1838.9	1770.7	1768.5	1718.0	1663.0	1672.9	1819.1
15°	1580.6	1454.2	1333.3	1222.3	1220.1	1197.0	1079.4	947.5	936.5	943.1	1018.9
17.5°	1087.1	1044.2	994.7	899.1	873.8	777.1	662.8	610.0	583.7	595.7	621.0
20°	763.9	747.4	752.9	701.3	665.0	572.7	505.6	484.7	480.3	492.4	504.5
22.5°	633.1	603.4	600.1	577.1	540.8	473.7	437.5	425.4	419.9	430.9	439.7
25°	554.0	524.3	512.2	497.9	459.4	413.3	391.3	380.3	374.8	381.4	386.9
27.5°	488.0	460.5	449.6	439.7	402.3	369.3	351.7	341.8	337.4	339.6	345.1
30°	438.6	414.4	400.1	388.0	356.1	333.0	317.7	307.8	303.4	303.4	308.9
32.5°	386.9	373.7	360.5	345.1	315.5	300.1	284.7	273.7	269.3	270.4	274.8
35°	322.1	317.7	321.0	306.7	281.4	268.2	252.8	240.7	237.4	238.5	242.9
37.5°	285.8	266.0	278.1	270.4	256.1	238.5	218.7	207.7	202.2	205.5	207.7
40°	262.7	238.5	229.7	237.4	235.2	206.6	189.1	178.1	173.7	174.8	177.0
42.5°	242.9	214.3	194.6	193.5	206.6	180.3	161.6	151.7	146.2	146.2	148.4
45°	224.2	193.5	169.3	150.6	173.7	152.8	135.2	126.4	119.8	119.8	120.9
47.5°	209.9	175.9	147.3	123.1	130.8	125.3	111.0	102.2	95.6	95.6	96.7
50°	196.7	158.3	127.5	103.3	97.8	103.3	90.1	80.2	75.8	74.7	76.9
52.5°	182.5	140.7	108.8	87.9	76.9	78.0	70.3	63.8	58.3	58.3	60.5
55°	168.2	126.4	94.5	74.7	63.8	58.3	56.1	51.7	47.3	47.3	49.5
57.5°	153.9	111.0	80.2	61.6	50.6	46.2	46.2	42.9	39.6	39.6	41.8
60°	140.7	95.6	65.9	50.6	39.6	38.5	39.6	36.3	34.1	34.1	36.3
62.5°	125.3	81.3	53.9	41.8	31.9	30.8	34.1	31.9	29.7	29.7	31.9
65°	106.6	69.2	42.9	31.9	24.2	24.2	28.6	26.4	24.2	24.2	26.4
67.5°	90.1	58.3	33.0	23.1	17.6	18.7	24.2	22.0	20.9	20.9	23.1
70°	74.7	45.1	23.1	14.3	9.9	14.3	18.7	18.7	18.7	18.7	20.9
72.5°	56.1	30.8	13.2	5.5	4.4	9.9	15.4	17.6	16.5	16.5	19.8
75°	36.3	17.6	4.4	0.0	0.0	5.5	12.1	14.3	14.3	13.2	16.5
77.5°	20.9	5.5	0.0	0.0	0.0	0.0	7.7	6.6	5.5	4.4	7.7
80°	5.5	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: P324178
 CATALOG NUMBER: GAN-SA4D-740-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	7784.2	7784.2	7784.2	7784.2	7784.2	7784.2	7784.2	7784.2	7784.2	7784.2
2.5°	6858.7	6988.4	7170.9	7364.3	7662.2	7898.5	8130.4	8329.4	8406.3	8438.2
5°	5428.7	5618.9	5886.0	6228.9	6766.4	7250.0	7740.2	8233.8	8448.1	8502.0
7.5°	3895.4	4138.3	4478.0	4907.7	5537.5	6164.1	6848.8	7573.2	7905.1	7988.7
10°	2883.1	3179.9	3569.0	4021.8	4623.0	5267.1	6013.5	6841.1	7220.3	7331.4
12.5°	2045.5	2446.7	2967.7	3518.4	4039.4	4614.2	5369.4	6281.7	6679.6	6799.4
15°	1201.4	1589.4	2206.0	2943.5	3610.7	4193.3	4960.5	5994.8	6433.3	6554.3
17.5°	689.2	882.6	1348.7	2170.8	3076.5	3883.3	4831.9	6066.2	6582.8	6694.9
20°	526.5	588.0	777.1	1398.1	2452.2	3578.8	4831.9	6470.7	7107.1	7272.0
22.5°	460.5	505.6	582.6	834.3	1804.8	3252.4	4887.9	7055.5	7887.5	8070.0
25°	408.9	449.6	515.5	627.6	1231.1	2864.4	5020.9	7773.2	8806.4	9042.7
27.5°	366.0	404.5	463.8	549.6	842.0	2396.2	5200.1	8615.2	9819.8	10008.9
30°	327.5	363.8	417.7	478.1	649.6	1865.3	5352.9	9408.8	10615.6	10819.0
32.5°	291.3	324.3	372.6	417.7	532.0	1379.4	5369.4	10037.5	11276.2	11478.5
35°	257.2	286.9	330.8	366.0	440.8	1089.3	5113.3	10582.7	11936.8	12203.9
37.5°	224.2	252.8	291.3	317.7	388.0	888.1	4722.0	11190.5	12784.3	13031.6
40°	193.5	218.7	258.3	275.9	367.1	682.6	4296.6	11828.0	13615.2	13841.6
42.5°	164.9	189.1	227.5	261.6	322.1	510.0	3837.1	12425.9	14362.6	14600.1
45°	137.4	162.7	201.1	277.0	267.1	381.4	3345.8	12822.7	14952.9	15211.2
47.5°	111.0	139.6	192.4	263.8	213.2	280.3	2956.7	13198.6	15400.2	15655.3
50°	89.0	117.6	216.5	235.2	174.8	214.3	2794.0	13535.0	15693.7	15938.8
52.5°	72.5	98.9	204.4	180.3	146.2	177.0	2882.0	14080.2	15965.2	16119.1
55°	60.5	78.0	123.1	125.3	124.2	150.6	2990.8	14862.8	16667.6	16740.1
57.5°	52.8	62.7	85.7	96.7	104.4	134.1	2993.0	15986.1	17754.6	17799.7
60°	45.1	55.0	71.4	78.0	90.1	119.8	2884.2	16378.5	18182.2	18331.7
62.5°	39.6	48.4	59.4	64.9	75.8	107.7	2629.2	15810.2	17595.3	17849.2
65°	35.2	44.0	49.5	55.0	67.0	96.7	2209.3	14673.7	16621.4	16886.3
67.5°	30.8	38.5	44.0	49.5	60.5	85.7	1626.7	13353.6	15503.6	15723.4
70°	27.5	34.1	39.6	44.0	52.8	72.5	987.0	11331.2	13958.2	14049.4
72.5°	26.4	30.8	36.3	39.6	46.2	63.8	500.1	8327.2	11158.6	11307.0
75°	23.1	27.5	33.0	35.2	40.7	55.0	203.3	5469.4	8086.5	8325.0
77.5°	18.7	25.3	29.7	31.9	35.2	45.1	103.3	3495.3	5674.9	5828.8
80°	6.6	18.7	25.3	26.4	29.7	33.0	68.1	1913.6	3292.0	3357.9
82.5°	0.0	12.1	19.8	18.7	20.9	25.3	44.0	910.1	2173.0	2197.2
85°	0.0	5.5	15.4	12.1	8.8	17.6	15.4	198.9	1139.8	1187.1
87.5°	0.0	0.0	1.1	5.5	4.4	6.6	2.2	1.1	103.3	130.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)