

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: P651189

Luminaire Tested: **GALN-SA1D-840-U-SLR-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P651189
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-26)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA1D-840-U-SLR-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 4000K, 1200mA LIGHTSQUARE WITH 16 LEDS AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4902.2 lumens
Efficiency: N/A
Efficacy: 75.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G1

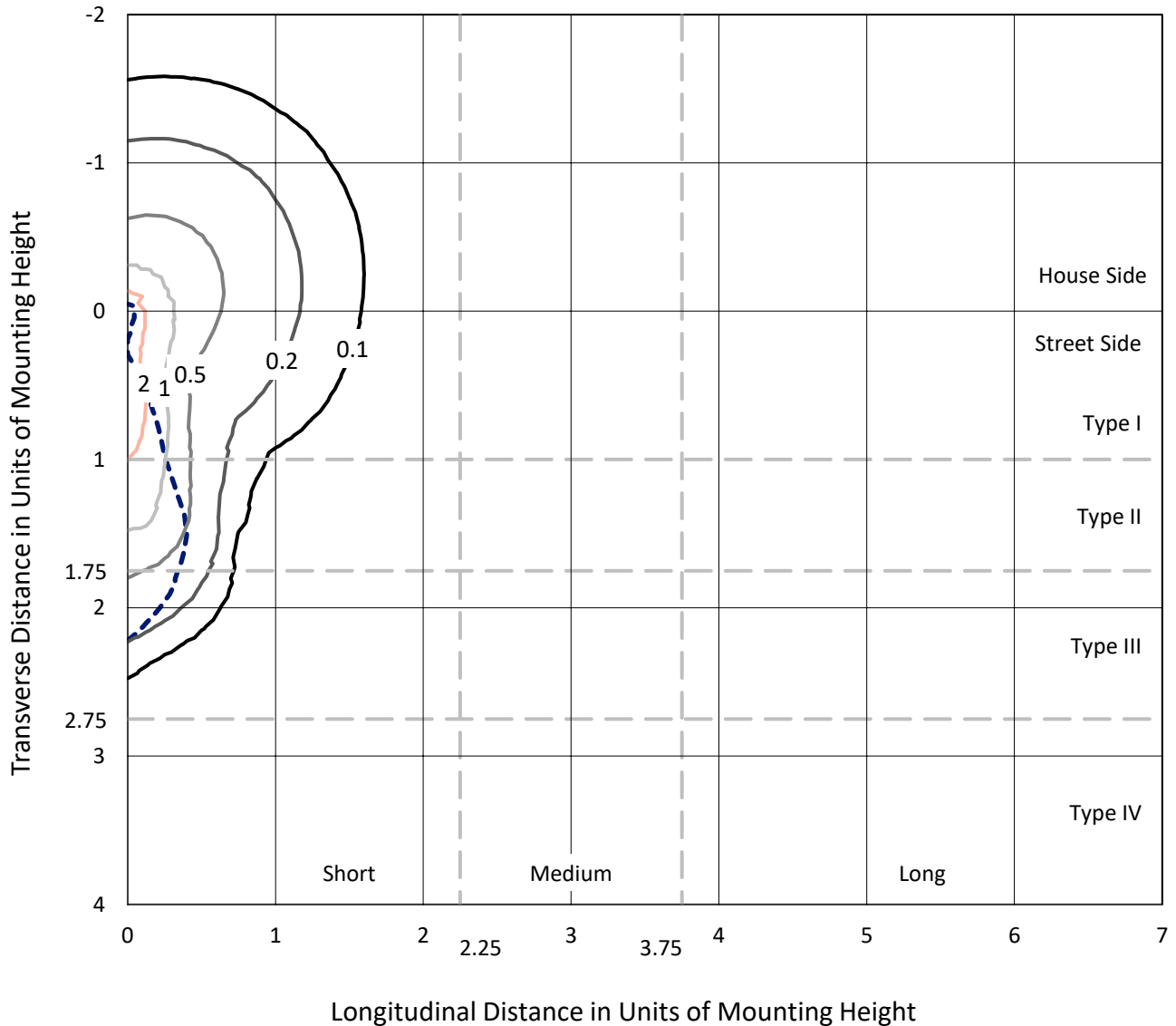
Input Watts (W): 65
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

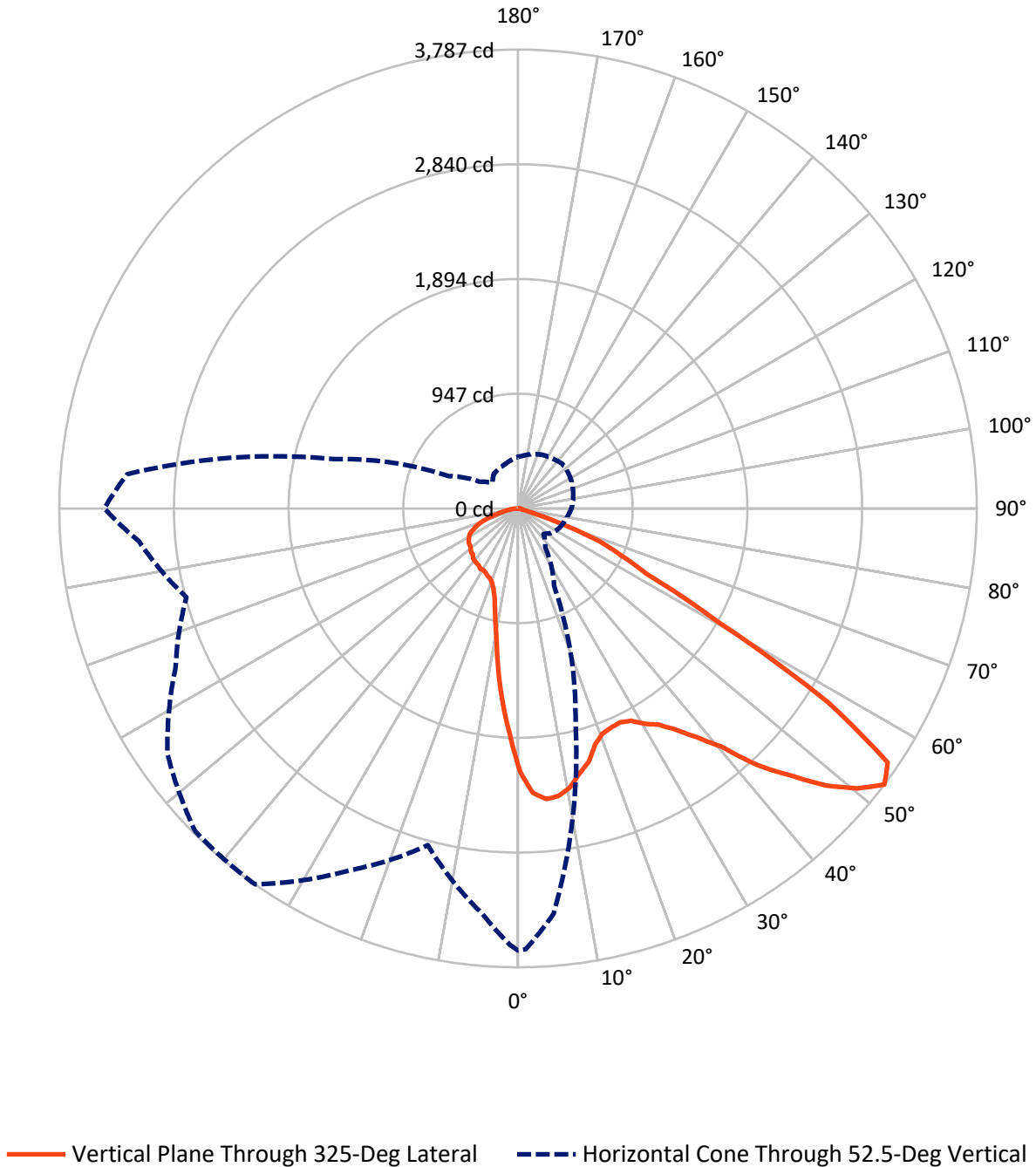
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.5 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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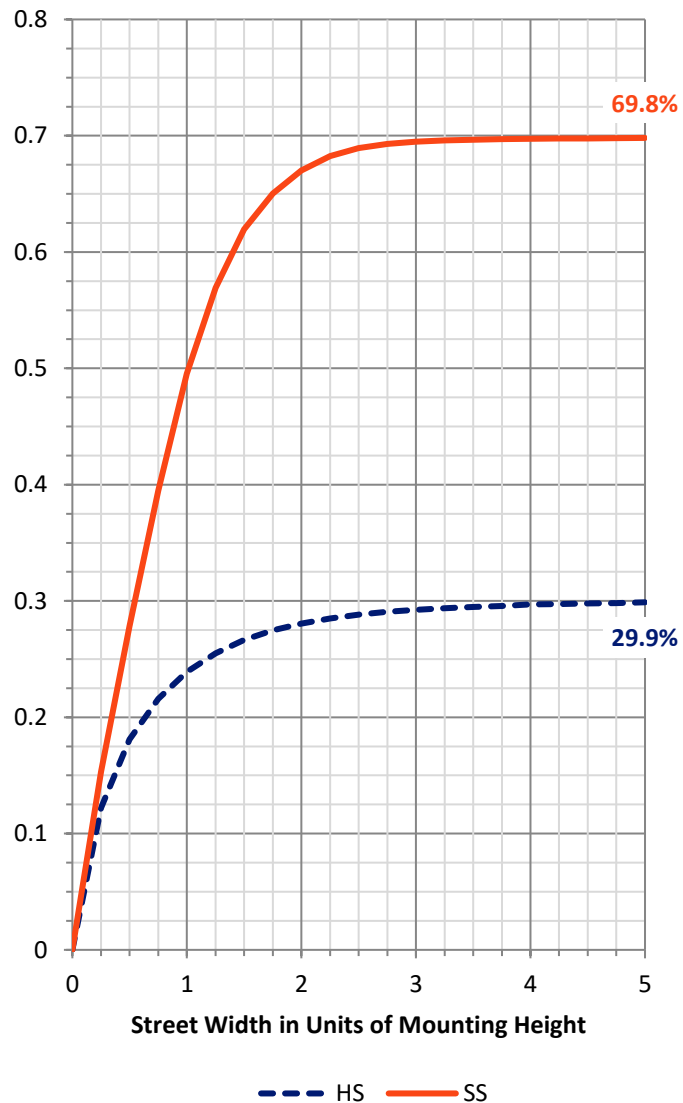
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1477.8	0.0	1477.8
	% Fixture	30.1	0.0	30.1
Street Side	Lumens	3424.4	0.0	3424.4
	% Fixture	69.9	0.0	69.9
Total	Lumens	4902.2	0.0	4902.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	166.0	3.4
10°-20°	359.8	7.3
20°-30°	543.7	11.1
30°-40°	785.6	16.0
40°-50°	1045.5	21.3
50°-60°	1169.4	23.9
60°-70°	659.1	13.4
70°-80°	146.9	3.0
80°-90°	26.2	0.5
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°	4902.2	100.0
0°-180°	4902.2	100.0

Coefficient of Utilization



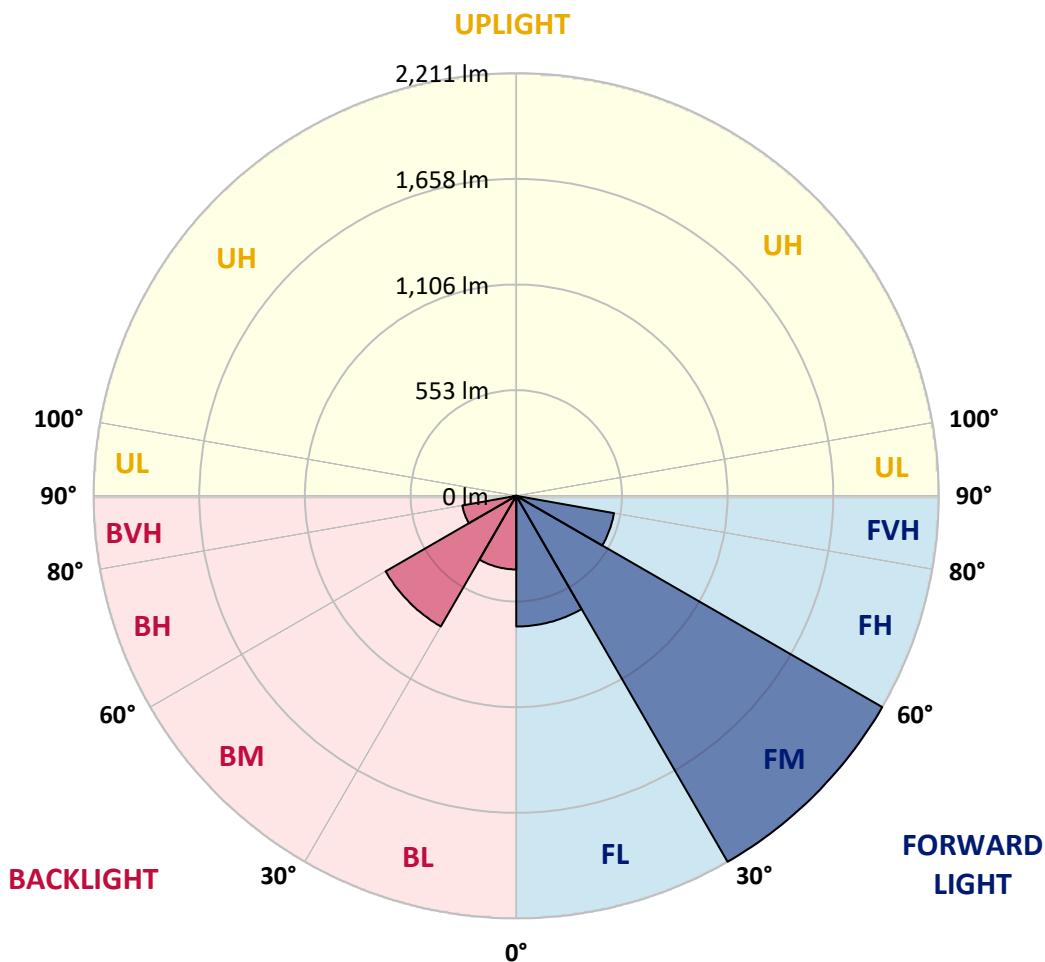
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	684.1	14.0			
FM (30°-60°)	2211.3	45.1			
FH (60°-80°)	519.6	10.6			G0/660
FVH (80°-90°)	9.5	0.2			G0/10
BL (0°-30°)	385.4	7.9	B1/500		
BM (30°-60°)	789.3	16.1	B1/1000		
BH (60°-80°)	286.4	5.8	B1/500		G1/500
BVH (80°-90°)	16.7	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-G1

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	2175.6	2175.6	2175.6	2175.6	2175.6	2175.6	2175.6	2175.6	2175.6	2175.6	2175.6
2.5°	2211.8	2247.4	2209.1	2140.8	2092.5	2048.4	2002.3	1993.0	1932.6	1921.9	1878.0
5°	2086.1	2078.3	2031.4	1941.9	1843.1	1753.6	1687.5	1623.6	1580.2	1529.8	1526.2
7.5°	1933.4	1887.9	1860.9	1725.1	1602.9	1462.2	1401.9	1304.6	1273.9	1228.5	1205.1
10°	1796.9	1763.5	1700.2	1564.6	1394.0	1300.9	1236.3	1183.7	1148.2	1101.3	1042.3
12.5°	1729.4	1715.9	1644.8	1434.6	1308.1	1208.6	1163.1	1112.0	1051.6	976.2	947.1
15°	1741.5	1696.0	1642.1	1409.7	1234.9	1139.0	1066.5	1002.6	925.1	853.4	811.4
17.5°	1831.7	1796.9	1688.9	1425.3	1207.2	1068.7	937.2	842.7	773.0	708.4	679.3
20°	2009.3	1958.9	1837.4	1445.2	1147.5	970.6	820.0	703.4	628.8	594.7	584.7
22.5°	2206.2	2176.3	1982.3	1490.0	1099.9	879.6	695.6	579.1	551.4	542.1	560.6
25°	2445.6	2368.2	2207.6	1563.2	1062.9	802.1	590.5	525.8	511.6	520.8	542.1
27.5°	2627.5	2606.9	2365.3	1632.0	1012.5	709.1	531.5	488.9	493.1	502.3	522.3
30°	2843.5	2739.1	2518.1	1679.6	967.0	645.1	490.2	478.9	483.2	498.8	508.7
32.5°	2973.5	2934.5	2614.0	1751.5	914.4	589.7	458.3	447.7	454.1	477.4	500.9
35°	3139.1	3061.7	2732.7	1769.9	877.5	567.7	435.6	427.7	442.6	459.0	485.3
37.5°	3332.4	3279.1	2896.8	1757.1	857.6	545.0	416.4	412.8	423.4	446.2	476.8
40°	3446.8	3430.4	2982.8	1764.9	826.4	525.0	394.3	398.6	420.7	438.4	468.3
42.5°	3556.8	3450.3	3109.9	1762.1	806.4	498.0	396.4	391.5	408.6	429.2	457.6
45°	3581.1	3475.2	3139.8	1742.2	782.3	471.8	380.1	382.2	402.8	428.4	446.9
47.5°	3565.4	3487.2	3195.2	1736.5	759.6	453.3	356.0	381.6	393.6	414.3	440.5
50°	3554.7	3550.4	3242.1	1763.5	729.0	424.2	326.8	372.3	384.4	405.0	433.5
52.5°	3648.5	3639.3	3359.4	1834.6	704.8	392.9	297.0	348.8	378.0	397.9	425.6
55°	3705.4	3664.9	3560.5	1921.9	664.3	351.7	276.4	319.7	362.4	380.1	408.6
57.5°	3333.1	3305.4	3220.8	1794.1	596.1	297.7	250.8	289.9	341.0	368.8	397.9
60°	2773.2	2729.8	2513.2	1524.8	439.8	231.6	235.1	266.4	335.4	346.0	380.1
62.5°	2614.8	2507.4	2212.6	1227.1	337.5	199.0	211.0	245.2	305.5	323.3	357.4
65°	2074.7	1995.2	1583.0	886.0	226.0	172.7	192.6	220.9	263.6	298.4	329.7
67.5°	1298.8	1222.8	844.8	419.2	157.8	147.8	172.0	201.8	236.6	267.9	302.7
70°	678.5	595.4	390.1	151.4	108.7	120.8	143.6	172.0	206.0	231.6	258.6
72.5°	253.0	205.4	127.2	65.3	75.4	92.3	116.6	137.2	161.3	192.6	207.5
75°	39.1	33.4	32.7	39.8	51.1	66.8	83.1	103.7	125.1	145.0	154.9
77.5°	18.5	17.7	19.9	26.3	34.1	47.6	60.4	80.3	97.3	110.2	115.8
80°	12.1	11.4	12.8	17.7	25.6	35.5	48.4	61.8	77.5	88.1	86.7
82.5°	7.1	7.8	7.8	12.1	17.7	25.6	34.8	46.9	57.5	66.8	61.1
85°	4.3	3.5	3.5	7.1	12.1	20.6	29.1	19.9	20.6	20.6	23.5
87.5°	1.4	1.4	1.4	0.7	1.4	1.4	2.1	3.5	4.3	5.0	6.4
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°	2175.6	2175.6	2175.6	2175.6	2175.6	2175.6	2175.6	2175.6	2175.6	2175.6	2175.6
2.5°	1876.5	1898.6	1890.7	1863.0	1884.3	1887.9	1873.7	1922.7	1931.9	1917.0	1921.3
5°	1521.2	1526.9	1539.7	1566.7	1585.9	1608.7	1608.7	1610.0	1590.8	1639.2	1625.0
7.5°	1185.1	1188.7	1203.6	1261.2	1277.5	1320.9	1339.4	1326.5	1288.2	1271.8	1285.3
10°	1023.2	1002.6	997.6	1004.7	1041.7	1060.1	1075.7	1071.4	1065.0	1052.3	1038.0
12.5°	915.2	900.2	888.2	871.1	873.2	891.0	903.1	893.1	896.0	898.8	903.1
15°	797.9	787.3	780.9	755.3	752.4	764.6	768.8	774.5	785.2	785.8	780.9
17.5°	673.6	664.3	678.5	692.7	682.8	683.6	691.3	696.3	693.5	680.7	674.3
20°	588.3	598.3	612.5	626.0	636.6	643.0	645.9	638.1	628.8	602.5	601.8
22.5°	563.5	576.3	588.3	608.9	618.9	635.2	620.3	602.5	589.7	576.9	562.0
25°	545.0	555.6	579.8	587.6	606.8	620.3	609.6	591.9	569.9	551.4	540.0
27.5°	531.5	543.5	559.2	580.5	595.4	603.2	592.6	585.5	562.7	540.7	524.4
30°	522.9	535.7	564.1	581.9	594.7	601.1	582.6	574.1	557.8	539.2	525.0
32.5°	517.3	528.7	552.8	575.5	584.1	584.1	586.9	576.9	554.2	522.9	510.9
35°	498.8	514.4	534.3	560.6	576.3	585.5	571.3	559.9	545.0	513.0	491.0
37.5°	488.1	498.8	524.4	549.3	562.7	572.7	567.0	547.1	527.2	500.9	483.2
40°	476.8	493.8	516.5	540.0	554.9	564.9	560.6	537.1	513.0	488.1	476.1
42.5°	468.9	480.3	503.8	530.1	547.8	567.0	554.2	525.0	508.0	473.9	460.4
45°	462.6	481.1	505.9	516.5	535.0	554.9	532.2	514.4	494.5	469.6	458.3
47.5°	454.7	471.8	488.1	516.5	525.0	534.3	530.1	501.7	484.6	457.6	449.8
50°	451.9	458.3	488.1	503.8	515.9	525.0	513.7	492.4	476.1	448.3	431.3
52.5°	440.5	452.6	471.8	492.4	507.3	518.6	500.2	486.7	464.7	435.6	424.9
55°	426.3	433.5	467.5	488.9	496.7	504.4	497.4	475.3	452.6	422.8	412.1
57.5°	407.8	424.2	451.9	481.7	491.6	495.9	484.6	466.8	438.4	412.1	395.0
60°	388.6	405.7	436.2	460.4	470.4	486.0	468.9	458.3	425.6	396.4	378.0
62.5°	369.5	388.6	411.4	441.9	450.4	456.8	452.6	437.7	411.4	378.7	356.0
65°	346.7	361.0	389.4	405.0	410.7	425.6	410.7	405.0	381.6	350.3	331.1
67.5°	312.6	324.7	349.6	364.5	368.8	375.2	374.4	368.0	341.8	320.4	303.4
70°	273.6	284.2	299.8	317.6	319.7	327.6	320.4	319.0	302.0	272.8	263.6
72.5°	219.6	229.5	250.1	257.9	258.6	261.5	257.9	253.0	248.7	218.2	208.9
75°	168.4	174.1	184.0	191.2	191.2	194.7	192.6	187.5	176.2	157.0	147.8
77.5°	117.2	123.0	135.7	139.9	139.3	140.7	134.3	129.3	112.3	102.3	94.5
80°	85.3	88.8	95.2	98.1	98.7	100.9	93.1	88.8	78.9	67.5	63.9
82.5°	61.8	63.9	64.7	68.2	68.2	64.7	62.5	58.3	51.1	44.1	41.2
85°	25.6	26.3	27.0	31.3	32.0	38.3	35.5	33.4	29.1	24.9	22.7
87.5°	6.4	7.1	9.3	7.8	9.3	9.3	9.9	11.4	11.4	9.3	9.3
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°	2175.6	2175.6	2175.6	2175.6	2175.6	2175.6	2175.6	2175.6	2175.6	2175.6	2175.6
2.5°	1937.6	1943.3	2015.8	2025.0	2060.5	2096.8	2169.9	2222.5	2265.1	2292.8	2300.6
5°	1639.9	1676.1	1709.5	1763.5	1812.5	1882.2	1962.5	2062.0	2187.0	2250.9	2276.5
7.5°	1284.0	1326.5	1374.9	1427.4	1499.2	1624.2	1731.5	1846.7	2006.5	2072.6	2172.8
10°	1048.1	1095.7	1159.6	1200.1	1286.7	1406.2	1531.2	1664.1	1816.8	1912.0	2027.8
12.5°	926.5	965.6	1024.6	1109.9	1174.5	1251.9	1345.0	1512.7	1731.5	1821.8	1901.3
15°	792.2	835.5	903.8	998.3	1075.7	1168.1	1272.5	1455.2	1688.2	1827.5	1894.9
17.5°	681.4	712.7	784.4	866.1	955.0	1055.9	1205.7	1452.3	1733.6	1912.0	2022.2
20°	604.7	608.9	648.0	717.6	838.4	969.8	1164.5	1438.1	1879.3	2057.7	2196.9
22.5°	556.3	552.1	552.8	611.7	696.3	885.3	1099.9	1486.4	2044.9	2289.3	2383.1
25°	532.2	520.8	513.7	526.5	603.2	785.2	1050.8	1550.4	2223.3	2480.4	2595.6
27.5°	519.4	499.5	485.3	487.4	543.5	734.7	1020.3	1578.1	2400.1	2746.9	2787.4
30°	514.4	489.5	468.9	461.9	498.8	664.3	955.0	1625.7	2558.6	2893.2	2928.0
32.5°	496.7	466.1	446.2	439.8	454.7	602.5	908.0	1659.8	2698.6	3052.4	3040.3
35°	476.1	450.4	425.6	413.5	424.2	562.7	870.4	1643.4	2863.4	3176.0	3169.6
37.5°	473.9	440.5	419.9	400.1	399.3	513.7	819.2	1659.0	2968.6	3397.7	3310.3
40°	455.5	434.1	407.1	390.8	381.6	488.9	769.5	1622.1	3122.7	3487.2	3401.3
42.5°	456.2	424.2	400.7	381.6	372.3	452.6	735.4	1612.2	3176.7	3632.9	3443.9
45°	444.8	413.5	393.6	370.9	365.9	424.9	702.7	1566.0	3272.0	3640.0	3390.6
47.5°	433.5	405.7	384.4	357.4	346.0	414.9	677.1	1527.6	3222.2	3573.2	3316.7
50°	425.6	393.6	373.7	354.6	322.6	397.9	643.7	1518.4	3152.6	3483.0	3179.6
52.5°	412.1	383.7	363.1	348.2	297.0	382.2	630.9	1572.4	3237.8	3415.5	3139.8
55°	399.3	370.2	343.9	314.8	275.7	341.0	595.4	1622.8	3362.2	3571.1	3320.3
57.5°	385.9	358.1	329.7	294.9	255.1	298.4	558.5	1632.0	3129.1	3300.4	3151.9
60°	368.0	332.5	311.2	265.8	233.0	247.3	442.6	1438.8	2427.1	2756.1	2761.1
62.5°	348.2	309.8	291.3	238.0	210.3	213.2	361.0	1209.3	1968.9	2281.5	2417.2
65°	321.9	284.9	262.9	220.3	193.9	184.8	264.3	886.0	1495.6	1850.9	2005.1
67.5°	287.8	253.0	225.2	191.8	173.3	158.4	180.5	498.8	883.2	1242.7	1289.6
70°	251.5	221.7	192.6	164.8	144.2	133.6	132.1	220.9	422.0	668.6	760.9
72.5°	198.2	176.9	153.5	132.9	119.3	103.7	94.5	91.7	142.8	272.1	375.8
75°	142.1	124.3	110.8	97.3	87.4	78.9	71.7	65.3	59.7	68.2	93.8
77.5°	89.6	83.1	72.5	69.0	63.2	61.1	58.3	54.7	50.5	47.6	47.6
80°	60.4	56.1	52.6	51.9	49.7	49.0	49.7	46.2	41.9	38.3	39.8
82.5°	40.5	39.8	39.1	38.3	39.1	39.8	41.2	40.5	36.9	34.8	35.5
85°	24.1	25.6	27.0	28.4	31.3	27.7	22.7	19.2	17.1	15.6	14.9
87.5°	9.3	12.8	11.4	10.7	11.4	10.7	9.9	9.3	7.8	7.1	7.1
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°	2175.6	2175.6	2175.6	2175.6	2175.6	2175.6	2175.6	2175.6	2175.6	2175.6
2.5°	2352.5	2366.7	2378.9	2376.0	2351.1	2317.7	2304.3	2235.3	2221.1	2211.8
5°	2384.5	2466.9	2484.7	2474.1	2409.4	2327.6	2248.1	2147.2	2088.2	2086.1
7.5°	2325.5	2427.1	2459.1	2483.3	2397.3	2255.2	2118.8	1967.4	1930.5	1933.4
10°	2175.6	2337.6	2416.5	2441.3	2342.6	2219.7	2030.7	1877.2	1798.3	1796.9
12.5°	2092.5	2219.7	2241.7	2276.5	2247.4	2123.0	1979.5	1807.6	1730.9	1729.4
15°	2018.6	2102.4	2108.8	2157.8	2173.5	2089.6	1993.0	1809.7	1747.9	1741.5
17.5°	2083.2	2025.0	2000.8	2007.2	2053.4	2084.0	2071.2	1930.5	1867.3	1831.7
20°	2126.6	1996.5	1923.4	1930.5	1985.2	2096.8	2187.7	2105.3	2005.1	2009.3
22.5°	2242.4	2000.8	1886.4	1878.6	1965.3	2163.6	2319.1	2326.3	2229.7	2206.2
25°	2415.8	2049.9	1875.1	1872.9	1956.1	2235.3	2472.6	2587.8	2488.9	2445.6
27.5°	2555.0	2126.6	1910.6	1917.7	1985.2	2293.6	2603.3	2756.1	2680.8	2627.5
30°	2677.2	2206.2	1960.4	1927.7	2063.4	2324.1	2659.5	2948.0	2887.6	2843.5
32.5°	2727.7	2319.1	2039.2	1985.2	2128.0	2361.1	2776.0	3134.2	3082.3	2973.5
35°	2813.0	2382.4	2081.8	2077.6	2241.0	2449.9	2830.7	3257.0	3235.7	3139.1
37.5°	2881.2	2446.3	2233.2	2186.3	2395.9	2599.1	2918.9	3426.8	3377.8	3332.4
40°	2933.7	2560.8	2374.6	2436.4	2586.3	2734.8	2999.8	3437.5	3578.9	3446.8
42.5°	2885.5	2663.0	2606.9	2754.7	2896.8	2889.7	3009.1	3519.9	3625.8	3556.8
45°	2873.4	2836.4	2974.3	3108.5	3141.2	3018.3	2943.0	3429.0	3611.6	3581.1
47.5°	2844.3	3006.9	3247.1	3465.9	3416.2	3104.3	2864.1	3412.6	3620.1	3565.4
50°	2834.3	3043.9	3448.9	3662.1	3632.2	3178.9	2827.2	3307.5	3559.7	3554.7
52.5°	2833.6	3119.9	3532.7	3768.6	3787.1	3296.8	2877.6	3360.8	3606.6	3648.5
55°	2865.5	3095.7	3522.0	3709.7	3702.5	3244.2	2883.3	3396.3	3664.2	3705.4
57.5°	2702.8	2773.2	2906.7	3055.3	3016.9	2687.2	2575.0	3139.8	3362.9	3333.1
60°	2334.0	2113.8	1963.1	1956.1	1881.5	1778.5	2107.4	2802.3	2802.3	2773.2
62.5°	2044.1	1387.6	1192.3	1136.9	1190.1	1308.8	2032.8	2725.6	2648.1	2614.8
65°	1787.7	1059.4	861.9	846.2	938.6	1117.7	1838.1	2322.0	2185.6	2074.7
67.5°	1150.3	775.9	640.9	613.2	724.8	820.6	1223.5	1428.2	1342.2	1298.8
70°	741.8	505.2	356.7	334.6	378.0	505.9	781.5	832.8	707.7	678.5
72.5°	351.0	218.2	125.1	103.0	115.8	193.3	309.1	332.5	276.4	253.0
75°	111.5	80.3	51.1	44.1	41.9	49.7	71.1	54.7	39.8	39.1
77.5°	49.7	47.6	40.5	34.1	29.9	24.9	20.6	17.1	17.7	18.5
80°	41.2	37.7	33.4	29.9	24.9	19.2	14.9	11.4	11.4	12.1
82.5°	36.2	32.7	29.1	24.9	21.3	15.6	11.4	7.8	7.1	7.1
85°	15.6	18.5	19.9	21.3	17.1	12.8	7.8	5.0	4.3	4.3
87.5°	6.4	5.7	5.0	4.3	3.5	3.5	2.9	2.1	1.4	1.4
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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