

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: P531668

Luminaire Tested: **GALN-SA7A-727-U-SLL-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P531668
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-24)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7A-727-U-SLL-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR LEFT OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19839 lumens
Efficiency: N/A
Efficacy: 92.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

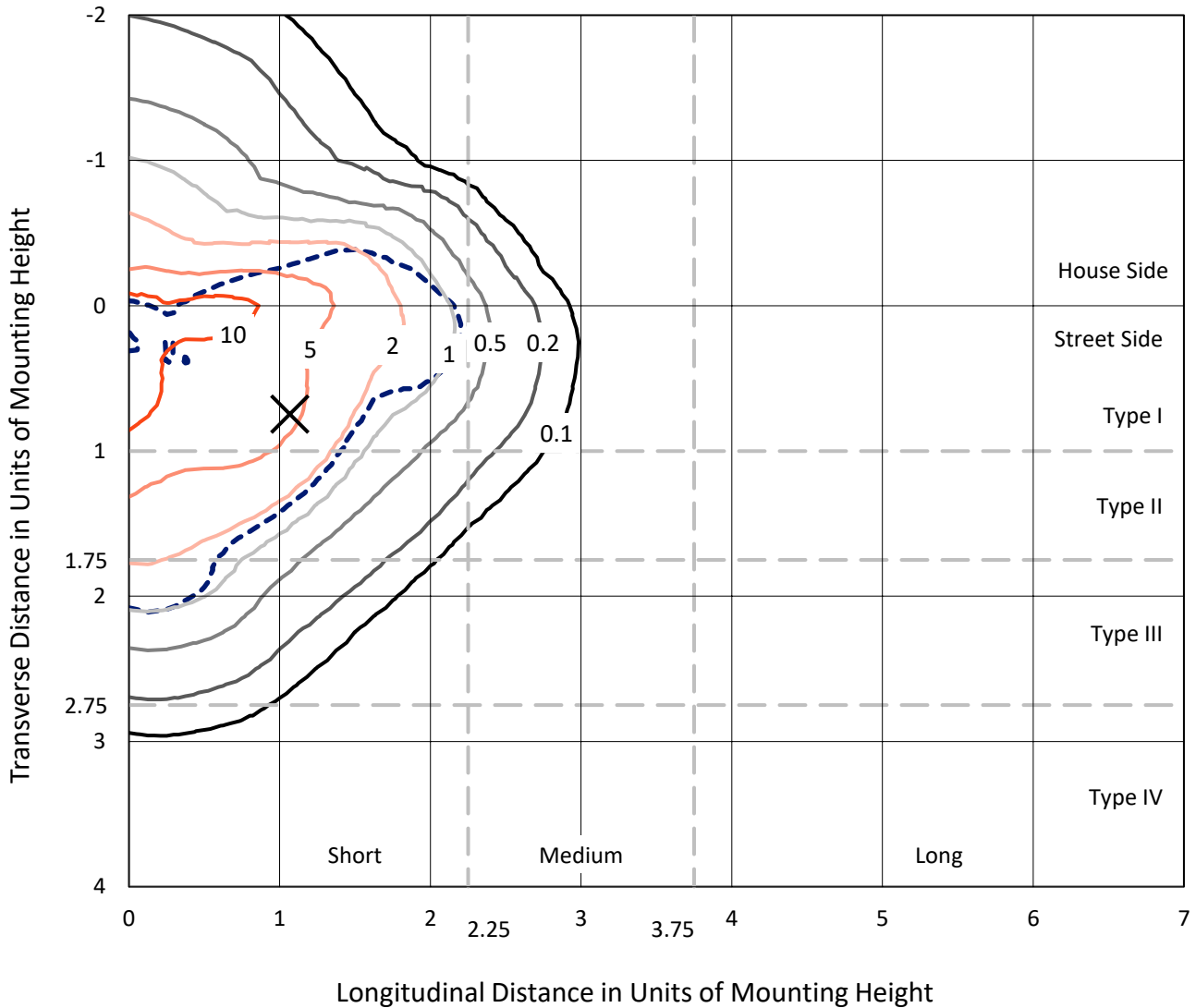
Input Watts (W): 215
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

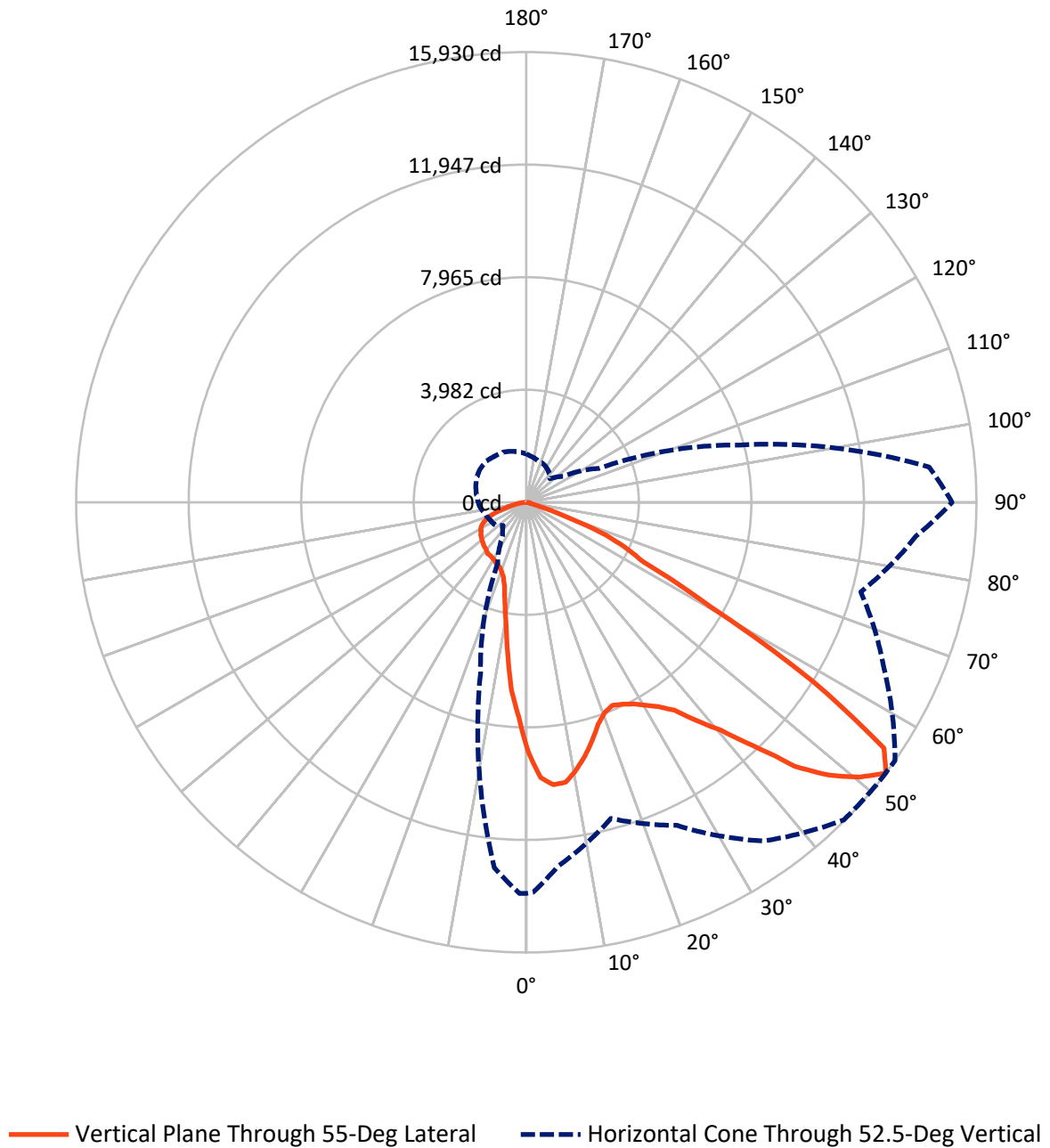
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.1 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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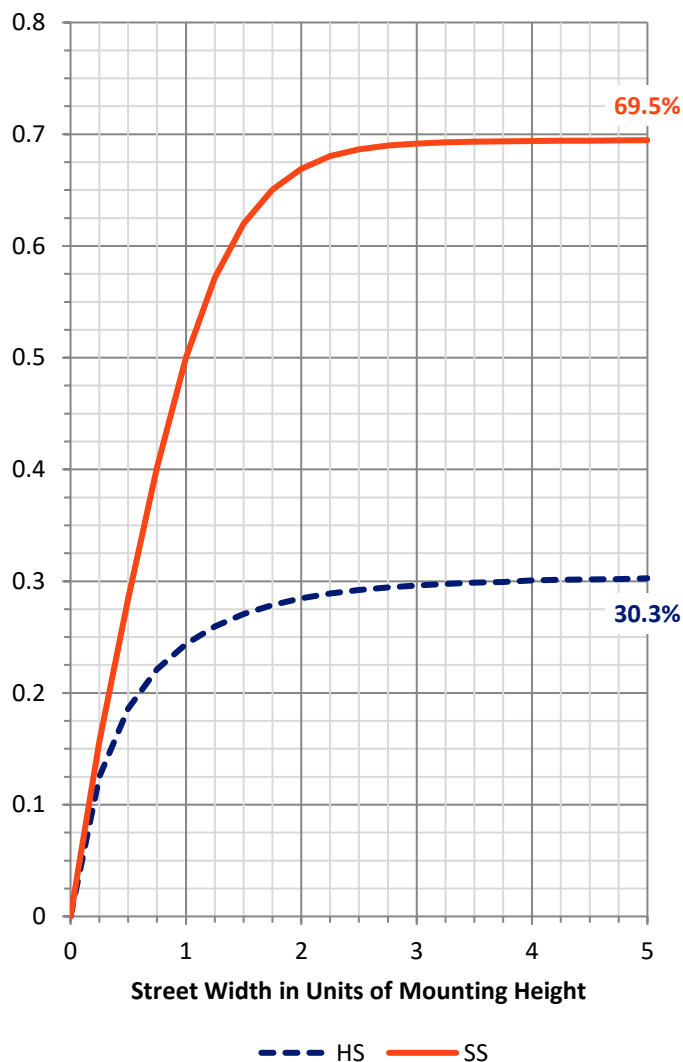
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6052.0	0.0	6052.0
	% Fixture	30.5	0.0	30.5
Street Side	Lumens	13787.0	0.0	13787.0
	% Fixture	69.5	0.0	69.5
Total	Lumens	19839.0	0.0	19839.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	676.1	3.4
10°-20°	1457.8	7.3
20°-30°	2210.4	11.1
30°-40°	3193.8	16.1
40°-50°	4267.7	21.5
50°-60°	4763.7	24.0
60°-70°	2613.1	13.2
70°-80°	565.0	2.8
80°-90°	91.4	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°	19839.0	100.0
0°-180°	19839.0	100.0

Coefficient of Utilization



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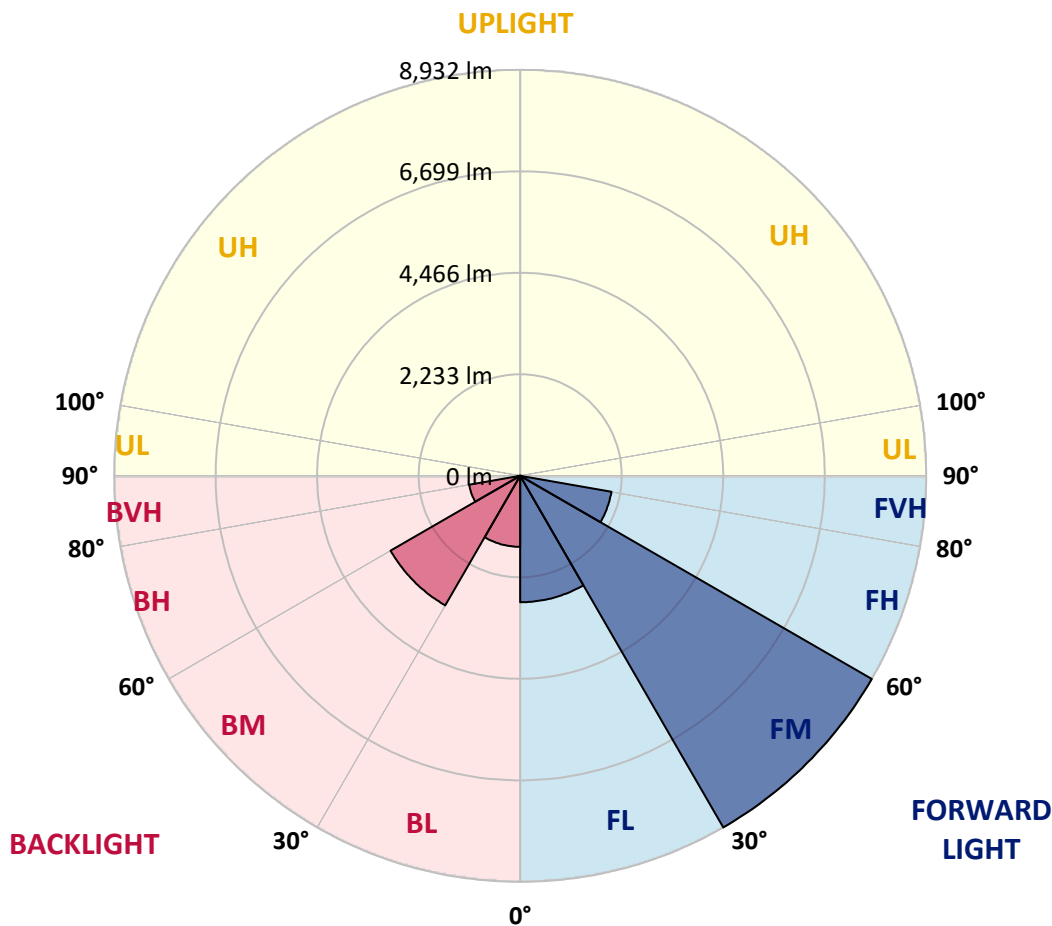
CATALOG NUMBER: GALN-SA7A-727-U-SLL-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2781.8	14.0			
FM (30°-60°)	8932.5	45.0			
FH (60°-80°)	2039.0	10.3			G2/5000
FVH (80°-90°)	33.8	0.2			G1/100
BL (0°-30°)	1562.5	7.9	B3/2500		
BM (30°-60°)	3292.8	16.6	B3/5000		
BH (60°-80°)	1139.1	5.7	B3/2500		G3/2500
BVH (80°-90°)	57.6	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	8849.7	8849.7	8849.7	8849.7	8849.7	8849.7	8849.7	8849.7	8849.7	8849.7	8849.7
2.5°	9287.1	9235.0	9281.4	9501.5	9629.0	9715.9	9770.9	9762.2	9553.7	9350.9	9350.9
5°	9014.8	8948.2	9043.8	9542.1	10043.2	10086.7	10159.1	10040.3	9733.3	9362.5	8899.0
7.5°	8226.9	8276.2	8435.5	9090.2	9741.9	10069.3	10156.2	10005.6	9507.3	8815.0	8134.2
10°	7546.2	7662.0	8029.9	8736.8	9336.4	9762.2	9857.8	9646.3	9252.4	8403.6	7795.3
12.5°	7311.5	7239.1	7647.6	8354.4	8927.9	9156.8	9200.2	9214.7	8948.2	8195.1	7453.5
15°	7282.6	7328.9	7647.6	8183.5	8536.9	8548.5	8620.9	8733.9	8768.6	8337.0	7612.8
17.5°	7699.7	7644.7	7972.0	8397.8	8229.8	8061.8	8079.2	8241.4	8528.2	8458.7	8113.9
20°	8316.7	8441.3	8699.1	8655.6	8203.7	7777.9	7780.8	7934.3	8499.2	8962.7	8812.1
22.5°	9342.2	9463.9	9655.0	9130.7	8203.7	7693.9	7595.4	7804.0	8684.6	9562.3	9600.0
25°	10277.9	10500.9	10553.0	9936.0	8615.1	7772.1	7708.4	7914.1	8870.0	10147.5	10503.8
27.5°	11129.5	11210.6	11439.5	10454.6	8843.9	7824.3	7818.5	8082.1	9104.6	10440.1	11312.0
30°	11801.6	11792.9	11923.2	10781.9	9208.9	8116.8	7835.8	8334.1	9411.7	10923.8	12059.4
32.5°	12259.3	12357.8	12633.0	11236.7	9362.5	8394.9	8174.8	8629.6	9785.4	11152.7	12586.6
35°	13064.6	13235.5	12887.9	11488.7	9849.1	8670.1	8412.3	9032.2	9970.8	11401.8	13232.6
37.5°	13823.5	13693.2	13339.8	11624.9	10164.9	9180.0	8939.5	9811.5	10547.3	11943.5	13661.3
40°	14310.2	14307.3	13678.7	11734.9	10387.9	9959.2	9944.7	10602.3	11254.1	12285.3	14142.2
42.5°	14521.7	14724.4	13817.7	11723.4	10857.2	10903.6	11196.1	11784.2	11755.2	12354.9	14130.6
44°	14811.3	14933.0	14058.2	11749.4	11170.1	11540.9	12230.3	12604.0	12192.6	12317.2	14116.1
45°	14799.8	14808.4	13716.4	11784.2	11436.6	12073.9	12690.9	13322.4	12577.9	12236.1	14307.3
47.5°	14460.8	14362.3	13426.7	11526.4	12268.0	13481.7	14052.4	14434.8	13053.0	12062.3	14069.8
50°	13791.7	13678.7	12722.8	11416.3	12441.8	14356.5	15144.5	15283.5	13484.6	11891.4	13835.1
52.5°	13838.0	13806.2	12922.6	11581.4	12615.6	14631.7	15894.7	15929.5	13974.2	12250.6	13838.0
55°	14666.5	14556.4	13496.2	11787.1	12488.1	14310.2	15416.8	15355.9	13809.1	12033.3	14092.9
57.5°	13420.9	13493.3	12702.5	10973.1	10929.6	11633.6	12120.2	11969.6	11523.5	10860.1	13110.9
60°	10828.2	11033.9	11109.2	9177.1	8247.2	7885.1	7740.3	7473.7	7549.1	8922.1	11517.7
62.5°	9287.1	9275.6	9747.7	8319.6	5402.5	4646.5	4576.9	4637.8	5506.8	8783.1	11280.1
65°	7363.7	7560.7	7705.5	7050.8	4275.7	3450.1	3447.2	3832.5	4765.2	7340.5	9107.5
67.5°	4675.4	4933.3	5112.9	4510.3	2859.1	2456.5	2389.9	2853.3	3302.4	4814.5	5483.6
70°	2636.1	2757.8	2838.9	2601.3	1819.2	1274.6	1199.3	1309.4	1995.9	3117.0	3250.2
72.5°	1016.8	1071.8	1181.9	1190.6	686.5	411.3	333.1	399.8	840.1	1234.0	1176.1
75°	156.4	168.0	237.5	283.9	197.0	150.6	159.3	165.1	234.6	318.6	266.5
77.5°	75.3	75.3	72.4	84.0	98.5	107.2	115.9	127.5	139.0	153.5	147.7
80°	49.2	49.2	49.2	57.9	72.4	86.9	98.5	104.3	110.1	121.7	115.9
82.5°	31.9	31.9	31.9	43.5	57.9	72.4	78.2	92.7	104.3	121.7	113.0
85°	17.4	17.4	17.4	29.0	43.5	60.8	57.9	46.3	26.1	2.9	5.8
87.5°	5.8	5.8	5.8	5.8	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°	8849.7	8849.7	8849.7	8849.7	8849.7	8849.7	8849.7	8849.7	8849.7	8849.7	8849.7
2.5°	9107.5	8974.3	8962.7	8690.4	8447.1	8328.3	8232.7	7966.2	8024.1	7870.6	7867.7
5°	8667.2	8394.9	7954.6	7592.5	7230.4	7158.0	6842.2	6567.0	6575.7	6378.8	6413.5
7.5°	7876.4	7688.1	7152.2	6584.4	6103.6	5761.7	5463.4	5283.8	5054.9	4976.7	4936.1
10°	7375.3	7143.5	6541.0	5828.4	5289.6	5107.1	4820.3	4661.0	4426.3	4310.4	4229.3
12.5°	7155.1	6816.2	6063.0	5338.8	4979.6	4791.3	4548.0	4258.3	3980.2	3873.0	3725.3
15°	7178.3	6772.7	5924.0	5141.8	4710.2	4345.2	4127.9	3806.4	3522.5	3334.2	3227.0
17.5°	7528.8	7036.3	5987.7	4991.2	4371.3	3913.6	3487.7	3140.1	2914.2	2772.2	2737.5
20°	8357.3	7688.1	6094.9	4747.9	4032.3	3461.7	2937.4	2575.3	2401.4	2398.6	2401.4
22.5°	9046.7	8383.3	6312.1	4603.0	3693.4	2882.3	2360.9	2245.0	2210.3	2282.7	2291.4
25°	9976.6	9165.5	6685.8	4527.7	3380.6	2456.5	2134.9	2091.5	2088.6	2181.3	2184.2
27.5°	10929.6	9849.1	6908.9	4307.5	3061.9	2236.3	1998.8	1990.1	2036.5	2134.9	2126.3
30°	11578.5	10422.7	7311.5	4043.9	2685.3	2042.2	1943.8	1955.3	2019.1	2094.4	2106.0
32.5°	12334.6	10987.6	7415.8	3899.1	2453.6	1880.0	1810.5	1836.6	1917.7	2036.5	2100.2
35°	13200.7	11387.3	7575.1	3702.1	2366.7	1755.5	1720.7	1749.7	1848.2	1926.4	1995.9
37.5°	13840.9	12094.1	7604.1	3548.6	2271.1	1685.9	1630.9	1726.5	1784.4	1894.5	1929.3
40°	14316.0	12606.9	7679.4	3453.0	2195.8	1596.1	1596.1	1659.9	1738.1	1839.5	1909.0
42.5°	14620.2	12980.6	7734.5	3366.1	2050.9	1570.1	1555.6	1619.3	1723.6	1822.1	1854.0
44°	14805.6	13139.9	7679.4	3285.0	2010.4	1538.2	1538.2	1593.2	1674.4	1790.2	1827.9
45°	14851.9	13339.8	7557.8	3282.1	1961.1	1500.5	1494.7	1599.0	1654.1	1796.0	1819.2
47.5°	15031.5	13586.0	7572.2	3189.4	1842.4	1410.7	1512.1	1558.5	1607.7	1732.3	1810.5
50°	15025.7	13739.5	7540.4	3053.2	1755.5	1309.4	1477.4	1529.5	1578.8	1706.2	1738.1
52.5°	15066.3	14313.1	7833.0	2836.0	1599.0	1179.0	1361.5	1477.4	1538.2	1645.4	1712.0
55°	15046.0	14640.4	8122.6	2673.7	1378.9	1100.8	1263.0	1399.2	1486.1	1599.0	1630.9
57.5°	13742.4	12940.0	7517.2	2369.6	1141.3	1008.1	1124.0	1318.0	1428.1	1544.0	1584.6
60°	11228.0	9973.7	6199.2	1743.9	938.6	927.0	1045.7	1292.0	1338.3	1439.7	1509.2
62.5°	10376.3	8748.3	4915.9	1332.5	802.4	848.8	964.6	1167.4	1239.8	1364.4	1428.1
65°	8119.7	5811.0	3044.5	900.9	706.8	761.9	871.9	1022.6	1141.3	1257.2	1332.5
67.5°	4808.7	3174.9	1506.3	631.5	617.0	675.0	787.9	900.9	1037.1	1164.5	1202.2
70°	2618.7	1561.4	643.1	480.9	524.3	576.5	686.5	764.8	895.1	993.6	1057.3
72.5°	840.1	475.1	321.5	356.3	399.8	460.6	527.2	622.8	715.5	773.4	825.6
75°	202.8	199.9	228.8	249.1	289.7	336.0	391.1	440.3	512.7	567.8	614.1
77.5°	141.9	153.5	176.7	205.7	220.2	237.5	272.3	310.0	341.8	382.4	411.3
80°	110.1	118.8	136.1	150.6	165.1	179.6	197.0	211.5	231.7	257.8	272.3
82.5°	104.3	110.1	127.5	136.1	130.4	127.5	139.0	144.8	147.7	156.4	165.1
85°	8.7	0.0	5.8	20.3	49.2	72.4	78.2	78.2	75.3	81.1	81.1
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.9	11.6	8.7
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°	8849.7	8849.7	8849.7	8849.7	8849.7	8849.7	8849.7	8849.7	8849.7	8849.7	8849.7
2.5°	7833.0	7734.5	7772.1	7818.5	7751.8	7598.3	7638.9	7621.5	7777.9	7766.3	7922.8
5°	6567.0	6413.5	6430.9	6656.8	6584.4	6662.6	6506.2	6485.9	6514.9	6529.4	6555.5
7.5°	5026.0	5005.7	5179.5	5370.7	5460.5	5367.8	5214.2	5179.5	5147.6	5083.9	5228.7
10°	4101.9	4107.7	4096.1	4240.9	4342.3	4322.0	4229.3	4217.7	4156.9	4133.7	4214.8
12.5°	3661.6	3583.3	3545.7	3499.3	3577.5	3629.7	3589.1	3560.2	3563.1	3592.0	3603.6
15°	3235.7	3186.5	3105.4	3053.2	3090.9	3064.8	3050.3	3108.3	3093.8	3088.0	3157.5
17.5°	2757.8	2798.3	2792.5	2734.6	2783.8	2763.5	2760.7	2720.1	2665.1	2624.5	2647.7
20°	2442.0	2517.3	2575.3	2578.2	2604.2	2601.3	2557.9	2433.3	2392.8	2384.1	2389.9
22.5°	2329.0	2369.6	2439.1	2537.6	2537.6	2491.2	2439.1	2294.3	2256.6	2216.1	2198.7
25°	2239.2	2317.4	2407.2	2418.8	2465.2	2421.7	2337.7	2265.3	2187.1	2132.0	2132.0
27.5°	2192.9	2279.8	2346.4	2366.7	2430.4	2395.7	2308.8	2216.1	2123.4	2120.5	2071.2
30°	2172.6	2253.7	2297.2	2346.4	2375.4	2320.3	2294.3	2195.8	2103.1	2079.9	1998.8
32.5°	2111.8	2227.6	2308.8	2297.2	2320.3	2297.2	2259.5	2178.4	2074.1	2022.0	2013.3
35°	2042.2	2158.1	2245.0	2305.9	2320.3	2271.1	2247.9	2137.8	1995.9	1969.8	1880.0
37.5°	2004.6	2074.1	2181.3	2279.8	2300.1	2274.0	2195.8	2082.8	1940.9	1911.9	1833.7
40°	1958.2	2048.0	2132.0	2213.2	2274.0	2210.3	2120.5	2010.4	1946.7	1859.7	1836.6
42.5°	1923.5	2024.9	2094.4	2184.2	2253.7	2169.7	2065.4	1990.1	1900.3	1842.4	1775.7
44°	1911.9	2004.6	2050.9	2161.0	2218.9	2155.2	2068.3	1990.1	1885.8	1833.7	1775.7
45°	1871.3	1998.8	2048.0	2146.5	2195.8	2143.6	2033.6	1955.3	1880.0	1816.3	1755.5
47.5°	1830.8	1917.7	2001.7	2079.9	2114.7	2097.3	2004.6	1909.0	1819.2	1781.5	1723.6
50°	1819.2	1906.1	1984.3	2056.7	2097.3	2062.5	1978.5	1885.8	1781.5	1720.7	1671.5
52.5°	1761.3	1868.4	1955.3	1978.5	2030.7	2010.4	1946.7	1845.3	1746.8	1694.6	1654.1
55°	1677.2	1790.2	1909.0	1938.0	2013.3	1981.4	1885.8	1790.2	1706.2	1628.0	1575.9
57.5°	1645.4	1755.5	1871.3	1909.0	1955.3	1903.2	1880.0	1778.6	1645.4	1604.8	1523.7
60°	1564.3	1703.3	1798.9	1885.8	1888.7	1874.2	1833.7	1717.8	1607.7	1532.4	1474.5
62.5°	1500.5	1630.9	1706.2	1787.3	1836.6	1796.0	1755.5	1648.3	1529.5	1445.5	1378.9
65°	1407.8	1526.6	1590.3	1639.6	1694.6	1688.8	1619.3	1541.1	1416.5	1349.9	1286.2
67.5°	1265.9	1370.2	1457.1	1503.4	1538.2	1529.5	1477.4	1422.3	1294.9	1228.2	1181.9
70°	1095.0	1202.2	1257.2	1283.3	1318.0	1335.4	1294.9	1268.8	1155.8	1068.9	1025.5
72.5°	880.6	950.2	1031.3	1054.4	1068.9	1080.5	1080.5	1057.3	941.5	906.7	831.4
75°	648.9	703.9	764.8	764.8	790.8	793.7	799.5	785.0	698.1	651.8	634.4
77.5°	440.3	480.9	530.1	550.4	567.8	564.9	562.0	521.4	475.1	454.8	437.4
80°	286.8	327.3	350.5	376.6	394.0	391.1	396.9	367.9	347.6	312.9	318.6
82.5°	170.9	202.8	226.0	257.8	257.8	266.5	266.5	257.8	237.5	220.2	220.2
85°	81.1	107.2	121.7	141.9	153.5	156.4	139.0	118.8	98.5	89.8	98.5
87.5°	14.5	20.3	29.0	26.1	31.9	29.0	29.0	29.0	29.0	23.2	26.1
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°	8849.7	8849.7	8849.7	8849.7	8849.7	8849.7	8849.7	8849.7	8849.7	8849.7
2.5°	7864.8	8009.7	8111.0	8279.1	8568.7	8800.5	9038.0	9214.7	9235.0	9287.1
5°	6651.1	6729.3	6987.1	7323.1	7560.7	7951.7	8203.7	8661.4	8832.3	9014.8
7.5°	5194.0	5321.4	5666.1	5892.1	6413.5	6903.1	7410.0	7974.9	8200.8	8226.9
10°	4380.0	4565.4	4800.0	5162.1	5446.0	5990.6	6622.1	7250.7	7502.7	7546.2
12.5°	3847.0	4084.5	4397.3	4658.1	4930.4	5405.4	6010.9	6787.2	7114.5	7311.5
15°	3334.2	3580.4	3925.2	4287.3	4527.7	5095.5	5808.1	6682.9	7108.8	7282.6
17.5°	2807.0	3035.8	3319.7	3710.8	4194.6	4831.9	5776.2	7030.5	7496.9	7699.7
20°	2355.1	2482.6	2812.8	3215.4	3820.9	4562.5	5787.8	7543.3	8226.9	8316.7
22.5°	2178.4	2207.4	2337.7	2708.5	3371.9	4287.3	5993.5	8270.4	9046.7	9342.2
25°	2042.2	2036.5	2071.2	2320.3	3044.5	4180.1	6196.3	8939.5	9956.3	10277.9
27.5°	1966.9	1909.0	1911.9	2146.5	2812.8	4006.3	6457.0	9707.2	10987.6	11129.5
30°	1929.3	1917.7	1882.9	1978.5	2560.8	3745.6	6500.4	10463.2	11595.9	11801.6
32.5°	1906.1	1793.1	1749.7	1784.4	2323.2	3461.7	6662.6	10961.5	12349.1	12259.3
35°	1790.2	1688.8	1659.9	1694.6	2155.2	3302.4	6555.5	11396.0	12913.9	13064.6
37.5°	1746.8	1657.0	1599.0	1570.1	1998.8	3169.1	6500.4	12065.2	13461.4	13823.5
40°	1706.2	1610.6	1541.1	1512.1	1877.1	2992.4	6483.0	12580.8	14092.9	14310.2
42.5°	1659.9	1599.0	1520.8	1468.7	1729.4	2815.7	6283.2	12740.1	14287.0	14521.7
44°	1645.4	1552.7	1471.6	1454.2	1671.5	2725.9	6242.6	12885.0	14455.0	14811.3
45°	1630.9	1544.0	1451.3	1428.1	1651.2	2676.6	6187.6	12919.7	14733.1	14799.8
47.5°	1590.3	1535.3	1445.5	1381.8	1607.7	2569.5	6022.5	12722.8	14449.2	14460.8
50°	1558.5	1494.7	1402.1	1277.5	1549.8	2479.7	6097.8	12650.3	13765.6	13791.7
52.5°	1523.7	1428.1	1376.0	1161.6	1454.2	2404.3	6257.1	12977.7	13843.8	13838.0
55°	1483.2	1378.9	1251.4	1063.1	1294.9	2308.8	6642.4	13623.7	14568.0	14666.5
57.5°	1419.4	1329.6	1147.1	976.2	1112.4	2126.3	6517.8	12386.7	13403.5	13420.9
60°	1335.4	1251.4	1040.0	909.6	912.5	1677.2	5828.4	9652.1	10576.2	10828.2
62.5°	1254.3	1208.0	950.2	814.0	776.3	1335.4	4927.5	8021.2	9078.6	9287.1
65°	1158.7	1045.7	871.9	741.6	666.3	935.7	3490.6	5993.5	7082.7	7363.7
67.5°	1037.1	915.4	767.7	651.8	570.7	625.7	1801.8	3406.6	4510.3	4675.4
70°	906.7	793.7	646.0	550.4	460.6	431.6	793.7	1625.1	2465.2	2636.1
72.5°	744.5	640.2	515.6	434.5	344.7	298.4	266.5	434.5	874.8	1016.8
75°	538.8	466.4	388.2	310.0	243.3	191.2	156.4	130.4	144.8	156.4
77.5°	396.9	338.9	286.8	220.2	170.9	136.1	107.2	81.1	78.2	75.3
80°	310.0	275.2	228.8	176.7	133.3	101.4	75.3	55.0	49.2	49.2
82.5°	243.3	226.0	188.3	144.8	110.1	81.1	55.0	37.7	31.9	31.9
85°	92.7	92.7	136.1	118.8	84.0	57.9	37.7	20.3	17.4	17.4
87.5°	23.2	23.2	23.2	23.2	20.3	17.4	17.4	8.7	5.8	5.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)