

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: P455239

Luminaire Tested: **GALN-SA6B-830-U-AFL-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P455239
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-SA6B-830-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 3000K, 800mA 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: 21968 lumens
Efficiency: N/A
Efficacy: 90.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 243
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

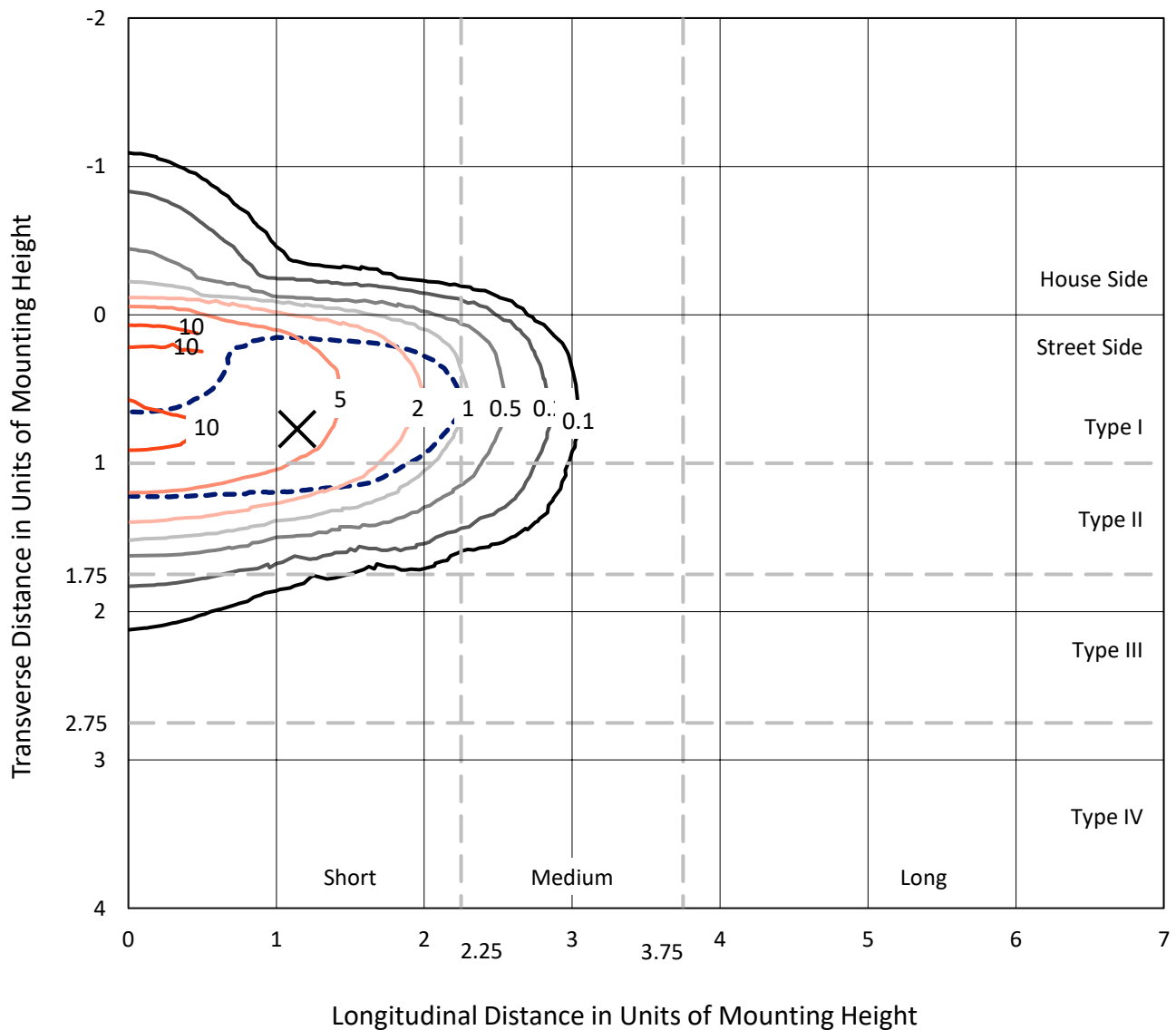


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

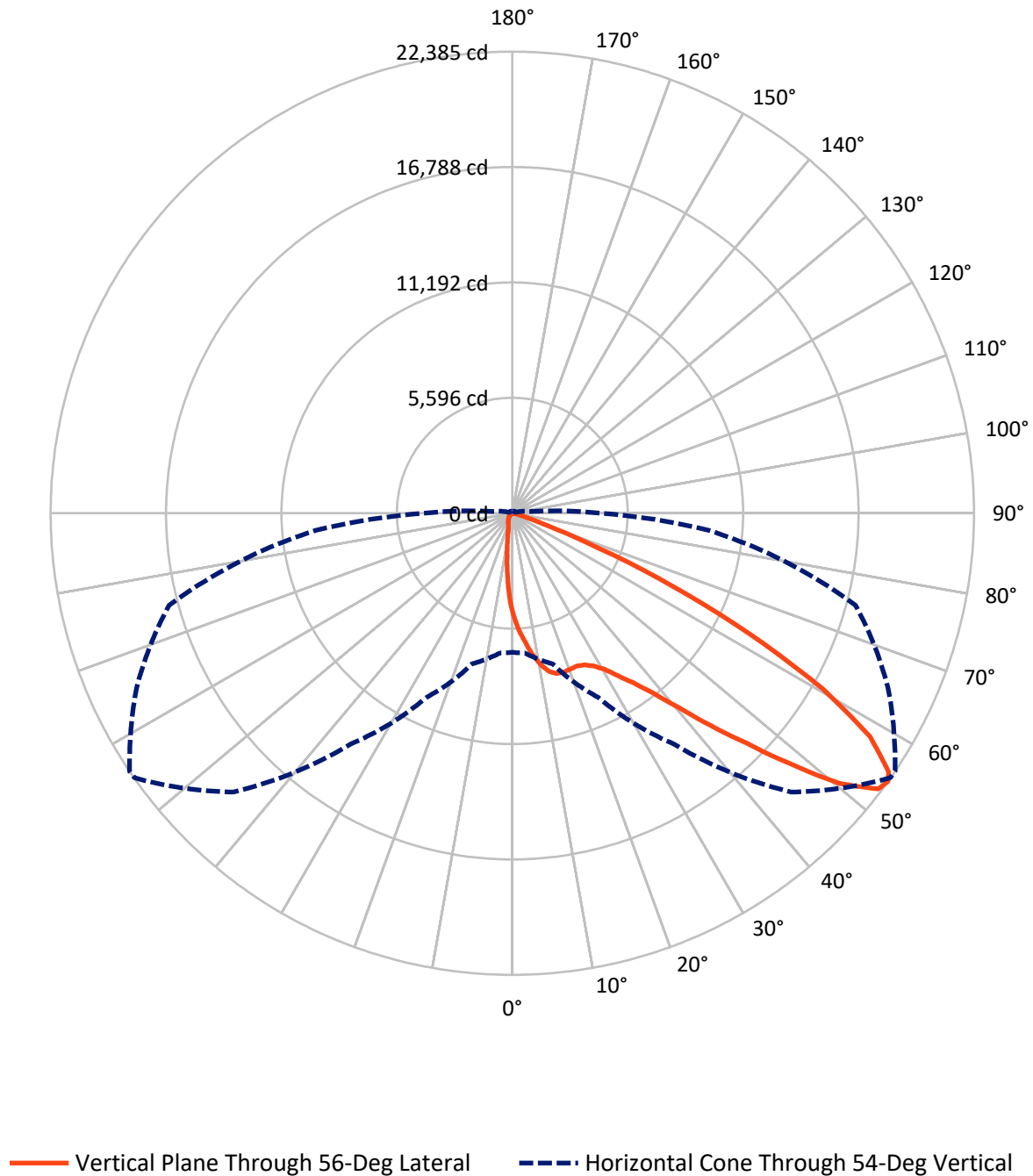


Based on 25 foot mounting height. Maximum calculated value = 11.7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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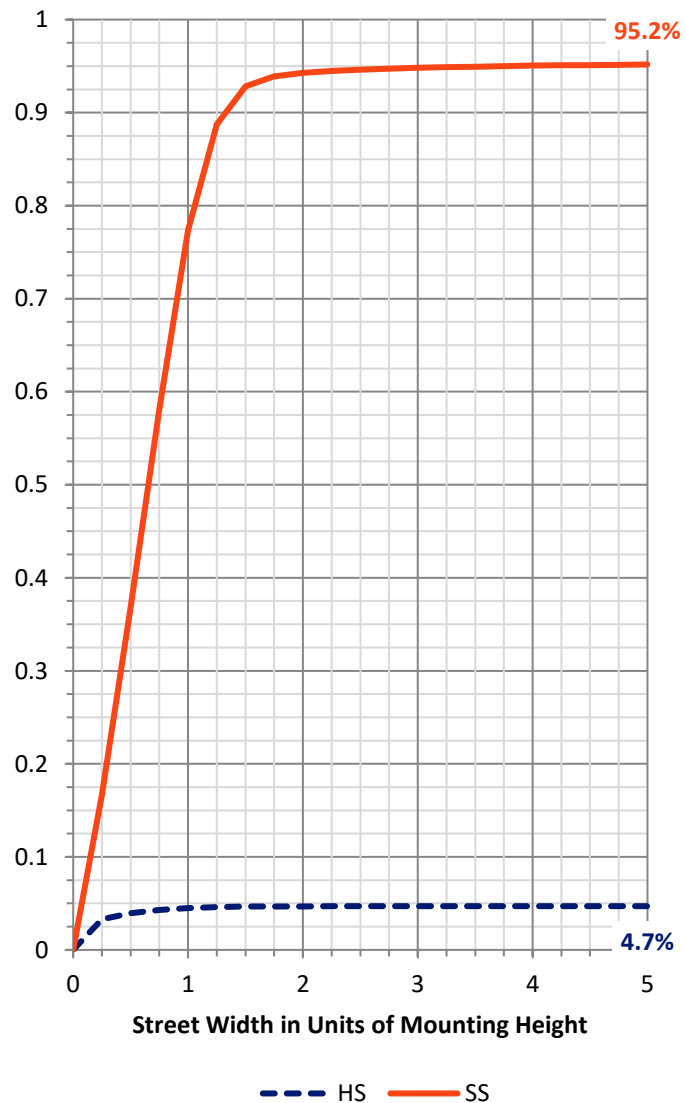
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1038.8	0.0	1038.8
	% Fixture	4.7	0.0	4.7
Street Side	Lumens	20929.2	0.0	20929.2
	% Fixture	95.3	0.0	95.3
Total	Lumens	21968.0	0.0	21968.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	431.3	2.0
10°-20°	1165.9	5.3
20°-30°	2019.2	9.2
30°-40°	3485.5	15.9
40°-50°	5932.5	27.0
50°-60°	5871.0	26.7
60°-70°	2679.6	12.2
70°-80°	344.1	1.6
80°-90°	38.8	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°	21968.0	100.0
0°-180°	21968.0	100.0

Coefficient of Utilization



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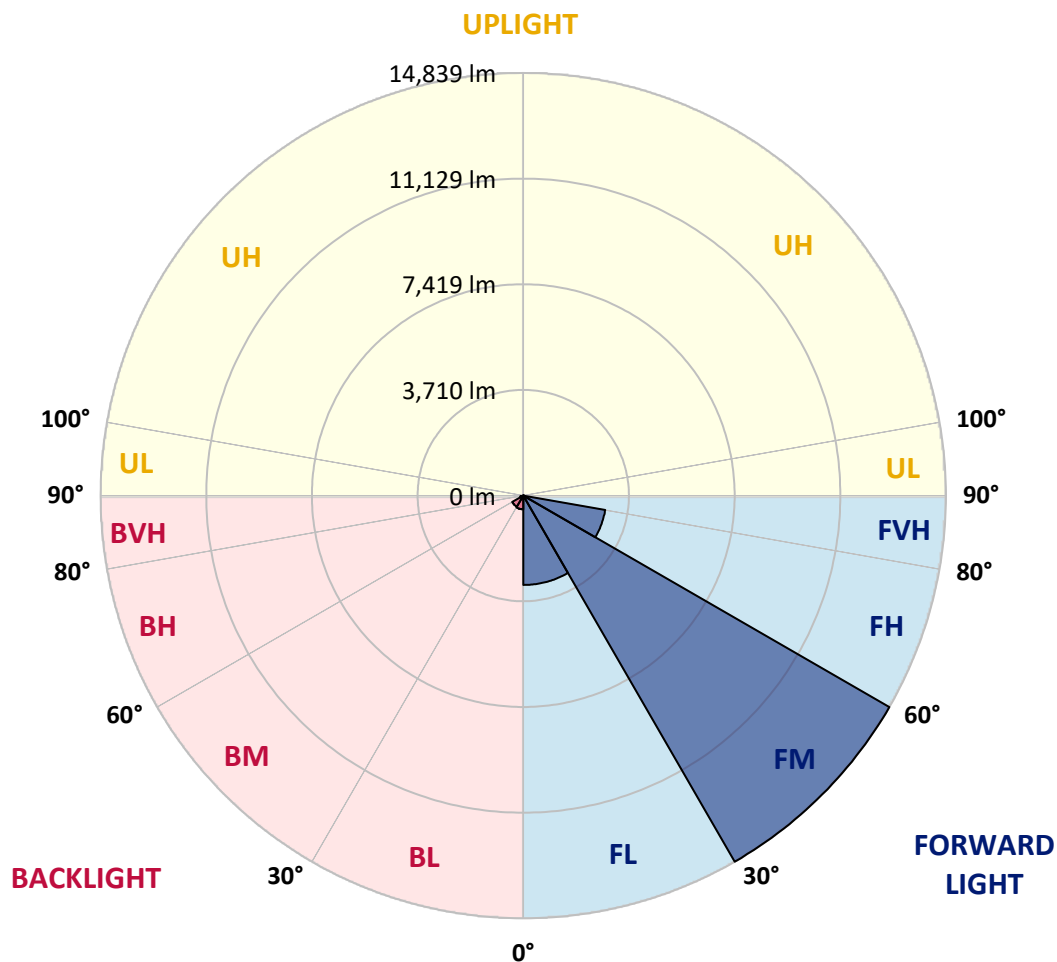
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3136.0	14.3			
FM	(30°-60°)	14838.8	67.5			
FH	(60°-80°)	2919.7	13.3			G2/5000
FVH	(80°-90°)	34.6	0.2			G1/100
BL	(0°-30°)	480.4	2.2	B1/500		
BM	(30°-60°)	450.2	2.0	B1/1000		
BH	(60°-80°)	104.0	0.5	B0/110		G0/110
BVH	(80°-90°)	4.2	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°	4880.7	4880.7	4880.7	4880.7	4880.7	4880.7	4880.7	4880.7	4880.7	4880.7	4880.7
2.5°	6202.7	6159.7	6100.5	6054.5	5946.3	5790.7	5626.2	5626.2	5467.6	5246.7	5021.5
5°	7154.2	7126.1	7068.3	6949.7	6828.2	6610.3	6279.8	6222.0	5938.9	5538.7	5117.8
7.5°	7541.1	7554.4	7557.4	7526.3	7468.5	7253.6	6926.0	6886.0	6433.9	5897.4	5243.8
10°	7170.6	7235.8	7299.5	7428.4	7610.7	7662.6	7477.4	7435.9	6991.2	6260.5	5380.1
12.5°	6619.2	6654.8	6690.3	6893.4	7259.5	7678.9	7873.1	7871.6	7495.1	6622.2	5553.5
15°	6362.8	6393.9	6396.9	6487.3	6804.5	7415.1	8042.0	8064.3	7987.2	7068.3	5740.3
17.5°	6416.1	6441.3	6420.6	6442.8	6608.8	7124.6	8022.8	8096.9	8385.9	7496.6	5909.3
20°	6764.4	6813.4	6733.3	6671.1	6721.5	7047.5	7957.6	8061.3	8667.5	7914.6	6063.4
22.5°	7389.9	7416.6	7315.8	7145.4	7056.4	7209.1	7939.8	8042.0	8907.6	8257.0	6152.3
25°	8085.0	8076.1	7965.0	7773.8	7587.0	7535.2	8056.9	8148.8	9106.2	8565.2	6179.0
27.5°	8780.1	8806.8	8620.1	8382.9	8159.1	8024.3	8319.2	8387.4	9330.0	8916.5	6211.6
30°	9587.9	9544.9	9361.1	9089.9	8833.5	8645.3	8741.6	8760.9	9638.3	9381.9	6297.6
32.5°	10638.7	10520.2	10314.2	9839.9	9656.1	9337.4	9361.1	9384.9	10013.3	9842.8	6401.3
35°	12064.5	12058.6	11655.5	11016.7	10569.1	10173.3	10069.6	10088.9	10580.9	10527.6	6631.1
37.5°	13780.9	13804.6	13345.1	12701.9	11877.8	11249.4	11035.9	11038.9	11443.5	11473.2	6980.8
40°	15178.5	15240.8	14966.6	14532.3	13718.6	12736.0	12377.3	12344.7	12655.9	12618.9	7480.3
42.5°	15780.3	15838.1	15940.3	16091.5	15643.9	14833.2	13986.9	14031.3	14126.2	13866.8	8040.6
45°	15485.3	15577.2	15978.9	16912.6	17333.5	17060.8	16051.5	15895.9	15494.2	15223.0	8603.8
47.5°	14256.6	14480.4	15151.8	16706.6	18179.8	19101.7	18381.4	18175.4	16863.7	16213.0	8962.4
50°	12236.5	12249.8	13185.0	15172.6	17741.1	20389.7	20760.2	20606.1	18139.8	16768.8	9143.3
52.5°	8870.6	9162.5	10019.2	12321.0	15841.0	20194.0	22276.4	22212.7	19455.9	17053.4	9404.1
54°	6743.7	6800.0	7561.8	9845.8	13657.8	19119.5	22369.8	22384.6	20109.6	17225.3	9558.3
55°	5528.3	5393.5	6193.8	8387.4	12168.3	18169.4	22064.5	22135.6	20403.0	17314.3	9672.4
57.5°	2620.4	2621.9	3234.0	4424.2	7621.1	14108.4	20198.5	20450.4	20435.6	17466.9	10023.7
60°	1326.5	1335.4	1470.3	2042.4	3764.6	9378.9	16700.7	17300.9	18863.1	17489.1	10139.3
62.5°	927.8	917.4	895.2	982.7	1584.4	4766.5	12433.6	12955.3	16026.3	16642.9	9771.7
65°	794.4	772.2	709.9	696.6	800.4	1898.6	7744.1	8594.9	12236.5	14410.8	8725.3
67.5°	678.8	669.9	613.6	579.5	566.2	827.0	3995.8	4443.4	8363.7	10358.6	6608.8
70°	576.5	572.1	538.0	495.0	458.0	495.0	1482.1	1836.4	4661.3	5577.3	3118.4
72.5°	468.4	472.8	478.7	423.9	385.4	351.3	632.9	736.6	1950.5	1993.5	1090.8
75°	410.6	406.1	406.1	369.1	321.6	260.9	348.3	375.0	597.3	554.3	253.4
77.5°	289.0	278.6	326.1	303.8	268.3	185.3	198.6	210.5	247.5	211.9	118.6
80°	200.1	200.1	209.0	272.7	241.6	134.9	121.5	130.4	146.7	126.0	68.2
82.5°	112.6	115.6	136.4	145.2	140.8	90.4	80.0	81.5	97.8	86.0	43.0
85°	13.3	22.2	78.6	77.1	57.8	40.0	44.5	45.9	60.8	53.4	25.2
87.5°	1.5	3.0	16.3	20.7	14.8	16.3	16.3	16.3	20.7	23.7	17.8
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°	4880.7	4880.7	4880.7	4880.7	4880.7	4880.7	4880.7	4880.7	4880.7	4880.7	4880.7
2.5°	4899.9	4787.3	4519.0	4207.8	4009.2	3686.1	3413.3	3216.2	3167.3	3072.5	3100.6
5°	4894.0	4659.8	4112.9	3534.9	2918.3	2458.9	2116.5	1846.7	1728.2	1649.6	1594.8
7.5°	4897.0	4530.9	3653.5	2733.0	1996.4	1545.9	1228.7	1064.2	954.5	908.5	914.5
10°	4905.9	4385.6	3119.9	2024.6	1347.3	999.0	804.8	726.2	689.2	683.3	681.8
12.5°	4926.6	4227.0	2610.0	1502.9	942.6	726.2	652.1	625.5	613.6	613.6	609.2
15°	4948.8	4052.1	2186.1	1117.5	726.2	624.0	589.9	576.5	569.1	569.1	567.7
17.5°	4948.8	3850.6	1790.4	867.0	625.5	573.6	546.9	529.1	523.2	523.2	521.7
20°	4917.7	3616.4	1439.1	698.1	567.7	526.2	499.5	480.2	472.8	469.8	468.4
22.5°	4809.5	3303.7	1145.7	600.3	520.2	484.7	450.6	428.3	422.4	419.4	420.9
25°	4616.8	2950.9	907.1	527.6	477.2	434.3	404.6	388.3	382.4	382.4	383.9
27.5°	4418.2	2581.9	718.8	472.8	425.4	386.8	363.1	352.7	351.3	355.7	357.2
30°	4234.4	2211.3	582.5	428.3	379.4	346.8	330.5	327.6	327.6	329.0	330.5
32.5°	4029.9	1886.8	487.6	389.8	342.4	314.2	305.3	305.3	308.3	308.3	311.2
35°	3901.0	1608.1	428.3	352.7	314.2	290.5	284.6	286.1	290.5	296.4	299.4
37.5°	3831.3	1385.8	389.8	323.1	287.5	271.2	265.3	268.3	278.6	289.0	290.5
40°	3837.2	1218.3	358.7	297.9	266.8	249.0	244.6	253.4	263.8	274.2	275.7
42.5°	3902.5	1093.8	329.0	268.3	249.0	223.8	222.3	231.2	235.7	246.0	247.5
45°	3979.5	1003.4	297.9	237.1	216.4	194.2	195.6	203.1	209.0	225.3	228.2
47.5°	4003.2	941.2	262.3	201.6	177.9	170.4	171.9	176.4	188.2	203.1	204.5
50°	4029.9	902.6	228.2	170.4	151.2	149.7	151.2	154.1	161.6	167.5	166.0
52.5°	4144.0	901.1	200.1	148.2	128.9	131.9	133.4	131.9	126.0	117.1	114.1
54°	4250.8	905.6	186.7	137.8	118.6	123.0	121.5	114.1	99.3	90.4	86.0
55°	4336.7	910.0	179.3	130.4	112.6	114.1	115.6	100.8	81.5	72.6	69.7
57.5°	4505.7	899.7	161.6	114.1	99.3	93.4	91.9	66.7	44.5	38.5	35.6
60°	4421.2	812.2	146.7	97.8	84.5	75.6	62.2	37.1	22.2	16.3	16.3
62.5°	4089.2	689.2	130.4	80.0	69.7	57.8	32.6	20.7	10.4	5.9	4.4
65°	3657.9	579.5	117.1	63.7	54.8	37.1	17.8	13.3	4.4	0.0	0.0
67.5°	2719.7	429.8	99.3	50.4	41.5	23.7	11.9	7.4	1.5	0.0	0.0
70°	1259.8	262.3	84.5	38.5	29.6	17.8	8.9	4.4	0.0	0.0	0.0
72.5°	361.6	164.5	69.7	28.2	20.7	14.8	7.4	3.0	1.5	0.0	0.0
75°	126.0	131.9	51.9	20.7	16.3	10.4	5.9	3.0	1.5	0.0	0.0
77.5°	75.6	106.7	32.6	17.8	13.3	8.9	5.9	3.0	1.5	1.5	0.0
80°	43.0	71.1	20.7	14.8	11.9	7.4	4.4	3.0	1.5	1.5	0.0
82.5°	23.7	34.1	16.3	13.3	10.4	7.4	4.4	3.0	1.5	1.5	1.5
85°	19.3	17.8	13.3	11.9	8.9	5.9	4.4	1.5	0.0	0.0	0.0
87.5°	14.8	11.9	11.9	11.9	8.9	5.9	4.4	1.5	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)