

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: P324293

Luminaire Tested: **GAN-SA9C-827-U-SLL-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P324293
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-SA9C-827-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 2700K, 1050mA 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: 34460 lumens
Efficiency: N/A
Efficacy: 68.8 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

Input Watts (W): 501
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



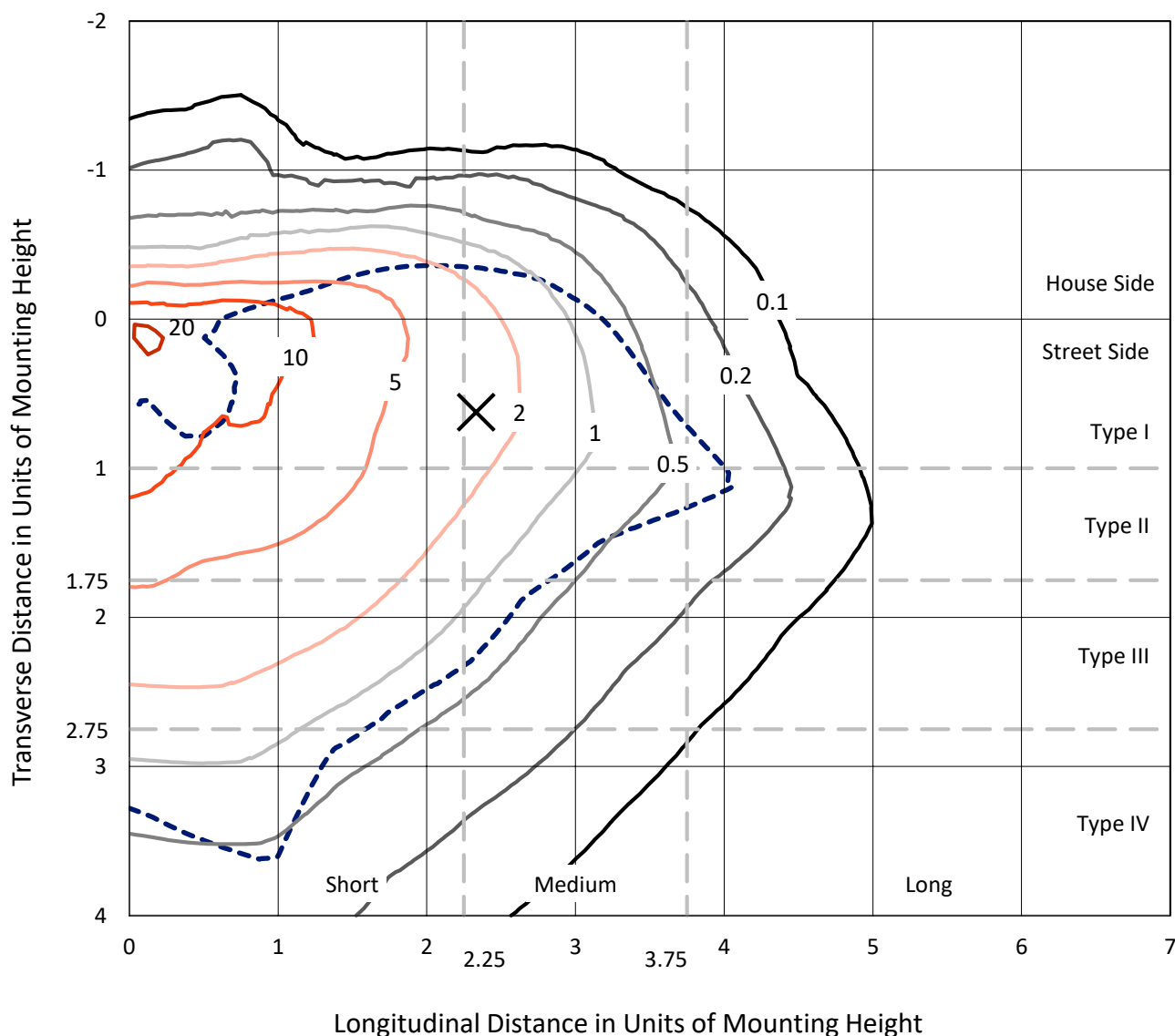
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

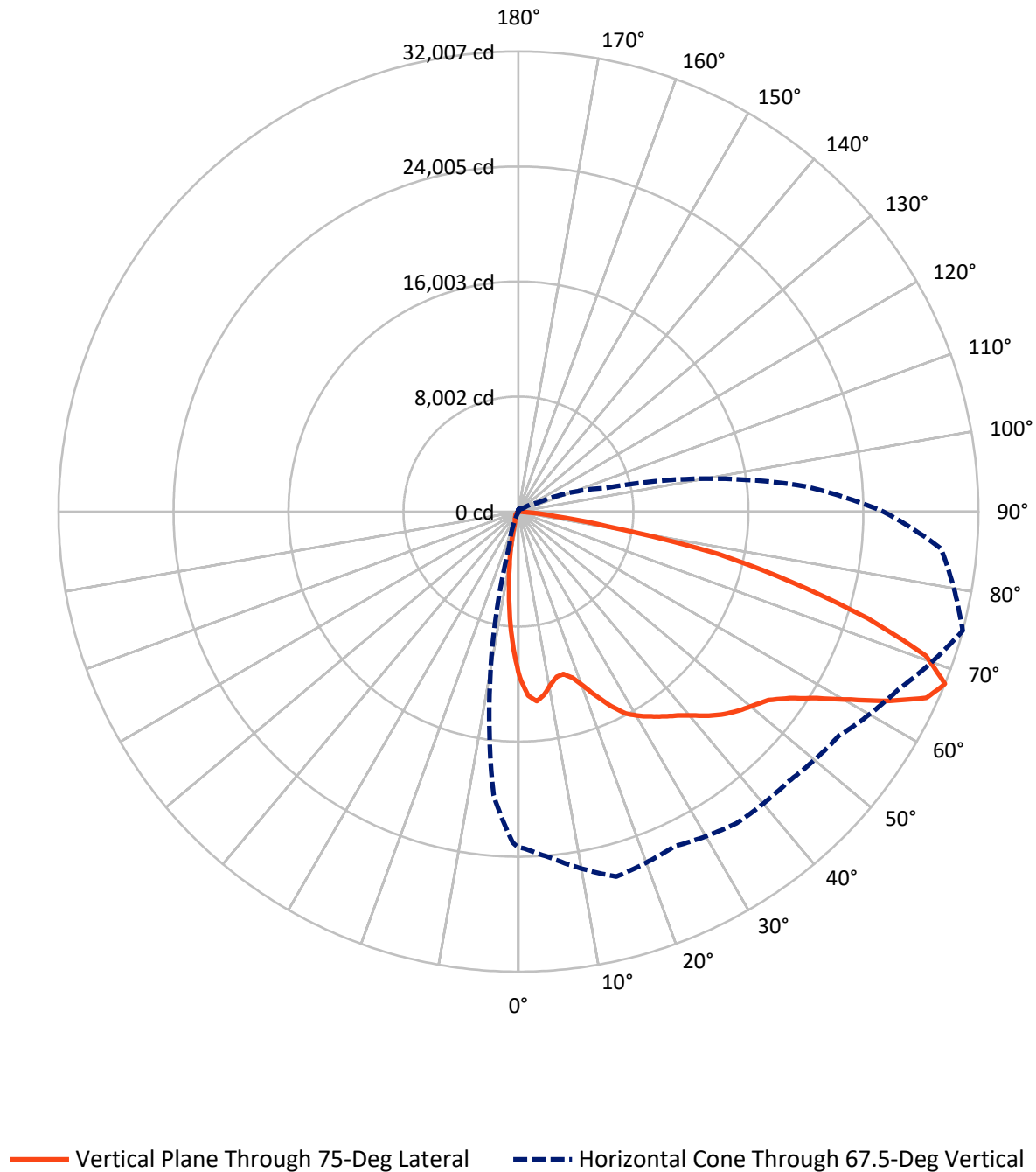
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 24 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5171.1	0.0	5171.1
	% Fixture	15.0	0.0	15.0
Street Side	Lumens	29288.9	0.0	29288.9
	% Fixture	85.0	0.0	85.0
Total	Lumens	34460.0	0.0	34460.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	876.9	2.5
10°-20°	1726.7	5.0
20°-30°	2442.8	7.1
30°-40°	3591.6	10.4
40°-50°	5162.3	15.0
50°-60°	7267.2	21.1
60°-70°	8487.4	24.6
70°-80°	4330.0	12.6
80°-90°	575.2	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°	34460.0	100.0
0°-180°	34460.0	100.0

Coefficient of Utilization



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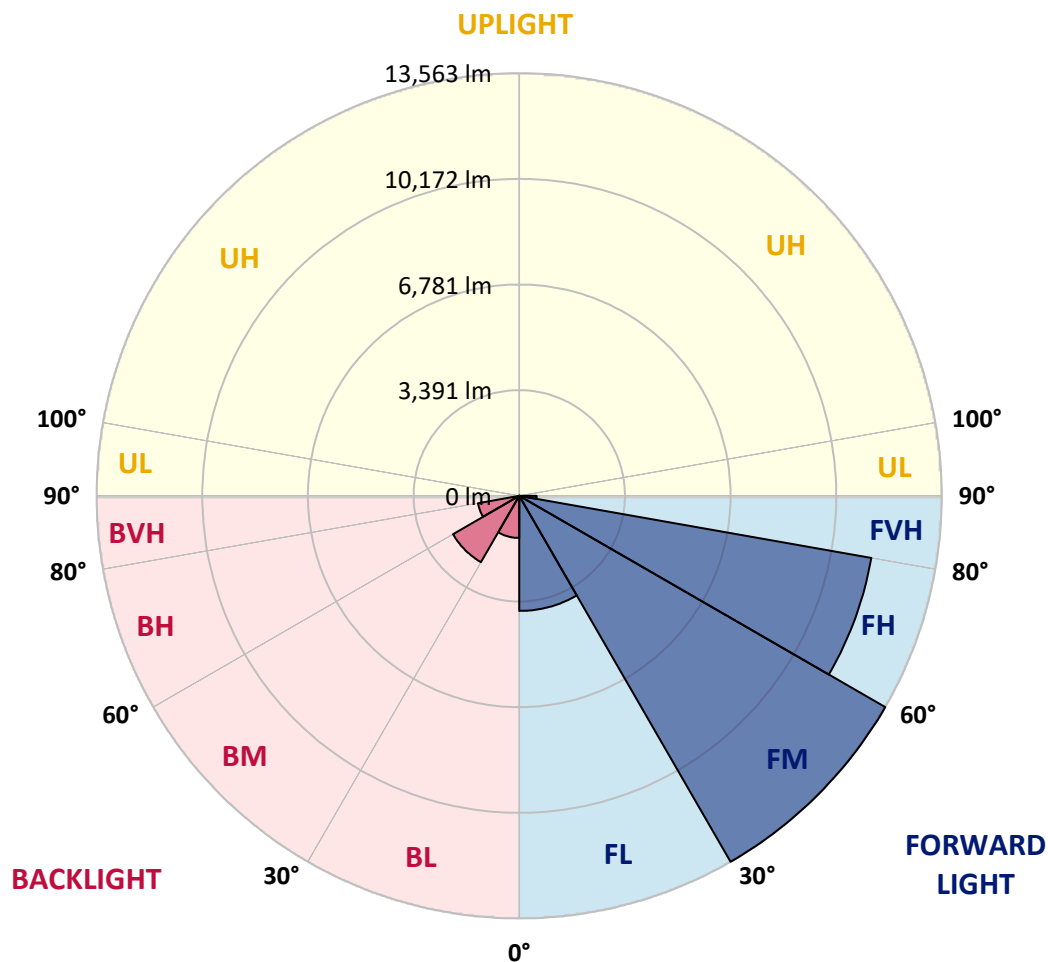
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3694.1	10.7			
FM	(30°-60°)	13562.8	39.4			
FH	(60°-80°)	11474.2	33.3			G4/12000
FVH	(80°-90°)	557.8	1.6			G4/750
BL	(0°-30°)	1352.3	3.9	B3/2500		
BM	(30°-60°)	2458.2	7.1	B2/2500		
BH	(60°-80°)	1343.2	3.9	B3/2500		G3/2500
BVH	(80°-90°)	17.4	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: 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°	11560.7	11560.7	11560.7	11560.7	11560.7	11560.7	11560.7	11560.7	11560.7	11560.7	11560.7
2.5°	12532.0	12551.6	12652.8	12887.9	13144.2	13163.8	13336.8	13158.9	13098.5	12811.2	12514.1
5°	12626.7	12701.8	13049.5	13740.0	14339.1	14531.7	14668.9	14319.5	13952.2	13250.3	12501.0
7.5°	11864.4	11990.1	12536.9	13833.1	14903.9	15377.3	15467.1	14920.2	14020.8	12865.0	11738.7
10°	10888.2	11031.8	11691.3	13284.6	14755.4	15566.7	15690.7	14974.1	13681.2	12241.5	10914.3
12.5°	10098.1	10266.2	10940.4	12667.5	14244.4	15142.3	15387.1	14792.9	13387.4	11799.1	10351.1
15°	9734.1	9926.7	10635.2	12269.2	13678.0	14384.8	14587.2	14330.9	13224.2	11728.9	10220.5
17.5°	9943.0	10152.0	10883.3	12303.5	13145.8	13447.8	13611.0	13715.5	13224.2	12151.7	10602.5
20°	10800.0	11025.3	11799.1	12651.2	12705.1	12592.4	12767.1	13134.4	13377.6	12954.8	11519.9
22.5°	11985.2	12249.6	13123.0	13247.0	12489.6	12063.5	12086.4	12662.6	13656.8	13973.4	12793.2
25°	13429.9	13753.1	14641.1	14135.1	12579.4	11748.5	11740.3	12274.1	13929.4	14993.7	14211.8
27.5°	14864.7	15220.6	16000.9	15219.0	12949.9	11691.3	11675.0	12156.6	14195.5	15901.3	15760.9
30°	16067.8	16413.9	17086.5	16004.2	13349.9	11825.2	11746.8	12282.3	14353.8	16490.6	16890.6
32.5°	17047.3	17324.8	17868.4	16544.5	13777.6	12084.7	11915.0	12618.5	14623.1	16988.5	17928.8
35°	18124.7	18416.9	18634.0	17058.7	14257.5	12458.6	12215.3	13152.3	15037.8	17494.6	19066.6
37.5°	19353.9	19644.4	19618.3	17528.8	14866.4	13077.3	12922.2	13997.9	15682.6	17995.7	20336.6
40°	20557.0	20854.1	20641.8	18043.0	15581.4	14097.5	13983.2	15267.9	16546.1	18637.2	21825.3
42.5°	21683.3	22004.9	21551.1	18529.5	16433.5	15383.8	15579.7	16903.6	17626.8	19427.3	23108.4
45°	22590.9	22919.1	22313.4	19002.9	17331.3	16944.4	17533.7	18715.6	18926.2	20095.0	23975.2
47.5°	23250.4	23560.6	22842.3	19476.3	18480.5	18852.7	19879.5	20615.7	20099.9	20674.5	24590.7
50°	23671.6	23913.2	22997.4	20068.9	19988.9	21079.3	22323.2	22682.4	21205.0	21196.9	25338.3
52.5°	23939.3	24048.7	23111.7	20687.6	21562.5	23503.5	24716.3	24829.0	22342.8	21771.5	26345.5
55°	24861.6	24949.8	23921.4	21436.8	22863.6	25627.2	26880.9	26776.5	23630.8	22896.2	27533.9
57.5°	26435.3	26528.3	25594.6	22514.2	23916.5	26939.7	28449.7	28637.4	25140.8	24476.4	28807.2
60°	27225.4	27398.4	27065.4	23878.9	24936.7	27778.8	29518.9	30118.0	27027.8	26559.3	30041.3
62.5°	26508.7	26760.1	27243.3	25392.2	25950.5	28240.7	29851.9	30648.5	28960.6	28986.7	30802.0
65°	25078.7	25279.5	26099.0	26221.4	26538.1	28183.6	29029.2	29907.4	30144.1	31216.6	30761.2
67.5°	23351.7	23426.7	24122.1	26286.7	25686.0	26466.3	26557.7	27207.4	29208.7	32006.7	29525.4
70°	20865.5	20906.3	21513.6	24100.9	22073.5	22244.9	22109.4	22241.6	25111.4	30082.1	26405.9
72.5°	16792.6	16895.5	17759.0	20015.0	16080.9	15586.3	16650.6	16591.8	19339.2	25415.0	19611.8
75°	12363.9	12541.8	13846.1	16121.7	11286.5	10209.1	10986.1	11193.4	13748.2	19659.1	12264.3
77.5°	8656.7	8788.9	10052.4	11851.3	8168.6	7300.1	7019.4	7265.9	9074.6	14221.6	6178.7
80°	4987.0	5036.0	5842.4	6843.1	5504.5	6297.8	5705.3	5875.1	5437.6	6327.2	2657.6
82.5°	3263.2	3271.4	3586.4	4072.9	3428.1	3983.1	2948.1	3769.2	3344.8	2541.7	865.2
85°	1763.0	1772.8	2079.7	2891.0	1940.9	1097.0	644.8	1323.9	2068.3	582.8	236.7
87.5°	194.3	177.9	626.8	1051.3	538.7	99.6	34.3	148.5	331.4	37.5	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°	11560.7	11560.7	11560.7	11560.7	11560.7	11560.7	11560.7	11560.7	11560.7	11560.7	11560.7
2.5°	12362.3	12226.8	11888.9	11531.4	11244.1	10974.7	10703.7	10372.3	10116.1	10063.8	9978.9
5°	12097.8	11668.5	10960.0	10248.3	9675.3	8952.1	8493.4	8135.9	7786.6	7765.4	7695.2
7.5°	11173.9	10609.0	9611.6	8627.3	7820.9	7132.0	6436.6	5971.4	5605.7	5476.7	5400.0
10°	10285.8	9650.8	8405.3	7282.2	6562.3	5953.4	5463.7	4977.2	4536.5	4232.8	4095.7
12.5°	9665.5	8963.6	7590.7	6622.7	6106.9	5529.0	4931.5	4324.3	3816.6	3450.9	3227.3
15°	9425.5	8676.3	7318.1	6361.5	5724.9	4993.5	4229.6	3535.8	2972.6	2641.2	2440.5
17.5°	9711.2	8839.5	7296.9	6043.2	5153.5	4244.3	3400.3	2580.8	2050.3	1798.9	1670.0
20°	10436.0	9358.6	7288.7	5653.0	4474.4	3356.2	2303.3	1697.7	1376.1	1235.7	1175.3
22.5°	11461.2	10021.4	7354.0	5267.8	3767.6	2398.0	1590.0	1247.2	1082.3	1007.2	972.9
25°	12780.2	10951.9	7538.5	4918.5	3103.2	1789.1	1239.0	1044.7	928.8	870.1	845.6
27.5°	14185.7	12022.7	7825.8	4614.8	2562.9	1426.7	1061.1	894.6	811.3	770.5	747.6
30°	15344.7	13263.3	8116.4	4276.9	2171.1	1243.9	971.3	816.2	719.9	693.8	672.6
32.5°	16358.4	14202.0	8322.0	3971.7	1914.8	1105.1	878.2	729.7	664.4	613.8	590.9
35°	17408.0	14983.9	8315.5	3757.8	1738.5	1000.7	799.9	653.0	574.6	515.8	497.9
37.5°	18544.2	15867.0	8173.5	3575.0	1661.8	917.4	755.8	612.2	533.8	475.0	452.2
40°	19874.6	16794.3	8028.2	3403.6	1640.6	850.5	724.8	579.5	496.3	439.1	416.3
42.5°	21170.7	17630.0	7900.9	3276.3	1549.2	848.9	697.0	555.0	466.9	411.4	385.2
45°	22207.3	18408.7	7876.4	3199.5	1452.8	878.2	682.3	538.7	444.0	388.5	364.0
47.5°	23069.2	19254.3	8033.1	3145.7	1361.4	801.5	718.3	527.3	422.8	368.9	341.2
50°	24094.4	20292.5	8402.0	3057.5	1265.1	721.5	822.7	530.5	404.8	349.3	320.0
52.5°	25524.4	21729.0	8944.0	2909.0	1132.9	648.1	809.7	533.8	385.2	328.1	298.7
55°	27127.4	23523.1	9526.8	2662.5	948.4	551.8	693.8	510.9	347.7	305.3	277.5
57.5°	28812.1	25150.6	9872.8	2368.6	754.2	476.7	555.0	465.2	306.9	274.2	256.3
60°	29076.5	25769.3	9714.5	2007.9	599.1	414.6	411.4	473.4	274.2	241.6	228.5
62.5°	28418.7	24992.2	8948.9	1686.3	501.2	364.0	337.9	413.0	248.1	215.5	202.4
65°	27153.5	22891.3	7708.2	1519.8	465.2	311.8	280.8	290.6	217.1	187.7	176.3
67.5°	25393.8	20086.8	6328.9	1425.1	460.3	267.7	240.0	220.4	187.7	163.2	153.4
70°	21796.0	16733.9	5049.0	1372.9	447.3	225.3	202.4	179.6	156.7	138.8	130.6
72.5°	16041.7	11857.8	3927.6	1315.7	450.5	179.6	176.3	148.5	125.7	107.7	104.5
75°	9268.8	6774.5	2575.9	1066.0	429.3	138.8	146.9	104.5	88.2	75.1	75.1
77.5°	4939.7	4131.6	981.1	444.0	156.7	88.2	83.3	62.0	55.5	45.7	44.1
80°	2153.2	1818.5	295.5	124.1	86.5	47.3	31.0	27.8	24.5	19.6	18.0
82.5°	762.3	657.9	96.3	60.4	37.5	0.0	0.0	0.0	0.0	0.0	0.0
85°	173.0	124.1	0.0	14.7	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°	11560.7	11560.7	11560.7	11560.7	11560.7	11560.7	11560.7	11560.7	11560.7	11560.7	11560.7
2.5°	9805.9	9770.0	9557.8	9565.9	9603.5	9657.3	9530.0	9588.8	9747.1	9898.9	9956.1
5°	7582.6	7590.7	7461.8	7541.7	7613.6	7662.5	7456.9	7460.1	7585.8	7757.2	7847.0
7.5°	5342.9	5329.8	5336.4	5527.3	5662.8	5564.9	5641.6	5375.5	5391.9	5514.3	5422.9
10°	3971.7	3792.1	3690.9	3834.5	3983.1	3929.2	3797.0	3710.5	3770.9	3906.4	3896.6
12.5°	3121.2	2863.3	2711.4	2608.6	2731.0	2629.8	2626.6	2551.5	2469.8	2484.5	2701.6
15°	2347.4	2159.7	1980.1	1815.2	1812.0	1777.7	1603.0	1407.1	1390.8	1400.6	1513.2
17.5°	1614.5	1550.8	1477.3	1335.3	1297.8	1154.1	984.3	906.0	866.8	884.8	922.3
20°	1134.5	1110.0	1118.2	1041.5	987.6	850.5	750.9	719.9	713.4	731.3	749.3
22.5°	940.3	896.2	891.3	857.0	803.1	703.6	649.7	631.7	623.6	639.9	653.0
25°	822.7	778.7	760.7	739.5	682.3	613.8	581.1	564.8	556.7	566.4	574.6
27.5°	724.8	684.0	667.7	653.0	597.5	548.5	522.4	507.7	501.2	504.4	512.6
30°	651.3	615.4	594.2	576.2	528.9	494.6	471.8	457.1	450.5	450.5	458.7
32.5°	574.6	555.0	535.4	512.6	468.5	445.6	422.8	406.5	399.9	401.6	408.1
35°	478.3	471.8	476.7	455.4	417.9	398.3	375.5	357.5	352.6	354.2	360.8
37.5°	424.4	395.0	413.0	401.6	380.4	354.2	324.8	308.5	300.4	305.3	308.5
40°	390.1	354.2	341.2	352.6	349.3	306.9	280.8	264.5	257.9	259.6	262.8
42.5°	360.8	318.3	288.9	287.3	306.9	267.7	240.0	225.3	217.1	217.1	220.4
45°	333.0	287.3	251.4	223.6	257.9	226.9	200.8	187.7	177.9	177.9	179.6
47.5°	311.8	261.2	218.7	182.8	194.3	186.1	164.9	151.8	142.0	142.0	143.7
50°	292.2	235.1	189.4	153.4	145.3	153.4	133.9	119.2	112.6	111.0	114.3
52.5°	271.0	208.9	161.6	130.6	114.3	115.9	104.5	94.7	86.5	86.5	89.8
55°	249.8	187.7	140.4	111.0	94.7	86.5	83.3	76.7	70.2	70.2	73.5
57.5°	228.5	164.9	119.2	91.4	75.1	68.6	68.6	63.7	58.8	58.8	62.0
60°	208.9	142.0	97.9	75.1	58.8	57.1	58.8	53.9	50.6	50.6	53.9
62.5°	186.1	120.8	80.0	62.0	47.3	45.7	50.6	47.3	44.1	44.1	47.3
65°	158.3	102.8	63.7	47.3	35.9	35.9	42.4	39.2	35.9	35.9	39.2
67.5°	133.9	86.5	49.0	34.3	26.1	27.8	35.9	32.6	31.0	31.0	34.3
70°	111.0	66.9	34.3	21.2	14.7	21.2	27.8	27.8	27.8	27.8	31.0
72.5°	83.3	45.7	19.6	8.2	6.5	14.7	22.9	26.1	24.5	24.5	29.4
75°	53.9	26.1	6.5	0.0	0.0	8.2	18.0	21.2	21.2	19.6	24.5
77.5°	31.0	8.2	0.0	0.0	0.0	0.0	11.4	9.8	8.2	6.5	11.4
80°	8.2	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



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CATALOG NUMBER: GAN-SA9C-827-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	11560.7	11560.7	11560.7	11560.7	11560.7	11560.7	11560.7	11560.7	11560.7	11560.7
2.5°	10186.2	10378.9	10649.9	10937.2	11379.5	11730.5	12075.0	12370.4	12484.7	12532.0
5°	8062.5	8344.9	8741.6	9250.9	10049.1	10767.4	11495.4	12228.4	12546.7	12626.7
7.5°	5785.3	6146.0	6650.4	7288.7	8224.1	9154.6	10171.6	11247.3	11740.3	11864.4
10°	4281.8	4722.6	5300.4	5973.0	6865.9	7822.5	8930.9	10160.1	10723.3	10888.2
12.5°	3037.9	3633.7	4407.5	5225.4	5999.1	6852.9	7974.3	9329.2	9920.2	10098.1
15°	1784.2	2360.5	3276.3	4371.6	5362.5	6227.7	7367.1	8903.2	9554.5	9734.1
17.5°	1023.5	1310.8	2003.0	3224.0	4569.1	5767.3	7176.1	9009.3	9776.5	9943.0
20°	781.9	873.3	1154.1	2076.4	3641.9	5315.1	7176.1	9610.0	10555.2	10800.0
22.5°	684.0	750.9	865.2	1239.0	2680.4	4830.3	7259.3	10478.5	11714.2	11985.2
25°	607.3	667.7	765.6	932.1	1828.3	4254.1	7456.9	11544.4	13078.9	13429.9
27.5°	543.6	600.7	688.9	816.2	1250.4	3558.7	7722.9	12794.8	14584.0	14864.7
30°	486.5	540.3	620.3	710.1	964.8	2770.2	7949.8	13973.4	15765.8	16067.8
32.5°	432.6	481.6	553.4	620.3	790.1	2048.7	7974.3	14907.2	16746.9	17047.3
35°	382.0	426.1	491.4	543.6	654.6	1617.7	7594.0	15716.9	17728.0	18124.7
37.5°	333.0	375.5	432.6	471.8	576.2	1319.0	7012.8	16619.6	18986.6	19353.9
40°	287.3	324.8	383.6	409.7	545.2	1013.7	6381.1	17566.4	20220.7	20557.0
42.5°	244.9	280.8	337.9	388.5	478.3	757.4	5698.7	18454.4	21330.7	21683.3
45°	204.1	241.6	298.7	411.4	396.7	566.4	4969.1	19043.7	22207.3	22590.9
47.5°	164.9	207.3	285.7	391.8	316.7	416.3	4391.2	19602.0	22871.7	23250.4
50°	132.2	174.7	321.6	349.3	259.6	318.3	4149.6	20101.5	23307.6	23671.6
52.5°	107.7	146.9	303.6	267.7	217.1	262.8	4280.2	20911.2	23710.8	23939.3
55°	89.8	115.9	182.8	186.1	184.5	223.6	4441.8	22073.5	24753.9	24861.6
57.5°	78.4	93.0	127.3	143.7	155.1	199.2	4445.1	23741.8	26368.3	26435.3
60°	66.9	81.6	106.1	115.9	133.9	177.9	4283.4	24324.6	27003.4	27225.4
62.5°	58.8	71.8	88.2	96.3	112.6	160.0	3904.7	23480.6	26131.6	26508.7
65°	52.2	65.3	73.5	81.6	99.6	143.7	3281.1	21792.7	24685.3	25078.7
67.5°	45.7	57.1	65.3	73.5	89.8	127.3	2416.0	19832.2	23025.2	23351.7
70°	40.8	50.6	58.8	65.3	78.4	107.7	1465.9	16828.5	20730.0	20865.5
72.5°	39.2	45.7	53.9	58.8	68.6	94.7	742.7	12367.2	16572.2	16792.6
75°	34.3	40.8	49.0	52.2	60.4	81.6	302.0	8122.9	12009.7	12363.9
77.5°	27.8	37.5	44.1	47.3	52.2	66.9	153.4	5191.1	8428.1	8656.7
80°	9.8	27.8	37.5	39.2	44.1	49.0	101.2	2842.0	4889.1	4987.0
82.5°	0.0	18.0	29.4	27.8	31.0	37.5	65.3	1351.6	3227.3	3263.2
85°	0.0	8.2	22.9	18.0	13.1	26.1	22.9	295.5	1692.8	1763.0
87.5°	0.0	0.0	1.6	8.2	6.5	9.8	3.3	1.6	153.4	194.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)