

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: P455935

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

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P455935
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-25)
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-AFL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20738 lumens
Efficiency: N/A
Efficacy: 96.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

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

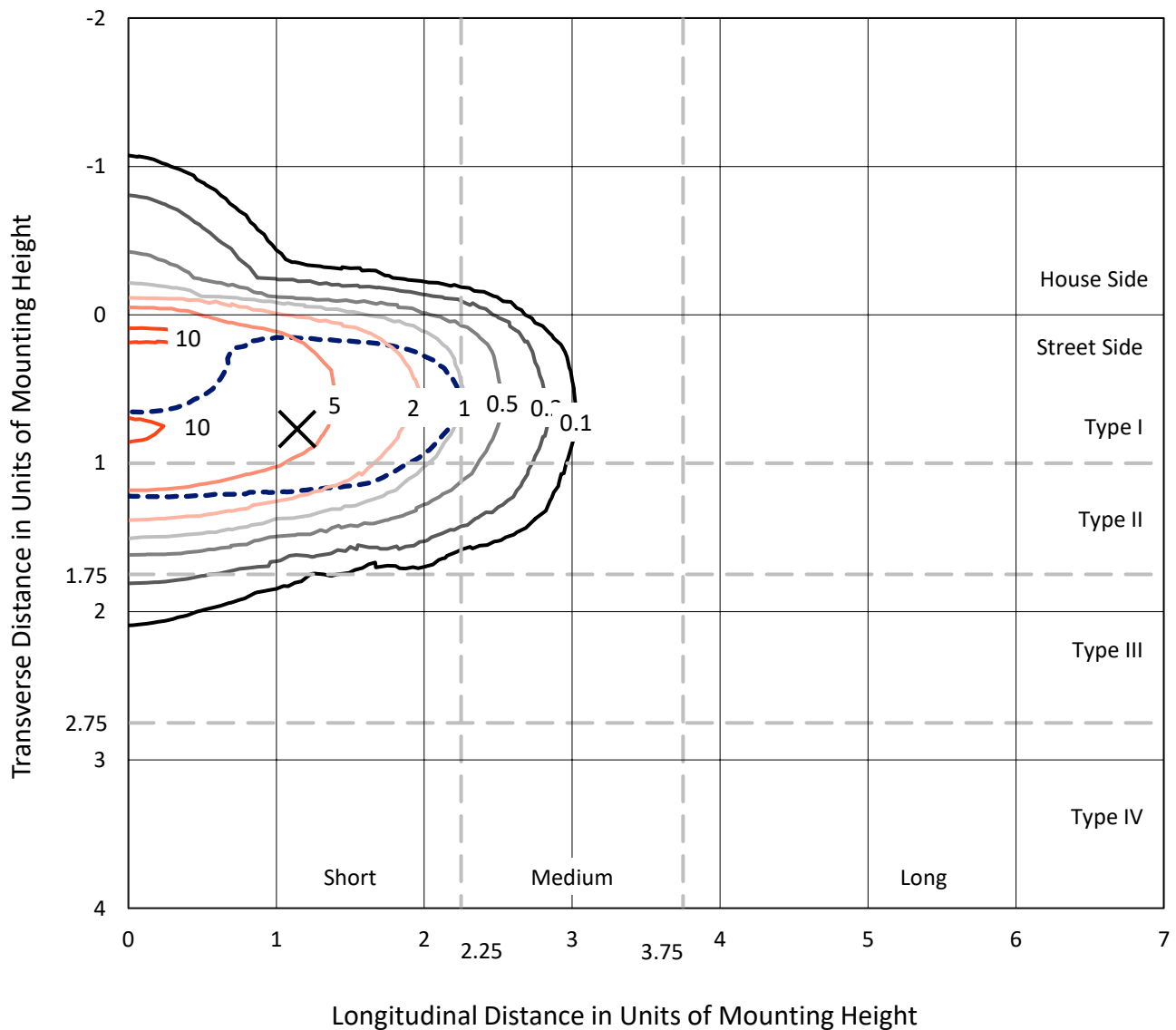


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Iso-Footcandle Lines of Horizontal Illumination

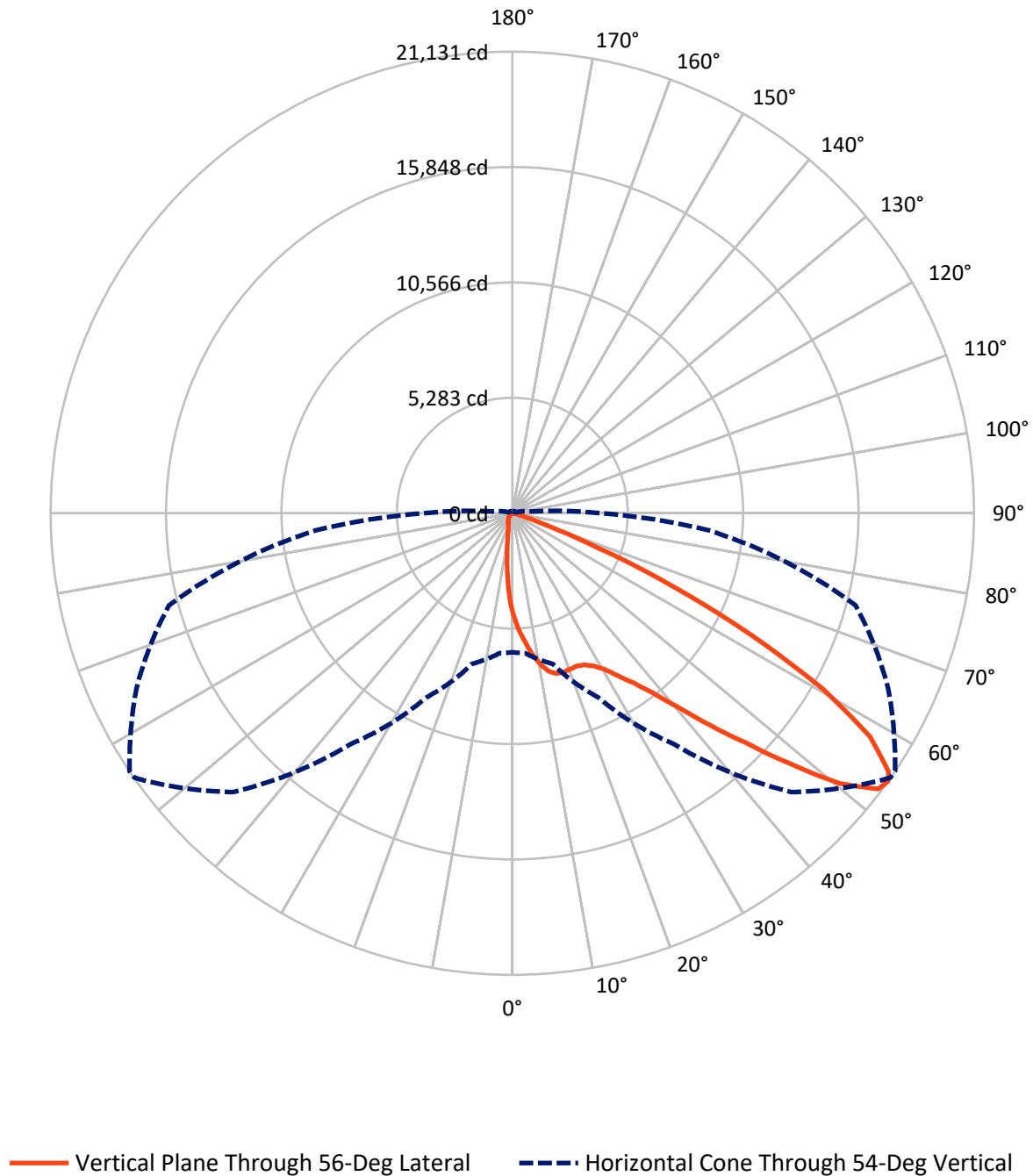
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.1 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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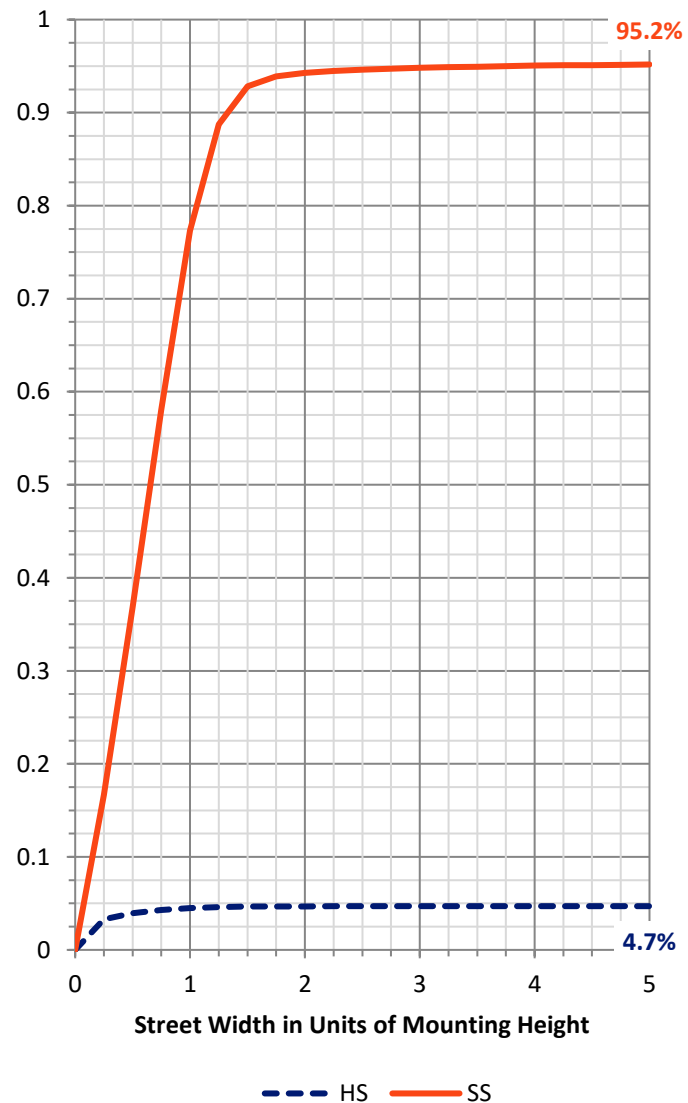
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	980.7	0.0	980.7
	% Fixture	4.7	0.0	4.7
Street Side	Lumens	19757.4	0.0	19757.4
	% Fixture	95.3	0.0	95.3
Total	Lumens	20738.0	0.0	20738.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	407.1	2.0
10°-20°	1100.6	5.3
20°-30°	1906.2	9.2
30°-40°	3290.4	15.9
40°-50°	5600.4	27.0
50°-60°	5542.2	26.7
60°-70°	2529.6	12.2
70°-80°	324.9	1.6
80°-90°	36.6	0.2
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°	20738.0	100.0
0°-180°	20738.0	100.0

Coefficient of Utilization



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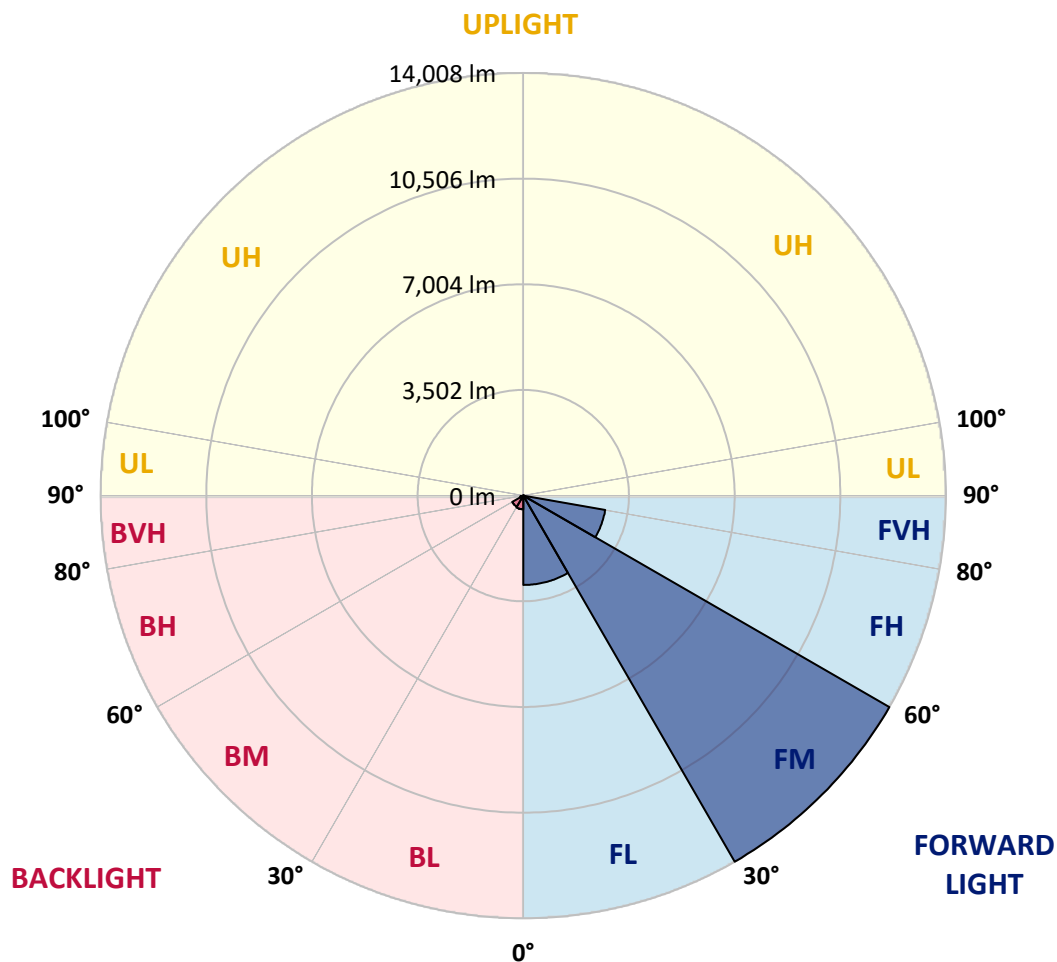
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2960.4	14.3			
FM	(30°-60°)	14008.0	67.5			
FH	(60°-80°)	2756.3	13.3			G2/5000
FVH	(80°-90°)	32.7	0.2			G1/100
BL	(0°-30°)	453.5	2.2	B1/500		
BM	(30°-60°)	425.0	2.0	B1/1000		
BH	(60°-80°)	98.2	0.5	B0/110		G0/110
BVH	(80°-90°)	3.9	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	4607.4	4607.4	4607.4	4607.4	4607.4	4607.4	4607.4	4607.4	4607.4	4607.4	4607.4
2.5°	5855.4	5814.9	5758.9	5715.5	5613.4	5466.5	5311.2	5311.2	5161.4	4953.0	4740.3
5°	6753.7	6727.1	6672.5	6560.6	6445.9	6240.2	5928.2	5873.6	5606.4	5228.6	4831.3
7.5°	7118.9	7131.4	7134.2	7104.9	7050.3	6847.4	6538.2	6500.4	6073.7	5567.2	4950.2
10°	6769.1	6830.6	6890.8	7012.5	7184.6	7233.6	7058.7	7019.5	6599.8	5910.0	5078.9
12.5°	6248.6	6282.2	6315.7	6507.4	6853.0	7249.0	7432.3	7430.9	7075.5	6251.4	5242.6
15°	6006.5	6035.9	6038.7	6124.1	6423.5	6999.9	7591.8	7612.8	7540.0	6672.5	5418.9
17.5°	6056.9	6080.7	6061.1	6082.1	6238.8	6725.7	7573.6	7643.5	7916.4	7076.9	5578.4
20°	6385.7	6431.9	6356.3	6297.6	6345.1	6652.9	7512.0	7610.0	8182.2	7471.4	5723.9
22.5°	6976.1	7001.3	6906.2	6745.3	6661.3	6805.4	7495.2	7591.8	8408.9	7794.6	5807.9
25°	7632.3	7623.9	7519.0	7338.5	7162.2	7113.3	7605.8	7692.5	8596.4	8085.7	5833.0
27.5°	8288.5	8313.7	8137.4	7913.6	7702.3	7575.0	7853.4	7917.8	8807.6	8417.3	5863.8
30°	9051.1	9010.5	8837.0	8581.0	8338.9	8161.2	8252.2	8270.4	9098.6	8856.6	5945.0
32.5°	10043.1	9931.1	9736.7	9288.9	9115.4	8814.6	8837.0	8859.4	9452.6	9291.7	6042.9
35°	11389.0	11383.5	11002.9	10399.9	9977.3	9603.7	9505.8	9524.0	9988.5	9938.1	6259.8
37.5°	13009.3	13031.6	12597.9	11990.7	11212.8	10619.5	10418.0	10420.8	10802.8	10830.8	6590.0
40°	14328.7	14387.4	14128.6	13718.6	12950.5	12022.9	11684.3	11653.5	11947.3	11912.3	7061.5
42.5°	14896.7	14951.3	15047.8	15190.5	14768.0	14002.7	13203.7	13245.7	13335.3	13090.4	7590.4
45°	14618.3	14705.0	15084.2	15965.7	16363.0	16105.6	15152.8	15005.8	14626.7	14370.6	8122.0
47.5°	13458.4	13669.7	14303.5	15771.2	17161.9	18032.2	17352.2	17157.7	15919.5	15305.3	8460.6
50°	11551.3	11563.9	12446.8	14323.1	16747.8	19248.1	19597.8	19452.3	17124.1	15829.9	8631.3
52.5°	8373.9	8649.5	9458.2	11631.1	14954.1	19063.4	21029.2	20969.0	18366.6	16098.6	8877.6
54°	6366.1	6419.3	7138.4	9294.5	12893.1	18049.0	21117.3	21131.3	18983.6	16260.9	9023.1
55°	5218.8	5091.5	5847.0	7917.8	11487.0	17152.1	20829.1	20896.2	19260.6	16344.8	9130.8
57.5°	2473.7	2475.1	3052.9	4176.5	7194.4	13318.5	19067.6	19305.4	19291.4	16488.9	9462.4
60°	1252.2	1260.6	1388.0	1928.0	3553.8	8853.8	15765.6	16332.2	17806.9	16509.9	9571.6
62.5°	875.9	866.1	845.1	927.6	1495.7	4499.7	11737.4	12229.9	15129.0	15711.0	9224.6
65°	749.9	729.0	670.2	657.6	755.5	1792.3	7310.5	8113.6	11551.3	13603.9	8236.8
67.5°	640.8	632.4	579.2	547.1	534.5	780.7	3772.1	4194.6	7895.4	9778.6	6238.8
70°	544.3	540.1	507.9	467.3	432.3	467.3	1399.1	1733.5	4400.3	5265.0	2943.8
72.5°	442.1	446.3	451.9	400.2	363.8	331.6	597.4	695.4	1841.3	1881.9	1029.8
75°	387.6	383.4	383.4	348.4	303.6	246.2	328.8	354.0	563.9	523.3	239.3
77.5°	272.8	263.0	307.8	286.8	253.2	174.9	187.5	198.7	233.7	200.1	111.9
80°	188.9	188.9	197.3	257.4	228.1	127.3	114.7	123.1	138.5	118.9	64.4
82.5°	106.3	109.1	128.7	137.1	132.9	85.3	75.6	77.0	92.3	81.2	40.6
85°	12.6	21.0	74.2	72.8	54.6	37.8	42.0	43.4	57.4	50.4	23.8
87.5°	1.4	2.8	15.4	19.6	14.0	15.4	15.4	15.4	19.6	22.4	16.8
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°	4607.4	4607.4	4607.4	4607.4	4607.4	4607.4	4607.4	4607.4	4607.4	4607.4	4607.4
2.5°	4625.6	4519.2	4266.0	3972.2	3784.7	3479.7	3222.2	3036.1	2990.0	2900.4	2927.0
5°	4620.0	4398.9	3882.6	3337.0	2754.9	2321.2	1998.0	1743.3	1631.4	1557.2	1505.5
7.5°	4622.8	4277.2	3448.9	2580.0	1884.6	1459.3	1159.9	1004.6	901.0	857.7	863.3
10°	4631.2	4140.1	2945.2	1911.2	1271.8	943.0	759.7	685.6	650.6	645.0	643.6
12.5°	4650.8	3990.4	2463.9	1418.7	889.9	685.6	615.6	590.4	579.2	579.2	575.0
15°	4671.7	3825.3	2063.7	1055.0	685.6	589.0	556.9	544.3	537.3	537.3	535.9
17.5°	4671.7	3635.0	1690.2	818.5	590.4	541.5	516.3	499.5	493.9	493.9	492.5
20°	4642.4	3413.9	1358.6	659.0	535.9	496.7	471.5	453.3	446.3	443.5	442.1
22.5°	4540.2	3118.7	1081.5	566.7	491.1	457.5	425.3	404.4	398.8	396.0	397.4
25°	4358.3	2785.7	856.3	498.1	450.5	409.9	382.0	366.6	361.0	361.0	362.4
27.5°	4170.9	2437.3	678.6	446.3	401.6	365.2	342.8	333.0	331.6	335.8	337.2
30°	3997.4	2087.5	549.9	404.4	358.2	327.4	312.0	309.2	309.2	310.6	312.0
32.5°	3804.3	1781.1	460.3	368.0	323.2	296.6	288.2	288.2	291.0	291.0	293.8
35°	3682.6	1518.1	404.4	333.0	296.6	274.2	268.6	270.0	274.2	279.8	282.6
37.5°	3616.8	1308.2	368.0	305.0	271.4	256.0	250.4	253.2	263.0	272.8	274.2
40°	3622.4	1150.1	338.6	281.2	251.8	235.1	230.9	239.3	249.0	258.8	260.2
42.5°	3684.0	1032.6	310.6	253.2	235.1	211.3	209.9	218.3	222.5	232.3	233.7
45°	3756.7	947.2	281.2	223.9	204.3	183.3	184.7	191.7	197.3	212.7	215.5
47.5°	3779.1	888.5	247.6	190.3	167.9	160.9	162.3	166.5	177.7	191.7	193.1
50°	3804.3	852.1	215.5	160.9	142.7	141.3	142.7	145.5	152.5	158.1	156.7
52.5°	3912.0	850.7	188.9	139.9	121.7	124.5	125.9	124.5	118.9	110.5	107.7
54°	4012.8	854.9	176.3	130.1	111.9	116.1	114.7	107.7	93.7	85.3	81.2
55°	4093.9	859.1	169.3	123.1	106.3	107.7	109.1	95.1	77.0	68.6	65.8
57.5°	4253.4	849.3	152.5	107.7	93.7	88.1	86.7	63.0	42.0	36.4	33.6
60°	4173.7	766.7	138.5	92.3	79.8	71.4	58.8	35.0	21.0	15.4	15.4
62.5°	3860.2	650.6	123.1	75.6	65.8	54.6	30.8	19.6	9.8	5.6	4.2
65°	3453.1	547.1	110.5	60.2	51.8	35.0	16.8	12.6	4.2	0.0	0.0
67.5°	2567.4	405.8	93.7	47.6	39.2	22.4	11.2	7.0	1.4	0.0	0.0
70°	1189.3	247.6	79.8	36.4	28.0	16.8	8.4	4.2	0.0	0.0	0.0
72.5°	341.4	155.3	65.8	26.6	19.6	14.0	7.0	2.8	1.4	0.0	0.0
75°	118.9	124.5	49.0	19.6	15.4	9.8	5.6	2.8	1.4	0.0	0.0
77.5°	71.4	100.7	30.8	16.8	12.6	8.4	5.6	2.8	1.4	1.4	0.0
80°	40.6	67.2	19.6	14.0	11.2	7.0	4.2	2.8	1.4	1.4	0.0
82.5°	22.4	32.2	15.4	12.6	9.8	7.0	4.2	2.8	1.4	1.4	1.4
85°	18.2	16.8	12.6	11.2	8.4	5.6	4.2	1.4	0.0	0.0	0.0
87.5°	14.0	11.2	11.2	11.2	8.4	5.6	4.2	1.4	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)