

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: STREETWORKS

Report Number: P455790

Luminaire Tested: **GLAN-SA7A-730-U-AFL-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P455790
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: STREETWORKS
Catalog Number: GLAN-SA7A-730-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 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: 23767 lumens
Efficiency: N/A
Efficacy: 110.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

Input Watts (W): 215
Input Voltage (V): NR
Input Current (A_{in}): 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

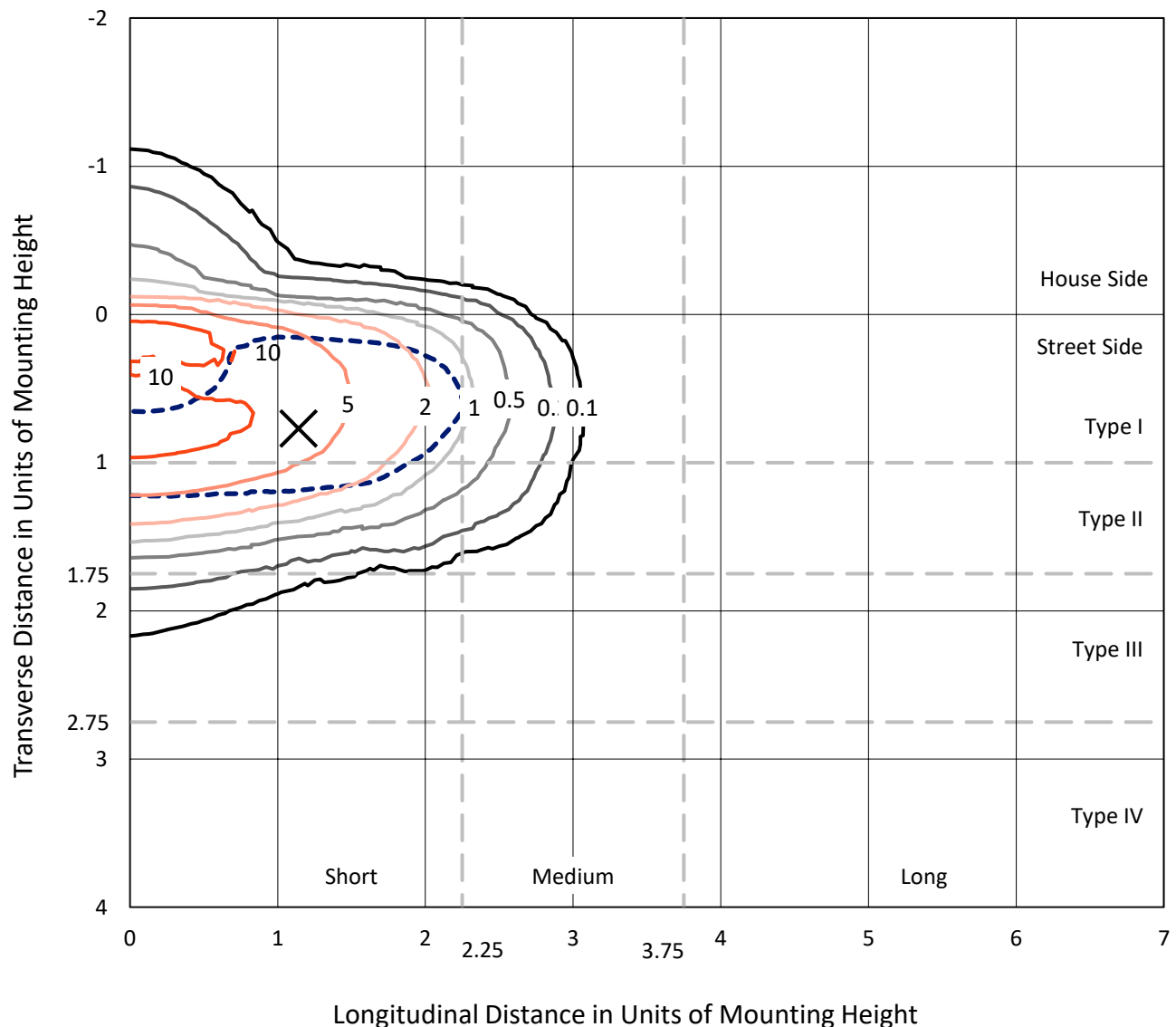


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd



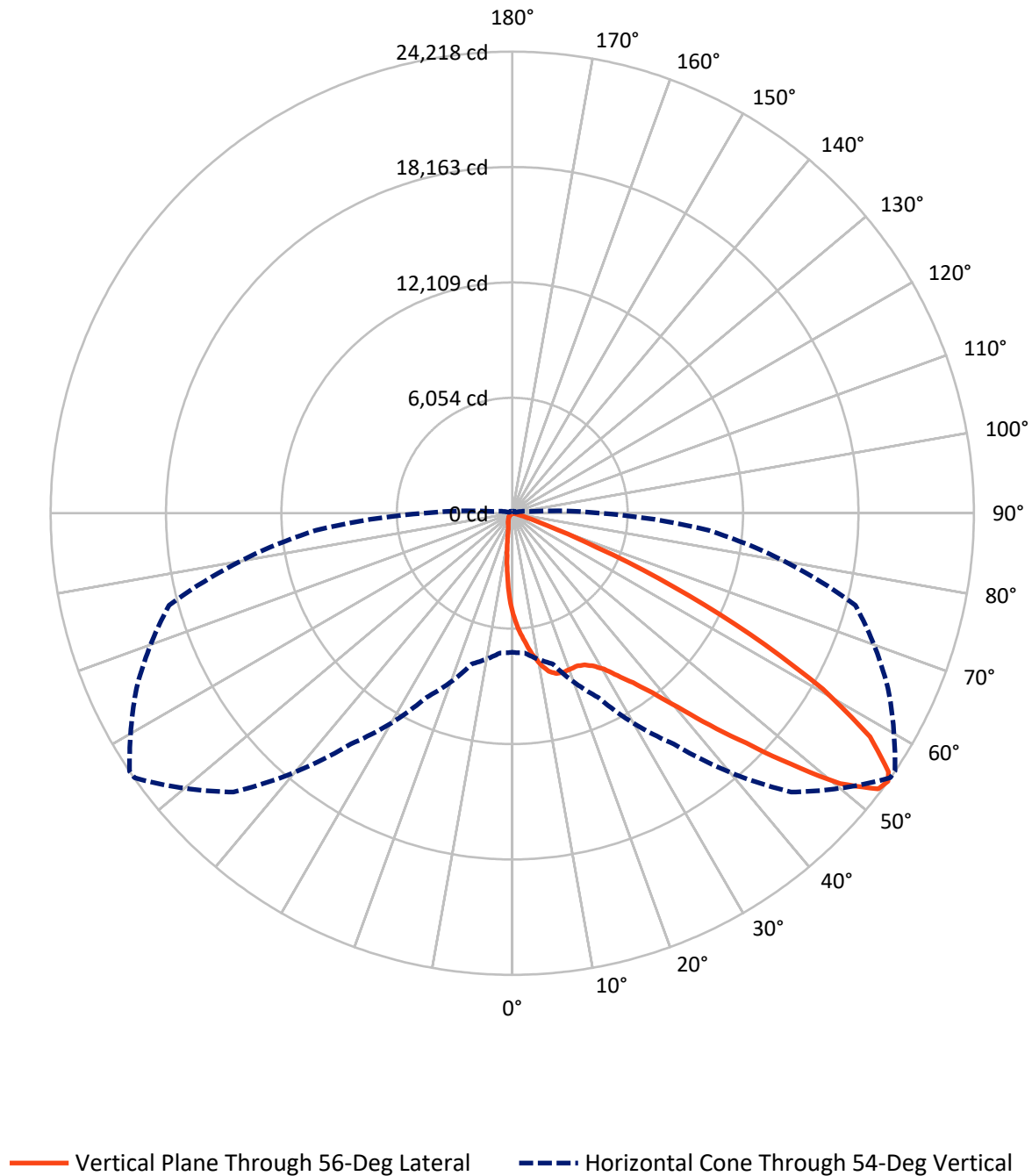
Based on 25 foot mounting height. Maximum calculated value = 12.7 fc

Type II - Short - N/A

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Luminous Intensity Polar Plot



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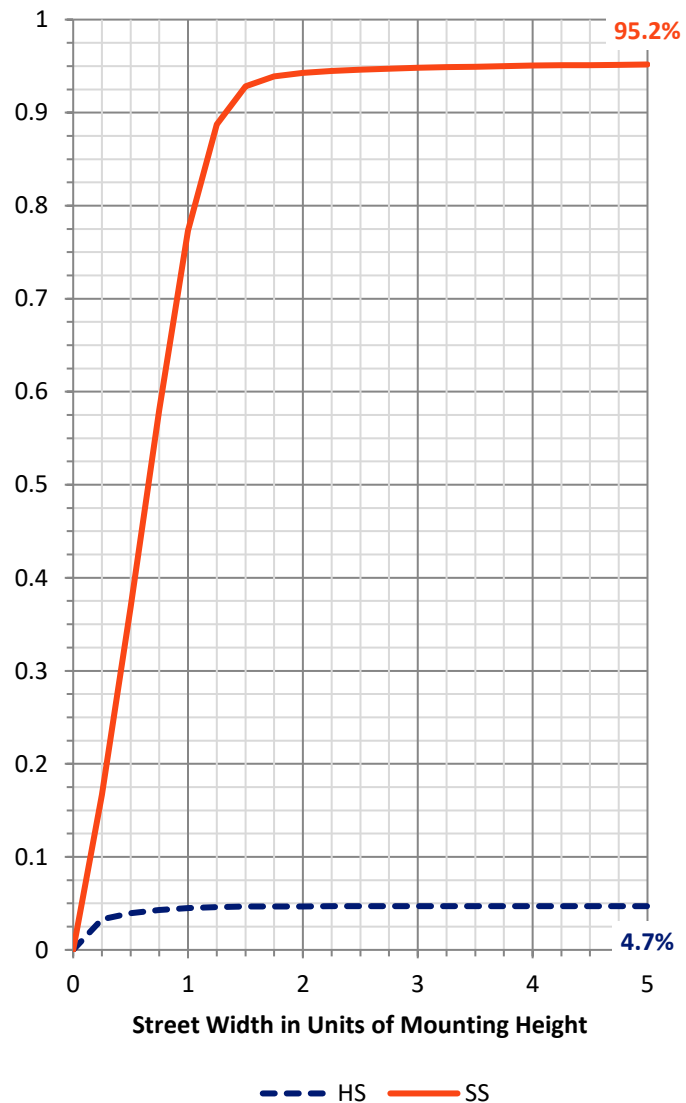
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1123.9	0.0	1123.9
	% Fixture	4.7	0.0	4.7
Street Side	Lumens	22643.1	0.0	22643.1
	% Fixture	95.3	0.0	95.3
Total	Lumens	23767.0	0.0	23767.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	466.6	2.0
10°-20°	1261.4	5.3
20°-30°	2184.6	9.2
30°-40°	3771.0	15.9
40°-50°	6418.3	27.0
50°-60°	6351.8	26.7
60°-70°	2899.1	12.2
70°-80°	372.3	1.6
80°-90°	41.9	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°	23767.0	100.0
0°-180°	23767.0	100.0

Coefficient of Utilization



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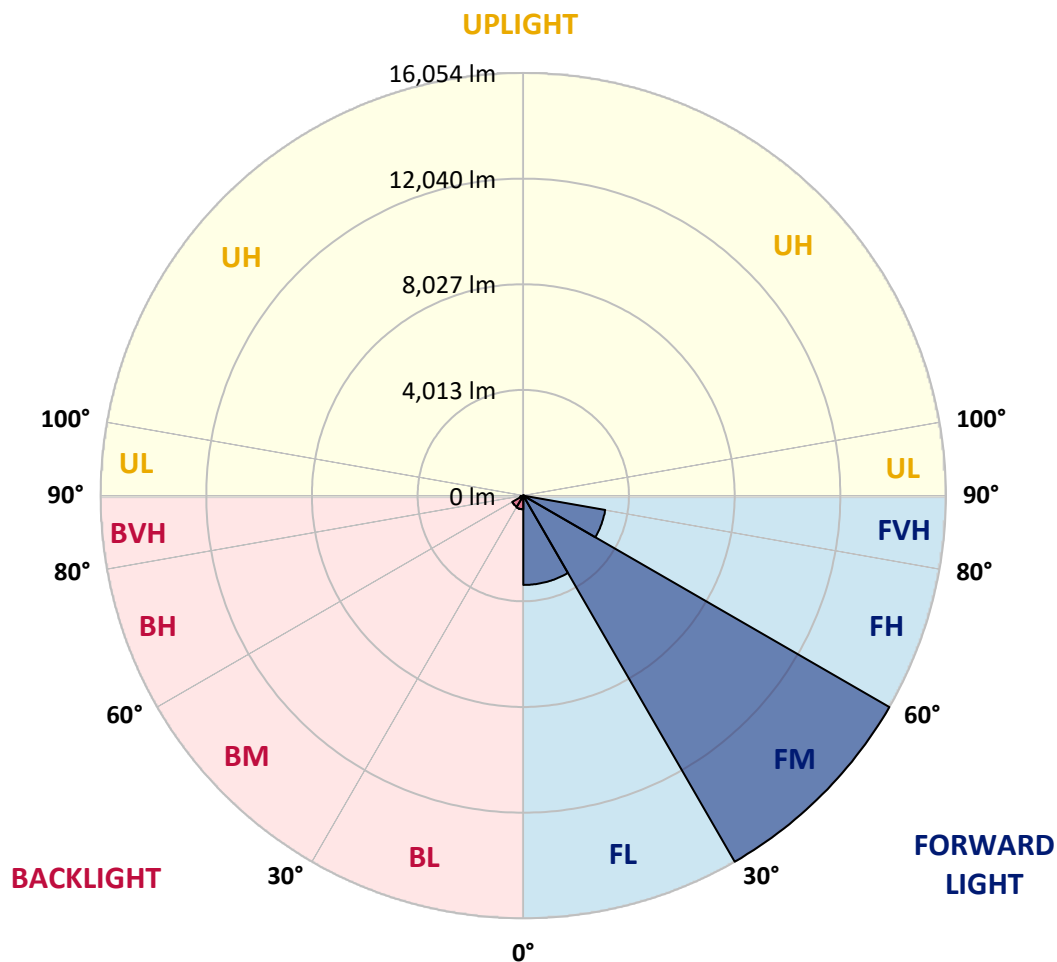
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3392.8	14.3			
FM	(30°-60°)	16054.0	67.5			
FH	(60°-80°)	3158.8	13.3			G2/5000
FVH	(80°-90°)	37.5	0.2			G1/100
BL	(0°-30°)	519.8	2.2	B2/1000		
BM	(30°-60°)	487.1	2.0	B1/1000		
BH	(60°-80°)	112.5	0.5	B1/500		G1/500
BVH	(80°-90°)	4.5	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-G2

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	5280.3	5280.3	5280.3	5280.3	5280.3	5280.3	5280.3	5280.3	5280.3	5280.3	5280.3
2.5°	6710.7	6664.2	6600.0	6550.3	6433.3	6264.9	6086.9	6086.9	5915.3	5676.4	5432.7
5°	7740.1	7709.7	7647.1	7518.8	7387.4	7151.6	6794.1	6731.5	6425.2	5992.3	5536.9
7.5°	8158.6	8173.1	8176.3	8142.6	8080.1	7847.6	7493.2	7449.9	6960.8	6380.3	5673.2
10°	7757.8	7828.3	7897.3	8036.8	8234.0	8290.1	8089.7	8044.8	7563.7	6773.2	5820.7
12.5°	7161.3	7199.7	7238.2	7457.9	7854.0	8307.8	8517.8	8516.2	8108.9	7164.5	6008.3
15°	6883.8	6917.5	6920.7	7018.5	7361.7	8022.3	8700.6	8724.7	8641.3	7647.1	6210.4
17.5°	6941.6	6968.8	6946.4	6970.4	7150.0	7708.1	8679.8	8760.0	9072.6	8110.5	6393.2
20°	7318.4	7371.3	7284.7	7217.4	7271.9	7624.7	8609.2	8721.5	9377.3	8562.7	6559.9
22.5°	7995.1	8023.9	7914.9	7730.5	7634.3	7799.5	8590.0	8700.6	9637.1	8933.1	6656.2
25°	8747.1	8737.5	8617.2	8410.4	8208.3	8152.2	8716.7	8816.1	9851.9	9266.7	6685.0
27.5°	9499.2	9528.0	9326.0	9069.4	8827.3	8681.4	9000.5	9074.2	10094.1	9646.7	6720.3
30°	10373.1	10326.6	10127.7	9834.3	9556.9	9353.2	9457.5	9478.3	10427.6	10150.2	6813.3
32.5°	11510.0	11381.7	11158.8	10645.7	10446.8	10102.1	10127.7	10153.4	10833.3	10648.9	6925.5
35°	13052.5	13046.1	12610.0	11918.9	11434.6	11006.5	10894.2	10915.1	11447.4	11389.7	7174.1
37.5°	14909.4	14935.1	14438.0	13742.0	12850.5	12170.6	11939.7	11942.9	12380.7	12412.7	7552.5
40°	16421.5	16488.8	16192.2	15722.4	14842.0	13778.9	13390.9	13355.6	13692.3	13652.2	8092.9
42.5°	17072.5	17135.1	17245.7	17409.3	16925.0	16047.9	15132.3	15180.4	15283.0	15002.4	8699.0
45°	16753.4	16852.8	17287.4	18297.6	18753.0	18458.0	17366.0	17197.6	16763.0	16469.6	9308.4
47.5°	15424.1	15666.3	16392.6	18074.7	19668.6	20666.0	19886.7	19663.8	18244.7	17540.7	9696.4
50°	13238.5	13253.0	14264.8	16415.1	19194.0	22059.4	22460.3	22293.5	19625.3	18142.1	9892.0
52.5°	9597.0	9912.9	10839.7	13329.9	17138.3	21847.8	24100.7	24031.7	21049.2	18449.9	10174.2
54°	7296.0	7356.9	8181.1	10652.1	14776.3	20685.2	24201.7	24217.7	21756.4	18635.9	10341.0
55°	5981.1	5835.2	6701.1	9074.2	13164.8	19657.4	23871.4	23948.4	22073.9	18732.2	10464.5
57.5°	2835.0	2836.6	3498.8	4786.5	8245.2	15263.8	21852.6	22125.2	22109.1	18897.3	10844.5
60°	1435.1	1444.8	1590.7	2209.6	4072.9	10147.0	18068.3	18717.7	20407.8	18921.4	10969.6
62.5°	1003.8	992.6	968.5	1063.1	1714.1	5156.9	13451.8	14016.2	17338.7	18005.8	10571.9
65°	859.5	835.4	768.1	753.6	865.9	2054.1	8378.3	9298.7	13238.5	15590.9	9439.8
67.5°	734.4	724.8	663.9	627.0	612.5	894.8	4323.1	4807.3	9048.6	11206.9	7150.0
70°	623.8	619.0	582.1	535.6	495.5	535.6	1603.5	1986.7	5043.0	6034.0	3373.8
72.5°	506.7	511.5	517.9	458.6	416.9	380.0	684.7	796.9	2110.2	2156.7	1180.2
75°	444.2	439.4	439.4	399.3	348.0	282.2	376.8	405.7	646.2	599.7	274.2
77.5°	312.7	301.5	352.8	328.7	290.2	200.4	214.9	227.7	267.8	229.3	128.3
80°	216.5	216.5	226.1	295.0	261.4	145.9	131.5	141.1	158.7	136.3	73.8
82.5°	121.9	125.1	147.5	157.1	152.3	97.8	86.6	88.2	105.8	93.0	46.5
85°	14.4	24.1	85.0	83.4	62.5	43.3	48.1	49.7	65.7	57.7	27.3
87.5°	1.6	3.2	17.6	22.4	16.0	17.6	17.6	17.6	22.4	25.7	19.2
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°	5280.3	5280.3	5280.3	5280.3	5280.3	5280.3	5280.3	5280.3	5280.3	5280.3	5280.3
2.5°	5301.2	5179.3	4889.1	4552.4	4337.5	3987.9	3692.9	3479.6	3426.7	3324.1	3354.5
5°	5294.8	5041.4	4449.7	3824.4	3157.3	2660.2	2289.8	1998.0	1869.7	1784.7	1725.4
7.5°	5298.0	4901.9	3952.6	2956.9	2159.9	1672.5	1329.3	1151.3	1032.7	982.9	989.4
10°	5307.6	4744.8	3375.4	2190.4	1457.6	1080.8	870.7	785.7	745.6	739.2	737.6
12.5°	5330.1	4573.2	2823.8	1626.0	1019.8	785.7	705.5	676.7	663.9	663.9	659.0
15°	5354.1	4384.0	2365.2	1209.0	785.7	675.1	638.2	623.8	615.7	615.7	614.1
17.5°	5354.1	4165.9	1937.0	938.1	676.7	620.6	591.7	572.5	566.0	566.0	564.4
20°	5320.4	3912.6	1557.0	755.3	614.1	569.2	540.4	519.5	511.5	508.3	506.7
22.5°	5203.4	3574.2	1239.5	649.4	562.8	524.3	487.5	463.4	457.0	453.8	455.4
25°	4994.9	3192.6	981.3	570.8	516.3	469.8	437.8	420.1	413.7	413.7	415.3
27.5°	4780.1	2793.3	777.7	511.5	460.2	418.5	392.9	381.6	380.0	384.8	386.4
30°	4581.2	2392.4	630.2	463.4	410.5	375.2	357.6	354.4	354.4	356.0	357.6
32.5°	4359.9	2041.3	527.6	421.7	370.4	339.9	330.3	330.3	333.5	333.5	336.7
35°	4220.4	1739.8	463.4	381.6	339.9	314.3	307.9	309.5	314.3	320.7	323.9
37.5°	4145.1	1499.3	421.7	349.6	311.1	293.4	287.0	290.2	301.5	312.7	314.3
40°	4151.5	1318.1	388.0	322.3	288.6	269.4	264.6	274.2	285.4	296.6	298.3
42.5°	4222.0	1183.4	356.0	290.2	269.4	242.1	240.5	250.1	255.0	266.2	267.8
45°	4305.4	1085.6	322.3	256.6	234.1	210.1	211.7	219.7	226.1	243.7	246.9
47.5°	4331.1	1018.2	283.8	218.1	192.4	184.4	186.0	190.8	203.6	219.7	221.3
50°	4359.9	976.5	246.9	184.4	163.6	162.0	163.6	166.8	174.8	181.2	179.6
52.5°	4483.4	974.9	216.5	160.4	139.5	142.7	144.3	142.7	136.3	126.7	123.5
54°	4598.9	979.7	202.0	149.1	128.3	133.1	131.5	123.5	107.4	97.8	93.0
55°	4691.9	984.6	194.0	141.1	121.9	123.5	125.1	109.0	88.2	78.6	75.4
57.5°	4874.7	973.3	174.8	123.5	107.4	101.0	99.4	72.2	48.1	41.7	38.5
60°	4783.3	878.7	158.7	105.8	91.4	81.8	67.3	40.1	24.1	17.6	17.6
62.5°	4424.1	745.6	141.1	86.6	75.4	62.5	35.3	22.4	11.2	6.4	4.8
65°	3957.5	627.0	126.7	69.0	59.3	40.1	19.2	14.4	4.8	0.0	0.0
67.5°	2942.4	465.0	107.4	54.5	44.9	25.7	12.8	8.0	1.6	0.0	0.0
70°	1363.0	283.8	91.4	41.7	32.1	19.2	9.6	4.8	0.0	0.0	0.0
72.5°	391.3	178.0	75.4	30.5	22.4	16.0	8.0	3.2	1.6	0.0	0.0
75°	136.3	142.7	56.1	22.4	17.6	11.2	6.4	3.2	1.6	0.0	0.0
77.5°	81.8	115.5	35.3	19.2	14.4	9.6	6.4	3.2	1.6	1.6	0.0
80°	46.5	77.0	22.4	16.0	12.8	8.0	4.8	3.2	1.6	1.6	0.0
82.5°	25.7	36.9	17.6	14.4	11.2	8.0	4.8	3.2	1.6	1.6	1.6
85°	20.8	19.2	14.4	12.8	9.6	6.4	4.8	1.6	0.0	0.0	0.0
87.5°	16.0	12.8	12.8	12.8	9.6	6.4	4.8	1.6	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)