

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: P383032

Luminaire Tested: **GAN-SA3D-735-U-SLR-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P383032  
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-SA3D-735-U-SLR-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 70 CRI, 3500K, 1200mA 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: 16357.1 lumens  
Efficiency: N/A  
Efficacy: 85.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B2 - U0 - G3

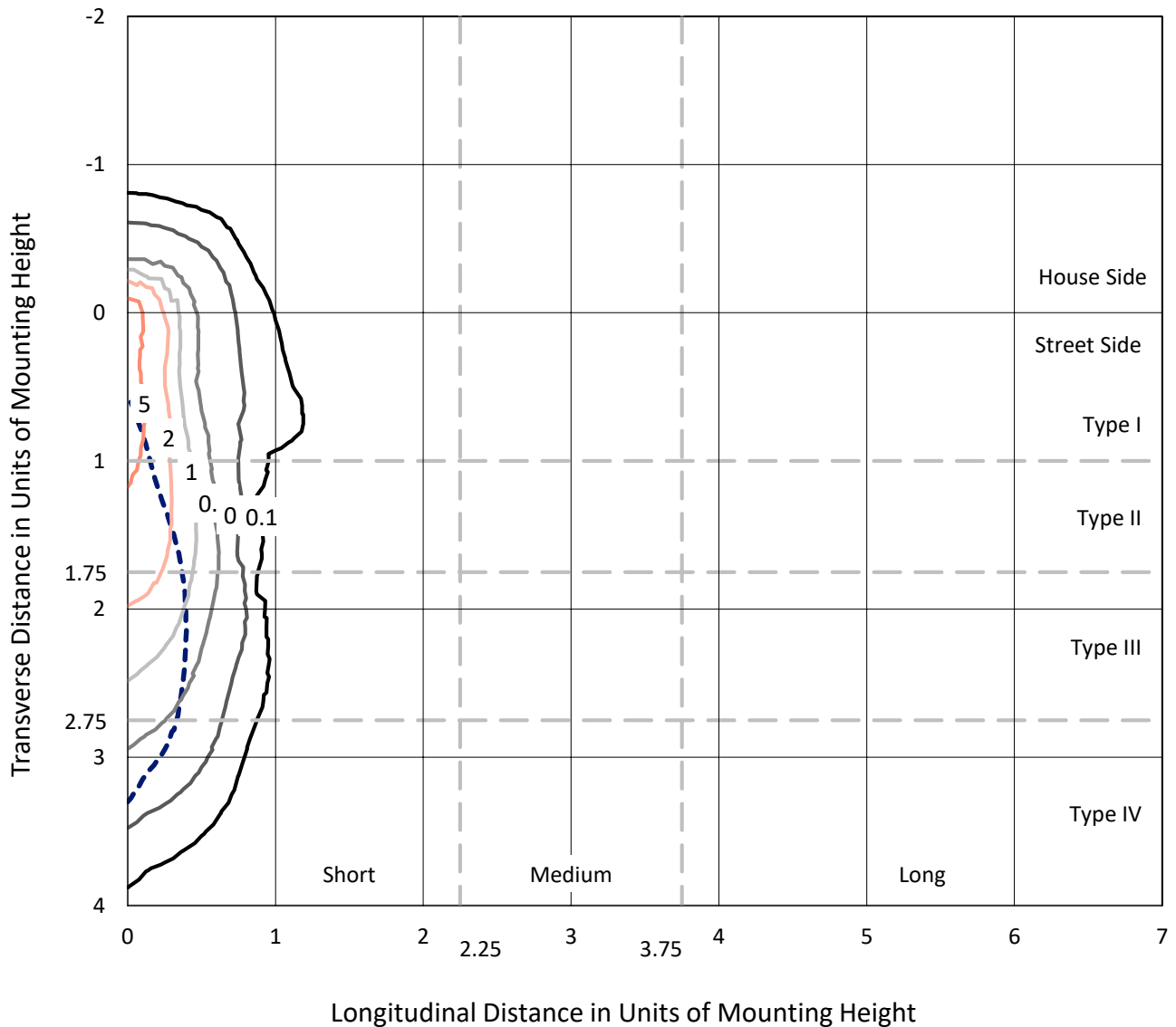
Input Watts (W): 191  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

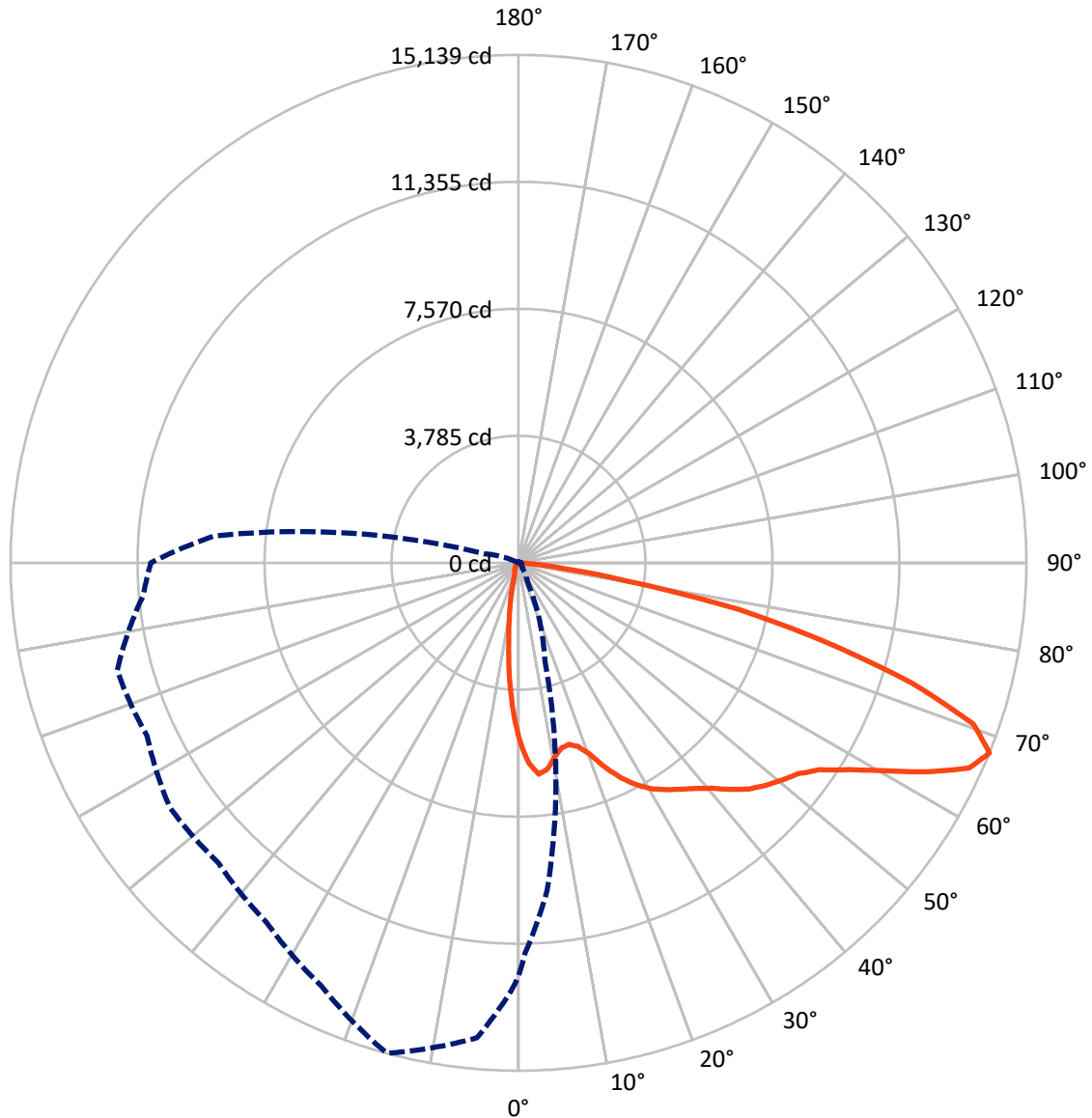
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.5 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
<b>House Side</b>	Lumens	1979.7	0.0	1979.7
	% Fixture	12.1	0.0	12.1
<b>Street Side</b>	Lumens	14377.3	0.0	14377.3
	% Fixture	87.9	0.0	87.9
<b>Total</b>	Lumens	16357.1	0.0	16357.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	408.9	2.5
10°-20°	814.0	5.0
20°-30°	1155.9	7.1
30°-40°	1707.3	10.4
40°-50°	2462.3	15.1
50°-60°	3456.5	21.1
60°-70°	4029.3	24.6
70°-80°	2059.8	12.6
80°-90°	263.1	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°	16357.1	100.0
0°-180°	16357.1	100.0

**Coefficient of Utilization**

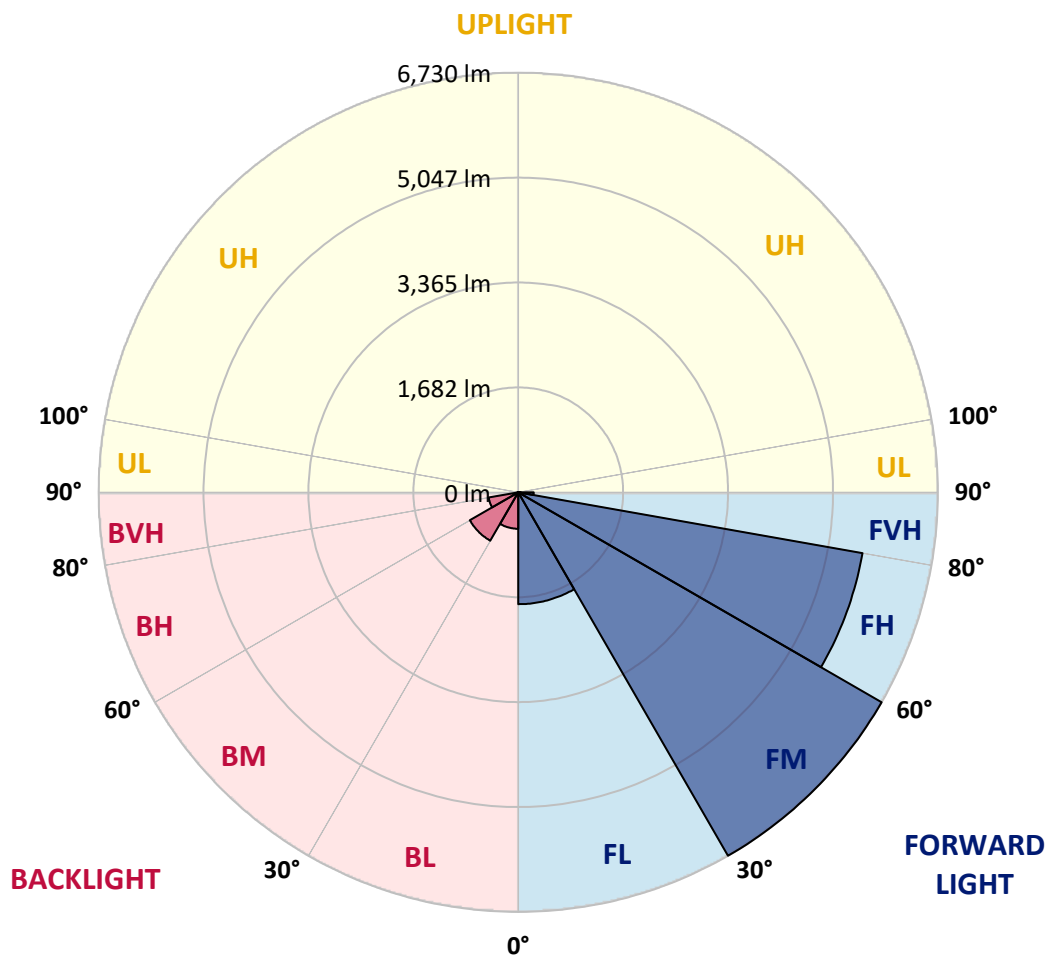


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1794.1	11.0			
FM (30°-60°)	6729.6	41.1			
FH (60°-80°)	5606.6	34.3			G3/7500
FVH (80°-90°)	247.1	1.5			G3/500
BL (0°-30°)	584.7	3.6	B2/1000		
BM (30°-60°)	896.5	5.5	B1/1000		
BH (60°-80°)	482.5	2.9	B1/500		G1/500
BVH (80°-90°)	16.0	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°	5328.3	5328.3	5328.3	5328.3	5328.3	5328.3	5328.3	5328.3	5328.3	5328.3	5328.3
2.5°	5834.3	5789.4	5739.7	5577.8	5427.5	5255.4	5115.2	5017.5	4895.1	4736.3	4695.9
5°	5792.5	5744.4	5588.6	5228.3	4912.9	4606.0	4310.1	4136.4	3921.1	3702.5	3648.3
7.5°	5371.7	5321.3	5096.6	4603.0	4178.3	3735.0	3350.7	3112.8	2869.4	2669.5	2563.4
10°	4933.8	4878.8	4626.3	4027.2	3504.1	3103.5	2821.5	2594.4	2364.3	2150.4	1979.9
12.5°	4632.4	4560.3	4286.1	3607.2	3151.5	2879.6	2616.1	2344.1	2032.5	1803.2	1615.7
15°	4506.1	4423.9	4134.1	3445.2	3026.8	2707.5	2364.3	2030.3	1665.2	1402.6	1230.6
17.5°	4603.7	4496.8	4186.1	3434.4	2870.3	2435.5	2001.6	1609.5	1213.5	947.8	825.3
20°	4935.4	4795.1	4400.7	3431.3	2680.4	2112.4	1562.2	1119.0	799.7	643.1	578.9
22.5°	5457.7	5272.5	4709.2	3456.1	2484.3	1773.0	1128.3	760.1	600.6	519.2	481.2
25°	6088.5	5873.8	5153.1	3543.7	2312.3	1442.9	819.9	600.6	506.8	447.1	415.4
27.5°	6688.2	6513.8	5714.2	3669.9	2179.1	1176.4	665.7	509.1	433.2	393.7	368.1
30°	7287.2	7067.9	6289.9	3820.3	2018.7	995.7	585.0	464.2	388.3	346.3	330.1
32.5°	7722.7	7540.6	6741.0	3928.8	1847.4	878.0	523.1	424.7	362.7	320.1	296.0
35°	8235.0	8028.8	7127.6	3952.8	1737.3	803.6	470.3	382.0	314.6	276.7	251.1
37.5°	8788.2	8531.8	7573.9	3900.1	1651.4	767.1	430.8	362.7	293.7	255.0	227.9
40°	9400.4	9110.6	8002.5	3824.2	1566.9	754.7	400.7	347.9	277.4	237.9	210.0
42.5°	10045.2	9703.4	8373.7	3744.4	1513.4	712.2	397.5	333.2	265.0	222.4	194.5
45°	10586.9	10240.4	8755.0	3718.0	1475.4	665.7	410.7	323.2	256.5	210.0	182.9
47.5°	11018.4	10690.6	9145.5	3776.9	1453.8	623.0	374.3	336.3	251.9	199.2	172.8
50°	11533.8	11162.5	9695.6	3952.8	1421.9	580.4	338.6	385.1	251.9	192.2	164.3
52.5°	12180.0	11812.7	10309.4	4225.6	1358.4	521.5	304.5	385.9	254.1	182.9	153.4
55°	12992.9	12726.3	11185.8	4524.7	1256.9	434.8	263.4	331.6	244.9	165.8	143.4
57.5°	13772.5	13554.7	11984.7	4729.3	1121.3	339.5	229.3	267.4	223.9	145.7	127.9
59°	13985.6	13747.7	12277.7	4738.6	1019.8	296.0	212.3	220.9	219.3	136.4	118.6
60°	13985.6	13733.0	12362.1	4688.9	946.2	272.0	201.5	196.8	228.6	130.2	113.2
62.5°	13732.1	13377.3	12087.9	4353.4	771.8	231.7	175.9	162.7	205.3	117.0	100.0
65°	13205.2	12688.3	11153.2	3746.7	688.1	212.3	151.8	133.3	142.6	103.0	87.6
67.5°	12326.5	11626.0	9805.7	3026.8	654.8	206.9	131.0	113.2	107.7	88.3	76.8
70°	10779.0	10001.7	8169.9	2379.7	626.1	204.6	110.0	95.3	86.8	74.4	65.1
72.5°	7845.2	7034.6	5800.2	1860.6	609.0	209.2	88.3	79.8	71.3	58.1	50.4
75°	4487.5	3956.7	3260.0	1229.0	519.2	199.9	68.2	66.6	51.1	41.8	34.8
77.5°	2318.5	2248.0	1953.5	471.9	248.7	87.6	44.9	38.8	30.2	25.6	21.0
80°	1000.4	989.6	856.3	136.4	65.9	48.8	25.6	16.3	14.0	10.8	8.6
82.5°	345.6	345.6	304.5	45.7	29.4	24.0	3.1	0.0	0.0	0.0	0.0
85°	69.8	78.2	55.1	0.0	10.1	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°	5328.3	5328.3	5328.3	5328.3	5328.3	5328.3	5328.3	5328.3	5328.3	5328.3	5328.3
2.5°	4647.1	4553.4	4547.2	4488.3	4414.7	4381.3	4362.0	4396.1	4437.9	4442.6	4505.3
5°	3607.2	3508.8	3549.8	3445.2	3466.2	3445.2	3411.1	3417.4	3435.9	3377.8	3449.9
7.5°	2533.2	2458.8	2506.0	2478.2	2515.4	2530.1	2509.1	2478.2	2386.7	2375.9	2438.6
10°	1909.4	1824.9	1774.5	1721.9	1733.5	1757.5	1749.7	1727.3	1669.1	1672.2	1732.7
12.5°	1534.4	1439.8	1339.8	1210.5	1178.6	1196.5	1178.6	1165.5	1109.7	1114.3	1167.8
15°	1163.9	1086.5	981.9	878.0	821.4	826.8	777.2	742.4	707.5	665.7	698.2
17.5°	785.8	738.5	707.5	676.5	609.0	593.6	530.8	463.4	437.1	417.7	431.6
20°	556.4	530.8	518.4	516.8	478.2	458.8	397.5	355.7	342.5	338.6	347.2
22.5°	464.9	446.3	428.5	418.5	399.1	376.6	330.1	309.2	299.9	295.2	301.4
25°	404.5	390.6	372.0	354.9	347.2	323.2	289.8	274.3	268.1	263.4	266.6
27.5°	359.6	347.2	325.5	314.6	308.4	287.5	258.8	246.4	241.0	239.4	238.7
30°	323.9	312.3	292.1	279.7	268.9	250.3	233.3	220.9	215.5	213.9	212.3
32.5°	288.2	279.0	265.8	253.4	241.7	224.7	210.0	199.9	191.4	189.8	189.1
35°	243.3	234.0	227.0	226.3	215.5	199.2	188.3	175.1	168.1	165.8	166.6
37.5°	216.2	203.8	188.3	193.8	190.6	179.0	164.3	151.1	144.1	142.6	142.6
40°	199.2	185.9	168.1	158.8	168.1	165.8	142.6	129.4	122.4	121.7	120.1
42.5°	182.9	169.7	149.5	134.0	138.7	145.7	123.2	110.9	103.9	102.3	100.0
45°	171.2	157.3	134.8	117.0	107.7	122.4	105.4	89.9	86.0	82.9	81.3
47.5°	160.4	147.3	121.7	101.5	86.0	88.3	84.5	73.6	68.9	65.9	65.1
50°	151.1	137.1	110.0	86.8	71.3	65.1	68.2	58.1	54.2	51.1	49.6
52.5°	140.3	127.1	97.6	75.2	59.7	51.1	51.9	45.7	41.8	39.5	38.8
55°	131.7	118.6	87.6	65.9	52.7	41.8	37.2	35.7	33.3	31.8	31.0
57.5°	120.1	107.7	77.5	55.8	44.9	34.1	28.7	28.7	27.9	26.4	25.6
59°	113.2	102.3	71.3	50.4	41.1	29.4	25.6	26.4	25.6	24.0	23.3
60°	107.7	97.6	66.6	46.5	38.8	27.1	23.3	24.8	24.0	22.5	21.7
62.5°	95.3	88.3	57.4	38.8	34.1	21.7	19.4	21.0	21.0	20.1	19.4
65°	83.7	75.9	48.8	32.5	31.8	18.6	15.5	18.6	19.4	17.8	16.3
67.5°	72.8	65.1	42.7	26.4	29.4	14.7	11.6	15.5	21.0	16.3	14.7
70°	61.9	54.2	33.3	21.0	31.0	10.1	9.3	14.0	24.8	17.8	14.0
72.5°	48.1	41.8	23.3	15.5	33.3	7.0	7.0	11.6	27.9	19.4	13.1
75°	33.3	27.1	14.0	9.3	27.1	4.7	4.7	10.8	26.4	17.8	12.4
77.5°	19.4	14.7	4.7	0.7	14.0	0.0	0.7	7.7	18.6	10.8	5.4
80°	7.0	3.1	0.0	0.0	8.6	0.0	0.0	0.0	1.6	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°	5328.3	5328.3	5328.3	5328.3	5328.3	5328.3	5328.3	5328.3	5328.3	5328.3	5328.3
2.5°	4521.6	4626.3	4720.0	4861.7	5029.9	5223.7	5390.3	5569.3	5737.4	5807.2	5855.2
5°	3464.6	3594.0	3745.1	3953.6	4231.0	4572.8	4892.8	5254.7	5643.7	5838.2	6021.1
7.5°	2449.5	2581.2	2768.7	2990.4	3325.9	3732.7	4151.2	4651.0	5177.9	5485.6	5788.5
10°	1761.4	1923.4	2098.5	2401.4	2742.4	3128.3	3559.2	4117.1	4704.5	5045.4	5410.4
12.5°	1198.8	1383.3	1648.2	1987.6	2388.3	2766.4	3140.7	3673.1	4355.0	4692.9	5084.2
15°	719.2	821.4	1101.9	1494.8	1986.1	2457.2	2867.2	3401.1	4128.0	4541.8	4948.6
17.5°	443.2	490.6	643.1	965.5	1481.6	2077.5	2639.4	3308.9	4160.5	4664.2	5099.7
20°	353.3	372.0	420.8	570.3	981.9	1659.1	2382.8	3290.2	4426.2	5046.2	5513.5
22.5°	306.9	324.6	357.2	414.5	617.6	1242.2	2139.5	3307.3	4807.5	5618.9	6164.4
25°	270.4	286.0	316.9	364.2	452.5	874.9	1879.1	3383.3	5304.2	6329.5	6909.1
27.5°	241.7	255.0	283.7	327.0	388.3	610.6	1583.9	3475.5	5893.2	7056.3	7628.2
30°	215.5	227.0	252.6	292.9	337.1	469.6	1260.0	3538.2	6482.9	7628.2	8142.0
32.5°	192.9	201.5	224.7	258.8	292.9	374.3	957.8	3528.1	6920.7	8104.0	8511.6
35°	169.7	178.2	198.4	227.9	255.0	309.2	753.2	3339.9	7301.9	8597.6	8934.7
37.5°	144.1	155.0	174.4	200.7	219.3	272.0	609.0	3112.8	7688.6	9161.8	9406.6
40°	122.4	133.3	150.4	179.0	190.6	258.0	468.0	2836.2	8123.4	9792.5	9924.2
42.5°	101.5	111.6	129.4	154.2	179.8	222.4	346.3	2520.0	8541.1	10331.9	10396.2
45°	82.2	92.2	110.9	135.6	192.2	184.4	268.1	2181.4	8878.1	10780.5	10801.5
47.5°	65.1	74.4	93.8	127.9	179.0	147.3	191.4	1915.5	9160.9	11130.8	11075.8
50°	50.4	58.1	78.2	146.4	156.5	121.7	144.9	1827.2	9414.4	11347.7	11205.2
52.5°	39.5	46.5	64.3	137.1	121.7	100.7	121.7	1910.1	9761.5	11527.5	11278.1
55°	31.8	38.8	50.4	78.2	82.9	85.2	103.9	1987.6	10360.6	11949.1	11708.1
57.5°	26.4	33.3	41.1	55.1	62.8	72.1	92.2	1996.1	11066.5	12649.6	12421.8
59°	24.0	30.2	37.2	48.8	55.1	65.9	86.8	1949.6	11315.2	12904.5	12790.6
60°	22.5	28.7	34.8	44.9	51.1	61.9	83.7	1905.5	11326.0	12895.2	12948.0
62.5°	19.4	25.6	31.0	38.0	43.4	52.7	75.2	1742.0	10867.3	12473.0	12853.4
65°	17.0	22.5	27.9	32.5	37.2	47.2	68.2	1443.6	10083.9	11791.8	12206.3
67.5°	15.5	19.4	25.6	28.7	33.3	41.8	60.5	1029.1	9105.2	10958.7	11227.7
70°	14.0	18.6	23.3	26.4	30.2	36.4	51.9	591.3	7688.6	9739.1	9930.5
72.5°	13.1	17.8	21.0	24.8	27.1	32.5	47.2	278.2	5629.7	7801.8	8301.6
75°	11.6	16.3	19.4	23.3	25.6	29.4	40.3	133.3	3744.4	5646.0	6214.0
77.5°	7.0	13.1	17.8	21.0	22.5	25.6	33.3	76.8	2389.8	3907.8	4603.0
80°	0.0	4.7	13.1	17.8	19.4	21.7	25.6	60.5	1278.6	2232.5	2679.6
82.5°	0.0	0.0	9.3	14.0	13.1	14.7	19.4	38.0	576.5	1459.2	1644.4
85°	0.0	0.0	3.1	10.8	9.3	7.0	13.1	13.1	126.3	738.5	921.4
87.5°	0.0	0.0	0.0	0.7	4.7	3.1	5.4	1.6	0.7	55.1	223.2
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-SA3D-735-U-SLR-HSS

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	5328.3	5328.3	5328.3	5328.3	5328.3	5328.3	5328.3	5328.3	5328.3	5328.3
2.5°	6023.4	6080.7	6177.6	6223.3	6200.8	6105.5	5991.6	5875.4	5807.2	5834.3
5°	6393.8	6689.0	6859.5	6916.1	6821.5	6607.7	6327.9	5959.0	5828.1	5792.5
7.5°	6393.8	6949.3	7301.2	7363.2	7152.4	6733.2	6208.6	5632.8	5441.4	5371.7
10°	6169.1	6925.4	7415.9	7514.3	7219.9	6592.9	5890.1	5233.0	5006.0	4933.8
12.5°	5915.7	6730.1	7247.0	7382.6	7140.8	6453.5	5669.2	4962.5	4695.2	4632.4
15°	5759.9	6489.9	6917.6	7016.0	6913.8	6372.1	5616.6	4881.1	4566.5	4506.1
17.5°	5815.7	6303.9	6458.1	6515.4	6584.4	6343.4	5759.9	5059.4	4661.1	4603.7
20°	6025.7	6107.9	6028.0	6100.1	6286.1	6371.3	6101.6	5490.3	5012.1	4935.4
22.5°	6382.1	6006.3	5782.4	5811.1	6037.4	6463.5	6624.0	6105.5	5553.8	5457.7
25°	6797.5	6088.5	5646.0	5620.4	5852.9	6585.2	7101.3	6775.1	6194.6	6088.5
27.5°	7319.8	6272.9	5618.1	5592.5	5788.5	6699.1	7498.0	7436.8	6869.6	6688.2
30°	7722.7	6454.2	5701.0	5642.1	5852.9	6778.1	7816.5	7998.6	7407.4	7287.2
32.5°	8011.8	6668.1	5835.9	5750.6	6034.2	6914.5	8062.2	8513.1	7904.8	7722.7
35°	8231.9	6900.5	6053.6	5913.4	6283.8	7121.4	8292.3	9061.0	8434.1	8235.0
37.5°	8438.0	7226.8	6393.8	6226.4	6675.1	7454.6	8535.6	9682.5	9026.1	8788.2
40°	8725.4	7596.4	6918.4	6769.6	7333.0	7908.7	8839.4	10330.3	9699.6	9400.4
42.5°	9013.0	7993.1	7455.4	7495.7	8153.6	8460.5	9231.5	11015.4	10364.4	10045.2
45°	9275.7	8402.4	8220.3	8406.2	8915.4	9065.6	9621.3	11411.3	10895.2	10586.9
47.5°	9509.7	8913.8	8980.4	9475.6	9781.7	9613.6	9912.6	11753.1	11290.5	11018.4
50°	9781.7	9575.6	9982.4	10682.9	10779.0	10109.4	10177.6	12157.5	11752.3	11533.8
52.5°	10079.3	10273.0	11092.0	11709.6	11678.6	10648.1	10444.2	12610.9	12385.4	12180.0
55°	10417.1	10836.3	12069.2	12670.5	12644.2	11249.4	10886.0	13171.2	13178.9	12992.9
57.5°	10918.5	11321.5	12732.6	13447.8	13492.0	11943.7	11634.5	13798.8	13896.5	13772.5
59°	11278.1	11636.1	12995.3	13772.5	13952.3	12480.7	12181.6	14163.1	14098.7	13985.6
60°	11544.6	11836.0	13125.4	13942.2	14219.6	12844.9	12585.3	14376.9	14122.7	13985.6
62.5°	12204.0	12271.5	13360.3	14134.4	14527.2	13653.9	13721.3	14741.1	13956.1	13732.1
65°	12511.7	12546.5	13357.1	13790.3	14229.7	14283.9	14752.0	14752.0	13549.3	13205.2
67.5°	12383.1	12214.9	12694.6	12649.6	13088.2	13909.6	15139.4	14211.0	12771.2	12326.5
70°	11336.9	10689.9	10476.7	10496.1	10831.7	12098.7	14372.3	12619.4	11298.9	10779.0
72.5°	9432.9	7880.8	7354.7	7955.2	8042.8	9298.1	12248.2	9503.5	8332.6	7845.2
75°	7587.2	5555.3	4699.8	5333.7	5482.5	6804.5	9474.8	5918.8	4867.2	4487.5
77.5°	5450.7	3987.7	3372.4	3328.2	3520.4	4315.5	6723.1	2978.7	2484.3	2318.5
80°	3096.6	2624.6	2826.1	2666.5	2763.3	2698.2	3194.2	1306.5	1070.2	1000.4
82.5°	1869.1	1551.4	1680.0	1398.7	1769.8	1541.3	1230.6	418.5	363.4	345.6
85°	1215.9	847.7	441.7	296.0	609.9	984.9	275.1	113.9	87.6	69.8
87.5°	419.2	216.2	21.7	9.3	65.1	183.6	10.1	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)