

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: McGRAW-EDISON

Report Number: P451537

Luminaire Tested: **GALN-SA2B-830-U-SLL**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P451537
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-20)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA2B-830-U-SLL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR LEFT OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7838 lumens
Efficiency: N/A
Efficacy: 95.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

Input Watts (W): 82
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

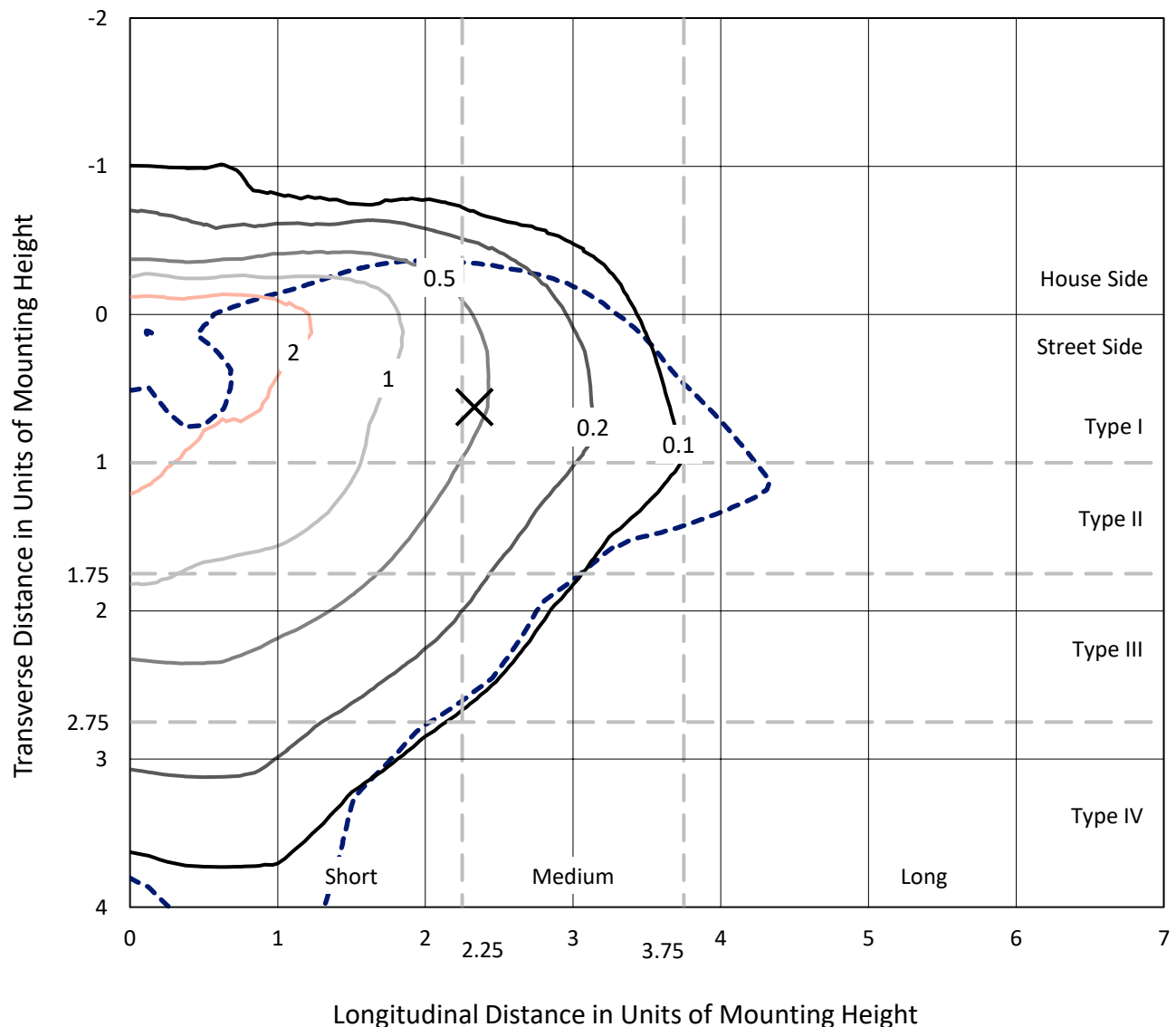


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

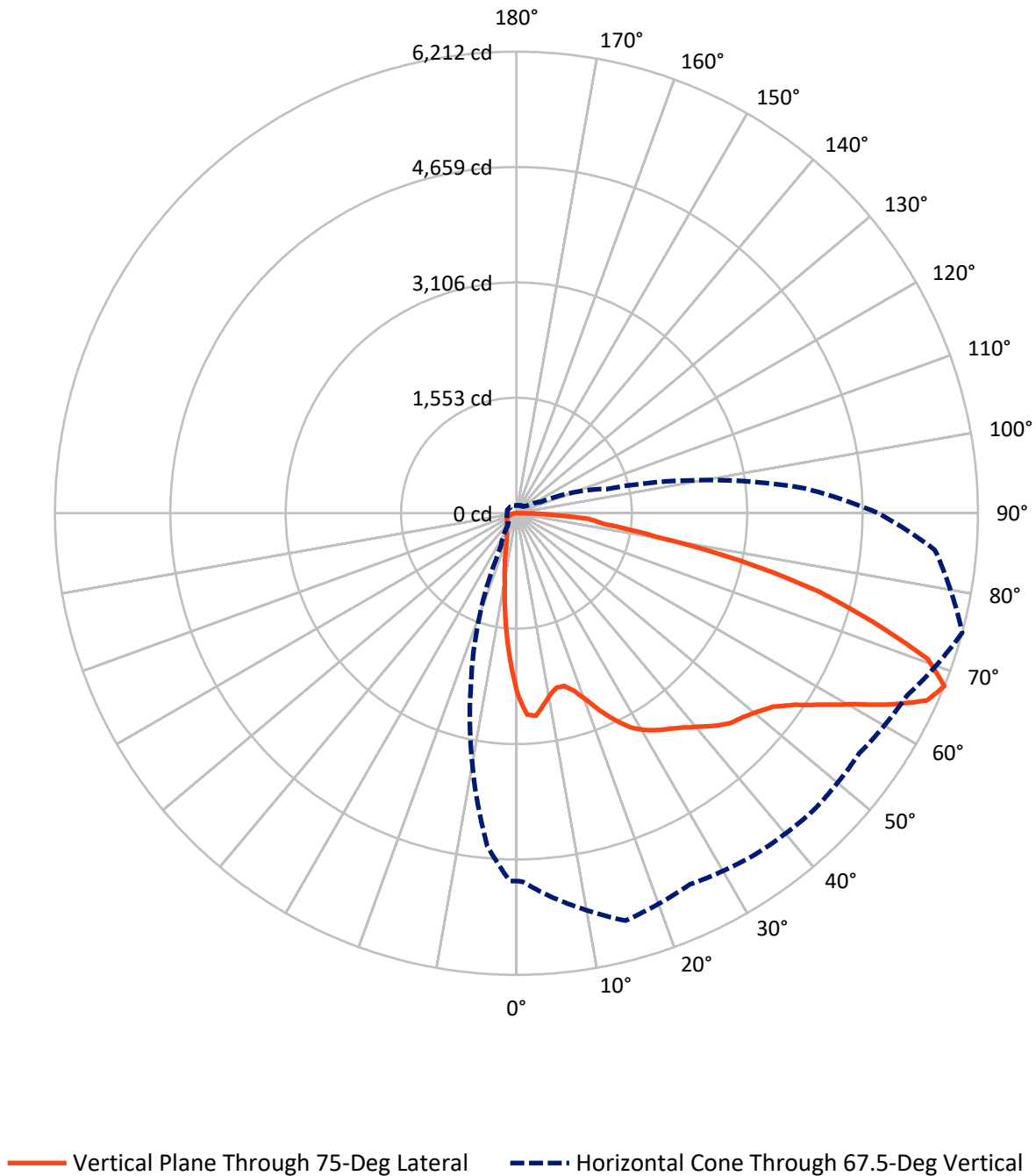


Based on 25 foot mounting height. Maximum calculated value = 4.8 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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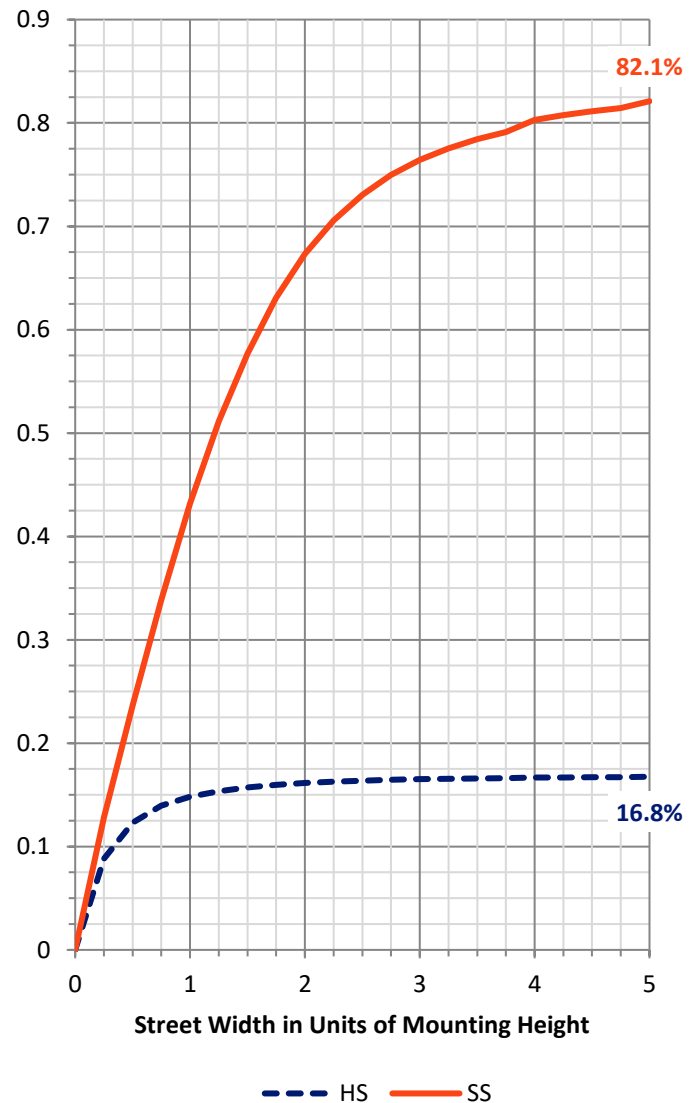
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1324.8	0.0	1324.8
	% Fixture	16.9	0.0	16.9
Street Side	Lumens	6513.2	0.0	6513.2
	% Fixture	83.1	0.0	83.1
Total	Lumens	7838.0	0.0	7838.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	185.7	2.4
10°-20°	387.4	4.9
20°-30°	557.4	7.1
30°-40°	802.8	10.2
40°-50°	1127.7	14.4
50°-60°	1572.8	20.1
60°-70°	1870.0	23.9
70°-80°	1101.3	14.1
80°-90°	232.9	3.0
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°	7838.0	100.0
0°-180°	7838.0	100.0

Coefficient of Utilization



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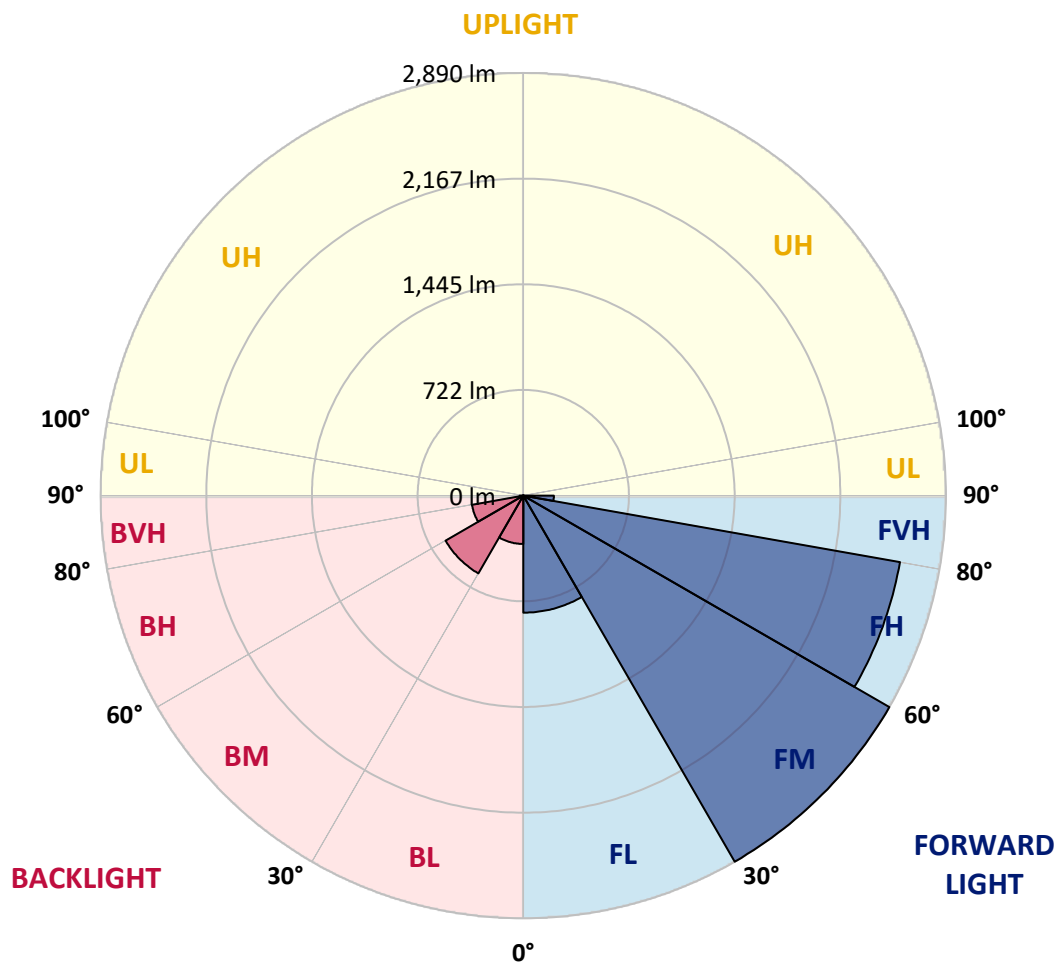
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	800.0	10.2			
FM	(30°-60°)	2889.6	36.9			
FH	(60°-80°)	2614.8	33.4			G2/5000
FVH	(80°-90°)	208.8	2.7			G2/225
BL	(0°-30°)	330.4	4.2	B1/500		
BM	(30°-60°)	613.8	7.8	B1/1000		
BH	(60°-80°)	356.5	4.5	B1/500		G1/500
BVH	(80°-90°)	24.1	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	2448.8	2448.8	2448.8	2448.8	2448.8	2448.8	2448.8	2448.8	2448.8	2448.8	2448.8
2.5°	2640.3	2643.8	2666.4	2732.3	2777.5	2794.1	2805.6	2784.0	2762.9	2711.6	2634.2
5°	2632.2	2652.8	2711.6	2859.4	2976.0	3026.3	3041.4	2976.5	2869.5	2737.8	2579.5
7.5°	2478.4	2506.1	2596.5	2844.3	3049.9	3167.5	3151.9	3034.8	2841.8	2607.1	2385.9
10°	2296.0	2326.6	2435.7	2735.3	3000.2	3162.0	3162.0	3019.3	2762.9	2484.0	2229.1
12.5°	2151.2	2183.4	2308.0	2623.2	2896.6	3049.9	3075.5	2952.9	2706.1	2406.1	2126.1
15°	2103.5	2134.6	2268.8	2555.3	2787.0	2880.5	2889.1	2848.9	2678.5	2411.6	2121.6
17.5°	2162.8	2203.0	2338.7	2575.4	2686.5	2692.0	2698.6	2730.2	2681.5	2512.6	2213.0
20°	2334.2	2377.4	2519.1	2640.3	2598.6	2541.3	2544.8	2626.2	2717.2	2679.5	2431.7
22.5°	2581.5	2619.2	2764.4	2754.4	2561.4	2443.2	2418.6	2532.2	2770.0	2887.6	2664.4
25°	2848.4	2892.6	3059.5	2923.8	2571.9	2384.9	2369.4	2476.9	2824.7	3082.1	2933.3
27.5°	3154.0	3197.2	3328.9	3094.6	2627.2	2380.4	2361.8	2471.9	2874.0	3262.0	3190.1
30°	3381.1	3420.8	3510.3	3238.4	2695.1	2410.6	2387.5	2511.6	2916.2	3385.2	3440.5
32.5°	3559.6	3600.8	3649.5	3327.9	2784.5	2465.4	2422.6	2584.0	2971.5	3479.2	3625.9
35°	3745.5	3794.3	3790.8	3407.3	2868.0	2528.7	2487.0	2688.5	3058.5	3561.1	3861.1
37.5°	3981.3	4000.9	3975.7	3478.7	2968.0	2642.8	2619.7	2843.8	3182.1	3660.1	4136.1
40°	4220.5	4259.7	4130.6	3565.1	3089.6	2857.4	2854.9	3073.5	3328.9	3776.2	4402.5
42.5°	4425.6	4458.8	4275.3	3640.5	3236.9	3119.3	3138.4	3381.6	3521.4	3910.9	4616.6
45°	4579.9	4609.6	4409.0	3713.4	3430.9	3421.9	3534.4	3711.9	3764.1	4032.0	4742.2
47.5°	4711.1	4739.7	4502.0	3824.0	3670.7	3783.2	3979.3	4056.2	3971.7	4101.4	4883.0
50°	4821.7	4830.2	4565.8	3955.6	3968.2	4226.0	4416.0	4465.8	4176.8	4200.9	5005.1
52.5°	4936.8	4925.7	4675.9	4121.5	4289.9	4646.2	4784.5	4836.2	4373.3	4323.6	5183.0
55°	5194.6	5205.2	4922.7	4330.6	4615.1	5058.9	5240.8	5191.1	4591.0	4549.2	5409.2
57.5°	5506.2	5497.2	5270.0	4657.8	4946.3	5442.9	5578.6	5498.7	4881.5	4859.4	5638.4
60°	5627.4	5639.4	5560.5	5009.6	5273.0	5779.2	5917.9	5793.7	5229.8	5219.7	5811.3
62.5°	5505.7	5573.6	5626.9	5322.8	5551.5	6026.4	6164.2	6022.4	5593.2	5666.1	5932.5
65°	5263.5	5278.0	5459.5	5588.2	5685.7	6067.2	6139.0	6063.6	5896.8	6072.7	5926.9
67.5°	4948.8	4961.4	5174.0	5675.1	5512.8	5604.7	5655.0	5632.9	5802.8	6211.9	5654.0
70°	4649.3	4639.2	4863.9	5453.5	4799.0	4659.3	4701.0	4631.7	5007.1	5871.6	5118.7
72.5°	4066.2	4102.4	4343.7	4837.2	3799.8	3572.6	3663.6	3484.2	3851.1	5028.7	4154.7
75°	3185.1	3193.7	3596.3	4059.7	2866.5	2508.1	2631.2	2556.3	2949.9	4194.9	2869.0
77.5°	2205.5	2186.4	2619.2	3100.7	2044.2	1836.1	1838.1	1802.4	2059.7	3088.6	1949.2
80°	1400.8	1371.7	1639.6	1915.5	1404.8	1502.8	1453.6	1452.1	1341.0	1905.4	1178.6
82.5°	756.9	789.1	1035.9	1200.8	1007.8	1161.6	1064.6	1033.4	920.3	1192.7	753.9
85°	344.8	375.0	552.4	816.8	765.5	774.0	517.2	610.2	761.5	968.6	402.6
87.5°	33.7	43.2	114.1	385.5	261.4	206.1	76.9	148.3	191.5	344.3	32.2
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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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2448.8	2448.8	2448.8	2448.8	2448.8	2448.8	2448.8	2448.8	2448.8	2448.8	2448.8
2.5°	2602.6	2576.4	2487.5	2414.1	2336.2	2276.9	2199.5	2147.7	2112.0	2058.2	2051.7
5°	2483.0	2419.1	2264.3	2106.5	1970.3	1867.7	1763.7	1668.2	1611.9	1594.3	1571.7
7.5°	2281.4	2173.8	1974.8	1793.9	1637.5	1484.7	1367.1	1283.7	1227.9	1195.2	1156.0
10°	2115.5	1990.9	1748.6	1527.0	1398.3	1303.3	1199.8	1110.3	1041.4	982.6	950.5
12.5°	2004.0	1863.2	1590.8	1410.9	1311.3	1210.3	1089.2	988.7	887.1	820.3	791.6
15°	1970.3	1821.5	1542.0	1353.1	1210.3	1078.1	942.4	811.2	710.7	647.4	626.3
17.5°	2052.7	1872.8	1541.5	1276.2	1091.7	933.9	760.0	636.8	533.8	486.5	471.5
20°	2206.5	1971.3	1546.1	1200.3	963.0	740.9	552.9	451.9	402.6	382.5	375.0
22.5°	2421.1	2121.6	1559.6	1125.4	822.3	569.0	414.2	362.9	345.3	341.8	340.3
25°	2685.5	2307.5	1605.4	1058.0	703.7	434.3	346.3	323.2	313.1	309.6	309.1
27.5°	2928.8	2547.8	1660.7	1000.2	589.1	374.5	313.1	293.5	283.5	283.0	284.0
30°	3148.4	2748.8	1706.9	935.4	502.1	332.7	291.5	271.9	262.4	261.9	264.9
32.5°	3338.4	2914.2	1741.1	871.5	453.9	307.1	271.9	250.8	242.8	241.3	242.8
35°	3541.5	3079.1	1725.5	821.8	426.2	286.0	257.3	236.7	227.2	222.7	222.7
37.5°	3773.2	3249.0	1698.9	780.6	413.7	268.4	244.8	224.7	215.1	210.6	210.1
40°	4026.0	3418.8	1662.2	743.9	401.1	257.8	236.2	215.1	203.6	199.0	198.0
42.5°	4249.2	3564.1	1632.0	719.8	380.5	259.9	228.7	208.1	193.5	187.5	187.0
45°	4443.2	3710.4	1626.5	705.7	363.4	256.8	226.7	202.6	185.5	178.9	177.9
47.5°	4595.0	3862.7	1658.2	697.6	344.8	240.8	239.8	199.0	178.4	171.4	170.4
50°	4779.9	4078.8	1730.5	681.1	327.7	225.7	253.3	198.5	172.9	163.9	161.3
52.5°	5026.2	4360.2	1828.5	651.4	303.1	211.6	241.8	198.5	166.4	157.3	154.3
55°	5398.7	4719.1	1924.5	609.7	268.4	193.0	218.1	192.5	156.8	148.8	146.8
57.5°	5645.5	4981.5	1985.9	551.9	225.2	179.4	188.0	183.0	147.3	138.7	138.7
60°	5658.0	5051.9	1956.7	479.0	198.0	166.9	163.4	184.5	138.7	129.7	128.7
62.5°	5513.3	4879.5	1804.9	413.7	183.5	153.3	147.8	161.8	130.2	121.1	119.6
65°	5287.1	4439.7	1541.5	382.5	175.4	141.2	133.2	132.7	121.1	112.6	110.6
67.5°	4871.4	3879.7	1266.6	364.4	171.4	127.7	120.1	117.6	110.6	103.5	102.5
70°	4258.7	3249.5	1015.8	356.9	169.4	113.6	107.6	104.5	98.5	93.0	92.5
72.5°	3313.3	2635.8	838.4	351.8	168.4	100.5	94.0	90.0	86.5	81.4	81.4
75°	2379.9	1939.1	639.8	317.2	155.8	86.5	79.4	76.9	71.9	67.9	68.9
77.5°	1500.3	1305.8	421.2	233.2	120.6	69.4	63.3	61.8	57.8	52.3	55.8
80°	1013.3	918.3	245.8	146.8	75.9	50.8	48.8	48.3	43.7	37.7	38.2
82.5°	689.6	676.5	127.7	83.4	43.7	29.7	28.6	29.7	24.6	20.1	20.1
85°	269.4	367.9	60.3	32.7	14.1	4.5	6.5	7.0	4.0	2.0	2.5
87.5°	5.0	37.7	1.5	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°	2448.8	2448.8	2448.8	2448.8	2448.8	2448.8	2448.8	2448.8	2448.8	2448.8	2448.8
2.5°	2041.7	2037.1	2044.7	2012.5	2019.0	2031.1	2037.1	2040.6	2090.4	2078.8	2110.5
5°	1592.8	1588.3	1617.4	1621.5	1636.5	1633.5	1648.1	1651.6	1669.7	1676.2	1720.5
7.5°	1158.5	1178.1	1211.3	1228.4	1254.0	1262.1	1254.5	1273.1	1235.4	1262.6	1270.6
10°	930.9	907.2	893.2	932.4	937.4	974.6	959.5	947.4	969.6	970.6	991.7
12.5°	775.0	724.3	690.6	701.7	713.7	729.8	732.3	756.4	772.5	787.6	800.2
15°	607.7	590.1	559.4	544.3	561.4	568.0	583.5	603.6	620.7	625.3	642.4
17.5°	466.4	469.4	464.4	455.4	465.9	471.0	472.0	472.5	477.0	474.0	499.1
20°	375.5	386.0	398.6	400.6	404.1	406.6	402.1	385.0	385.5	396.1	404.1
22.5°	339.8	341.8	355.9	360.4	371.4	366.9	353.8	345.8	344.8	347.3	351.3
25°	311.6	314.6	324.7	331.7	340.3	332.2	322.7	315.1	314.1	316.7	320.7
27.5°	286.5	291.0	300.1	307.1	315.1	307.6	298.6	292.0	291.5	291.0	293.5
30°	266.4	271.4	278.0	286.0	291.5	285.0	276.4	272.9	272.4	271.4	272.4
32.5°	246.3	254.3	260.9	264.9	270.4	265.4	258.9	256.8	253.3	250.3	248.8
35°	223.7	232.2	242.3	247.3	252.8	247.8	243.3	234.7	228.7	228.2	229.2
37.5°	210.6	214.1	222.2	230.7	236.2	233.7	225.2	216.6	215.1	215.1	216.1
40°	199.0	200.5	204.1	215.1	225.2	217.6	207.1	204.6	204.6	204.1	204.6
42.5°	187.5	189.0	189.0	197.5	213.6	201.6	193.5	193.5	193.5	194.0	195.5
45°	176.9	177.4	176.9	183.0	198.0	188.0	182.5	184.0	185.0	186.0	187.0
47.5°	167.9	168.4	167.9	172.9	180.4	176.4	173.4	175.4	177.4	178.9	179.9
50°	159.8	159.3	160.3	163.4	166.9	167.9	165.9	168.9	169.9	171.9	174.4
52.5°	152.8	152.3	153.3	154.8	159.8	159.8	159.8	162.3	164.4	166.4	169.9
55°	144.8	145.3	146.8	148.8	155.3	154.3	154.8	156.8	158.8	161.8	163.9
57.5°	137.2	138.2	140.2	143.2	149.8	149.3	149.8	150.8	153.3	154.8	156.8
60°	128.7	130.7	133.2	135.2	141.7	141.2	143.8	145.8	147.3	147.3	148.3
62.5°	120.1	123.1	125.7	127.2	134.2	134.7	138.2	139.7	140.7	139.7	141.2
65°	111.6	116.1	117.1	119.1	126.2	126.7	130.7	134.2	133.2	132.2	134.7
67.5°	103.0	108.6	108.1	110.6	117.6	118.6	122.1	128.2	126.2	125.2	127.2
70°	93.5	97.5	98.0	99.5	109.1	107.6	113.1	118.6	117.1	117.6	117.6
72.5°	82.9	86.5	86.5	89.5	99.5	97.0	101.5	107.6	107.6	107.1	107.1
75°	70.4	72.4	74.4	78.9	89.5	86.5	89.5	95.0	96.0	95.0	95.0
77.5°	56.8	59.8	60.8	66.8	74.4	73.9	76.9	79.4	81.4	80.4	80.4
80°	40.2	43.2	47.2	53.8	58.3	59.8	61.3	63.3	64.3	64.3	65.3
82.5°	22.6	27.1	30.7	37.2	39.2	46.7	46.2	47.7	46.2	40.7	45.2
85°	5.0	9.5	13.6	17.1	19.6	27.1	28.6	32.2	26.6	24.6	24.6
87.5°	0.0	0.0	0.0	0.0	0.0	4.0	8.0	11.1	9.5	8.0	8.0
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):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	2448.8	2448.8	2448.8	2448.8	2448.8	2448.8	2448.8	2448.8	2448.8	2448.8
2.5°	2137.2	2180.9	2233.7	2324.6	2388.5	2457.3	2526.7	2600.6	2620.2	2640.3
5°	1732.5	1818.5	1865.2	1987.4	2115.5	2278.4	2411.6	2557.3	2618.2	2632.2
7.5°	1312.3	1370.7	1493.3	1616.9	1775.8	1946.7	2150.7	2377.9	2448.8	2478.4
10°	1040.4	1119.8	1227.4	1360.1	1499.3	1683.3	1913.5	2178.9	2279.4	2296.0
12.5°	885.6	974.1	1091.2	1231.4	1363.1	1501.8	1734.0	2008.0	2115.5	2151.2
15°	708.2	815.3	950.5	1098.2	1241.5	1393.3	1628.5	1937.6	2061.8	2103.5
17.5°	556.4	642.9	789.1	949.5	1119.3	1311.3	1606.4	1971.3	2124.1	2162.8
20°	425.7	487.5	610.7	780.1	979.1	1230.4	1611.9	2098.4	2281.4	2334.2
22.5°	367.9	399.6	474.5	635.8	858.5	1160.1	1634.5	2272.9	2493.5	2581.5
25°	333.2	349.8	392.0	497.6	743.4	1091.7	1686.3	2507.6	2790.1	2848.4
27.5°	303.6	315.6	341.8	417.7	638.8	1028.4	1746.6	2767.9	3067.0	3154.0
30°	275.4	291.5	316.1	370.9	572.0	970.6	1822.5	2979.0	3300.2	3381.1
32.5°	253.8	269.9	292.5	338.3	515.2	909.7	1867.7	3164.5	3490.7	3559.6
35°	236.2	249.8	273.4	312.1	472.0	863.5	1858.7	3311.8	3675.2	3745.5
37.5°	223.7	235.2	258.9	287.5	439.3	815.3	1854.2	3506.3	3899.8	3981.3
40°	212.1	224.2	245.8	271.4	406.6	758.5	1856.7	3699.3	4139.1	4220.5
42.5°	203.1	216.6	234.2	266.9	372.9	712.7	1856.7	3867.2	4347.2	4425.6
45°	195.5	210.1	227.2	266.4	346.3	678.0	1844.1	4011.4	4513.0	4579.9
47.5°	189.0	205.1	229.7	257.3	339.8	652.9	1833.1	4127.0	4648.3	4711.1
50°	184.5	203.6	244.3	246.8	341.8	645.4	1886.3	4272.8	4767.4	4821.7
52.5°	180.9	204.1	243.8	231.2	338.3	650.4	1997.4	4500.5	4932.7	4936.8
55°	173.9	203.6	231.2	213.6	323.7	658.9	2140.2	4831.2	5191.6	5194.6
57.5°	166.9	198.0	214.6	198.5	294.0	658.9	2312.1	5144.3	5503.7	5506.2
60°	159.8	206.1	188.5	185.5	255.3	646.9	2493.5	5282.1	5601.7	5627.4
62.5°	152.8	207.6	168.4	173.9	227.2	617.7	2628.7	5129.8	5469.0	5505.7
65°	144.8	167.4	155.3	161.8	212.6	569.0	2586.0	4850.8	5219.7	5263.5
67.5°	135.2	141.7	141.2	149.3	207.6	497.1	2360.8	4498.0	4951.3	4948.8
70°	123.6	127.2	128.7	137.2	198.0	441.3	1967.3	4040.1	4593.0	4649.3
72.5°	111.6	114.6	116.1	123.6	188.5	409.6	1527.0	3409.3	3978.3	4066.2
75°	98.5	100.5	102.5	109.1	178.4	362.9	1087.7	2602.6	3046.9	3185.1
77.5°	84.9	84.9	87.5	94.0	150.3	299.6	729.8	1825.5	2064.3	2205.5
80°	68.9	69.4	68.4	75.4	110.6	205.1	414.7	1219.4	1373.7	1400.8
82.5°	52.8	51.3	51.8	55.3	82.4	139.7	221.2	757.5	772.0	756.9
85°	33.2	33.2	32.2	36.2	52.8	72.9	120.6	463.9	362.4	344.8
87.5°	13.6	11.1	12.6	14.6	25.1	29.7	47.2	95.5	36.7	33.7
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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