

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: P324429

Luminaire Tested: **GAN-SA5A-730-U-SLR-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P324429
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-28)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA5A-730-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15724 lumens
Efficiency: N/A
Efficacy: 97.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B2 - U0 - G3

Input Watts (W): 162
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

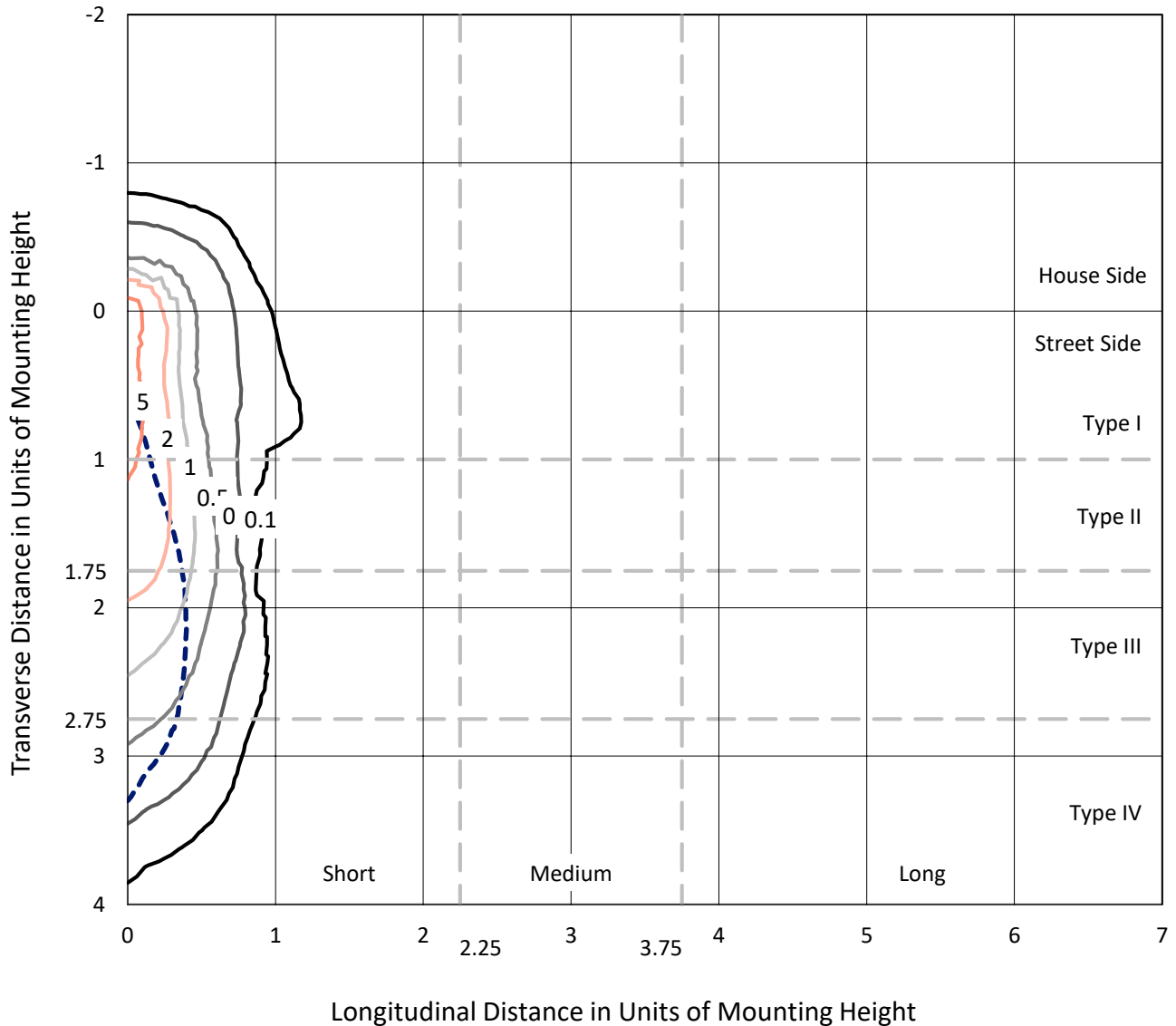




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Iso-Footcandle Lines of Horizontal Illumination

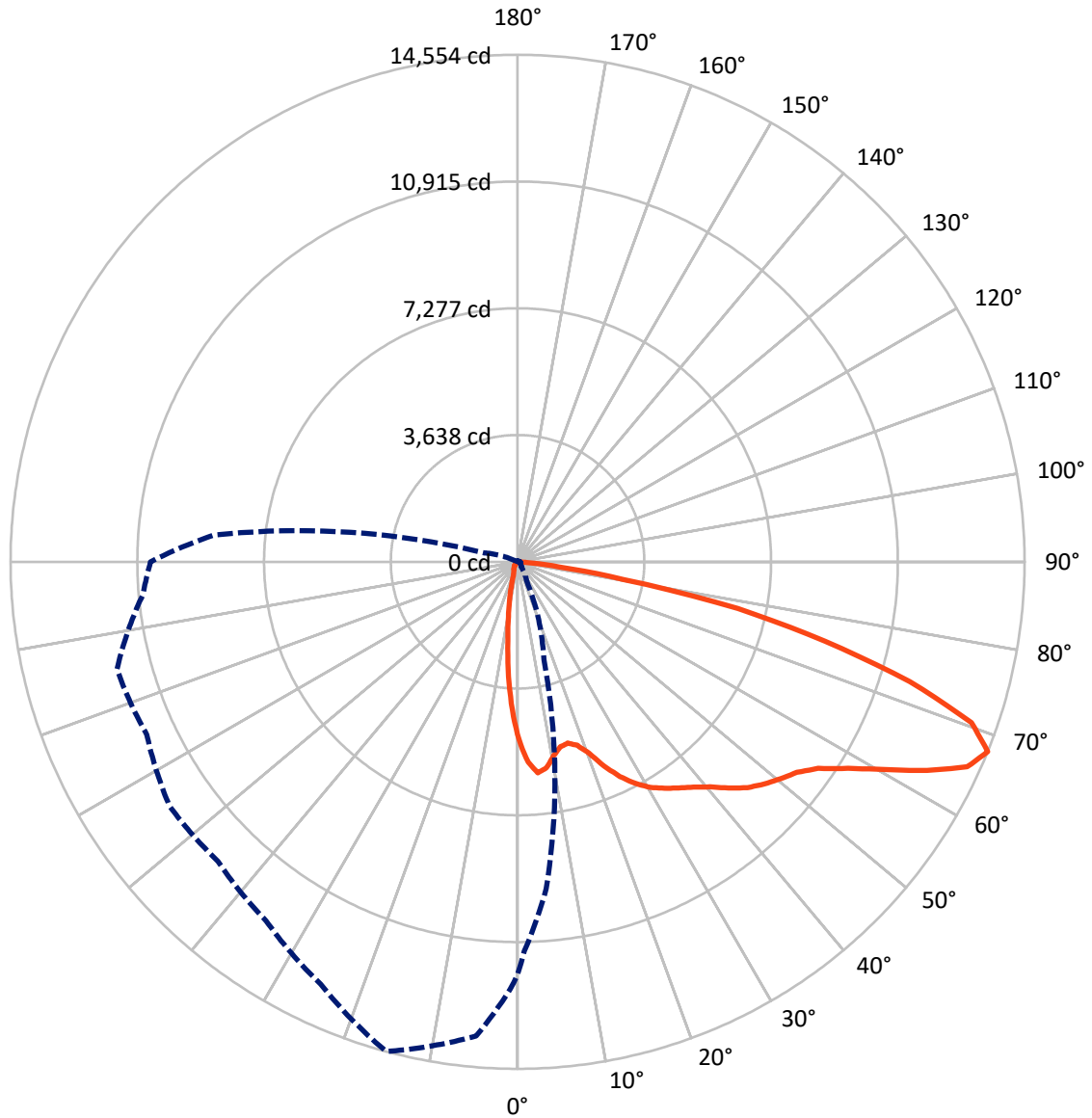
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.2 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 345-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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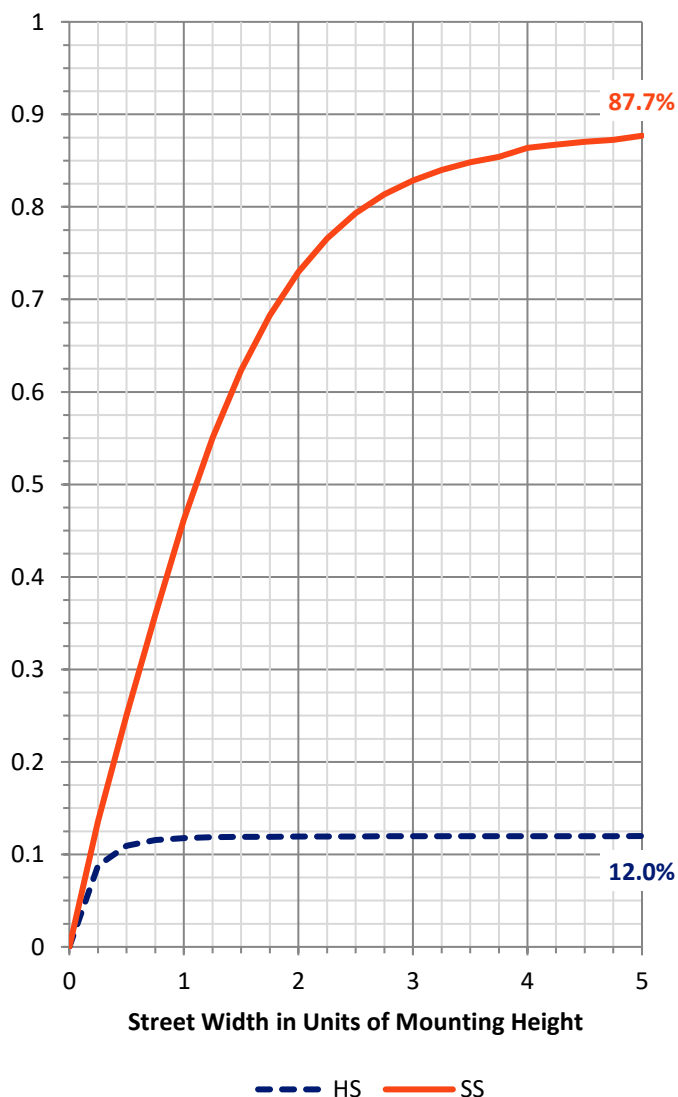
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1903.1	0.0	1903.1
	% Fixture	12.1	0.0	12.1
Street Side	Lumens	13820.9	0.0	13820.9
	% Fixture	87.9	0.0	87.9
Total	Lumens	15724.0	0.0	15724.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	393.1	2.5
10°-20°	782.5	5.0
20°-30°	1111.1	7.1
30°-40°	1641.2	10.4
40°-50°	2367.0	15.1
50°-60°	3322.7	21.1
60°-70°	3873.3	24.6
70°-80°	1980.1	12.6
80°-90°	252.9	1.6
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°	15724.0	100.0
0°-180°	15724.0	100.0

Coefficient of Utilization



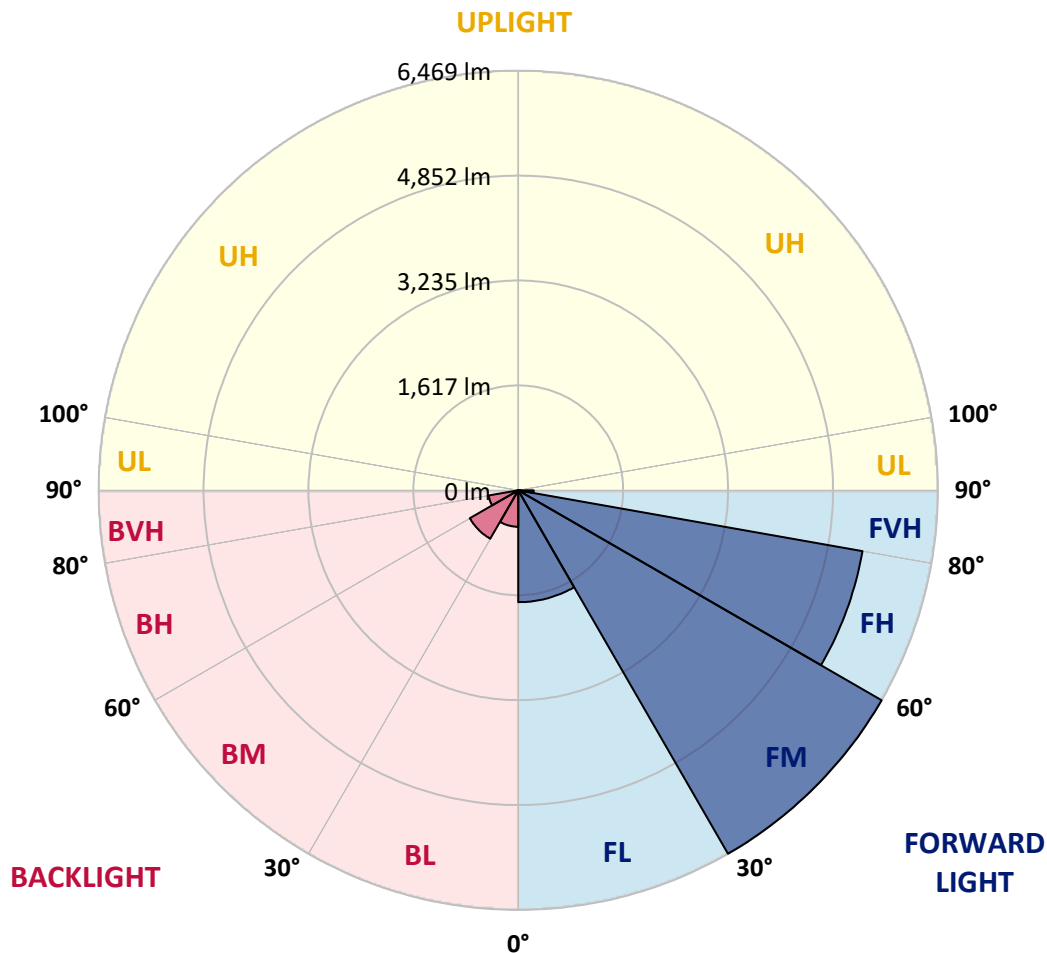
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1724.6	11.0			
FM (30°-60°)	6469.1	41.1			
FH (60°-80°)	5389.6	34.3			G3/7500
FVH (80°-90°)	237.5	1.5			G3/500
BL (0°-30°)	562.1	3.6	B2/1000		
BM (30°-60°)	861.8	5.5	B1/1000		
BH (60°-80°)	463.8	2.9	B1/500		G1/500
BVH (80°-90°)	15.4	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-G3

Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	5122.1	5122.1	5122.1	5122.1	5122.1	5122.1	5122.1	5122.1	5122.1	5122.1	5122.1
2.5°	5608.5	5565.3	5517.6	5361.9	5217.4	5052.0	4917.2	4823.4	4705.7	4552.9	4514.2
5°	5568.3	5522.1	5372.4	5026.0	4722.8	4427.8	4143.2	3976.4	3769.3	3559.2	3507.1
7.5°	5163.8	5115.4	4899.3	4424.8	4016.6	3590.5	3221.0	2992.3	2758.4	2566.2	2464.2
10°	4742.9	4690.0	4447.2	3871.3	3368.5	2983.4	2712.3	2494.0	2272.7	2067.2	1903.3
12.5°	4453.1	4383.8	4120.1	3467.6	3029.6	2768.1	2514.8	2253.4	1953.9	1733.4	1553.2
15°	4331.7	4252.7	3974.1	3311.9	2909.7	2602.7	2272.7	1951.7	1600.8	1348.3	1182.9
17.5°	4425.6	4322.8	4024.1	3301.5	2759.2	2341.3	1924.1	1547.2	1166.5	911.0	793.3
20°	4744.4	4609.6	4230.4	3298.5	2576.7	2030.6	1501.8	1075.7	768.8	618.3	556.5
22.5°	5246.5	5068.4	4526.9	3322.3	2388.2	1704.4	1084.6	730.8	577.3	499.1	462.6
25°	5852.8	5646.5	4953.7	3406.5	2222.8	1387.0	788.1	577.3	487.2	429.8	399.3
27.5°	6429.4	6261.8	5493.0	3527.9	2094.7	1130.8	639.9	489.4	416.4	378.4	353.8
30°	7005.2	6794.4	6046.5	3672.5	1940.5	957.2	562.4	446.2	373.2	333.0	317.3
32.5°	7423.9	7248.8	6480.1	3776.7	1775.9	844.0	502.8	408.2	348.6	307.7	284.6
35°	7916.3	7718.1	6851.8	3799.8	1670.1	772.5	452.2	367.2	302.4	265.9	241.4
37.5°	8448.1	8201.6	7280.8	3749.2	1587.4	737.5	414.2	348.6	282.3	245.1	219.0
40°	9036.6	8758.0	7692.8	3676.2	1506.2	725.6	385.1	334.5	266.7	228.7	201.9
42.5°	9656.4	9327.9	8049.6	3599.4	1454.8	684.6	382.1	320.3	254.8	213.8	187.0
45°	10177.1	9844.1	8416.1	3574.1	1418.3	639.9	394.8	310.6	246.6	201.9	175.8
47.5°	10592.0	10276.9	8791.5	3630.7	1397.5	598.9	359.8	323.3	242.1	191.4	166.1
50°	11087.4	10730.6	9320.4	3799.8	1366.9	557.9	325.5	370.2	242.1	184.7	157.9
52.5°	11708.6	11355.5	9910.4	4062.0	1305.8	501.3	292.8	371.0	244.3	175.8	147.5
55°	12490.1	12233.8	10752.9	4349.6	1208.3	417.9	253.3	318.8	235.4	159.4	137.8
57.5°	13239.4	13030.1	11520.9	4546.2	1077.9	326.3	220.5	257.0	215.3	140.0	122.9
59°	13444.3	13215.6	11802.5	4555.2	980.3	284.6	204.1	212.3	210.8	131.1	114.0
60°	13444.3	13201.5	11883.7	4507.5	909.5	261.5	193.7	189.2	219.8	125.1	108.8
62.5°	13200.7	12859.5	11620.0	4185.0	741.9	222.7	169.1	156.4	197.4	112.5	96.1
65°	12694.2	12197.3	10721.6	3601.7	661.5	204.1	146.0	128.1	137.1	99.1	84.2
67.5°	11849.4	11176.0	9426.2	2909.7	629.5	198.9	125.9	108.8	103.5	84.9	73.7
70°	10361.8	9614.7	7853.7	2287.6	601.9	196.7	105.8	91.6	83.4	71.5	62.6
72.5°	7541.6	6762.4	5575.7	1788.6	585.5	201.1	84.9	76.7	68.5	55.9	48.4
75°	4313.8	3803.6	3133.9	1181.4	499.1	192.2	65.6	64.1	49.2	40.2	33.5
77.5°	2228.8	2161.0	1877.9	453.7	239.1	84.2	43.2	37.2	29.1	24.6	20.1
80°	961.7	951.3	823.1	131.1	63.3	46.9	24.6	15.6	13.4	10.4	8.2
82.5°	332.2	332.2	292.8	44.0	28.3	23.1	3.0	0.0	0.0	0.0	0.0
85°	67.0	75.2	52.9	0.0	9.7	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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5122.1	5122.1	5122.1	5122.1	5122.1	5122.1	5122.1	5122.1	5122.1	5122.1	5122.1
2.5°	4467.3	4377.1	4371.2	4314.6	4243.8	4211.8	4193.1	4225.9	4266.2	4270.6	4331.0
5°	3467.6	3373.0	3412.5	3311.9	3332.0	3311.9	3279.1	3285.1	3303.0	3247.1	3316.4
7.5°	2435.1	2363.6	2409.1	2382.3	2418.0	2432.2	2412.0	2382.3	2294.4	2283.9	2344.3
10°	1835.5	1754.3	1705.9	1655.2	1666.4	1689.5	1682.0	1660.4	1604.6	1607.5	1665.6
12.5°	1474.9	1384.1	1288.0	1163.6	1133.0	1150.2	1133.0	1120.4	1066.7	1071.2	1122.6
15°	1118.9	1044.4	943.8	844.0	789.6	794.8	747.2	713.6	680.1	639.9	671.2
17.5°	755.3	709.9	680.1	650.3	585.5	570.6	510.3	445.5	420.1	401.5	414.9
20°	534.9	510.3	498.4	496.9	459.6	441.0	382.1	341.9	329.3	325.5	333.7
22.5°	447.0	429.1	411.9	402.3	383.6	362.0	317.3	297.2	288.3	283.8	289.8
25°	388.8	375.4	357.6	341.2	333.7	310.6	278.6	263.7	257.7	253.3	256.3
27.5°	345.6	333.7	312.9	302.4	296.5	276.4	248.8	236.9	231.7	230.2	229.4
30°	311.4	300.2	280.8	268.9	258.5	240.6	224.2	212.3	207.1	205.6	204.1
32.5°	277.1	268.2	255.5	243.6	232.4	216.0	201.9	192.2	184.0	182.5	181.8
35°	233.9	225.0	218.3	217.5	207.1	191.4	181.0	168.4	161.6	159.4	160.2
37.5°	207.8	195.9	181.0	186.2	183.3	172.1	157.9	145.3	138.6	137.1	137.1
40°	191.4	178.8	161.6	152.7	161.6	159.4	137.1	124.4	117.7	117.0	115.5
42.5°	175.8	163.1	143.8	128.9	133.3	140.0	118.4	106.5	99.8	98.3	96.1
45°	164.6	151.2	129.6	112.5	103.5	117.7	101.3	86.4	82.7	79.7	78.2
47.5°	154.2	141.5	117.0	97.6	82.7	84.9	81.2	70.8	66.3	63.3	62.6
50°	145.3	131.9	105.8	83.4	68.5	62.6	65.6	55.9	52.1	49.2	47.7
52.5°	134.8	122.2	93.9	72.3	57.4	49.2	49.9	44.0	40.2	38.0	37.2
55°	126.6	114.0	84.2	63.3	50.7	40.2	35.8	34.3	32.0	30.5	29.8
57.5°	115.5	103.5	74.5	53.6	43.2	32.8	27.6	27.6	26.8	25.3	24.6
59°	108.8	98.3	68.5	48.4	39.5	28.3	24.6	25.3	24.6	23.1	22.3
60°	103.5	93.9	64.1	44.7	37.2	26.1	22.3	23.8	23.1	21.6	20.9
62.5°	91.6	84.9	55.1	37.2	32.8	20.9	18.6	20.1	20.1	19.4	18.6
65°	80.5	73.0	46.9	31.3	30.5	17.9	14.9	17.9	18.6	17.1	15.6
67.5°	70.0	62.6	41.0	25.3	28.3	14.2	11.2	14.9	20.1	15.6	14.2
70°	59.6	52.1	32.0	20.1	29.8	9.7	8.9	13.4	23.8	17.1	13.4
72.5°	46.2	40.2	22.3	14.9	32.0	6.7	6.7	11.2	26.8	18.6	12.7
75°	32.0	26.1	13.4	8.9	26.1	4.5	4.5	10.4	25.3	17.1	11.9
77.5°	18.6	14.2	4.5	0.7	13.4	0.0	0.7	7.4	17.9	10.4	5.2
80°	6.7	3.0	0.0	0.0	8.2	0.0	0.0	0.0	1.5	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



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CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	5122.1	5122.1	5122.1	5122.1	5122.1	5122.1	5122.1	5122.1	5122.1	5122.1	5122.1
2.5°	4346.6	4447.2	4537.3	4673.6	4835.3	5021.5	5181.7	5353.7	5515.4	5582.4	5628.6
5°	3330.5	3454.9	3600.2	3800.6	4067.3	4395.8	4703.4	5051.3	5425.2	5612.2	5788.0
7.5°	2354.7	2481.3	2661.6	2874.6	3197.2	3588.3	3990.5	4471.0	4977.5	5273.3	5564.5
10°	1693.2	1848.9	2017.2	2308.5	2636.3	3007.2	3421.4	3957.8	4522.4	4850.2	5201.0
12.5°	1152.4	1329.7	1584.4	1910.7	2295.8	2659.4	3019.2	3530.9	4186.4	4511.2	4887.4
15°	691.3	789.6	1059.3	1436.9	1909.2	2362.1	2756.2	3269.5	3968.2	4366.0	4757.1
17.5°	426.1	471.5	618.3	928.2	1424.3	1997.1	2537.2	3180.8	3999.5	4483.7	4902.3
20°	339.7	357.6	404.5	548.3	943.8	1594.9	2290.6	3162.9	4255.0	4850.9	5300.1
22.5°	295.0	312.1	343.4	398.5	593.7	1194.1	2056.7	3179.3	4621.5	5401.4	5925.8
25°	260.0	274.9	304.7	350.1	435.0	841.0	1806.4	3252.3	5099.0	6084.5	6641.7
27.5°	232.4	245.1	272.6	314.4	373.2	587.0	1522.6	3341.0	5665.1	6783.2	7333.0
30°	207.1	218.3	242.8	281.6	324.0	451.4	1211.2	3401.3	6232.0	7333.0	7826.9
32.5°	185.5	193.7	216.0	248.8	281.6	359.8	920.7	3391.6	6652.9	7790.4	8182.2
35°	163.1	171.3	190.7	219.0	245.1	297.2	724.1	3210.6	7019.4	8264.9	8588.9
37.5°	138.6	149.0	167.6	192.9	210.8	261.5	585.5	2992.3	7391.1	8807.2	9042.6
40°	117.7	128.1	144.5	172.1	183.3	248.1	449.9	2726.4	7809.0	9413.5	9540.2
42.5°	97.6	107.3	124.4	148.2	172.8	213.8	333.0	2422.5	8210.5	9932.0	9993.8
45°	79.0	88.6	106.5	130.4	184.7	177.3	257.7	2096.9	8534.5	10363.3	10383.4
47.5°	62.6	71.5	90.1	122.9	172.1	141.5	184.0	1841.4	8806.4	10700.0	10647.1
50°	48.4	55.9	75.2	140.8	150.5	117.0	139.3	1756.5	9050.0	10908.6	10771.5
52.5°	38.0	44.7	61.8	131.9	117.0	96.8	117.0	1836.2	9383.7	11081.4	10841.6
55°	30.5	37.2	48.4	75.2	79.7	81.9	99.8	1910.7	9959.6	11486.7	11255.0
57.5°	25.3	32.0	39.5	52.9	60.3	69.3	88.6	1918.9	10638.2	12160.1	11941.1
59°	23.1	29.1	35.8	46.9	52.9	63.3	83.4	1874.2	10877.3	12405.1	12295.6
60°	21.6	27.6	33.5	43.2	49.2	59.6	80.5	1831.8	10887.7	12396.2	12446.9
62.5°	18.6	24.6	29.8	36.5	41.7	50.7	72.3	1674.6	10446.7	11990.2	12356.0
65°	16.4	21.6	26.8	31.3	35.8	45.4	65.6	1387.8	9693.6	11335.4	11734.0
67.5°	14.9	18.6	24.6	27.6	32.0	40.2	58.1	989.3	8752.8	10534.6	10793.1
70°	13.4	17.9	22.3	25.3	29.1	35.0	49.9	568.4	7391.1	9362.1	9546.1
72.5°	12.7	17.1	20.1	23.8	26.1	31.3	45.4	267.4	5411.8	7499.8	7980.3
75°	11.2	15.6	18.6	22.3	24.6	28.3	38.7	128.1	3599.4	5427.5	5973.5
77.5°	6.7	12.7	17.1	20.1	21.6	24.6	32.0	73.7	2297.3	3756.6	4424.8
80°	0.0	4.5	12.7	17.1	18.6	20.9	24.6	58.1	1229.1	2146.1	2575.9
82.5°	0.0	0.0	8.9	13.4	12.7	14.2	18.6	36.5	554.2	1402.7	1580.7
85°	0.0	0.0	3.0	10.4	8.9	6.7	12.7	12.7	121.4	709.9	885.7
87.5°	0.0	0.0	0.0	0.7	4.5	3.0	5.2	1.5	0.7	52.9	214.5
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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CATALOG NUMBER: GAN-SA5A-730-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	5122.1	5122.1	5122.1	5122.1	5122.1	5122.1	5122.1	5122.1	5122.1	5122.1
2.5°	5790.3	5845.4	5938.5	5982.4	5960.8	5869.2	5759.7	5648.0	5582.4	5608.5
5°	6146.3	6430.1	6594.0	6648.4	6557.5	6351.9	6083.0	5728.4	5602.5	5568.3
7.5°	6146.3	6680.4	7018.6	7078.2	6875.6	6472.6	5968.3	5414.8	5230.8	5163.8
10°	5930.3	6657.3	7128.9	7223.5	6940.4	6337.8	5662.1	5030.4	4812.2	4742.9
12.5°	5686.7	6469.6	6966.5	7096.8	6864.4	6203.7	5449.8	4770.5	4513.5	4453.1
15°	5537.0	6238.7	6649.9	6744.5	6646.2	6125.5	5399.2	4692.2	4389.8	4331.7
17.5°	5590.6	6059.9	6208.2	6263.3	6329.6	6097.9	5537.0	4863.6	4480.7	4425.6
20°	5792.5	5871.5	5794.7	5864.0	6042.8	6124.7	5865.5	5277.8	4818.1	4744.4
22.5°	6135.2	5773.9	5558.6	5586.1	5803.7	6213.4	6367.6	5869.2	5338.8	5246.5
25°	6534.4	5852.8	5427.5	5402.9	5626.4	6330.3	6826.4	6512.8	5954.9	5852.8
27.5°	7036.5	6030.1	5400.7	5376.1	5564.5	6439.8	7207.8	7149.0	6603.7	6429.4
30°	7423.9	6204.4	5480.4	5423.8	5626.4	6515.8	7514.0	7689.1	7120.7	7005.2
32.5°	7701.7	6410.0	5610.0	5528.0	5800.7	6646.9	7750.1	8183.7	7598.9	7423.9
35°	7913.3	6633.5	5819.3	5684.5	6040.5	6845.8	7971.4	8710.3	8107.7	7916.3
37.5°	8111.4	6947.1	6146.3	5985.4	6416.7	7166.1	8205.3	9307.8	8676.8	8448.1
40°	8387.8	7302.4	6650.6	6507.6	7049.2	7602.6	8497.3	9930.5	9324.2	9036.6
42.5°	8664.2	7683.8	7166.9	7205.6	7838.0	8133.0	8874.2	10589.0	9963.3	9656.4
45°	8916.7	8077.2	7902.1	8080.9	8570.3	8714.8	9248.9	10969.7	10473.6	10177.1
47.5°	9141.6	8568.8	8632.9	9108.9	9403.1	9241.5	9529.0	11298.2	10853.5	10592.0
50°	9403.1	9205.0	9596.0	10269.5	10361.8	9718.2	9783.8	11687.0	11297.4	11087.4
52.5°	9689.2	9875.4	10662.8	11256.5	11226.7	10235.9	10040.0	12122.8	11906.0	11708.6
55°	10013.9	10416.9	11602.1	12180.2	12154.8	10814.0	10464.6	12661.4	12668.8	12490.1
57.5°	10495.9	10883.3	12239.8	12927.3	12969.8	11481.4	11184.2	13264.8	13358.6	13239.4
59°	10841.6	11185.7	12492.3	13239.4	13412.3	11997.7	11710.1	13614.9	13553.1	13444.3
60°	11097.8	11377.9	12617.4	13402.6	13669.3	12347.8	12098.2	13820.5	13576.2	13444.3
62.5°	11731.7	11796.5	12843.2	13587.3	13965.0	13125.5	13190.3	14170.6	13416.0	13200.7
65°	12027.5	12061.0	12840.2	13256.6	13678.9	13731.1	14181.0	14181.0	13024.9	12694.2
67.5°	11903.8	11742.2	12203.3	12160.1	12581.7	13371.3	14553.5	13661.1	12277.0	11849.4
70°	10898.2	10276.2	10071.3	10089.9	10412.5	11630.4	13816.0	12131.0	10861.7	10361.8
72.5°	9067.9	7575.8	7070.0	7647.3	7731.5	8938.3	11774.2	9135.7	8010.1	7541.6
75°	7293.5	5340.3	4517.9	5127.3	5270.3	6541.1	9108.1	5689.7	4678.8	4313.8
77.5°	5239.8	3833.4	3241.9	3199.4	3384.2	4148.5	6462.9	2863.5	2388.2	2228.8
80°	2976.7	2523.0	2716.7	2563.3	2656.4	2593.8	3070.6	1255.9	1028.7	961.7
82.5°	1796.7	1491.3	1615.0	1344.6	1701.4	1481.6	1182.9	402.3	349.4	332.2
85°	1168.8	814.9	424.6	284.6	586.3	946.8	264.4	109.5	84.2	67.0
87.5°	403.0	207.8	20.9	8.9	62.6	176.5	9.7	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

(END OF REPORT)