

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: P324139

Luminaire Tested: **GAN-SA5D-730-U-SLL-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P324139  
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-SA5D-730-U-SLL-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 70 CRI, 3000K, 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: 26182 lumens  
Efficiency: N/A  
Efficacy: 81.8 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B3 - U0 - G4

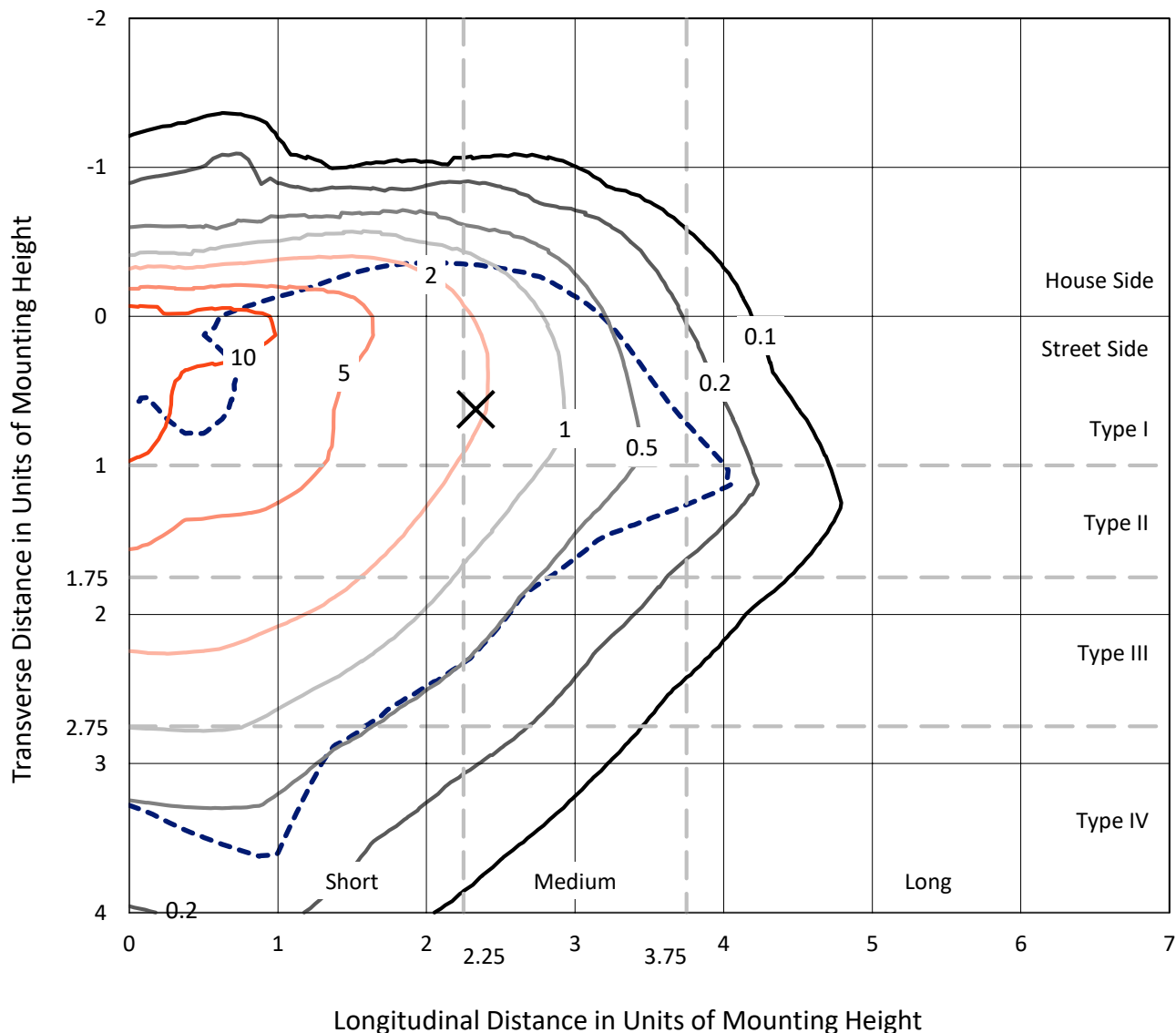
Input Watts (W): 320  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

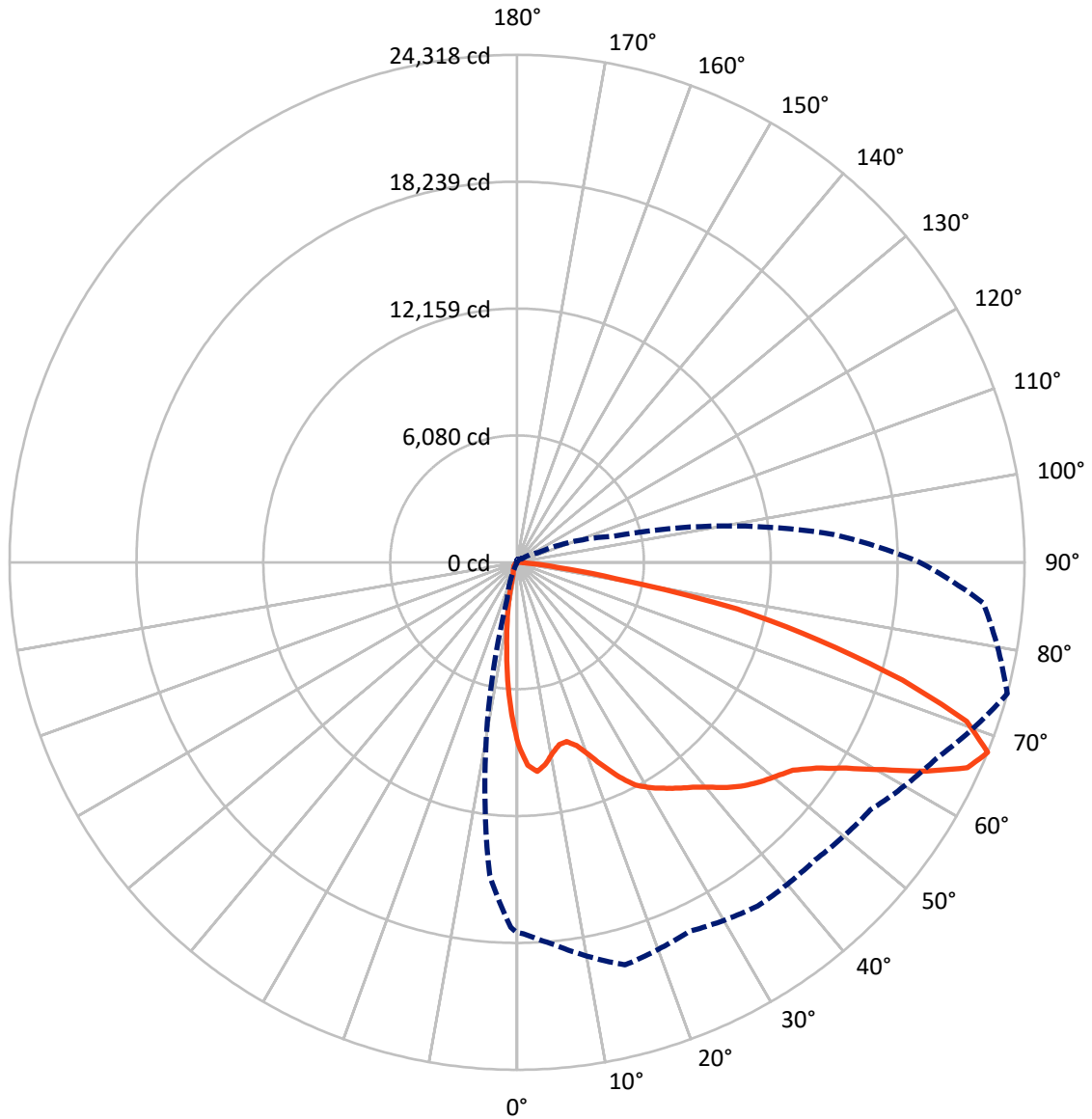
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18.2 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
<b>House Side</b>	Lumens	3928.9	0.0	3928.9
	% Fixture	15.0	0.0	15.0
<b>Street Side</b>	Lumens	22253.1	0.0	22253.1
	% Fixture	85.0	0.0	85.0
<b>Total</b>	Lumens	26182.0	0.0	26182.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	666.3	2.5
10°-20°	1311.9	5.0
20°-30°	1856.0	7.1
30°-40°	2728.8	10.4
40°-50°	3922.2	15.0
50°-60°	5521.4	21.1
60°-70°	6448.5	24.6
70°-80°	3289.8	12.6
80°-90°	437.0	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°	26182.0	100.0
0°-180°	26182.0	100.0

**Coefficient of Utilization**

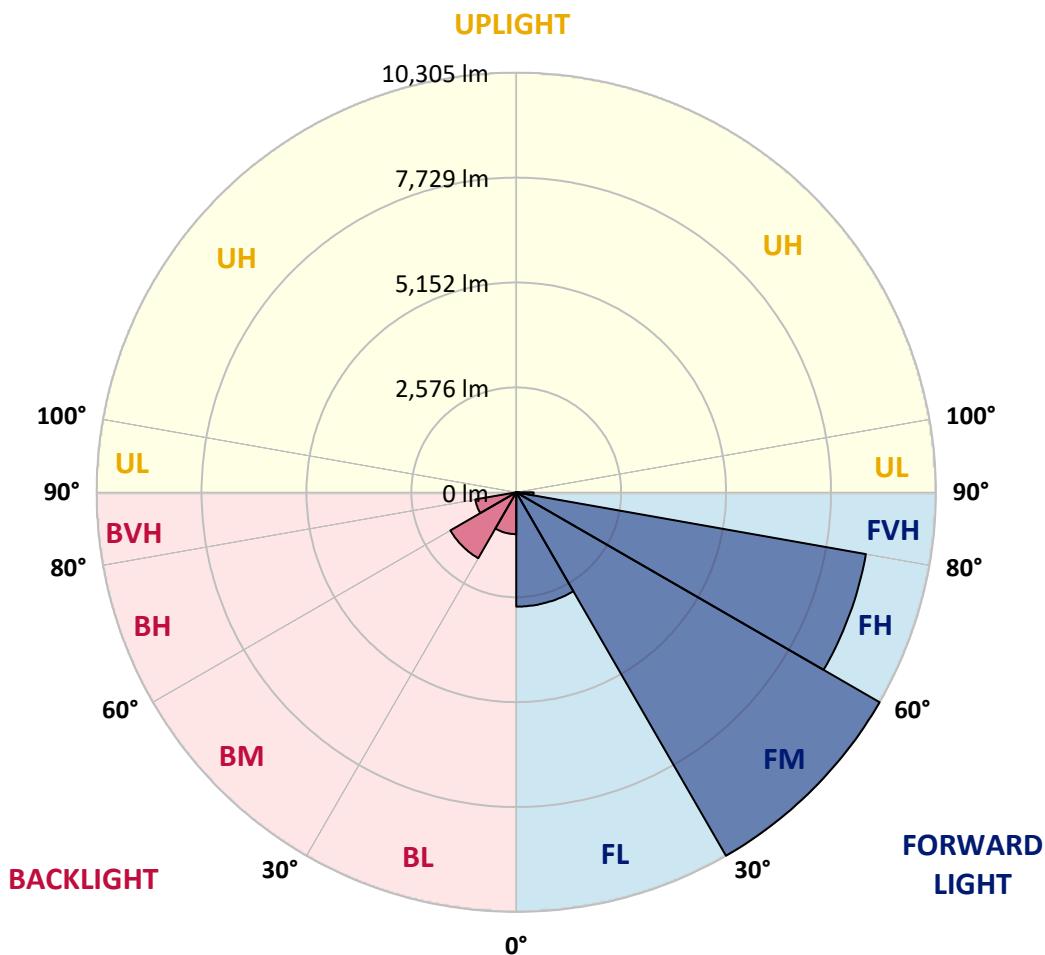


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2806.7	10.7			
FM (30°-60°)	10304.8	39.4			
FH (60°-80°)	8717.9	33.3			G4/12000
FVH (80°-90°)	423.8	1.6			G3/500
BL (0°-30°)	1027.5	3.9	B3/2500		
BM (30°-60°)	1867.7	7.1	B2/2500		
BH (60°-80°)	1020.5	3.9	B3/2500		G3/2500
BVH (80°-90°)	13.3	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G4**  
 Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	8783.6	8783.6	8783.6	8783.6	8783.6	8783.6	8783.6	8783.6	8783.6	8783.6	8783.6
2.5°	9521.6	9536.5	9613.4	9792.0	9986.7	10001.6	10133.0	9997.8	9952.0	9733.7	9507.9
5°	9593.5	9650.6	9914.7	10439.4	10894.6	11040.9	11145.1	10879.7	10600.6	10067.3	9498.0
7.5°	9014.3	9109.8	9525.3	10510.1	11323.7	11683.4	11751.6	11336.1	10652.7	9774.6	8918.8
10°	8272.6	8381.8	8882.8	10093.3	11210.8	11827.2	11921.5	11377.0	10394.7	9300.8	8292.5
12.5°	7672.3	7800.1	8312.3	9624.5	10822.6	11504.8	11690.8	11239.4	10171.5	8964.7	7864.6
15°	7395.7	7542.1	8080.4	9321.9	10392.2	10929.3	11083.1	10888.4	10047.5	8911.4	7765.3
17.5°	7554.5	7713.3	8268.9	9347.9	9987.9	10217.4	10341.4	10420.8	10047.5	9232.6	8055.6
20°	8205.6	8376.8	8964.7	9612.1	9653.0	9567.5	9700.2	9979.2	10164.0	9842.8	8752.6
22.5°	9106.1	9307.0	9970.6	10064.8	9489.3	9165.6	9183.0	9620.8	10376.1	10616.7	9720.0
25°	10203.7	10449.3	11124.0	10739.5	9557.5	8926.2	8920.0	9325.6	10583.2	11391.9	10797.8
27.5°	11293.9	11564.3	12157.2	11563.1	9839.1	8882.8	8870.4	9236.3	10785.4	12081.5	11974.8
30°	12208.0	12470.9	12981.9	12159.6	10143.0	8984.5	8925.0	9331.8	10905.7	12529.2	12833.1
32.5°	12952.2	13163.0	13576.0	12570.2	10467.9	9181.7	9052.8	9587.3	11110.4	12907.5	13621.9
35°	13770.8	13992.8	14157.7	12960.9	10832.5	9465.8	9281.0	9992.9	11425.4	13292.0	14486.4
37.5°	14704.7	14925.4	14905.6	13318.1	11295.2	9935.8	9818.0	10635.3	11915.3	13672.8	15451.3
40°	15618.8	15844.5	15683.3	13708.7	11838.4	10711.0	10624.2	11600.3	12571.4	14160.2	16582.4
42.5°	16474.5	16718.9	16374.1	14078.3	12485.8	11688.3	11837.2	12843.0	13392.5	14760.5	17557.3
45°	17164.1	17413.4	16953.3	14438.0	13168.0	12874.0	13321.8	14219.7	14379.7	15267.8	18215.9
47.5°	17665.2	17900.9	17355.1	14797.7	14041.1	14323.9	15104.0	15663.4	15271.5	15708.1	18683.5
50°	17985.2	18168.8	17473.0	15247.9	15187.1	16015.6	16960.7	17233.6	16111.1	16104.9	19251.5
52.5°	18188.6	18271.7	17559.8	15718.0	16382.8	17857.5	18779.0	18864.6	16975.6	16541.5	20016.8
55°	18889.4	18956.3	18175.0	16287.3	17371.3	19471.0	20423.6	20344.2	17954.2	17396.1	20919.7
57.5°	20085.0	20155.7	19446.2	17105.8	18171.2	20468.2	21615.5	21758.1	19101.4	18596.7	21887.1
60°	20685.3	20816.7	20563.7	18142.7	18946.4	21105.7	22427.9	22883.0	20535.2	20179.2	22824.7
62.5°	20140.8	20331.8	20698.9	19292.4	19716.6	21456.7	22680.9	23286.1	22003.7	22023.5	23402.7
65°	19054.3	19206.9	19829.5	19922.5	20163.1	21413.3	22055.8	22723.0	22902.9	23717.7	23371.7
67.5°	17742.1	17799.2	18327.5	19972.1	19515.7	20108.5	20178.0	20671.6	22192.2	24318.0	22432.8
70°	15853.2	15884.2	16345.6	18311.4	16771.0	16901.2	16798.3	16898.7	19079.1	22855.8	20062.7
72.5°	12758.7	12836.8	13492.9	15207.0	12217.9	11842.1	12650.8	12606.1	14693.5	19309.8	14900.6
75°	9393.8	9529.0	10520.0	12248.9	8575.2	7756.7	8347.0	8504.6	10445.6	14936.6	9318.2
77.5°	6577.2	6677.6	7637.6	9004.4	6206.3	5546.5	5333.2	5520.5	6894.7	10805.3	4694.4
80°	3789.0	3826.2	4438.9	5199.2	4182.2	4785.0	4334.8	4463.7	4131.3	4807.3	2019.2
82.5°	2479.3	2485.5	2724.9	3094.5	2604.6	3026.3	2239.9	2863.8	2541.3	1931.1	657.3
85°	1339.5	1346.9	1580.1	2196.5	1474.7	833.5	489.9	1005.9	1571.4	442.8	179.8
87.5°	147.6	135.2	476.3	798.7	409.3	75.7	26.0	112.9	251.8	28.5	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°	8783.6	8783.6	8783.6	8783.6	8783.6	8783.6	8783.6	8783.6	8783.6	8783.6	8783.6
2.5°	9392.6	9289.6	9032.9	8761.3	8543.0	8338.4	8132.5	7880.7	7686.0	7646.3	7581.8
5°	9191.7	8865.5	8327.2	7786.4	7351.1	6801.7	6453.1	6181.5	5916.1	5900.0	5846.6
7.5°	8489.7	8060.5	7302.7	6554.8	5942.1	5418.8	4890.4	4536.9	4259.1	4161.1	4102.8
10°	7815.0	7332.5	6386.2	5532.9	4985.9	4523.3	4151.2	3781.6	3446.7	3216.0	3111.8
12.5°	7343.7	6810.3	5767.3	5031.8	4639.9	4200.8	3746.9	3285.5	2899.8	2621.9	2452.0
15°	7161.3	6592.1	5560.1	4833.3	4349.6	3794.0	3213.5	2686.4	2258.5	2006.8	1854.2
17.5°	7378.4	6716.1	5544.0	4591.5	3915.5	3224.7	2583.5	1960.9	1557.8	1366.8	1268.8
20°	7929.1	7110.5	5537.8	4295.1	3399.6	2550.0	1750.0	1289.9	1045.6	938.9	893.0
22.5°	8708.0	7614.0	5587.4	4002.4	2862.6	1822.0	1208.0	947.6	822.3	765.2	739.2
25°	9710.1	8321.0	5727.6	3736.9	2357.8	1359.3	941.4	793.8	705.7	661.1	642.5
27.5°	10778.0	9134.6	5945.9	3506.3	1947.2	1084.0	806.2	679.7	616.4	585.4	568.0
30°	11658.6	10077.2	6166.6	3249.5	1649.6	945.1	738.0	620.1	547.0	527.1	511.0
32.5°	12428.8	10790.4	6322.9	3017.6	1454.8	839.7	667.3	554.4	504.8	466.3	449.0
35°	13226.3	11384.5	6318.0	2855.1	1320.9	760.3	607.7	496.1	436.6	391.9	378.3
37.5°	14089.5	12055.5	6210.0	2716.2	1262.6	697.0	574.2	465.1	405.6	360.9	343.6
40°	15100.3	12759.9	6099.7	2586.0	1246.5	646.2	550.7	440.3	377.0	333.6	316.3
42.5°	16085.1	13394.9	6002.9	2489.2	1177.0	644.9	529.6	421.7	354.7	312.5	292.7
45°	16872.7	13986.6	5984.3	2430.9	1103.8	667.3	518.4	409.3	337.4	295.2	276.6
47.5°	17527.5	14629.0	6103.4	2390.0	1034.4	609.0	545.7	400.6	321.2	280.3	259.2
50°	18306.4	15417.8	6383.7	2323.0	961.2	548.2	625.1	403.1	307.6	265.4	243.1
52.5°	19392.9	16509.3	6795.5	2210.2	860.7	492.4	615.2	405.6	292.7	249.3	227.0
55°	20610.9	17872.3	7238.2	2022.9	720.6	419.2	527.1	388.2	264.2	231.9	210.8
57.5°	21890.8	19108.9	7501.2	1799.6	573.0	362.2	421.7	353.5	233.2	208.4	194.7
60°	22091.7	19578.9	7380.9	1525.5	455.2	315.0	312.5	359.7	208.4	183.6	173.6
62.5°	21591.9	18988.6	6799.2	1281.2	380.8	276.6	256.7	313.8	188.5	163.7	153.8
65°	20630.7	17392.3	5856.6	1154.7	353.5	236.9	213.3	220.8	165.0	142.6	133.9
67.5°	19293.7	15261.6	4808.5	1082.8	349.8	203.4	182.3	167.4	142.6	124.0	116.6
70°	16560.1	12714.0	3836.2	1043.1	339.8	171.2	153.8	136.4	119.1	105.4	99.2
72.5°	12188.2	9009.3	2984.1	999.7	342.3	136.4	133.9	112.9	95.5	81.9	79.4
75°	7042.3	5147.1	1957.2	809.9	326.2	105.4	111.6	79.4	67.0	57.1	57.1
77.5°	3753.1	3139.1	745.4	337.4	119.1	67.0	63.3	47.1	42.2	34.7	33.5
80°	1635.9	1381.7	224.5	94.3	65.7	36.0	23.6	21.1	18.6	14.9	13.6
82.5°	579.2	499.8	73.2	45.9	28.5	0.0	0.0	0.0	0.0	0.0	0.0
85°	131.5	94.3	0.0	11.2	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°	8783.6	8783.6	8783.6	8783.6	8783.6	8783.6	8783.6	8783.6	8783.6	8783.6	8783.6
2.5°	7450.3	7423.0	7261.8	7268.0	7296.5	7337.5	7240.7	7285.4	7405.7	7521.0	7564.4
5°	5761.1	5767.3	5669.3	5730.1	5784.6	5821.8	5665.6	5668.0	5763.5	5893.8	5962.0
7.5°	4059.4	4049.5	4054.5	4199.6	4302.5	4228.1	4286.4	4084.2	4096.6	4189.6	4120.2
10°	3017.6	2881.2	2804.3	2913.4	3026.3	2985.3	2884.9	2819.1	2865.0	2968.0	2960.5
12.5°	2371.4	2175.4	2060.1	1982.0	2075.0	1998.1	1995.6	1938.5	1876.5	1887.7	2052.7
15°	1783.5	1640.9	1504.5	1379.2	1376.7	1350.7	1217.9	1069.1	1056.7	1064.2	1149.7
17.5°	1226.6	1178.3	1122.4	1014.5	986.0	876.9	747.9	688.4	658.6	672.2	700.8
20°	862.0	843.4	849.6	791.3	750.4	646.2	570.5	547.0	542.0	555.6	569.3
22.5°	714.4	680.9	677.2	651.1	610.2	534.6	493.6	480.0	473.8	486.2	496.1
25°	625.1	591.6	578.0	561.8	518.4	466.3	441.5	429.1	422.9	430.4	436.6
27.5°	550.7	519.7	507.3	496.1	453.9	416.7	396.9	385.7	380.8	383.2	389.4
30°	494.9	467.6	451.5	437.8	401.8	375.8	358.4	347.3	342.3	342.3	348.5
32.5°	436.6	421.7	406.8	389.4	356.0	338.6	321.2	308.8	303.9	305.1	310.1
35°	363.4	358.4	362.2	346.0	317.5	302.6	285.3	271.6	267.9	269.1	274.1
37.5°	322.5	300.1	313.8	305.1	289.0	269.1	246.8	234.4	228.2	231.9	234.4
40°	296.4	269.1	259.2	267.9	265.4	233.2	213.3	200.9	196.0	197.2	199.7
42.5°	274.1	241.9	219.5	218.3	233.2	203.4	182.3	171.2	165.0	165.0	167.4
45°	253.0	218.3	191.0	169.9	196.0	172.4	152.6	142.6	135.2	135.2	136.4
47.5°	236.9	198.4	166.2	138.9	147.6	141.4	125.3	115.3	107.9	107.9	109.1
50°	222.0	178.6	143.9	116.6	110.4	116.6	101.7	90.5	85.6	84.3	86.8
52.5°	205.9	158.8	122.8	99.2	86.8	88.1	79.4	71.9	65.7	65.7	68.2
55°	189.8	142.6	106.7	84.3	71.9	65.7	63.3	58.3	53.3	53.3	55.8
57.5°	173.6	125.3	90.5	69.5	57.1	52.1	52.1	48.4	44.6	44.6	47.1
60°	158.8	107.9	74.4	57.1	44.6	43.4	44.6	40.9	38.4	38.4	40.9
62.5°	141.4	91.8	60.8	47.1	36.0	34.7	38.4	36.0	33.5	33.5	36.0
65°	120.3	78.1	48.4	36.0	27.3	27.3	32.2	29.8	27.3	27.3	29.8
67.5°	101.7	65.7	37.2	26.0	19.8	21.1	27.3	24.8	23.6	23.6	26.0
70°	84.3	50.9	26.0	16.1	11.2	16.1	21.1	21.1	21.1	21.1	23.6
72.5°	63.3	34.7	14.9	6.2	5.0	11.2	17.4	19.8	18.6	18.6	22.3
75°	40.9	19.8	5.0	0.0	0.0	6.2	13.6	16.1	16.1	14.9	18.6
77.5°	23.6	6.2	0.0	0.0	0.0	0.0	8.7	7.4	6.2	5.0	8.7
80°	6.2	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: P324139  
 CATALOG NUMBER: GAN-SA5D-730-U-SLL-HSS

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	8783.6	8783.6	8783.6	8783.6	8783.6	8783.6	8783.6	8783.6	8783.6	8783.6
2.5°	7739.3	7885.7	8091.5	8309.8	8645.9	8912.6	9174.3	9398.8	9485.6	9521.6
5°	6125.7	6340.3	6641.7	7028.6	7635.1	8180.8	8734.0	9290.9	9532.7	9593.5
7.5°	4395.5	4669.6	5052.9	5537.8	6248.5	6955.5	7728.1	8545.5	8920.0	9014.3
10°	3253.2	3588.1	4027.2	4538.2	5216.6	5943.4	6785.5	7719.5	8147.4	8272.6
12.5°	2308.1	2760.8	3348.7	3970.1	4558.0	5206.7	6058.7	7088.2	7537.1	7672.3
15°	1355.6	1793.4	2489.2	3321.5	4074.3	4731.6	5597.4	6764.4	7259.3	7395.7
17.5°	777.7	995.9	1521.8	2449.5	3471.5	4381.9	5452.2	6845.1	7428.0	7554.5
20°	594.1	663.5	876.9	1577.6	2767.0	4038.3	5452.2	7301.5	8019.6	8205.6
22.5°	519.7	570.5	657.3	941.4	2036.5	3670.0	5515.5	7961.3	8900.2	9106.1
25°	461.4	507.3	581.7	708.2	1389.1	3232.2	5665.6	8771.2	9937.1	10203.7
27.5°	413.0	456.4	523.4	620.1	950.0	2703.8	5867.7	9721.3	11080.6	11293.9
30°	369.6	410.5	471.3	539.5	733.0	2104.7	6040.1	10616.7	11978.6	12208.0
32.5°	328.7	365.9	420.5	471.3	600.3	1556.5	6058.7	11326.2	12724.0	12952.2
35°	290.2	323.7	373.3	413.0	497.3	1229.1	5769.7	11941.3	13469.4	13770.8
37.5°	253.0	285.3	328.7	358.4	437.8	1002.1	5328.2	12627.2	14425.6	14704.7
40°	218.3	246.8	291.5	311.3	414.3	770.2	4848.2	13346.6	15363.3	15618.8
42.5°	186.0	213.3	256.7	295.2	363.4	575.5	4329.8	14021.3	16206.6	16474.5
45°	155.0	183.6	227.0	312.5	301.4	430.4	3775.4	14469.0	16872.7	17164.1
47.5°	125.3	157.5	217.0	297.7	240.6	316.3	3336.3	14893.2	17377.5	17665.2
50°	100.5	132.7	244.3	265.4	197.2	241.9	3152.8	15272.7	17708.6	17985.2
52.5°	81.9	111.6	230.7	203.4	165.0	199.7	3252.0	15887.9	18015.0	18188.6
55°	68.2	88.1	138.9	141.4	140.2	169.9	3374.8	16771.0	18807.5	18889.4
57.5°	59.5	70.7	96.7	109.1	117.8	151.3	3377.3	18038.5	20034.1	20085.0
60°	50.9	62.0	80.6	88.1	101.7	135.2	3254.5	18481.3	20516.6	20685.3
62.5°	44.6	54.6	67.0	73.2	85.6	121.5	2966.7	17840.1	19854.3	20140.8
65°	39.7	49.6	55.8	62.0	75.7	109.1	2492.9	16557.6	18755.4	19054.3
67.5°	34.7	43.4	49.6	55.8	68.2	96.7	1835.6	15068.1	17494.1	17742.1
70°	31.0	38.4	44.6	49.6	59.5	81.9	1113.8	12786.0	15750.2	15853.2
72.5°	29.8	34.7	40.9	44.6	52.1	71.9	564.3	9396.3	12591.3	12758.7
75°	26.0	31.0	37.2	39.7	45.9	62.0	229.5	6171.6	9124.7	9393.8
77.5°	21.1	28.5	33.5	36.0	39.7	50.9	116.6	3944.1	6403.5	6577.2
80°	7.4	21.1	28.5	29.8	33.5	37.2	76.9	2159.3	3714.6	3789.0
82.5°	0.0	13.6	22.3	21.1	23.6	28.5	49.6	1026.9	2452.0	2479.3
85°	0.0	6.2	17.4	13.6	9.9	19.8	17.4	224.5	1286.2	1339.5
87.5°	0.0	0.0	1.2	6.2	5.0	7.4	2.5	1.2	116.6	147.6
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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