

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: P533282

Luminaire Tested: **GALN-SA8D-722-U-SLR-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533282
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-SA8D-722-U-SLR-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 2200K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH 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: 34200 lumens
Efficiency: N/A
Efficacy: 69.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B4 - U0 - G3

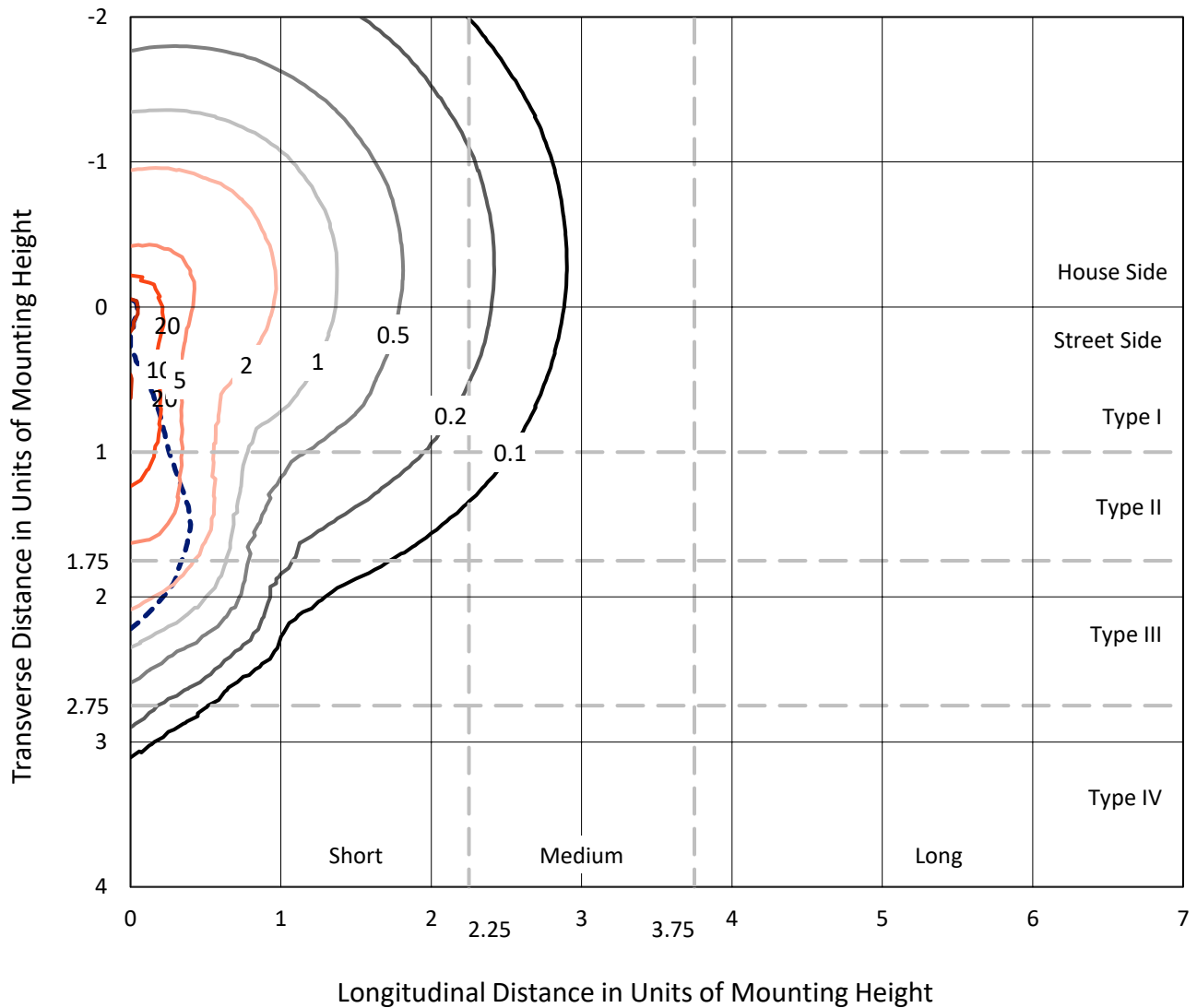
Input Watts (W): 493
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

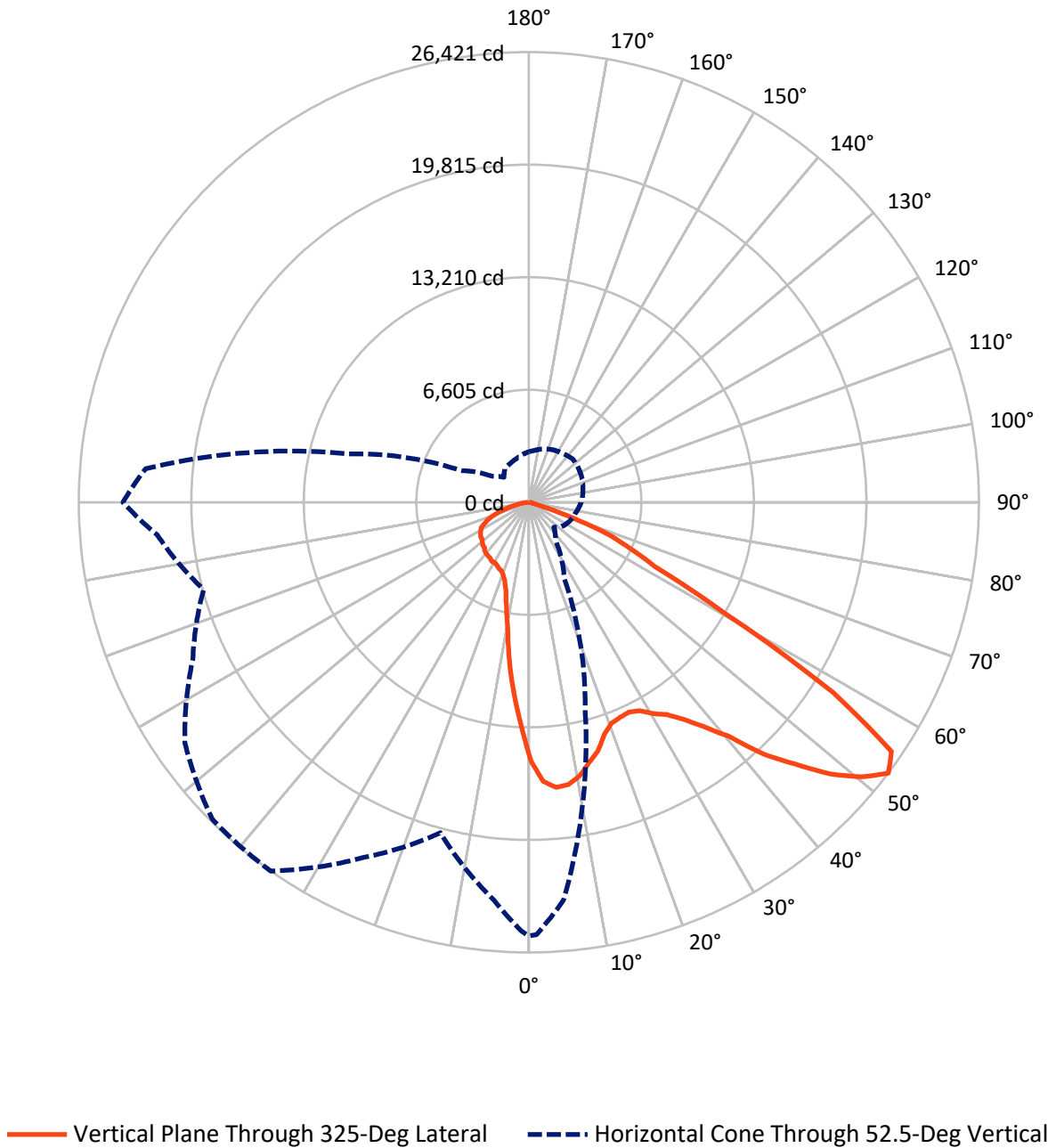
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 24.3 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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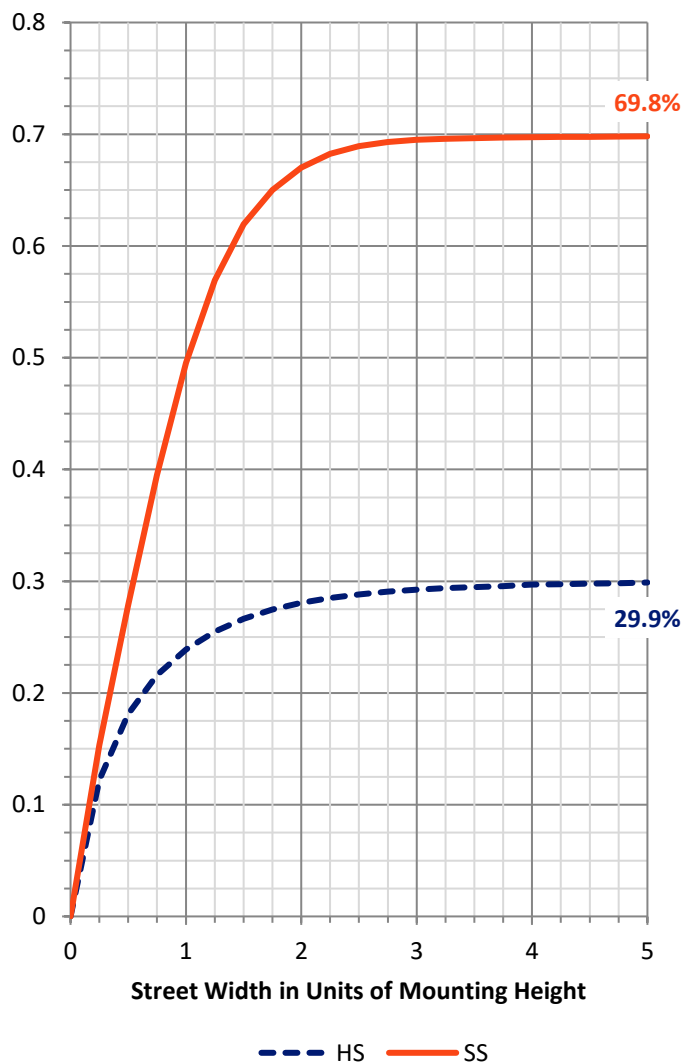
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10309.9	0.0	10309.9
	% Fixture	30.1	0.0	30.1
Street Side	Lumens	23890.1	0.0	23890.1
	% Fixture	69.9	0.0	69.9
Total	Lumens	34200.0	0.0	34200.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1158.0	3.4
10°-20°	2510.3	7.3
20°-30°	3792.8	11.1
30°-40°	5480.8	16.0
40°-50°	7294.0	21.3
50°-60°	8158.5	23.9
60°-70°	4598.1	13.4
70°-80°	1025.0	3.0
80°-90°	182.5	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°	34200.0	100.0
0°-180°	34200.0	100.0



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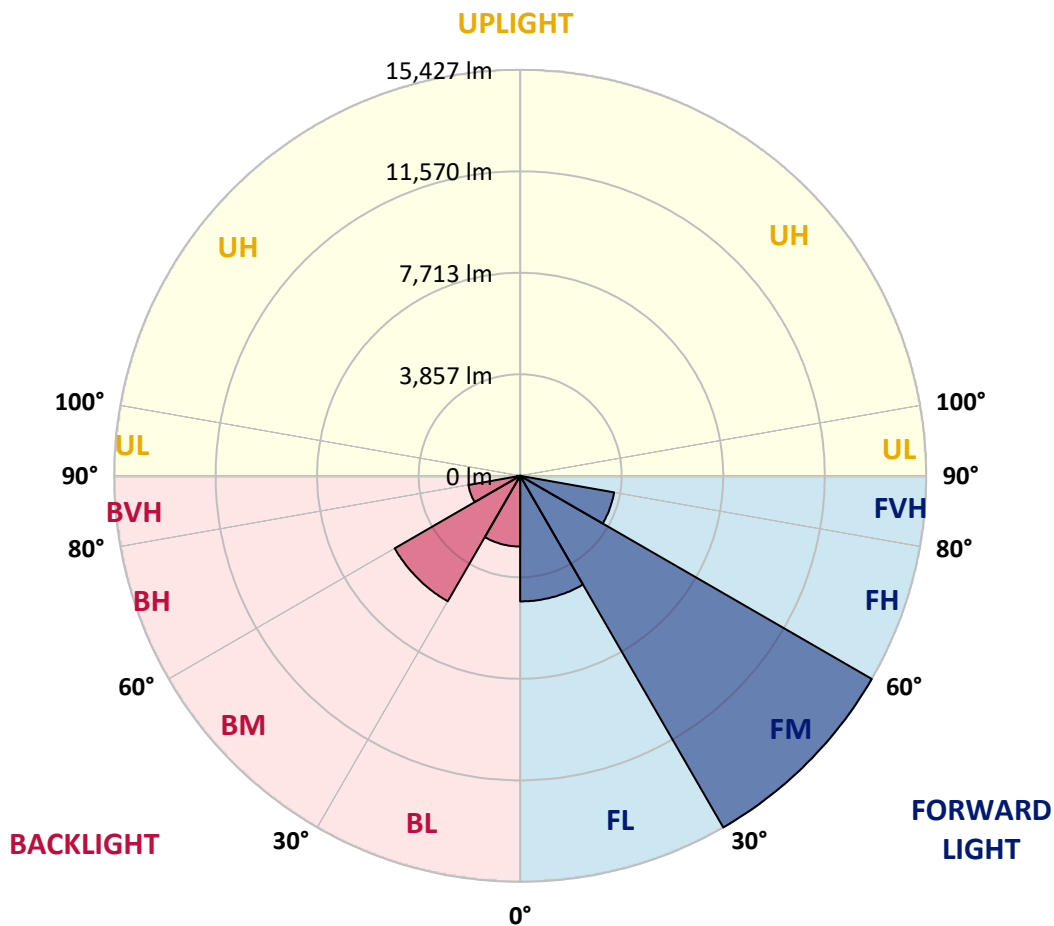
CATALOG NUMBER: GALN-SA8D-722-U-SLR-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4772.5	14.0			
FM (30°-60°)	15426.8	45.1			
FH (60°-80°)	3624.7	10.6			G2/5000
FVH (80°-90°)	66.1	0.2			G1/100
BL (0°-30°)	2688.6	7.9	B4/5000		
BM (30°-60°)	5506.5	16.1	B4/8500		
BH (60°-80°)	1998.4	5.8	B3/2500		G3/2500
BVH (80°-90°)	116.4	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G3

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	15178.2	15178.2	15178.2	15178.2	15178.2	15178.2	15178.2	15178.2	15178.2	15178.2	15178.2
2.5°	15431.0	15678.8	15411.1	14935.3	14598.2	14290.9	13968.7	13904.2	13482.9	13408.5	13101.2
5°	14553.6	14499.1	14171.9	13547.3	12858.3	12233.7	11772.7	11326.6	11024.2	10672.3	10647.5
7.5°	13487.9	13170.6	12982.2	12035.5	11182.9	10201.4	9780.1	9101.0	8887.8	8570.6	8407.0
10°	12536.1	12303.1	11862.0	10915.2	9725.5	9076.2	8625.1	8258.3	8010.4	7683.3	7271.8
12.5°	12065.2	11971.0	11475.3	10008.1	9125.7	8431.8	8114.5	7757.6	7336.3	6810.8	6607.6
15°	12149.5	11832.2	11455.5	9834.6	8615.2	7946.0	7440.4	6994.3	6453.9	5953.3	5660.8
17.5°	12779.0	12536.1	11782.7	9943.6	8421.9	7455.2	6538.2	5878.9	5393.2	4942.1	4738.8
20°	14018.2	13666.3	12818.7	10082.4	8005.5	6771.2	5720.3	4907.4	4386.9	4149.0	4079.6
22.5°	15391.3	15183.1	13829.9	10394.7	7673.4	6136.7	4852.9	4039.9	3846.6	3782.2	3911.0
25°	17061.8	16521.5	15401.2	10905.3	7415.6	5596.4	4119.2	3668.1	3569.0	3633.4	3782.2
27.5°	18330.8	18187.0	16501.7	11386.1	7063.6	4947.0	3707.8	3410.4	3440.1	3504.6	3643.4
30°	19837.7	19109.0	17567.4	11718.2	6746.4	4500.9	3420.3	3341.0	3370.7	3479.8	3549.2
32.5°	20744.8	20472.2	18236.6	12218.9	6379.6	4114.3	3197.2	3122.9	3167.5	3331.1	3494.6
35°	21899.8	21359.5	19064.4	12347.8	6121.8	3960.6	3038.6	2984.1	3088.2	3202.2	3385.6
37.5°	23248.1	22876.3	20209.5	12258.5	5983.0	3802.0	2904.8	2880.0	2954.3	3113.0	3326.1
40°	24046.1	23932.1	20809.3	12313.1	5764.9	3663.2	2751.1	2780.8	2934.5	3058.4	3266.6
42.5°	24814.5	24070.9	21696.6	12293.2	5626.1	3474.8	2766.0	2731.3	2850.2	2994.0	3192.3
45°	24983.0	24244.4	21904.7	12154.4	5457.6	3291.4	2652.0	2666.8	2810.6	2989.0	3117.9
47.5°	24874.0	24328.7	22291.4	12114.8	5299.0	3162.5	2483.4	2661.9	2746.1	2889.9	3073.3
50°	24799.6	24769.9	22618.5	12303.1	5085.8	2959.3	2280.2	2597.4	2681.7	2825.5	3023.7
52.5°	25453.9	25389.5	23436.4	12798.8	4917.3	2741.2	2072.0	2433.9	2637.1	2775.9	2969.2
55°	25850.5	25567.9	24839.3	13408.5	4634.7	2453.7	1928.3	2230.6	2528.0	2652.0	2850.2
57.5°	23253.0	23059.7	22469.8	12516.3	4158.9	2077.0	1749.8	2022.4	2379.3	2572.7	2775.9
60°	19347.0	19044.6	17532.7	10637.6	3068.3	1616.0	1640.7	1858.9	2339.7	2414.0	2652.0
62.5°	18241.6	17493.1	15435.9	8560.6	2354.5	1387.9	1472.2	1710.1	2131.5	2255.4	2493.3
65°	14474.3	13919.1	11044.1	6181.3	1576.3	1204.5	1343.3	1541.6	1839.0	2081.9	2300.0
67.5°	9061.3	8530.9	5893.8	2924.6	1100.4	1031.0	1199.6	1407.8	1650.7	1868.8	2111.7
70°	4733.9	4153.9	2721.4	1055.8	758.4	842.7	1001.3	1199.6	1437.5	1616.0	1804.3
72.5°	1764.7	1432.6	887.3	456.0	525.4	644.4	812.9	956.7	1125.2	1343.3	1447.4
75°	272.6	233.0	228.0	277.6	356.9	466.0	580.0	723.7	872.4	1011.2	1080.6
77.5°	128.9	123.9	138.8	183.4	237.9	332.1	421.3	560.1	679.1	768.3	808.0
80°	84.3	79.3	89.2	123.9	178.5	247.8	337.1	431.3	540.3	614.7	604.7
82.5°	49.6	54.5	54.5	84.3	123.9	178.5	242.9	327.2	401.5	466.0	426.3
85°	29.7	24.8	24.8	49.6	84.3	143.8	203.2	138.8	143.8	143.8	163.6
87.5°	9.9	9.9	9.9	5.0	9.9	9.9	14.9	24.8	29.7	34.7	44.6
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°	15178.2	15178.2	15178.2	15178.2	15178.2	15178.2	15178.2	15178.2	15178.2	15178.2	15178.2
2.5°	13091.3	13245.0	13190.4	12997.1	13145.8	13170.6	13071.5	13413.5	13477.9	13373.8	13403.6
5°	10612.8	10652.5	10741.7	10930.1	11063.9	11222.5	11222.5	11232.4	11098.6	11435.7	11336.5
7.5°	8268.2	8293.0	8397.1	8798.6	8912.6	9215.0	9343.8	9254.6	8986.9	8872.9	8967.1
10°	7138.0	6994.3	6959.6	7009.1	7266.9	7395.8	7504.8	7475.1	7430.5	7341.2	7242.1
12.5°	6384.5	6280.5	6196.2	6077.2	6092.1	6216.0	6300.3	6230.9	6250.7	6270.5	6300.3
15°	5566.7	5492.3	5447.7	5269.2	5249.4	5333.7	5363.4	5403.1	5477.4	5482.4	5447.7
17.5°	4699.2	4634.7	4733.9	4833.0	4763.6	4768.6	4823.1	4857.8	4838.0	4748.8	4704.1
20°	4104.4	4173.7	4272.9	4367.1	4441.4	4486.0	4505.9	4451.3	4386.9	4203.5	4198.5
22.5°	3930.9	4020.1	4104.4	4248.1	4317.5	4431.5	4327.4	4203.5	4114.3	4025.0	3920.9
25°	3802.0	3876.3	4044.9	4099.4	4233.2	4327.4	4253.1	4129.1	3975.5	3846.6	3767.3
27.5°	3707.8	3792.1	3901.1	4049.8	4153.9	4208.4	4134.1	4084.5	3925.9	3772.2	3658.2
30°	3648.3	3737.5	3935.8	4059.7	4149.0	4193.6	4064.7	4005.2	3891.2	3762.3	3663.2
32.5°	3608.7	3688.0	3856.5	4015.1	4074.6	4074.6	4094.4	4025.0	3866.4	3648.3	3564.0
35°	3479.8	3588.8	3727.6	3911.0	4020.1	4084.5	3985.4	3906.1	3802.0	3578.9	3425.3
37.5°	3405.4	3479.8	3658.2	3831.7	3925.9	3995.3	3955.6	3816.8	3678.1	3494.6	3370.7
40°	3326.1	3445.1	3603.7	3767.3	3871.4	3940.8	3911.0	3747.5	3578.9	3405.4	3321.2
42.5°	3271.6	3350.9	3514.5	3697.9	3821.8	3955.6	3866.4	3663.2	3544.2	3306.3	3212.1
45°	3227.0	3355.9	3529.3	3603.7	3732.6	3871.4	3712.8	3588.8	3450.0	3276.5	3197.2
47.5°	3172.4	3291.4	3405.4	3603.7	3663.2	3727.6	3697.9	3499.6	3380.6	3192.3	3137.7
50°	3152.6	3197.2	3405.4	3514.5	3598.7	3663.2	3583.9	3435.2	3321.2	3127.8	3008.9
52.5°	3073.3	3157.6	3291.4	3435.2	3539.3	3618.6	3489.7	3395.5	3241.8	3038.6	2964.3
55°	2974.2	3023.7	3261.7	3410.4	3464.9	3519.4	3469.9	3316.2	3157.6	2949.4	2875.0
57.5°	2845.3	2959.3	3152.6	3360.8	3430.2	3459.9	3380.6	3256.7	3058.4	2875.0	2756.1
60°	2711.4	2830.4	3043.6	3212.1	3281.5	3390.6	3271.6	3197.2	2969.2	2766.0	2637.1
62.5°	2577.6	2711.4	2870.1	3083.2	3142.7	3187.3	3157.6	3053.5	2870.1	2642.1	2483.4
65°	2419.0	2518.1	2716.4	2825.5	2865.1	2969.2	2865.1	2825.5	2661.9	2443.8	2309.9
67.5°	2181.1	2265.3	2438.8	2542.9	2572.7	2617.3	2612.3	2567.7	2384.3	2235.6	2116.6
70°	1908.4	1982.8	2091.8	2215.8	2230.6	2285.2	2235.6	2225.7	2106.7	1903.5	1839.0
72.5°	1531.7	1601.1	1744.8	1799.4	1804.3	1824.2	1799.4	1764.7	1734.9	1521.8	1457.3
75°	1174.8	1214.5	1283.8	1333.4	1333.4	1358.2	1343.3	1308.6	1229.3	1095.5	1031.0
77.5°	817.9	857.6	946.8	976.5	971.6	981.5	936.9	902.2	783.2	713.8	659.3
80°	594.8	619.6	664.2	684.1	689.0	703.9	649.4	619.6	550.2	470.9	446.1
82.5°	431.3	446.1	451.1	475.9	475.9	451.1	436.2	406.5	356.9	307.3	287.5
85°	178.5	183.4	188.4	218.1	223.1	267.7	247.8	233.0	203.2	173.5	158.6
87.5°	44.6	49.6	64.4	54.5	64.4	64.4	69.4	79.3	79.3	64.4	64.4
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):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	15178.2	15178.2	15178.2	15178.2	15178.2	15178.2	15178.2	15178.2	15178.2	15178.2	15178.2
2.5°	13517.6	13557.2	14062.9	14127.3	14375.1	14627.9	15138.5	15505.3	15802.7	15996.1	16050.6
5°	11440.6	11693.4	11926.4	12303.1	12645.2	13131.0	13691.1	14385.1	15257.5	15703.6	15882.1
7.5°	8957.2	9254.6	9591.7	9958.5	10459.2	11331.6	12080.1	12883.1	13998.4	14459.4	15158.3
10°	7311.5	7643.6	8089.7	8372.3	8977.0	9809.8	10682.2	11609.2	12674.9	13339.1	14147.1
12.5°	6463.9	6736.5	7147.9	7742.8	8193.8	8734.1	9383.5	10553.3	12080.1	12709.6	13264.8
15°	5527.0	5829.4	6305.2	6964.5	7504.8	8149.2	8877.9	10151.8	11777.7	12749.3	13220.2
17.5°	4753.7	4971.8	5472.5	6042.5	6662.1	7366.0	8411.9	10132.0	12094.9	13339.1	14107.5
20°	4218.4	4248.1	4520.7	5006.5	5849.2	6766.2	8124.4	10032.9	13111.1	14355.3	15326.9
22.5°	3881.3	3851.5	3856.5	4267.9	4857.8	6176.4	7673.4	10369.9	14266.1	15971.3	16625.6
25°	3712.8	3633.4	3583.9	3673.1	4208.4	5477.4	7331.3	10816.1	15510.3	17304.7	18107.7
27.5°	3623.5	3484.7	3385.6	3400.5	3792.1	5125.5	7118.2	11009.4	16744.6	19163.6	19446.1
30°	3588.8	3415.3	3271.6	3222.0	3479.8	4634.7	6662.1	11341.5	17850.0	20184.7	20427.6
32.5°	3464.9	3251.8	3113.0	3068.3	3172.4	4203.5	6335.0	11579.4	18826.5	21295.0	21210.8
35°	3321.2	3142.7	2969.2	2884.9	2959.3	3925.9	6072.3	11465.4	19976.5	22157.6	22112.9
37.5°	3306.3	3073.3	2929.6	2790.8	2785.8	3583.9	5715.4	11574.5	20710.1	23704.1	23094.4
40°	3177.4	3028.7	2840.3	2726.3	2661.9	3410.4	5368.4	11316.7	21785.8	24328.7	23728.9
42.5°	3182.4	2959.3	2795.7	2661.9	2597.4	3157.6	5130.4	11247.3	22162.5	25344.9	24026.3
45°	3103.0	2884.9	2746.1	2587.5	2552.8	2964.3	4902.4	10925.1	22826.7	25394.4	23654.5
47.5°	3023.7	2830.4	2681.7	2493.3	2414.0	2894.9	4724.0	10657.4	22479.8	24928.5	23139.0
50°	2969.2	2746.1	2607.4	2473.5	2250.5	2775.9	4491.0	10593.0	21994.0	24299.0	22182.3
52.5°	2875.0	2676.8	2533.0	2428.9	2072.0	2666.8	4401.8	10969.7	22588.8	23828.0	21904.7
55°	2785.8	2582.6	2399.2	2195.9	1923.3	2379.3	4153.9	11321.7	23456.3	24913.6	23163.8
57.5°	2691.6	2498.3	2300.0	2057.1	1779.5	2081.9	3896.2	11386.1	21830.4	23025.0	21989.0
60°	2567.7	2319.9	2171.1	1853.9	1625.9	1725.0	3088.2	10037.8	16932.9	19228.0	19262.7
62.5°	2428.9	2161.2	2032.3	1660.6	1467.3	1487.1	2518.1	8436.7	13735.7	15916.8	16863.5
65°	2245.5	1987.7	1834.1	1536.7	1353.2	1288.8	1844.0	6181.3	10434.4	12912.8	13988.5
67.5°	2007.6	1764.7	1571.4	1338.4	1209.5	1105.4	1259.1	3479.8	6161.5	8669.7	8996.9
70°	1754.8	1546.6	1343.3	1150.0	1006.3	931.9	922.0	1541.6	2944.4	4664.5	5308.9
72.5°	1383.0	1234.3	1070.7	926.9	832.8	723.7	659.3	639.4	996.3	1898.5	2622.2
75°	991.4	867.5	773.3	679.1	609.7	550.2	500.7	456.0	416.4	475.9	654.3
77.5°	624.6	580.0	505.6	480.8	441.2	426.3	406.5	381.7	351.9	332.1	332.1
80°	421.3	391.6	366.8	361.9	347.0	342.0	347.0	322.2	292.5	267.7	277.6
82.5°	282.5	277.6	272.6	267.7	272.6	277.6	287.5	282.5	257.8	242.9	247.8
85°	168.5	178.5	188.4	198.3	218.1	193.3	158.6	133.8	119.0	109.1	104.1
87.5°	64.4	89.2	79.3	74.4	79.3	74.4	69.4	64.4	54.5	49.6	49.6
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°	15178.2	15178.2	15178.2	15178.2	15178.2	15178.2	15178.2	15178.2	15178.2	15178.2
2.5°	16412.4	16511.6	16595.9	16576.0	16402.5	16169.6	16075.4	15594.6	15495.4	15431.0
5°	16635.5	17210.5	17334.4	17260.1	16809.0	16239.0	15683.8	14979.9	14568.5	14553.6
7.5°	16224.1	16932.9	17156.0	17324.5	16724.7	15733.3	14781.6	13725.8	13468.0	13487.9
10°	15178.2	16308.4	16858.6	17032.1	16343.1	15485.5	14167.0	13096.3	12546.0	12536.1
12.5°	14598.2	15485.5	15639.2	15882.1	15678.8	14811.4	13810.1	12610.5	12075.1	12065.2
15°	14082.7	14667.6	14712.2	15054.2	15163.3	14578.4	13904.2	12625.3	12194.1	12149.5
17.5°	14533.8	14127.3	13958.8	14003.4	14325.6	14538.7	14449.5	13468.0	13026.9	12779.0
20°	14836.1	13929.0	13418.5	13468.0	13849.7	14627.9	15262.4	14687.4	13988.5	14018.2
22.5°	15644.1	13958.8	13160.7	13106.2	13710.9	15093.9	16179.5	16229.0	15554.9	15391.3
25°	16853.6	14300.8	13081.4	13066.5	13646.5	15594.6	17250.2	18053.2	17364.2	17061.8
27.5°	17825.2	14836.1	13329.2	13378.8	13849.7	16001.0	18162.3	19228.0	18702.6	18330.8
30°	18677.8	15391.3	13676.2	13448.2	14395.0	16214.2	18553.9	20566.4	20145.0	19837.7
32.5°	19029.7	16179.5	14226.4	13849.7	14846.1	16471.9	19366.8	21865.1	21503.2	20744.8
35°	19624.6	16620.6	14523.9	14494.1	15634.2	17091.6	19748.5	22722.6	22573.9	21899.8
37.5°	20100.4	17066.8	15579.7	15252.5	16714.8	18132.5	20363.1	23907.4	23565.3	23248.1
40°	20467.2	17864.8	16566.1	16997.4	18043.3	19079.3	20928.2	23981.7	24968.1	24046.1
42.5°	20130.2	18578.6	18187.0	19218.1	20209.5	20159.9	20992.7	24556.7	25295.3	24814.5
45°	20045.9	19788.1	20749.8	21686.6	21914.7	21057.1	20531.7	23922.2	25196.2	24983.0
47.5°	19842.7	20977.8	22653.2	24180.0	23833.0	21656.9	19981.5	23808.2	25255.6	24874.0
50°	19773.3	21235.6	24061.0	25548.1	25339.9	22177.4	19723.7	23074.6	24834.3	24799.6
52.5°	19768.3	21766.0	24645.9	26291.6	26420.5	23000.2	20075.6	23446.4	25161.5	25453.9
55°	19991.4	21597.4	24571.6	25880.2	25830.6	22633.4	20115.3	23694.2	25563.0	25850.5
57.5°	18856.2	19347.0	20278.9	21314.9	21047.2	18747.2	17964.0	21904.7	23461.2	23253.0
60°	16283.6	14746.9	13696.0	13646.5	13126.0	12407.2	14702.3	19550.2	19550.2	19347.0
62.5°	14261.1	9680.9	8317.8	7931.1	8302.9	9130.7	14181.8	19014.8	18474.5	18241.6
65°	12471.7	7390.8	6012.8	5903.7	6548.1	7797.3	12823.6	16199.3	15247.6	14474.3
67.5°	8025.3	5413.0	4471.2	4277.8	5056.1	5725.3	8535.9	9963.5	9363.7	9061.3
70°	5175.1	3524.4	2488.4	2334.7	2637.1	3529.3	5452.6	5809.5	4937.1	4733.9
72.5°	2448.7	1521.8	872.4	718.8	808.0	1348.3	2156.3	2319.9	1928.3	1764.7
75°	778.2	560.1	356.9	307.3	292.5	347.0	495.7	381.7	277.6	272.6
77.5°	347.0	332.1	282.5	237.9	208.2	173.5	143.8	119.0	123.9	128.9
80°	287.5	262.7	233.0	208.2	173.5	133.8	104.1	79.3	79.3	84.3
82.5°	252.8	228.0	203.2	173.5	148.7	109.1	79.3	54.5	49.6	49.6
85°	109.1	128.9	138.8	148.7	119.0	89.2	54.5	34.7	29.7	29.7
87.5°	44.6	39.7	34.7	29.7	24.8	24.8	19.8	14.9	9.9	9.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)