

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: P324481

Luminaire Tested: **GAN-SA7B-740-U-SLR-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P324481
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-SA7B-740-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 4000K, 800mA 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: 29964 lumens
Efficiency: N/A
Efficacy: 101.6 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G4

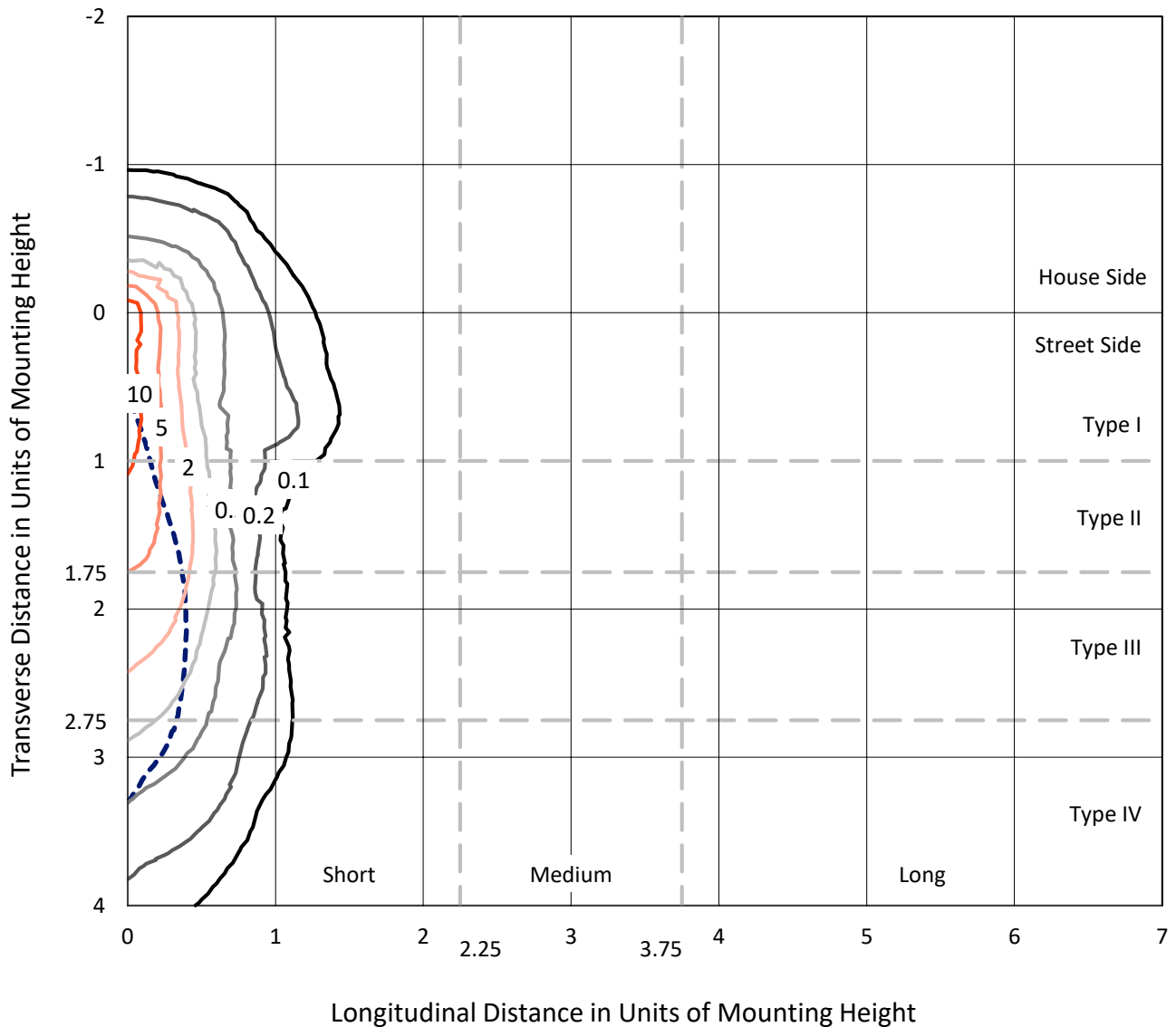
Input Watts (W): 295
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

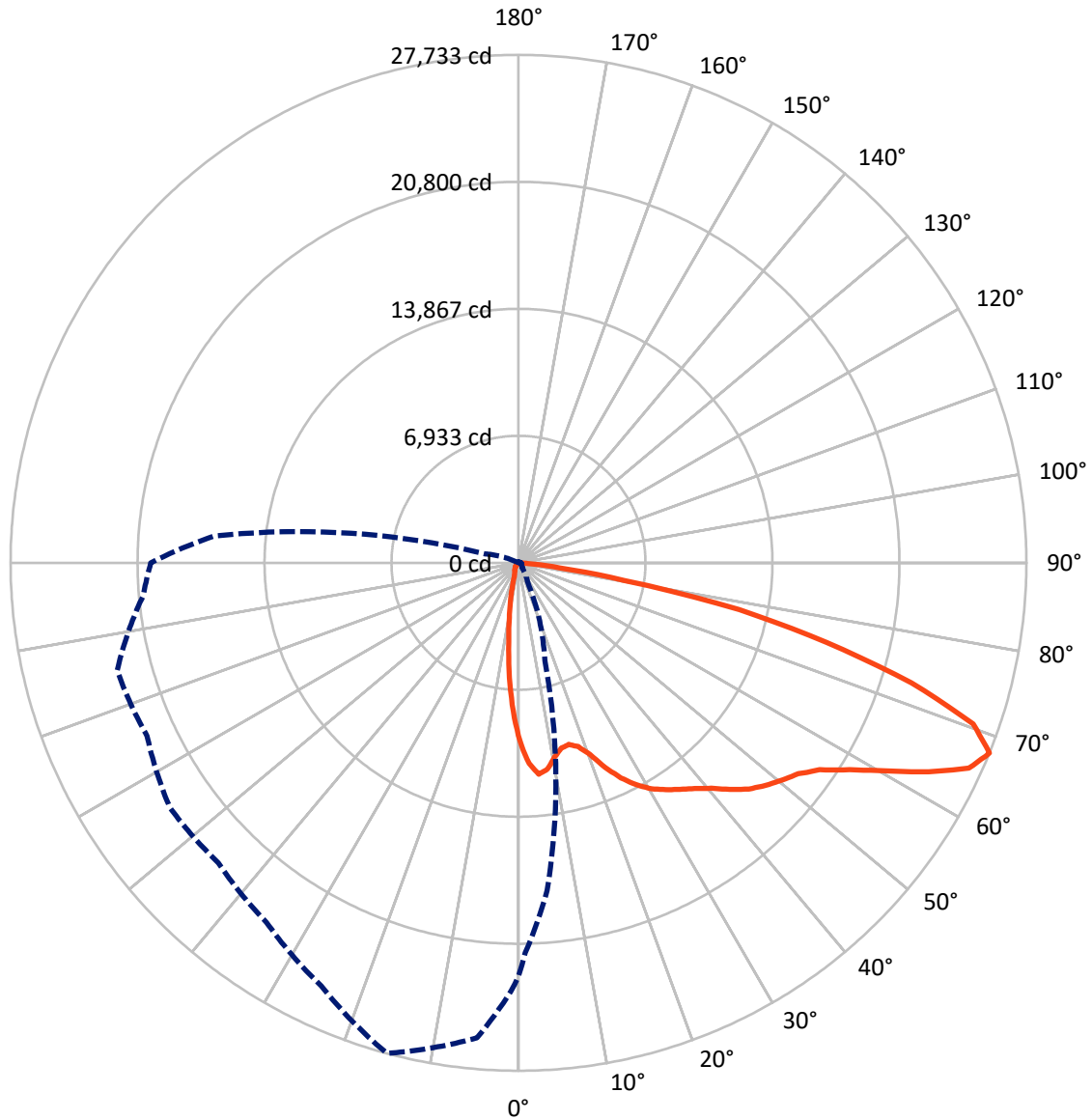
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.6 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	3626.6	0.0	3626.6
	% Fixture	12.1	0.0	12.1
Street Side	Lumens	26337.4	0.0	26337.4
	% Fixture	87.9	0.0	87.9
Total	Lumens	29964.0	0.0	29964.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	749.1	2.5
10°-20°	1491.1	5.0
20°-30°	2117.4	7.1
30°-40°	3127.5	10.4
40°-50°	4510.5	15.1
50°-60°	6331.9	21.1
60°-70°	7381.1	24.6
70°-80°	3773.4	12.6
80°-90°	481.9	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°	29964.0	100.0
0°-180°	29964.0	100.0

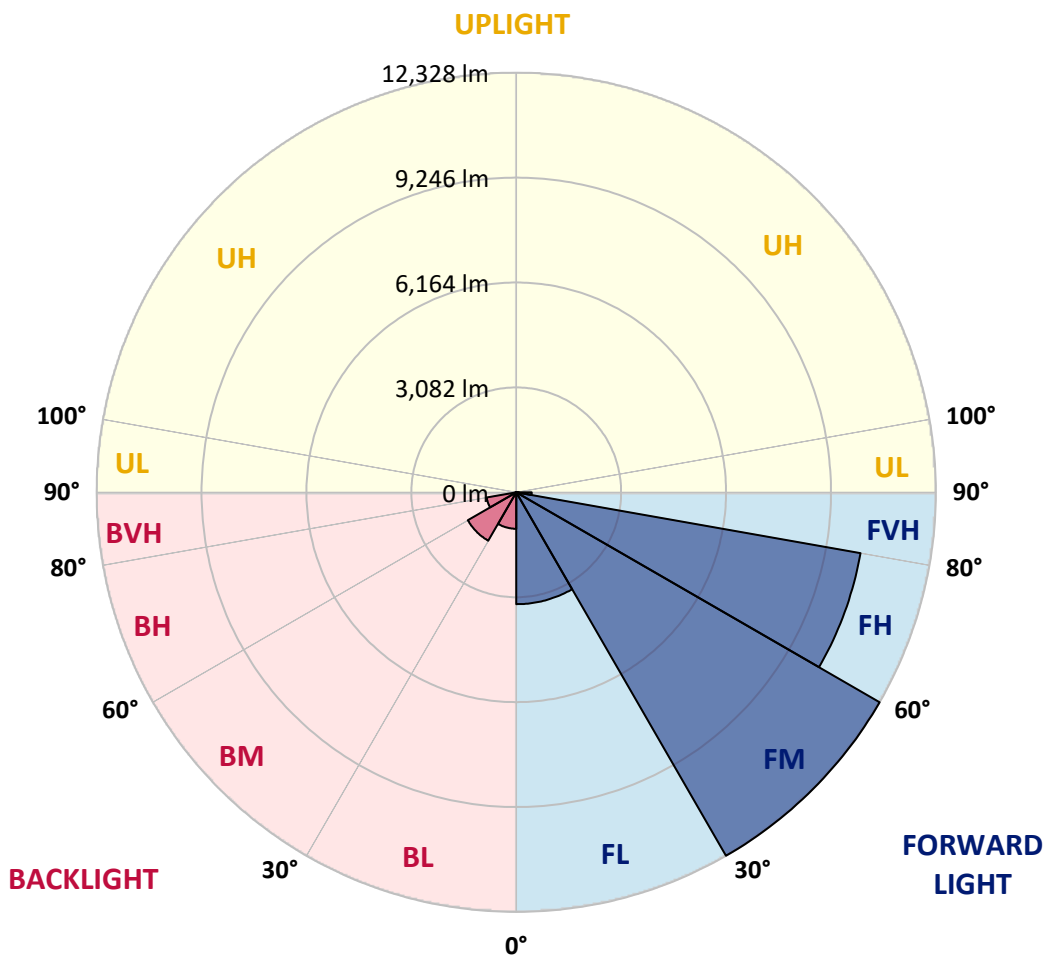


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3286.5	11.0			
FM (30°-60°)	12327.7	41.1			
FH (60°-80°)	10270.6	34.3			G4/12000
FVH (80°-90°)	452.6	1.5			G3/500
BL (0°-30°)	1071.2	3.6	B3/2500		
BM (30°-60°)	1642.3	5.5	B2/2500		
BH (60°-80°)	883.9	2.9	B2/1000		G2/1000
BVH (80°-90°)	29.3	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 IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	9760.7	9760.7	9760.7	9760.7	9760.7	9760.7	9760.7	9760.7	9760.7	9760.7	9760.7
2.5°	10687.7	10605.3	10514.5	10217.8	9942.4	9627.3	9370.3	9191.5	8967.2	8676.2	8602.4
5°	10611.0	10523.0	10237.7	9577.6	8999.8	8437.7	7895.4	7577.5	7182.8	6782.5	6683.2
7.5°	9840.2	9747.9	9336.3	8432.0	7654.1	6842.2	6138.1	5702.3	5256.5	4890.3	4695.8
10°	9038.2	8937.4	8474.6	7377.3	6419.1	5685.2	5168.5	4752.6	4331.0	3939.2	3626.9
12.5°	8486.0	8354.0	7851.4	6607.9	5773.2	5275.0	4792.3	4294.1	3723.4	3303.3	2959.7
15°	8254.6	8104.1	7573.2	6311.2	5544.7	4959.9	4331.0	3719.2	3050.6	2569.4	2254.2
17.5°	8433.5	8237.6	7668.3	6291.4	5258.0	4461.6	3666.7	2948.4	2223.0	1736.1	1511.8
20°	9041.0	8784.1	8061.5	6285.7	4910.2	3869.7	2861.8	2049.8	1465.0	1178.2	1060.4
22.5°	9997.8	9658.5	8626.5	6331.1	4551.0	3247.9	2066.8	1392.6	1100.1	951.1	881.5
25°	11153.3	10760.1	9439.9	6491.5	4235.9	2643.2	1501.9	1100.1	928.4	819.1	760.9
27.5°	12252.0	11932.6	10467.6	6722.9	3991.7	2154.9	1219.4	932.6	793.5	721.1	674.3
30°	13349.3	12947.6	11522.4	6998.3	3697.9	1824.1	1071.7	850.3	711.2	634.5	604.7
32.5°	14147.1	13813.5	12348.5	7197.0	3384.2	1608.3	958.2	777.9	664.3	586.3	542.3
35°	15085.4	14707.8	13056.9	7241.0	3182.6	1472.1	861.7	699.8	576.3	506.8	459.9
37.5°	16098.9	15629.1	13874.5	7144.5	3025.0	1405.3	789.3	664.3	538.0	467.0	417.3
40°	17220.4	16689.5	14659.5	7005.4	2870.3	1382.6	733.9	637.4	508.2	435.8	384.7
42.5°	18401.4	17775.4	15339.5	6859.2	2772.4	1304.6	728.2	610.4	485.5	407.4	356.3
45°	19393.7	18759.1	16037.9	6810.9	2702.8	1219.4	752.4	591.9	469.9	384.7	335.0
47.5°	20184.4	19583.9	16753.3	6918.8	2663.0	1141.3	685.6	616.1	461.3	364.8	316.6
50°	21128.3	20448.4	17761.2	7241.0	2604.8	1063.2	620.3	705.5	461.3	352.0	300.9
52.5°	22312.2	21639.4	18885.5	7740.7	2488.4	955.3	557.9	706.9	465.6	335.0	281.1
55°	23801.3	23313.0	20491.0	8288.7	2302.5	796.4	482.6	607.6	448.6	303.8	262.6
57.5°	25229.4	24830.5	21954.5	8663.4	2054.1	621.8	420.2	489.7	410.2	266.9	234.2
59°	25619.8	25184.0	22491.1	8680.5	1868.1	542.3	389.0	404.6	401.7	249.8	217.2
60°	25619.8	25157.0	22645.8	8589.6	1733.3	498.3	369.1	360.6	418.8	238.5	207.3
62.5°	25155.6	24505.4	22143.3	7974.9	1413.9	424.4	322.2	298.1	376.2	214.3	183.1
65°	24190.3	23243.5	20431.4	6863.4	1260.5	389.0	278.2	244.2	261.2	188.8	160.4
67.5°	22580.5	21297.3	17962.8	5544.7	1199.5	379.0	239.9	207.3	197.3	161.8	140.5
70°	19745.7	18321.9	14966.1	4359.4	1147.0	374.8	201.6	174.6	159.0	136.3	119.2
72.5°	14371.4	12886.5	10625.2	3408.3	1115.8	383.3	161.8	146.2	130.6	106.5	92.3
75°	8220.5	7248.1	5972.0	2251.4	951.1	366.2	124.9	122.1	93.7	76.7	63.9
77.5°	4247.2	4118.1	3578.6	864.5	455.7	160.4	82.3	71.0	55.4	46.8	38.3
80°	1832.6	1812.7	1568.6	249.8	120.7	89.4	46.8	29.8	25.6	19.9	15.6
82.5°	633.1	633.1	557.9	83.8	53.9	44.0	5.7	0.0	0.0	0.0	0.0
85°	127.8	143.4	100.8	0.0	18.5	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°	9760.7	9760.7	9760.7	9760.7	9760.7	9760.7	9760.7	9760.7	9760.7	9760.7	9760.7
2.5°	8512.9	8341.2	8329.8	8221.9	8087.1	8026.0	7990.6	8053.0	8129.7	8138.2	8253.2
5°	6607.9	6427.7	6502.9	6311.2	6349.6	6311.2	6248.8	6260.1	6294.2	6187.7	6319.8
7.5°	4640.5	4504.2	4590.8	4539.7	4607.8	4634.8	4596.5	4539.7	4372.2	4352.3	4467.3
10°	3497.7	3343.0	3250.7	3154.2	3175.5	3219.5	3205.3	3164.1	3057.7	3063.4	3174.1
12.5°	2810.7	2637.5	2454.4	2217.3	2159.1	2191.8	2159.1	2135.0	2032.8	2041.3	2139.2
15°	2132.1	1990.2	1798.5	1608.3	1504.7	1514.6	1423.8	1359.9	1296.0	1219.4	1279.0
17.5°	1439.4	1352.8	1296.0	1239.3	1115.8	1087.4	972.4	848.9	800.6	765.1	790.7
20°	1019.2	972.4	949.7	946.8	875.9	840.4	728.2	651.6	627.4	620.3	636.0
22.5°	851.7	817.7	785.0	766.5	731.1	689.9	604.7	566.4	549.4	540.8	552.2
25°	741.0	715.4	681.4	650.1	636.0	591.9	530.9	502.5	491.2	482.6	488.3
27.5°	658.7	636.0	596.2	576.3	565.0	526.6	474.1	451.4	441.5	438.6	437.2
30°	593.4	572.1	535.2	512.5	492.6	458.5	427.3	404.6	394.6	391.8	389.0
32.5°	528.1	511.0	486.9	464.2	442.9	411.7	384.7	366.2	350.6	347.8	346.4
35°	445.7	428.7	415.9	414.5	394.6	364.8	344.9	320.8	308.0	303.8	305.2
37.5°	396.1	373.3	344.9	354.9	349.2	327.9	300.9	276.8	264.0	261.2	261.2
40°	364.8	340.7	308.0	291.0	308.0	303.8	261.2	237.1	224.3	222.9	220.0
42.5°	335.0	310.9	274.0	245.6	254.1	266.9	225.7	203.0	190.2	187.4	183.1
45°	313.7	288.2	247.0	214.3	197.3	224.3	193.1	164.7	157.6	151.9	149.1
47.5°	293.8	269.7	222.9	186.0	157.6	161.8	154.7	134.9	126.3	120.7	119.2
50°	276.8	251.3	201.6	159.0	130.6	119.2	124.9	106.5	99.4	93.7	90.9
52.5°	256.9	232.8	178.9	137.7	109.3	93.7	95.1	83.8	76.7	72.4	71.0
55°	241.3	217.2	160.4	120.7	96.5	76.7	68.1	65.3	61.0	58.2	56.8
57.5°	220.0	197.3	142.0	102.2	82.3	62.5	52.5	52.5	51.1	48.3	46.8
59°	207.3	187.4	130.6	92.3	75.2	53.9	46.8	48.3	46.8	44.0	42.6
60°	197.3	178.9	122.1	85.2	71.0	49.7	42.6	45.4	44.0	41.2	39.7
62.5°	174.6	161.8	105.0	71.0	62.5	39.7	35.5	38.3	38.3	36.9	35.5
65°	153.3	139.1	89.4	59.6	58.2	34.1	28.4	34.1	35.5	32.6	29.8
67.5°	133.4	119.2	78.1	48.3	53.9	27.0	21.3	28.4	38.3	29.8	27.0
70°	113.6	99.4	61.0	38.3	56.8	18.5	17.0	25.6	45.4	32.6	25.6
72.5°	88.0	76.7	42.6	28.4	61.0	12.8	12.8	21.3	51.1	35.5	24.1
75°	61.0	49.7	25.6	17.0	49.7	8.5	8.5	19.9	48.3	32.6	22.7
77.5°	35.5	27.0	8.5	1.4	25.6	0.0	1.4	14.2	34.1	19.9	9.9
80°	12.8	5.7	0.0	0.0	15.6	0.0	0.0	0.0	2.8	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°	9760.7	9760.7	9760.7	9760.7	9760.7	9760.7	9760.7	9760.7	9760.7	9760.7	9760.7
2.5°	8283.0	8474.6	8646.4	8906.2	9214.2	9569.1	9874.3	10202.2	10510.2	10638.0	10726.0
5°	6346.7	6583.8	6860.6	7242.5	7750.7	8376.7	8962.9	9625.9	10338.5	10694.8	11029.8
7.5°	4487.1	4728.5	5072.0	5478.0	6092.6	6837.9	7604.4	8520.0	9485.3	10048.9	10603.9
10°	3226.6	3523.3	3844.1	4399.1	5023.7	5730.7	6519.9	7542.0	8618.0	9242.6	9911.2
12.5°	2196.0	2533.9	3019.3	3641.1	4375.0	5067.7	5753.4	6728.6	7977.8	8596.7	9313.6
15°	1317.3	1504.7	2018.6	2738.3	3638.3	4501.3	5252.3	6230.3	7561.9	8319.9	9065.1
17.5°	812.0	898.6	1178.2	1768.7	2714.1	3805.8	4834.9	6061.4	7621.5	8544.2	9342.0
20°	647.3	681.4	770.8	1044.8	1798.5	3039.2	4365.1	6027.3	8108.4	9244.0	10100.0
22.5°	562.1	594.8	654.4	759.5	1131.4	2275.5	3919.3	6058.6	8806.8	10293.0	11292.4
25°	495.4	523.8	580.6	667.2	829.0	1602.7	3442.4	6197.7	9716.7	11594.8	12656.6
27.5°	442.9	467.0	519.5	599.0	711.2	1118.6	2901.5	6366.6	10795.6	12926.3	13973.9
30°	394.6	415.9	462.8	536.6	617.5	860.2	2308.2	6481.6	11875.8	13973.9	14915.0
32.5°	353.5	369.1	411.7	474.1	536.6	685.6	1754.5	6463.1	12677.9	14845.5	15592.2
35°	310.9	326.5	363.4	417.3	467.0	566.4	1379.8	6118.2	13376.3	15749.7	16367.2
37.5°	264.0	283.9	319.4	367.7	401.7	498.3	1115.8	5702.3	14084.6	16783.2	17231.7
40°	224.3	244.2	275.4	327.9	349.2	472.7	857.4	5195.5	14881.0	17938.7	18180.0
42.5°	186.0	204.4	237.1	282.5	329.3	407.4	634.5	4616.3	15646.1	18926.7	19044.5
45°	150.5	168.9	203.0	248.4	352.0	337.8	491.2	3996.0	16263.6	19748.6	19786.9
47.5°	119.2	136.3	171.8	234.2	327.9	269.7	350.6	3509.1	16781.7	20390.2	20289.4
50°	92.3	106.5	143.4	268.3	286.7	222.9	265.5	3347.3	17245.9	20787.7	20526.5
52.5°	72.4	85.2	117.8	251.3	222.9	184.5	222.9	3499.2	17881.9	21117.0	20659.9
55°	58.2	71.0	92.3	143.4	151.9	156.1	190.2	3641.1	18979.2	21889.2	21447.7
57.5°	48.3	61.0	75.2	100.8	115.0	132.0	168.9	3656.7	20272.4	23172.5	22755.1
59°	44.0	55.4	68.1	89.4	100.8	120.7	159.0	3571.5	20728.0	23639.5	23430.8
60°	41.2	52.5	63.9	82.3	93.7	113.6	153.3	3490.6	20747.9	23622.5	23719.0
62.5°	35.5	46.8	56.8	69.6	79.5	96.5	137.7	3191.1	19907.5	22848.8	23545.8
65°	31.2	41.2	51.1	59.6	68.1	86.6	124.9	2644.6	18472.4	21601.1	22360.5
67.5°	28.4	35.5	46.8	52.5	61.0	76.7	110.7	1885.1	16679.5	20075.1	20567.6
70°	25.6	34.1	42.6	48.3	55.4	66.7	95.1	1083.1	14084.6	17840.7	18191.3
72.5°	24.1	32.6	38.3	45.4	49.7	59.6	86.6	509.6	10312.9	14291.9	15207.5
75°	21.3	29.8	35.5	42.6	46.8	53.9	73.8	244.2	6859.2	10342.7	11383.2
77.5°	12.8	24.1	32.6	38.3	41.2	46.8	61.0	140.5	4377.8	7158.7	8432.0
80°	0.0	8.5	24.1	32.6	35.5	39.7	46.8	110.7	2342.2	4089.7	4908.7
82.5°	0.0	0.0	17.0	25.6	24.1	27.0	35.5	69.6	1056.1	2673.0	3012.3
85°	0.0	0.0	5.7	19.9	17.0	12.8	24.1	24.1	231.4	1352.8	1687.8
87.5°	0.0	0.0	0.0	1.4	8.5	5.7	9.9	2.8	1.4	100.8	408.8
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-SA7B-740-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	9760.7	9760.7	9760.7	9760.7	9760.7	9760.7	9760.7	9760.7	9760.7	9760.7
2.5°	11034.0	11139.1	11316.5	11400.3	11359.1	11184.5	10975.8	10762.9	10638.0	10687.7
5°	11712.6	12253.4	12565.7	12669.3	12496.2	12104.4	11591.9	10916.2	10676.3	10611.0
7.5°	11712.6	12730.4	13374.9	13488.4	13102.3	12334.3	11373.3	10318.6	9968.0	9840.2
10°	11300.9	12686.4	13584.9	13765.2	13225.8	12077.4	10789.9	9586.1	9170.2	9038.2
12.5°	10836.7	12328.7	13275.5	13523.9	13081.0	11821.9	10385.3	9090.7	8601.0	8486.0
15°	10551.4	11888.6	12672.2	12852.5	12665.1	11672.8	10288.8	8941.6	8365.3	8254.6
17.5°	10653.6	11547.9	11830.4	11935.4	12061.8	11620.3	10551.4	9268.1	8538.5	8433.5
20°	11038.3	11188.8	11042.6	11174.6	11515.3	11671.4	11177.4	10057.4	9181.5	9041.0
22.5°	11691.3	11002.8	10592.6	10645.1	11059.6	11840.3	12134.2	11184.5	10173.8	9997.8
25°	12452.2	11153.3	10342.7	10295.9	10721.7	12063.2	13008.6	12411.0	11347.8	11153.3
27.5°	13408.9	11491.1	10291.6	10244.8	10603.9	12271.9	13735.4	13623.3	12584.2	12252.0
30°	14147.1	11823.3	10443.5	10335.6	10721.7	12416.7	14318.8	14652.4	13569.3	13349.3
32.5°	14676.6	12215.1	10690.5	10534.4	11053.9	12666.5	14768.8	15595.0	14480.7	14147.1
35°	15079.7	12641.0	11089.4	10832.5	11511.0	13045.5	15190.4	16598.6	15450.2	15085.4
37.5°	15457.3	13238.6	11712.6	11406.0	12227.9	13655.9	15636.2	17737.1	16534.7	16098.9
40°	15984.0	13915.7	12673.6	12401.1	13433.1	14487.8	16192.6	18923.8	17768.3	17220.4
42.5°	16510.6	14642.5	13657.3	13731.2	14936.3	15498.5	16910.9	20178.7	18986.3	18401.4
45°	16991.8	15392.0	15058.4	15399.1	16331.7	16607.1	17624.9	20904.1	19958.7	19393.7
47.5°	17420.5	16328.9	16451.0	17358.1	17918.8	17610.7	18158.7	21530.1	20682.6	20184.4
50°	17918.8	17541.2	18286.4	19569.7	19745.7	18519.2	18644.2	22271.1	21528.7	21128.3
52.5°	18463.9	18818.8	20319.2	21450.6	21393.8	19505.8	19132.5	23101.5	22688.4	22312.2
55°	19082.8	19850.8	22109.2	23210.8	23162.5	20607.4	19941.6	24127.8	24142.0	23801.3
57.5°	20001.2	20739.4	23324.4	24634.6	24715.5	21879.3	21312.9	25277.6	25456.5	25229.4
59°	20659.9	21315.7	23805.6	25229.4	25558.7	22863.0	22315.1	25944.8	25827.0	25619.8
60°	21148.2	21682.0	24044.1	25540.3	26048.5	23530.2	23054.7	26336.6	25871.0	25619.8
62.5°	22356.2	22479.7	24474.2	25892.3	26612.0	25012.2	25135.7	27003.8	25565.8	25155.6
65°	22919.8	22983.7	24468.5	25262.0	26066.9	26166.3	27023.7	27023.7	24820.6	24190.3
67.5°	22684.2	22376.1	23254.8	23172.5	23975.9	25480.6	27733.4	26032.8	23395.3	22580.5
70°	20767.8	19582.5	19192.1	19227.6	19842.2	22163.2	26328.1	23117.1	20698.2	19745.7
72.5°	17280.0	14436.7	13472.8	14572.9	14733.3	17033.0	22437.2	17409.2	15264.3	14371.4
75°	13898.7	10176.6	8609.5	9770.7	10043.2	12464.9	17356.6	10842.4	8916.1	8220.5
77.5°	9985.0	7304.9	6177.8	6096.9	6448.9	7905.4	12315.9	5456.7	4551.0	4247.2
80°	5672.5	4808.0	5177.0	4884.6	5062.1	4942.8	5851.3	2393.3	1960.4	1832.6
82.5°	3423.9	2841.9	3077.6	2562.3	3242.2	2823.5	2254.2	766.5	665.8	633.1
85°	2227.2	1553.0	809.1	542.3	1117.2	1804.2	503.9	208.7	160.4	127.8
87.5°	768.0	396.1	39.7	17.0	119.2	336.4	18.5	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)