

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: P324331

Luminaire Tested: **GAN-SA7C-830-U-SLL-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P324331
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-SA7C-830-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 3000K, 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: 29473 lumens
Efficiency: N/A
Efficacy: 75.4 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

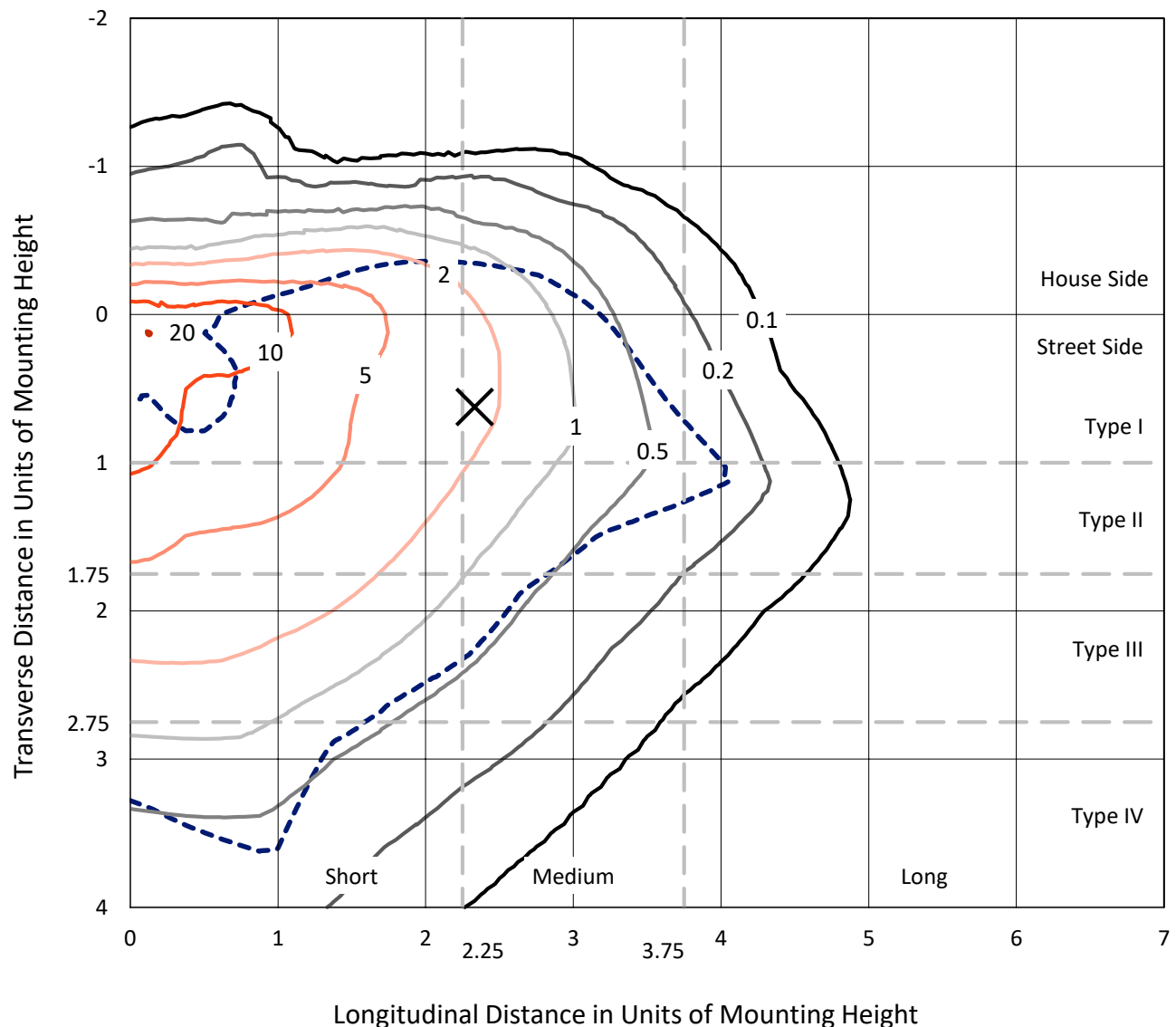
Input Watts (W): 391
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

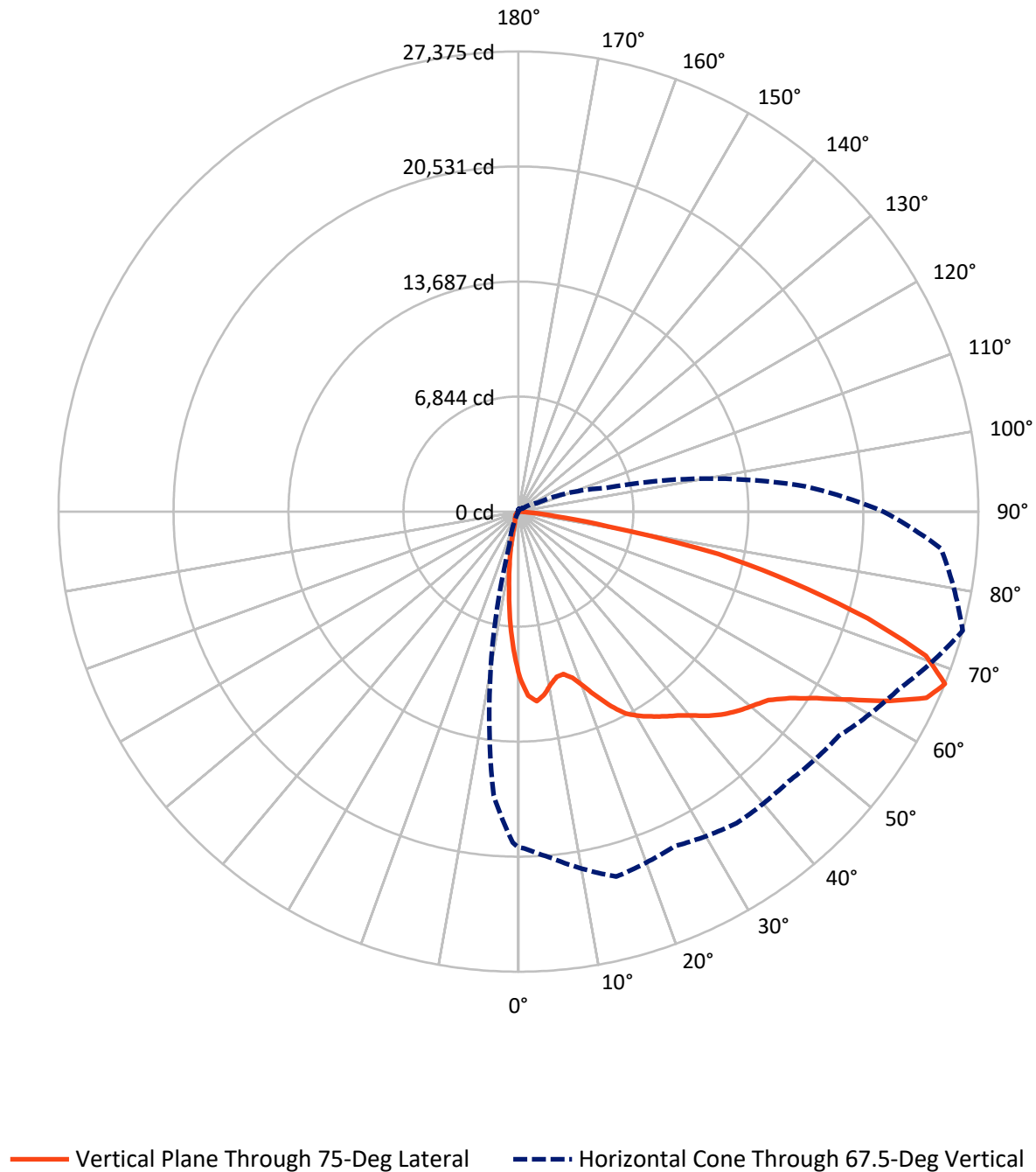
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 20.5 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	4422.7	0.0	4422.7
	% Fixture	15.0	0.0	15.0
Street Side	Lumens	25050.3	0.0	25050.3
	% Fixture	85.0	0.0	85.0
Total	Lumens	29473.0	0.0	29473.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	750.0	2.5
10°-20°	1476.8	5.0
20°-30°	2089.3	7.1
30°-40°	3071.8	10.4
40°-50°	4415.2	15.0
50°-60°	6215.5	21.1
60°-70°	7259.1	24.6
70°-80°	3703.4	12.6
80°-90°	492.0	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°	29473.0	100.0
0°-180°	29473.0	100.0

Coefficient of Utilization



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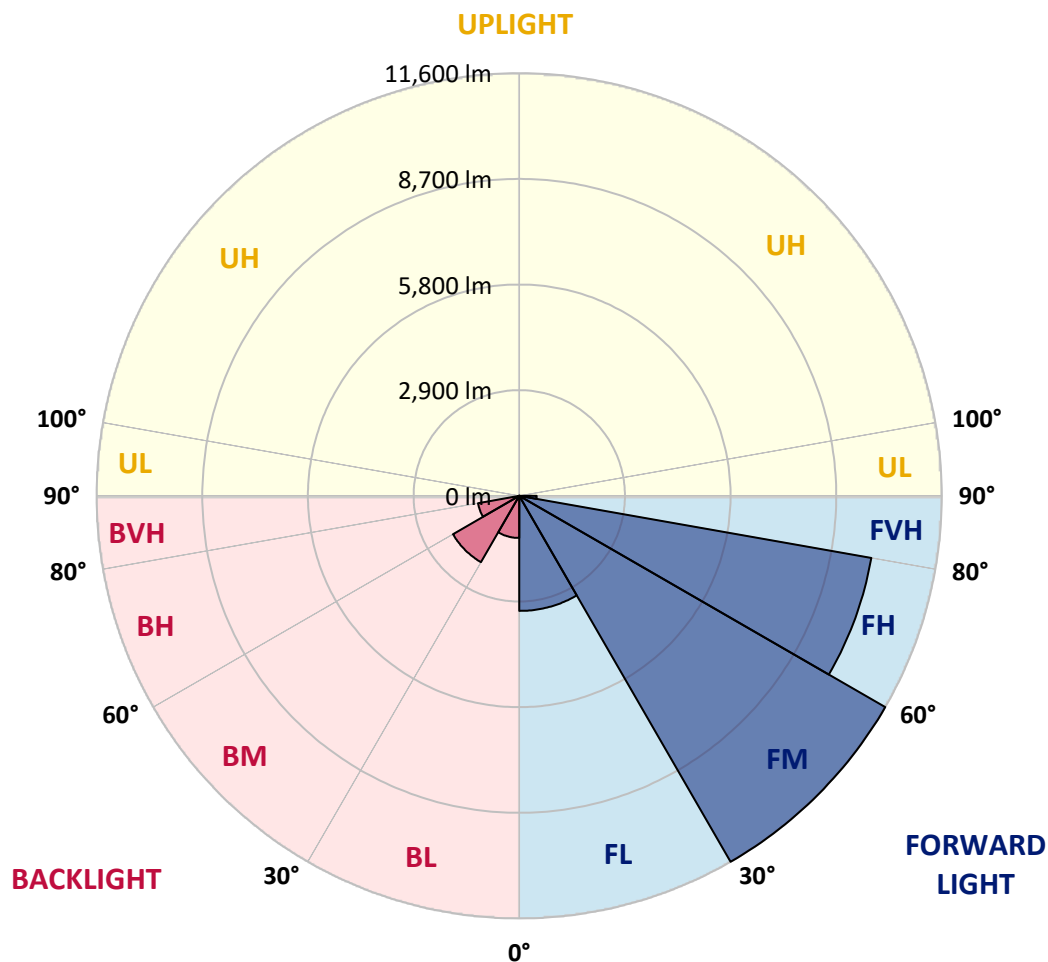
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3159.5	10.7			
FM	(30°-60°)	11600.1	39.4			
FH	(60°-80°)	9813.7	33.3			G4/12000
FVH	(80°-90°)	477.0	1.6			G3/500
BL	(0°-30°)	1156.6	3.9	B3/2500		
BM	(30°-60°)	2102.4	7.1	B2/2500		
BH	(60°-80°)	1148.8	3.9	B3/2500		G3/2500
BVH	(80°-90°)	14.9	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°	9887.7	9887.7	9887.7	9887.7	9887.7	9887.7	9887.7	9887.7	9887.7	9887.7	9887.7
2.5°	10718.4	10735.2	10821.7	11022.8	11242.0	11258.7	11406.7	11254.5	11202.9	10957.2	10703.1
5°	10799.4	10863.6	11161.0	11751.6	12264.0	12428.7	12546.0	12247.2	11933.1	11332.7	10691.9
7.5°	10147.4	10254.9	10722.6	11831.2	12747.0	13151.9	13228.7	12761.0	11991.7	11003.2	10039.9
10°	9312.5	9435.3	9999.4	11362.0	12620.0	13313.9	13420.0	12807.1	11701.3	10469.9	9334.8
12.5°	8636.7	8780.5	9357.1	10834.3	12183.0	12950.9	13160.3	12652.1	11450.0	10091.5	8853.1
15°	8325.4	8490.1	9096.1	10493.6	11698.5	12303.1	12476.2	12257.0	11310.4	10031.5	8741.4
17.5°	8504.1	8682.8	9308.3	10522.9	11243.4	11501.7	11641.3	11730.6	11310.4	10393.1	9068.1
20°	9237.1	9429.7	10091.5	10820.3	10866.4	10770.1	10919.5	11233.6	11441.6	11080.0	9852.8
22.5°	10250.7	10476.9	11223.8	11329.9	10682.1	10317.7	10337.3	10830.1	11680.4	11951.2	10941.8
25°	11486.3	11762.7	12522.3	12089.5	10758.9	10048.2	10041.3	10497.8	11913.5	12823.8	12155.1
27.5°	12713.5	13017.9	13685.3	13016.5	11075.8	9999.4	9985.4	10397.3	12141.1	13600.1	13480.0
30°	13742.5	14038.5	14613.7	13688.1	11417.9	10113.9	10046.9	10504.8	12276.5	14104.1	14446.2
32.5°	14580.2	14817.6	15282.5	14150.2	11783.7	10335.9	10190.7	10792.4	12506.9	14530.0	15334.2
35°	15501.7	15751.6	15937.3	14590.0	12194.2	10655.6	10447.6	11249.0	12861.5	14962.8	16307.3
37.5°	16553.0	16801.5	16779.2	14992.1	12714.9	11184.7	11052.1	11972.2	13413.0	15391.4	17393.5
40°	17582.0	17836.1	17654.6	15431.9	13326.5	12057.3	11959.6	13058.4	14151.6	15940.1	18666.8
42.5°	18545.3	18820.4	18432.3	15847.9	14055.3	13157.5	13325.1	14457.4	15075.9	16615.8	19764.2
45°	19321.6	19602.2	19084.3	16252.8	14823.2	14492.3	14996.3	16007.1	16187.2	17186.9	20505.6
47.5°	19885.7	20150.9	19536.6	16657.7	15806.1	16124.4	17002.6	17632.3	17191.1	17682.5	21031.9
50°	20245.9	20452.5	19669.3	17164.5	17096.1	18028.8	19092.6	19399.8	18136.3	18129.3	21671.4
52.5°	20474.9	20568.4	19767.0	17693.7	18442.0	20102.1	21139.4	21235.8	19109.4	18620.7	22532.8
55°	21263.7	21339.1	20459.5	18334.5	19554.8	21918.5	22990.8	22901.4	20211.0	19582.7	23549.2
57.5°	22609.6	22689.2	21890.6	19256.0	20455.3	23041.0	24332.5	24493.0	21502.4	20934.2	24638.2
60°	23285.4	23433.3	23148.5	20423.2	21327.9	23758.7	25247.0	25759.4	23116.4	22715.7	25693.7
62.5°	22672.4	22887.4	23300.7	21717.4	22194.9	24153.8	25531.8	26213.1	24769.5	24791.8	26344.4
65°	21449.4	21621.1	22322.0	22426.7	22697.6	24104.9	24828.1	25579.3	25781.7	26699.0	26309.5
67.5°	19972.2	20036.5	20631.2	22482.6	21968.8	22636.1	22714.3	23270.0	24981.7	27374.7	25252.6
70°	17845.9	17880.8	18400.1	20613.1	18879.0	19025.6	18909.7	19022.8	21477.3	25728.7	22584.5
72.5°	14362.4	14450.4	15189.0	17118.5	13753.7	13330.6	14241.0	14190.7	16540.4	21737.0	16773.6
75°	10574.6	10726.8	11842.3	13788.6	9653.1	8731.7	9396.2	9573.5	11758.6	16814.1	10489.4
77.5°	7403.9	7517.0	8597.6	10136.2	6986.4	6243.7	6003.5	6214.4	7761.3	12163.4	5284.5
80°	4265.3	4307.2	4996.9	5852.8	4707.9	5386.4	4879.6	5024.8	4650.6	5411.6	2273.0
82.5°	2790.9	2797.9	3067.4	3483.4	2932.0	3406.7	2521.5	3223.8	2860.8	2173.8	740.0
85°	1507.9	1516.2	1778.7	2472.6	1660.0	938.2	551.5	1132.3	1768.9	498.4	202.4
87.5°	166.1	152.2	536.1	899.1	460.7	85.2	29.3	127.1	283.4	32.1	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°	9887.7	9887.7	9887.7	9887.7	9887.7	9887.7	9887.7	9887.7	9887.7	9887.7	9887.7
2.5°	10573.2	10457.3	10168.3	9862.6	9616.8	9386.5	9154.7	8871.3	8652.1	8607.4	8534.8
5°	10347.0	9979.8	9373.9	8765.2	8275.1	7656.6	7264.3	6958.5	6659.7	6641.6	6581.6
7.5°	9556.8	9073.7	8220.7	7378.8	6689.1	6099.9	5505.1	5107.2	4794.5	4684.2	4618.5
10°	8797.3	8254.2	7188.9	6228.3	5612.6	5091.8	4673.0	4256.9	3880.0	3620.3	3503.0
12.5°	8266.7	7666.4	6492.2	5664.3	5223.1	4728.8	4217.8	3698.5	3264.2	2951.5	2760.2
15°	8061.5	7420.7	6259.0	5440.9	4896.4	4270.9	3617.5	3024.1	2542.4	2259.0	2087.3
17.5°	8305.8	7560.3	6240.9	5168.6	4407.7	3630.0	2908.2	2207.3	1753.6	1538.6	1428.3
20°	8925.7	8004.3	6233.9	4834.9	3826.9	2870.5	1970.0	1452.0	1177.0	1056.9	1005.2
22.5°	9802.5	8571.1	6289.8	4505.4	3222.4	2051.0	1359.9	1066.7	925.7	861.4	832.1
25°	10930.6	9366.9	6447.5	4206.7	2654.1	1530.2	1059.7	893.5	794.4	744.2	723.2
27.5°	12132.7	10282.8	6693.2	3947.0	2192.0	1220.3	907.5	765.1	693.9	659.0	639.4
30°	13124.0	11343.9	6941.8	3658.0	1856.9	1063.9	830.7	698.1	615.7	593.4	575.2
32.5°	13991.0	12146.7	7117.7	3396.9	1637.7	945.2	751.1	624.1	568.2	525.0	505.4
35°	14888.8	12815.5	7112.1	3214.0	1486.9	855.9	684.1	558.5	491.5	441.2	425.8
37.5°	15860.5	13570.8	6990.6	3057.6	1421.3	784.6	646.4	523.6	456.5	406.3	386.7
40°	16998.4	14363.8	6866.4	2911.0	1403.2	727.4	619.9	495.6	424.4	375.6	356.0
42.5°	18106.9	15078.7	6757.5	2802.1	1325.0	726.0	596.2	474.7	399.3	351.8	329.5
45°	18993.5	15744.6	6736.5	2736.5	1242.6	751.1	583.6	460.7	379.8	332.3	311.3
47.5°	19730.7	16467.8	6870.6	2690.4	1164.4	685.5	614.3	451.0	361.6	315.5	291.8
50°	20607.5	17355.8	7186.1	2615.0	1082.0	617.1	703.7	453.8	346.3	298.8	273.6
52.5°	21830.5	18584.4	7649.6	2488.0	968.9	554.3	692.5	456.5	329.5	280.6	255.5
55°	23201.6	20118.8	8148.1	2277.2	811.2	471.9	593.4	437.0	297.4	261.1	237.3
57.5°	24642.4	21510.8	8444.0	2025.8	645.0	407.7	474.7	397.9	262.5	234.6	219.2
60°	24868.6	22040.0	8308.6	1717.3	512.4	354.6	351.8	404.9	234.6	206.6	195.5
62.5°	24306.0	21375.4	7653.8	1442.2	428.6	311.3	289.0	353.2	212.2	184.3	173.1
65°	23223.9	19578.5	6592.7	1299.8	397.9	266.7	240.1	248.5	185.7	160.6	150.8
67.5°	21718.8	17179.9	5413.0	1218.9	393.7	229.0	205.2	188.5	160.6	139.6	131.2
70°	18641.7	14312.2	4318.4	1174.2	382.6	192.7	173.1	153.6	134.0	118.7	111.7
72.5°	13720.2	10141.8	3359.2	1125.3	385.3	153.6	150.8	127.1	107.5	92.1	89.4
75°	7927.5	5794.1	2203.2	911.7	367.2	118.7	125.7	89.4	75.4	64.2	64.2
77.5°	4224.8	3533.7	839.1	379.8	134.0	75.4	71.2	53.1	47.5	39.1	37.7
80°	1841.6	1555.3	252.7	106.1	74.0	40.5	26.5	23.7	20.9	16.8	15.4
82.5°	652.0	562.7	82.4	51.7	32.1	0.0	0.0	0.0	0.0	0.0	0.0
85°	148.0	106.1	0.0	12.6	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°	9887.7	9887.7	9887.7	9887.7	9887.7	9887.7	9887.7	9887.7	9887.7	9887.7	9887.7
2.5°	8386.8	8356.1	8174.6	8181.6	8213.7	8259.8	8150.8	8201.1	8336.5	8466.4	8515.3
5°	6485.2	6492.2	6381.9	6450.3	6511.7	6553.6	6377.7	6380.5	6488.0	6634.6	6711.4
7.5°	4569.7	4558.5	4564.1	4727.4	4843.3	4759.5	4825.2	4597.6	4611.6	4716.3	4638.1
10°	3396.9	3243.3	3156.7	3279.6	3406.7	3360.6	3247.5	3173.5	3225.2	3341.0	3332.7
12.5°	2669.5	2448.9	2319.0	2231.1	2335.8	2249.2	2246.4	2182.2	2112.4	2125.0	2310.7
15°	2007.7	1847.1	1693.6	1552.5	1549.8	1520.4	1371.0	1203.5	1189.5	1197.9	1294.3
17.5°	1380.8	1326.4	1263.5	1142.1	1110.0	987.1	841.9	774.9	741.4	756.7	788.8
20°	970.3	949.4	956.4	890.8	844.7	727.4	642.2	615.7	610.1	625.5	640.8
22.5°	804.2	766.5	762.3	733.0	686.9	601.7	555.7	540.3	533.3	547.3	558.5
25°	703.7	666.0	650.6	632.5	583.6	525.0	497.0	483.1	476.1	484.5	491.5
27.5°	619.9	585.0	571.0	558.5	511.0	469.1	446.8	434.2	428.6	431.4	438.4
30°	557.1	526.4	508.2	492.8	452.4	423.0	403.5	390.9	385.3	385.3	392.3
32.5°	491.5	474.7	457.9	438.4	400.7	381.2	361.6	347.6	342.1	343.5	349.0
35°	409.1	403.5	407.7	389.5	357.4	340.7	321.1	305.8	301.6	303.0	308.6
37.5°	363.0	337.9	353.2	343.5	325.3	303.0	277.8	263.9	256.9	261.1	263.9
40°	333.7	303.0	291.8	301.6	298.8	262.5	240.1	226.2	220.6	222.0	224.8
42.5°	308.6	272.3	247.1	245.7	262.5	229.0	205.2	192.7	185.7	185.7	188.5
45°	284.8	245.7	215.0	191.3	220.6	194.1	171.7	160.6	152.2	152.2	153.6
47.5°	266.7	223.4	187.1	156.4	166.1	159.2	141.0	129.8	121.5	121.5	122.9
50°	249.9	201.0	162.0	131.2	124.3	131.2	114.5	101.9	96.3	94.9	97.7
52.5°	231.8	178.7	138.2	111.7	97.7	99.1	89.4	81.0	74.0	74.0	76.8
55°	213.6	160.6	120.1	94.9	81.0	74.0	71.2	65.6	60.0	60.0	62.8
57.5°	195.5	141.0	101.9	78.2	64.2	58.6	58.6	54.5	50.3	50.3	53.1
60°	178.7	121.5	83.8	64.2	50.3	48.9	50.3	46.1	43.3	43.3	46.1
62.5°	159.2	103.3	68.4	53.1	40.5	39.1	43.3	40.5	37.7	37.7	40.5
65°	135.4	88.0	54.5	40.5	30.7	30.7	36.3	33.5	30.7	30.7	33.5
67.5°	114.5	74.0	41.9	29.3	22.3	23.7	30.7	27.9	26.5	26.5	29.3
70°	94.9	57.2	29.3	18.2	12.6	18.2	23.7	23.7	23.7	23.7	26.5
72.5°	71.2	39.1	16.8	7.0	5.6	12.6	19.5	22.3	20.9	20.9	25.1
75°	46.1	22.3	5.6	0.0	0.0	7.0	15.4	18.2	18.2	16.8	20.9
77.5°	26.5	7.0	0.0	0.0	0.0	0.0	9.8	8.4	7.0	5.6	9.8
80°	7.0	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-SA7C-830-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	9887.7	9887.7	9887.7	9887.7	9887.7	9887.7	9887.7	9887.7	9887.7	9887.7
2.5°	8712.1	8876.9	9108.6	9354.3	9732.7	10032.9	10327.5	10580.2	10677.9	10718.4
5°	6895.7	7137.2	7476.5	7912.1	8594.8	9209.1	9831.8	10458.7	10731.0	10799.4
7.5°	4948.0	5256.6	5688.0	6233.9	7033.9	7829.7	8699.5	9619.6	10041.3	10147.4
10°	3662.2	4039.1	4533.4	5108.6	5872.3	6690.5	7638.5	8689.8	9171.5	9312.5
12.5°	2598.3	3107.9	3769.7	4469.1	5130.9	5861.1	6820.3	7979.1	8484.5	8636.7
15°	1526.0	2018.9	2802.1	3738.9	4586.4	5326.4	6300.9	7614.7	8171.8	8325.4
17.5°	875.4	1121.1	1713.1	2757.4	3907.9	4932.7	6137.6	7705.5	8361.7	8504.1
20°	668.8	747.0	987.1	1775.9	3114.9	4545.9	6137.6	8219.3	9027.6	9237.1
22.5°	585.0	642.2	740.0	1059.7	2292.5	4131.3	6208.8	8962.0	10018.9	10250.7
25°	519.4	571.0	654.8	797.2	1563.7	3638.4	6377.7	9873.7	11186.1	11486.3
27.5°	464.9	513.8	589.2	698.1	1069.5	3043.7	6605.3	10943.2	12473.4	12713.5
30°	416.1	462.1	530.5	607.3	825.1	2369.3	6799.4	11951.2	13484.2	13742.5
32.5°	370.0	411.9	473.3	530.5	675.7	1752.2	6820.3	12749.8	14323.3	14580.2
35°	326.7	364.4	420.2	464.9	559.9	1383.6	6495.0	13442.3	15162.4	15501.7
37.5°	284.8	321.1	370.0	403.5	492.8	1128.1	5998.0	14214.4	16238.9	16553.0
40°	245.7	277.8	328.1	350.4	466.3	867.0	5457.6	15024.2	17294.4	17582.0
42.5°	209.4	240.1	289.0	332.3	409.1	647.8	4874.0	15783.7	18243.8	18545.3
45°	174.5	206.6	255.5	351.8	339.3	484.5	4249.9	16287.7	18993.5	19321.6
47.5°	141.0	177.3	244.3	335.1	270.9	356.0	3755.7	16765.2	19561.8	19885.7
50°	113.1	149.4	275.0	298.8	222.0	272.3	3549.1	17192.5	19934.5	20245.9
52.5°	92.1	125.7	259.7	229.0	185.7	224.8	3660.8	17885.0	20279.4	20474.9
55°	76.8	99.1	156.4	159.2	157.8	191.3	3799.0	18879.0	21171.5	21263.7
57.5°	67.0	79.6	108.9	122.9	132.6	170.3	3801.8	20305.9	22552.4	22609.6
60°	57.2	69.8	90.8	99.1	114.5	152.2	3663.6	20804.4	23095.5	23285.4
62.5°	50.3	61.4	75.4	82.4	96.3	136.8	3339.6	20082.5	22349.9	22672.4
65°	44.7	55.8	62.8	69.8	85.2	122.9	2806.3	18638.9	21112.9	21449.4
67.5°	39.1	48.9	55.8	62.8	76.8	108.9	2066.3	16962.1	19693.0	19972.2
70°	34.9	43.3	50.3	55.8	67.0	92.1	1253.8	14393.1	17730.0	17845.9
72.5°	33.5	39.1	46.1	50.3	58.6	81.0	635.3	10577.4	14173.9	14362.4
75°	29.3	34.9	41.9	44.7	51.7	69.8	258.3	6947.3	10271.6	10574.6
77.5°	23.7	32.1	37.7	40.5	44.7	57.2	131.2	4439.8	7208.4	7403.9
80°	8.4	23.7	32.1	33.5	37.7	41.9	86.6	2430.7	4181.5	4265.3
82.5°	0.0	15.4	25.1	23.7	26.5	32.1	55.8	1156.0	2760.2	2790.9
85°	0.0	7.0	19.5	15.4	11.2	22.3	19.5	252.7	1447.8	1507.9
87.5°	0.0	0.0	1.4	7.0	5.6	8.4	2.8	1.4	131.2	166.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)