

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: P455955

Luminaire Tested: **GALN-SA7A-830-U-T3R-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P455955
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-9)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA7A-830-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19817 lumens
Efficiency: N/A
Efficacy: 92.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

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

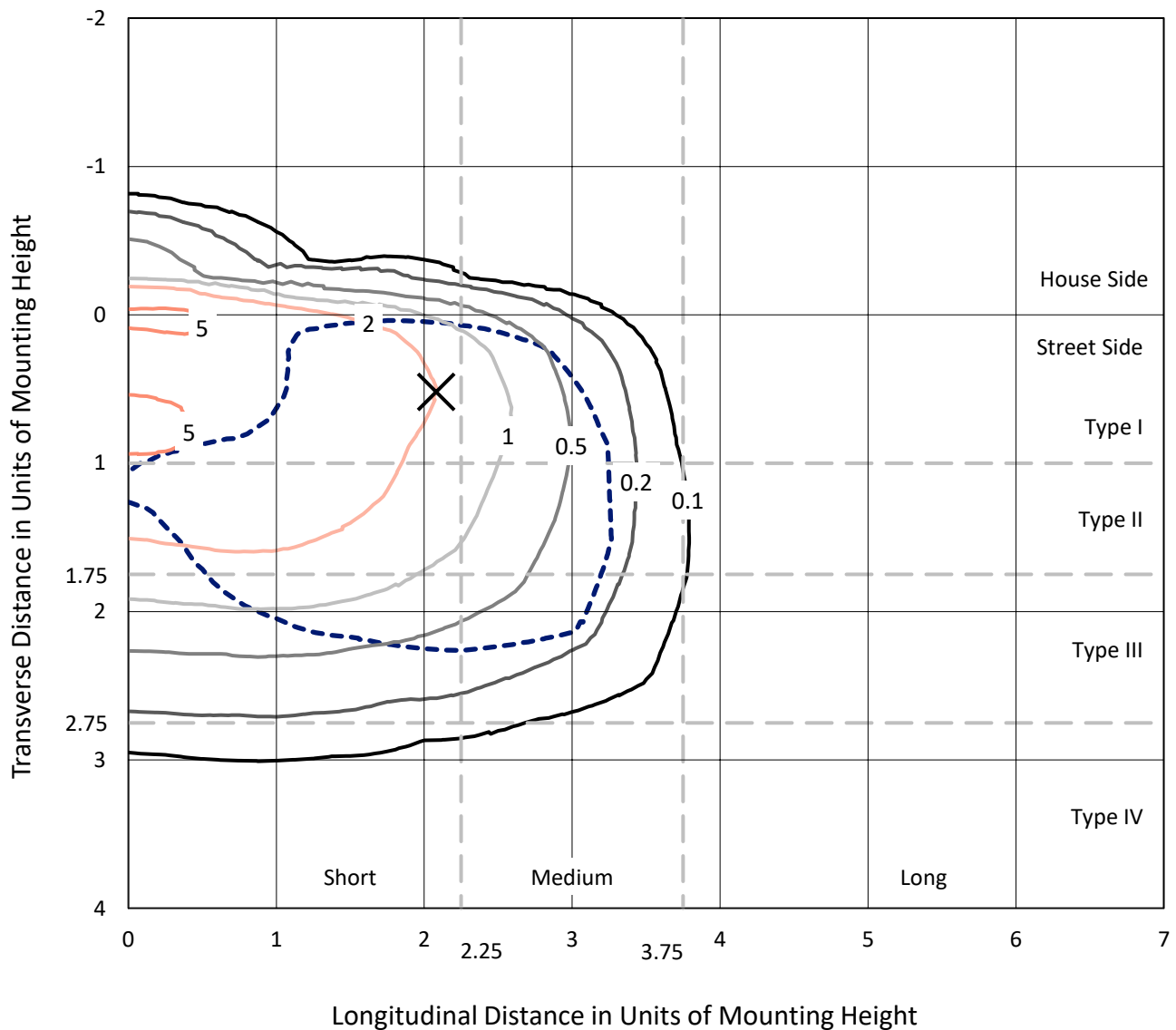


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Iso-Footcandle Lines of Horizontal Illumination

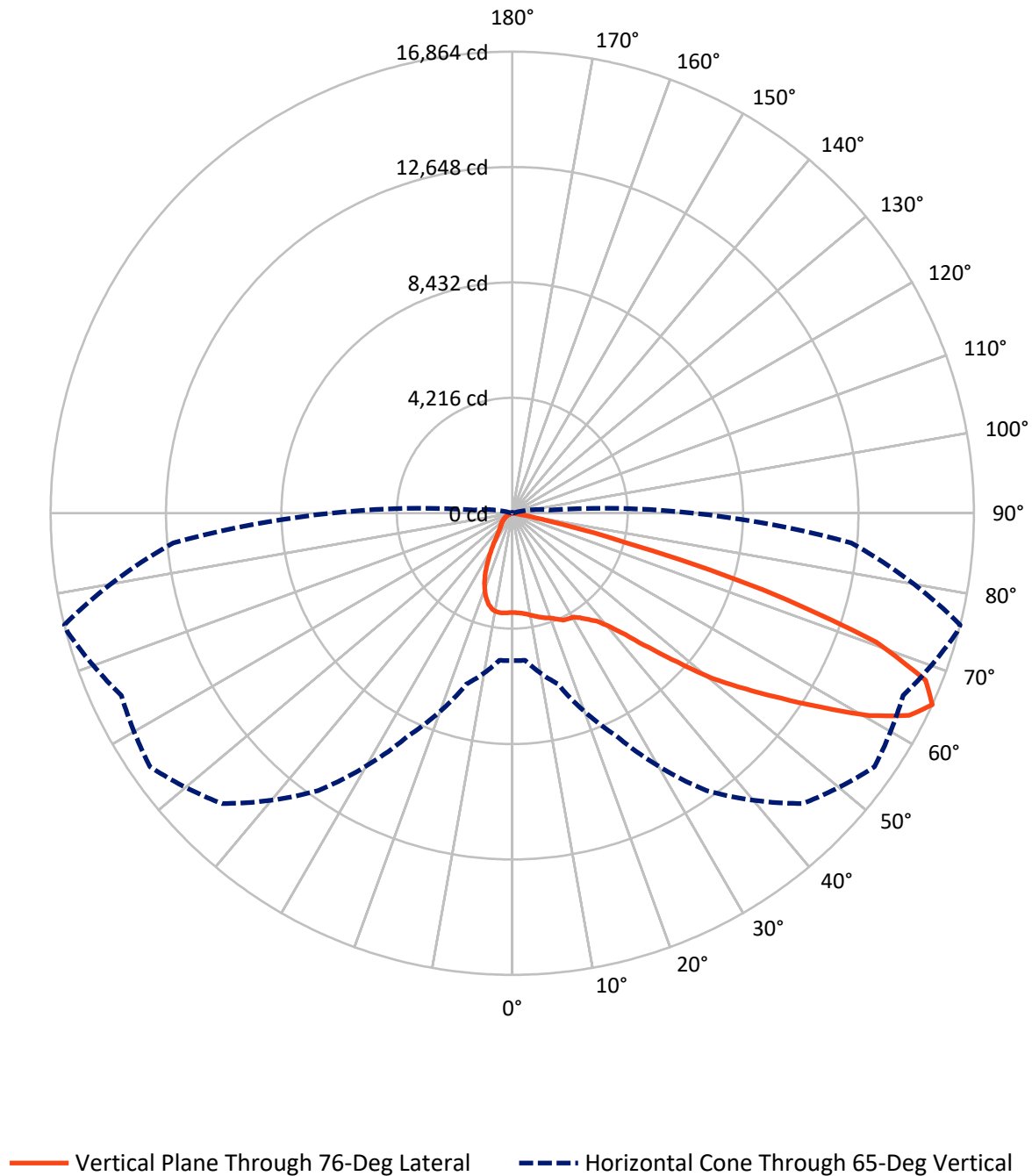
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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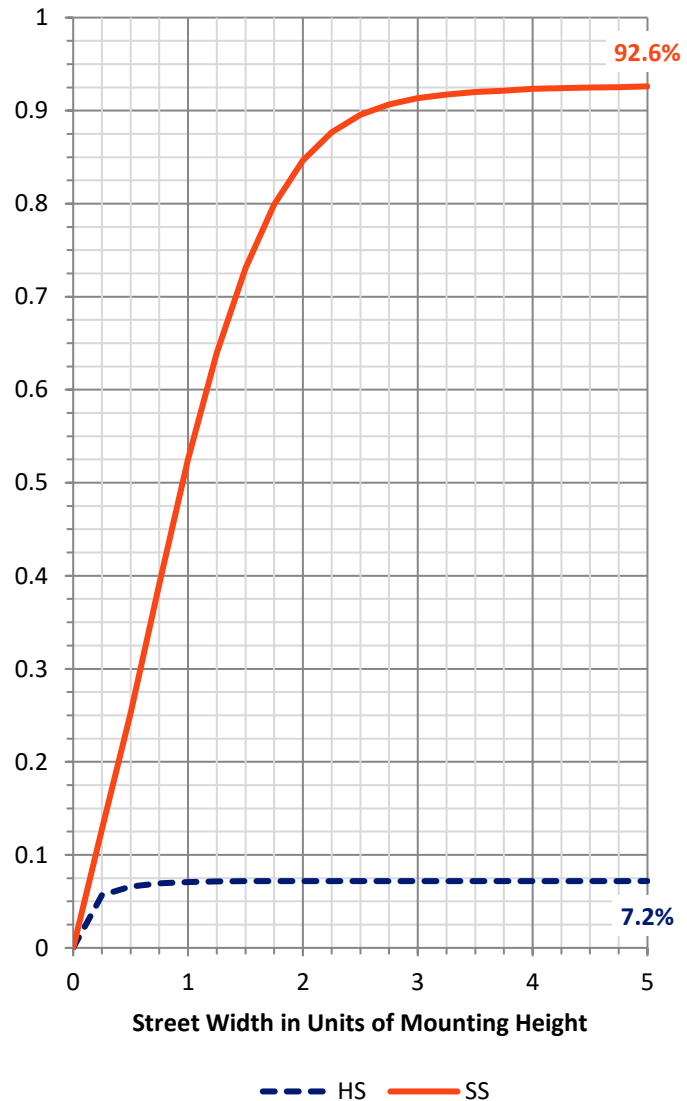
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1431.2	0.0	1431.2
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	18385.8	0.0	18385.8
	% Fixture	92.8	0.0	92.8
Total	Lumens	19817.0	0.0	19817.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	298.6	1.5
10°-20°	664.9	3.4
20°-30°	1071.5	5.4
30°-40°	1863.0	9.4
40°-50°	3078.5	15.5
50°-60°	4755.6	24.0
60°-70°	5807.3	29.3
70°-80°	2204.0	11.1
80°-90°	73.6	0.4
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°	19817.0	100.0
0°-180°	19817.0	100.0

Coefficient of Utilization



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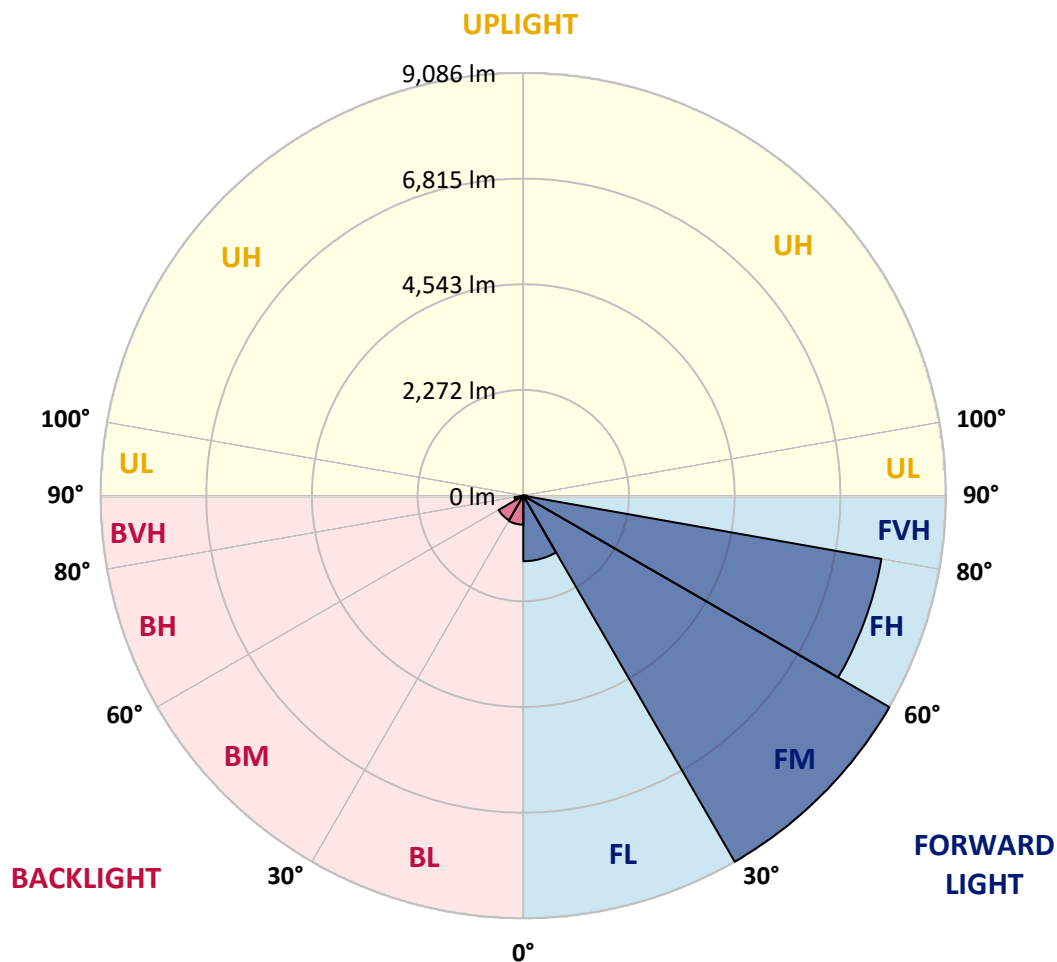
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1409.7	7.1			
FM	(30°-60°)	9086.4	45.9			
FH	(60°-80°)	7817.1	39.4			G4/12000
FVH	(80°-90°)	72.5	0.4			G1/100
BL	(0°-30°)	625.3	3.2	B2/1000		
BM	(30°-60°)	610.7	3.1	B1/1000		
BH	(60°-80°)	194.2	1.0	B1/500		G1/500
BVH	(80°-90°)	1.0	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	3625.2	3625.2	3625.2	3625.2	3625.2	3625.2	3625.2	3625.2	3625.2	3625.2	3625.2
2.5°	3464.3	3465.7	3474.1	3495.0	3527.2	3553.8	3576.2	3612.6	3637.8	3640.6	3648.9
5°	3225.0	3208.2	3225.0	3279.6	3328.5	3402.7	3493.6	3584.6	3665.7	3671.3	3710.5
7.5°	2956.4	2970.4	2996.9	3052.9	3145.3	3258.6	3390.1	3552.4	3706.3	3720.3	3797.3
10°	2683.5	2714.3	2757.7	2843.0	2971.8	3118.7	3297.8	3530.0	3770.7	3790.3	3923.2
12.5°	2431.7	2445.7	2498.9	2613.6	2773.1	2980.2	3227.8	3517.4	3842.0	3865.8	4057.5
15°	2238.6	2256.8	2303.0	2406.5	2584.2	2850.0	3170.4	3513.2	3912.0	3945.6	4191.8
17.5°	2202.2	2213.4	2233.0	2303.0	2458.3	2746.5	3118.7	3511.8	3979.1	4019.7	4316.3
20°	2351.9	2342.2	2322.6	2315.6	2400.9	2666.8	3080.9	3523.0	4043.5	4089.7	4447.9
22.5°	2726.9	2739.5	2624.8	2489.1	2461.1	2654.2	3075.3	3576.2	4145.6	4200.2	4594.8
25°	3523.0	3426.5	3247.4	2922.8	2677.9	2731.1	3138.3	3702.1	4264.6	4324.7	4727.7
27.5°	4403.1	4373.7	4095.3	3560.8	3104.7	2893.4	3250.2	3798.7	4303.7	4365.3	4803.2
30°	5267.7	5302.7	4983.7	4393.3	3724.5	3194.2	3355.1	3835.0	4338.7	4403.1	4899.8
32.5°	6069.5	6111.4	5831.6	5246.8	4454.8	3714.7	3535.6	3976.3	4485.6	4551.4	5060.7
35°	6700.5	6706.1	6494.8	6028.9	5252.4	4347.1	3926.0	4224.0	4684.3	4761.3	5231.4
37.5°	7279.7	7271.3	7023.7	6622.1	5916.9	4975.3	4417.1	4509.4	4911.0	4990.7	5477.6
40°	7709.2	7714.8	7635.1	7257.3	6536.8	5556.0	4806.0	4776.7	5291.5	5416.1	5835.8
42.5°	7996.1	8047.8	8087.0	7895.3	7316.1	6270.9	5403.5	5348.9	5951.9	6055.5	6342.3
45°	8228.3	8320.7	8516.5	8506.7	8064.6	7148.2	6223.4	6111.4	6887.9	6998.5	6987.3
47.5°	8397.6	8491.4	8816.0	9011.8	8768.4	7998.9	7254.5	7158.0	8005.9	8126.2	7699.4
50°	8484.4	8596.3	9010.4	9389.6	9318.2	8818.8	8429.8	8435.4	9356.0	9472.2	8524.9
52.5°	8281.5	8427.0	9114.0	9796.8	9935.3	9603.7	9530.9	9715.6	10557.9	10657.2	9270.7
55°	7633.7	7817.0	8972.7	10143.7	10650.2	10529.9	10781.7	11063.0	11871.7	11936.0	10036.0
57.5°	7223.7	7418.2	8555.7	10439.0	11509.3	11694.0	12092.7	12298.4	13227.4	13391.1	10914.7
60°	6878.2	7030.7	8212.9	10501.9	12382.4	13118.3	13505.9	13718.5	14900.8	15007.1	11881.5
62.5°	6303.1	6478.0	7633.7	10062.6	12821.7	14258.6	15061.7	14966.6	16195.0	16269.2	12474.7
65°	5378.3	5393.7	6458.4	8958.7	12368.4	14998.7	16154.4	15755.7	16813.4	16863.8	12428.5
67.5°	4014.1	4162.4	4968.3	7041.9	10447.3	14366.3	16508.4	15776.7	16423.1	16283.1	11442.1
70°	2585.6	2698.9	3367.7	4883.0	7532.9	11989.2	15334.5	14695.1	14413.9	14103.3	9365.8
72.5°	1193.5	1339.0	2000.8	2789.9	4467.4	8540.3	12448.1	11938.8	10374.6	9607.9	5953.3
75°	520.5	556.9	987.8	1471.9	2094.5	4516.4	8207.3	7411.2	4685.7	4280.0	2382.7
77.5°	317.6	341.4	517.7	789.1	822.7	1720.9	4421.3	3233.4	1448.1	1277.4	646.4
80°	215.5	242.1	376.4	412.7	281.2	479.9	1659.4	863.3	292.4	279.8	138.5
82.5°	104.9	132.9	278.4	230.9	121.7	153.9	482.7	184.7	85.3	79.8	49.0
85°	15.4	26.6	156.7	151.1	54.6	36.4	85.3	46.2	29.4	28.0	22.4
87.5°	0.0	0.0	53.2	23.8	5.6	5.6	9.8	9.8	11.2	9.8	11.2
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°	3625.2	3625.2	3625.2	3625.2	3625.2	3625.2	3625.2	3625.2	3625.2	3625.2	3625.2
2.5°	3653.1	3660.1	3633.6	3595.8	3555.2	3514.6	3457.3	3405.5	3374.7	3392.9	3348.1
5°	3718.9	3713.3	3643.4	3528.6	3376.1	3192.8	3010.9	2855.6	2805.3	2729.7	2721.3
7.5°	3809.8	3794.5	3646.1	3383.1	3038.9	2694.7	2358.9	2136.5	2009.2	1901.4	1904.2
10°	3937.2	3892.4	3614.0	3127.1	2560.4	2041.3	1613.2	1319.4	1192.1	1151.5	1119.3
12.5°	4068.7	3981.9	3524.4	2781.5	1993.8	1394.9	980.8	801.7	723.4	698.2	695.4
15°	4186.2	4049.1	3367.7	2365.9	1449.5	891.2	668.8	610.0	600.2	601.6	600.2
17.5°	4302.3	4102.3	3150.9	1925.2	985.0	639.4	575.0	561.1	565.3	570.8	569.4
20°	4398.9	4113.5	2873.8	1469.1	696.8	561.1	540.1	537.3	541.5	545.7	545.7
22.5°	4503.8	4121.9	2545.0	1017.2	569.4	521.9	510.7	510.7	516.3	521.9	523.3
25°	4582.2	4075.7	2151.9	730.3	502.3	484.1	478.5	479.9	485.5	488.3	486.9
27.5°	4594.8	3945.6	1734.9	559.7	456.1	437.9	432.3	437.9	430.9	435.1	432.3
30°	4606.0	3780.5	1312.4	471.5	414.1	386.2	377.8	369.4	363.8	356.8	355.4
32.5°	4640.9	3586.0	958.4	423.9	375.0	344.2	324.6	300.8	282.6	277.0	275.6
35°	4656.3	3352.3	703.8	386.2	340.0	306.4	271.4	237.9	211.3	201.5	208.5
37.5°	4715.1	3125.7	545.7	358.2	309.2	267.2	222.5	180.5	155.3	149.7	152.5
40°	4835.4	2879.4	457.5	334.4	282.6	230.9	176.3	135.7	118.9	113.3	111.9
42.5°	5028.5	2634.6	407.1	312.0	256.0	194.5	138.5	106.3	92.3	88.1	88.1
45°	5263.6	2399.5	372.2	288.2	228.1	156.7	109.1	85.3	77.0	74.2	74.2
47.5°	5572.8	2193.8	342.8	264.4	197.3	124.5	88.1	74.2	68.6	70.0	71.4
50°	5886.2	2041.3	310.6	237.9	162.3	102.1	75.6	65.8	64.4	65.8	65.8
52.5°	6122.6	1951.8	267.2	201.5	127.3	85.3	67.2	61.6	60.2	57.4	57.4
55°	6441.6	1932.2	212.7	163.7	100.7	71.4	60.2	56.0	51.8	49.0	47.6
57.5°	6851.6	1954.6	163.7	127.3	78.4	58.8	53.2	46.2	40.6	35.0	35.0
60°	7106.2	1904.2	127.3	97.9	57.4	47.6	40.6	33.6	26.6	22.4	21.0
62.5°	7025.1	1691.6	100.7	72.8	40.6	35.0	26.6	22.4	15.4	11.2	9.8
65°	6606.7	1365.6	81.1	50.4	29.4	21.0	14.0	14.0	7.0	1.4	0.0
67.5°	5782.6	1011.6	64.4	33.6	16.8	9.8	7.0	4.2	0.0	0.0	0.0
70°	4706.7	730.3	50.4	21.0	9.8	7.0	2.8	1.4	0.0	0.0	0.0
72.5°	2988.6	418.3	39.2	12.6	7.0	2.8	0.0	0.0	0.0	0.0	0.0
75°	1155.7	163.7	26.6	8.4	2.8	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	327.4	77.0	15.4	4.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	85.3	33.6	8.4	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	40.6	14.0	2.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	23.8	5.6	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	11.2	1.4	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

(END OF REPORT)