

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: P324501

Luminaire Tested: **GAN-SA7D-740-U-SLR-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P324501  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-28)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-SA7D-740-U-SLR-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT  
ELIMINATOR RIGHT OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 40683 lumens  
Efficiency: N/A  
Efficacy: 90.8 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B3 - U0 - G5

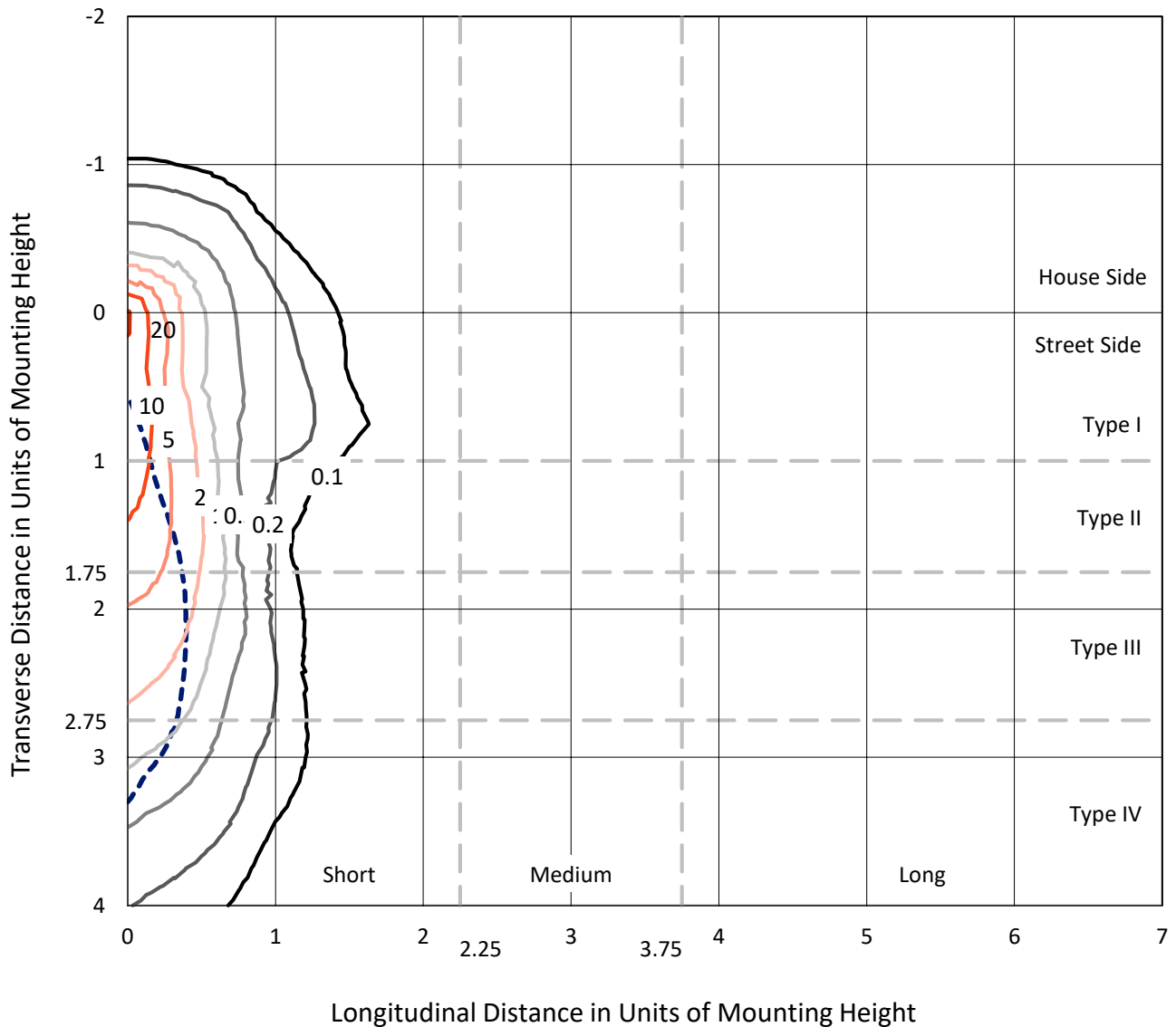
Input Watts (W): 448  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

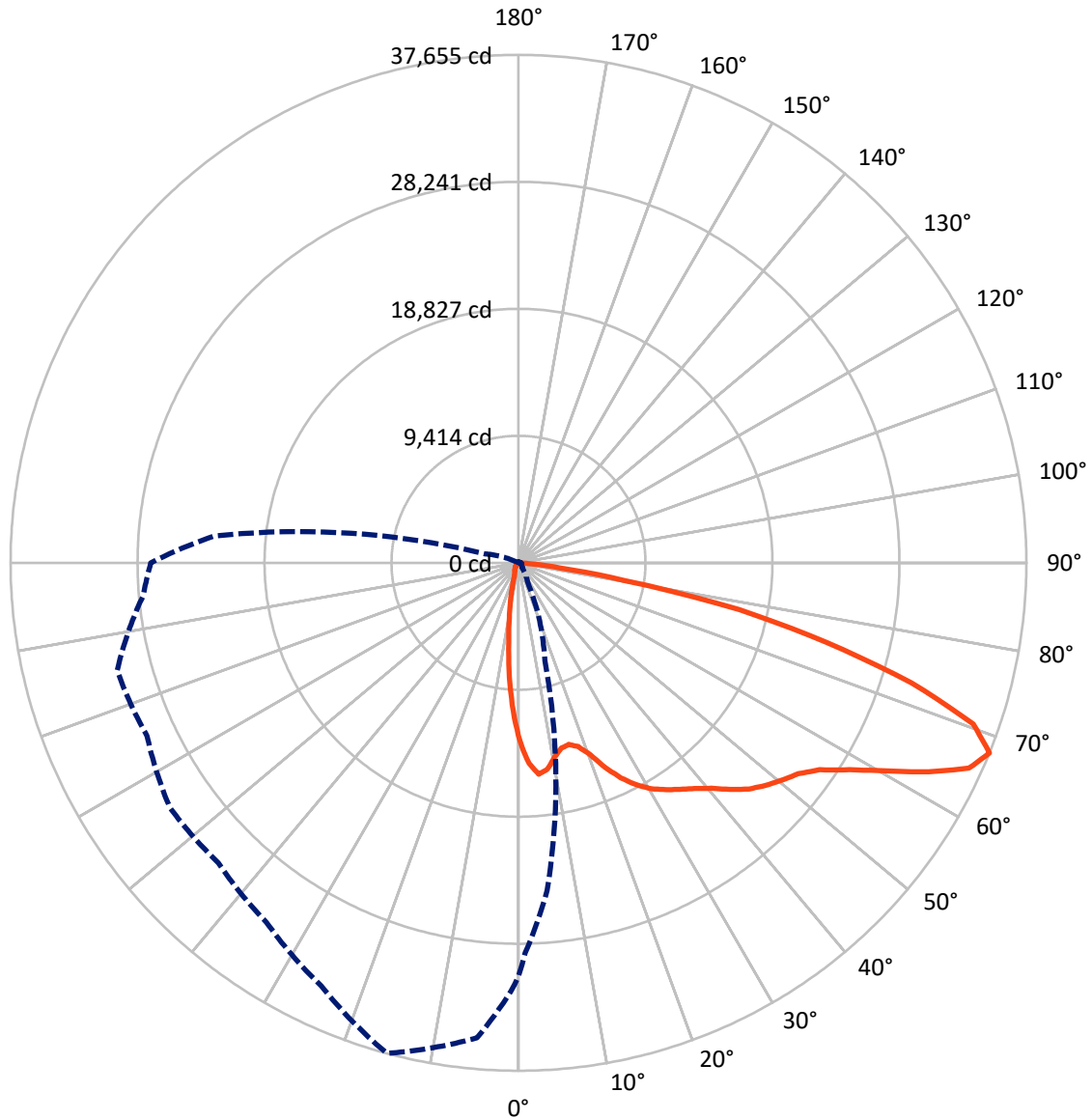
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 21.2 fc  
 Type IV - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 345-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4924.0	0.0	4924.0
	% Fixture	12.1	0.0	12.1
<b>Street Side</b>	Lumens	35759.0	0.0	35759.0
	% Fixture	87.9	0.0	87.9
<b>Total</b>	Lumens	40683.0	0.0	40683.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1017.1	2.5
10°-20°	2024.5	5.0
20°-30°	2874.8	7.1
30°-40°	4246.3	10.4
40°-50°	6124.1	15.1
50°-60°	8597.0	21.1
60°-70°	10021.6	24.6
70°-80°	5123.2	12.6
80°-90°	654.3	1.6
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°	40683.0	100.0
0°-180°	40683.0	100.0

**Coefficient of Utilization**

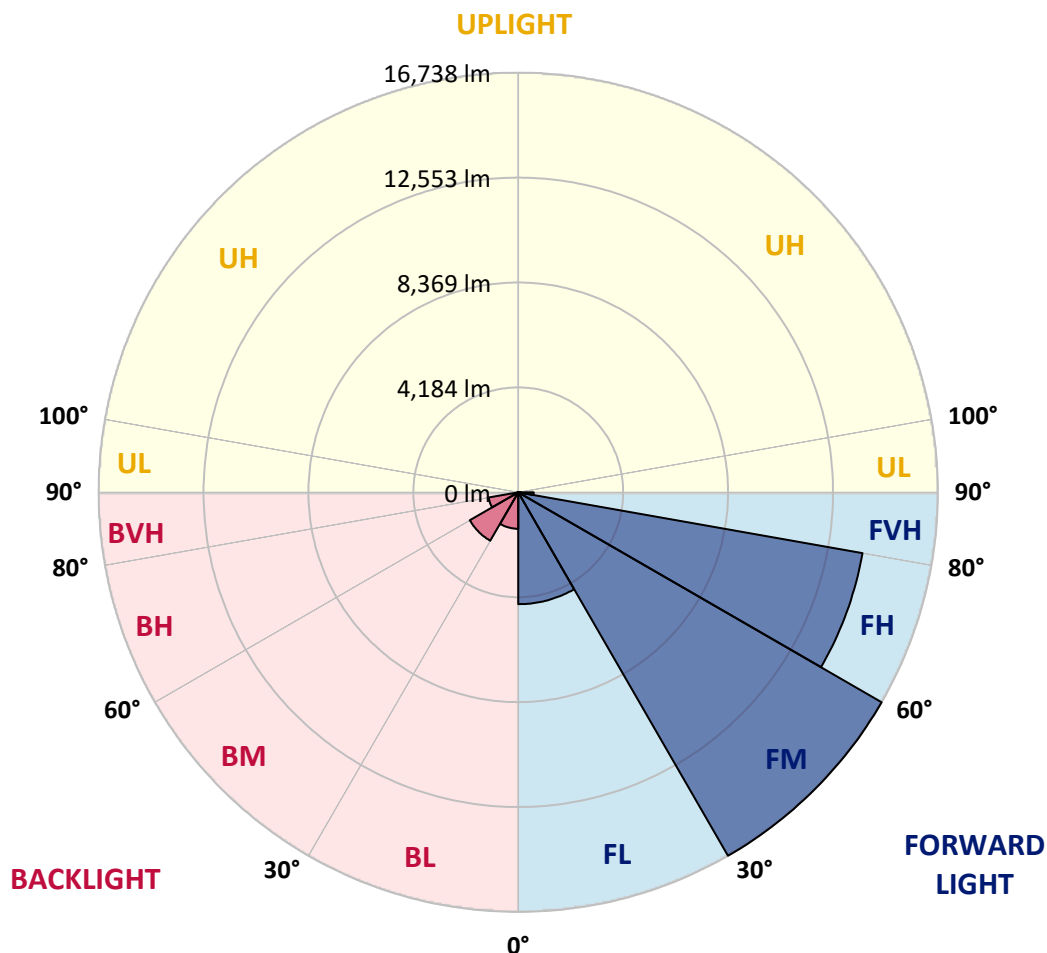


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4462.1	11.0			
FM (30°-60°)	16737.7	41.1			
FH (60°-80°)	13944.7	34.3			G5
FVH (80°-90°)	614.5	1.5			G4/750
BL (0°-30°)	1454.4	3.6	B3/2500		
BM (30°-60°)	2229.7	5.5	B2/2500		
BH (60°-80°)	1200.1	2.9	B3/2500		G3/2500
BVH (80°-90°)	39.8	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G5**  
 Type IV Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	13252.4	13252.4	13252.4	13252.4	13252.4	13252.4	13252.4	13252.4	13252.4	13252.4	13252.4
2.5°	14511.0	14399.2	14275.8	13873.0	13499.1	13071.2	12722.4	12479.5	12175.0	11779.9	11679.7
5°	14406.9	14287.4	13900.0	13003.8	12219.4	11456.1	10719.9	10288.2	9752.4	9208.8	9073.9
7.5°	13360.3	13235.1	12676.1	11448.4	10392.2	9289.8	8333.8	7742.1	7137.0	6639.7	6375.7
10°	12271.4	12134.6	11506.2	10016.4	8715.4	7719.0	7017.5	6452.7	5880.3	5348.4	4924.4
12.5°	11521.7	11342.4	10660.1	8971.8	7838.5	7162.0	6506.7	5830.2	5055.4	4484.9	4018.5
15°	11207.5	11003.2	10282.4	8569.0	7528.2	6734.1	5880.3	5049.6	4141.9	3488.5	3060.6
17.5°	11450.3	11184.4	10411.5	8542.0	7138.9	6057.6	4978.3	4003.1	3018.2	2357.1	2052.6
20°	12275.2	11926.4	10945.4	8534.3	6666.7	5253.9	3885.5	2783.1	1989.0	1599.7	1439.7
22.5°	13574.3	13113.6	11712.5	8596.0	6179.1	4409.8	2806.2	1890.7	1493.7	1291.3	1196.9
25°	15143.1	14609.3	12816.8	8813.7	5751.2	3588.7	2039.1	1493.7	1260.5	1112.1	1033.1
27.5°	16634.9	16201.2	14212.2	9127.9	5419.7	2925.7	1655.6	1266.3	1077.4	979.1	915.5
30°	18124.7	17579.3	15644.2	9501.8	5020.7	2476.6	1455.1	1154.5	965.6	861.5	821.0
32.5°	19207.9	18755.0	16766.0	9771.6	4594.8	2183.7	1301.0	1056.2	902.0	796.0	736.2
35°	20481.9	19969.2	17727.7	9831.4	4321.1	1998.7	1169.9	950.2	782.5	688.1	624.5
37.5°	21858.0	21220.0	18837.9	9700.3	4107.2	1908.1	1071.6	902.0	730.5	634.1	566.6
40°	23380.6	22659.8	19903.7	9511.4	3897.1	1877.2	996.4	865.4	690.0	591.7	522.3
42.5°	24984.1	24134.2	20826.9	9312.9	3764.1	1771.2	988.7	828.8	659.2	553.1	483.8
45°	26331.4	25469.8	21775.1	9247.4	3669.7	1655.6	1021.5	803.7	638.0	522.3	454.9
47.5°	27404.9	26589.6	22746.5	9393.9	3615.7	1549.6	930.9	836.5	626.4	495.3	429.8
50°	28686.6	27763.4	24114.9	9831.4	3536.7	1443.6	842.2	957.9	626.4	478.0	408.6
52.5°	30294.0	29380.4	25641.4	10509.8	3378.6	1297.1	757.4	959.8	632.2	454.9	381.6
55°	32315.8	31652.8	27821.2	11253.8	3126.2	1081.2	655.3	824.9	609.0	412.5	356.6
57.5°	34254.7	33713.1	29808.3	11762.6	2788.9	844.2	570.5	664.9	557.0	362.3	318.0
59°	34784.7	34193.0	30536.8	11785.7	2536.4	736.2	528.1	549.3	545.4	339.2	294.9
60°	34784.7	34156.4	30746.9	11662.4	2353.3	676.5	501.1	489.5	568.6	323.8	281.4
62.5°	34154.4	33271.7	30064.6	10827.8	1919.6	576.3	437.5	404.7	510.7	291.0	248.6
65°	32843.9	31558.3	27740.3	9318.7	1711.5	528.1	377.8	331.5	354.6	256.3	217.8
67.5°	30658.2	28915.9	24388.6	7528.2	1628.6	514.6	325.7	281.4	267.9	219.7	190.8
70°	26809.3	24876.2	20320.0	5918.9	1557.3	508.8	273.7	237.1	215.9	185.0	161.9
72.5°	19512.4	17496.4	14426.2	4627.6	1514.9	520.4	219.7	198.5	177.3	144.6	125.3
75°	11161.2	9841.0	8108.3	3056.8	1291.3	497.3	169.6	165.8	127.2	104.1	86.7
77.5°	5766.6	5591.2	4858.8	1173.8	618.7	217.8	111.8	96.4	75.2	63.6	52.0
80°	2488.2	2461.2	2129.7	339.2	163.8	121.4	63.6	40.5	34.7	27.0	21.2
82.5°	859.6	859.6	757.4	113.7	73.2	59.7	7.7	0.0	0.0	0.0	0.0
85°	173.5	194.7	136.8	0.0	25.1	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	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



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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	13252.4	13252.4	13252.4	13252.4	13252.4	13252.4	13252.4	13252.4	13252.4	13252.4	13252.4
2.5°	11558.3	11325.1	11309.6	11163.2	10980.1	10897.2	10849.0	10933.8	11037.9	11049.5	11205.6
5°	8971.8	8727.0	8829.2	8569.0	8621.0	8569.0	8484.2	8499.6	8545.8	8401.3	8580.5
7.5°	6300.5	6115.5	6233.0	6163.6	6256.2	6292.8	6240.7	6163.6	5936.2	5909.2	6065.3
10°	4749.0	4538.9	4413.6	4282.6	4311.5	4371.2	4351.9	4296.0	4151.5	4159.2	4309.5
12.5°	3816.1	3581.0	3332.4	3010.5	2931.5	2975.8	2931.5	2898.7	2760.0	2771.5	2904.5
15°	2894.9	2702.1	2441.9	2183.7	2043.0	2056.5	1933.1	1846.4	1759.7	1655.6	1736.5
17.5°	1954.3	1836.8	1759.7	1682.6	1514.9	1476.3	1320.2	1152.6	1087.0	1038.8	1073.5
20°	1383.8	1320.2	1289.4	1285.5	1189.2	1141.0	988.7	884.7	851.9	842.2	863.4
22.5°	1156.4	1110.1	1065.8	1040.8	992.6	936.7	821.0	769.0	745.9	734.3	749.7
25°	1006.1	971.4	925.1	882.7	863.4	803.7	720.8	682.3	666.9	655.3	663.0
27.5°	894.3	863.4	809.5	782.5	767.1	715.0	643.7	612.9	599.4	595.5	593.6
30°	805.6	776.7	726.6	695.8	668.8	622.5	580.1	549.3	535.8	531.9	528.1
32.5°	717.0	693.8	661.1	630.2	601.3	558.9	522.3	497.3	476.1	472.2	470.3
35°	605.2	582.1	564.7	562.8	535.8	495.3	468.3	435.6	418.2	412.5	414.4
37.5°	537.7	506.9	468.3	481.8	474.1	445.2	408.6	375.8	358.5	354.6	354.6
40°	495.3	462.6	418.2	395.1	418.2	412.5	354.6	321.9	304.5	302.6	298.7
42.5°	454.9	422.1	372.0	333.4	345.0	362.3	306.4	275.6	258.3	254.4	248.6
45°	425.9	391.3	335.4	291.0	267.9	304.5	262.1	223.6	213.9	206.2	202.4
47.5°	399.0	366.2	302.6	252.5	213.9	219.7	210.1	183.1	171.5	163.8	161.9
50°	375.8	341.1	273.7	215.9	177.3	161.9	169.6	144.6	134.9	127.2	123.3
52.5°	348.8	316.1	242.8	187.0	148.4	127.2	129.1	113.7	104.1	98.3	96.4
55°	327.6	294.9	217.8	163.8	131.1	104.1	92.5	88.7	82.9	79.0	77.1
57.5°	298.7	267.9	192.7	138.8	111.8	84.8	71.3	71.3	69.4	65.5	63.6
59°	281.4	254.4	177.3	125.3	102.1	73.2	63.6	65.5	63.6	59.7	57.8
60°	267.9	242.8	165.8	115.6	96.4	67.5	57.8	61.7	59.7	55.9	54.0
62.5°	237.1	219.7	142.6	96.4	84.8	54.0	48.2	52.0	52.0	50.1	48.2
65°	208.2	188.9	121.4	80.9	79.0	46.3	38.5	46.3	48.2	44.3	40.5
67.5°	181.2	161.9	106.0	65.5	73.2	36.6	28.9	38.5	52.0	40.5	36.6
70°	154.2	134.9	82.9	52.0	77.1	25.1	23.1	34.7	61.7	44.3	34.7
72.5°	119.5	104.1	57.8	38.5	82.9	17.3	17.3	28.9	69.4	48.2	32.8
75°	82.9	67.5	34.7	23.1	67.5	11.6	11.6	27.0	65.5	44.3	30.8
77.5°	48.2	36.6	11.6	1.9	34.7	0.0	1.9	19.3	46.3	27.0	13.5
80°	17.3	7.7	0.0	0.0	21.2	0.0	0.0	0.0	3.9	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	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





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**CANDELA DISTRIBUTION (continued):**

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	13252.4	13252.4	13252.4	13252.4	13252.4	13252.4	13252.4	13252.4	13252.4	13252.4	13252.4
2.5°	11246.0	11506.2	11739.4	12092.2	12510.4	12992.2	13406.6	13851.8	14270.0	14443.5	14563.0
5°	8617.2	8939.0	9314.8	9833.3	10523.3	11373.3	12169.2	13069.3	14036.8	14520.6	14975.5
7.5°	6092.3	6420.0	6886.4	7437.6	8272.2	9284.0	10324.8	11567.9	12878.5	13643.7	14397.3
10°	4380.9	4783.7	5219.2	5972.8	6820.9	7780.7	8852.3	10240.0	11700.9	12548.9	13456.7
12.5°	2981.6	3440.3	4099.5	4943.6	5940.1	6880.6	7811.5	9135.6	10831.7	11672.0	12645.3
15°	1788.6	2043.0	2740.7	3717.8	4939.8	6111.6	7131.2	8459.1	10267.0	11296.2	12308.0
17.5°	1102.4	1220.0	1599.7	2401.5	3685.1	5167.2	6564.5	8229.8	10347.9	11600.7	12683.8
20°	878.9	925.1	1046.5	1418.5	2441.9	4126.4	5926.6	8183.5	11009.0	12550.9	13713.0
22.5°	763.2	807.6	888.5	1031.1	1536.1	3089.5	5321.4	8225.9	11957.2	13975.2	15332.0
25°	672.6	711.2	788.3	905.9	1125.6	2176.0	4673.8	8414.8	13192.7	15742.5	17184.2
27.5°	601.3	634.1	705.4	813.3	965.6	1518.7	3939.5	8644.1	14657.4	17550.4	18972.8
30°	535.8	564.7	628.3	728.5	838.4	1168.0	3133.9	8800.2	16124.2	18972.8	20250.6
32.5°	479.9	501.1	558.9	643.7	728.5	930.9	2382.2	8775.2	17213.1	20156.2	21169.9
35°	422.1	443.3	493.4	566.6	634.1	769.0	1873.4	8306.8	18161.4	21383.9	22222.3
37.5°	358.5	385.5	433.7	499.2	545.4	676.5	1514.9	7742.1	19123.1	22787.0	23396.0
40°	304.5	331.5	373.9	445.2	474.1	641.8	1164.1	7054.1	20204.3	24355.8	24683.5
42.5°	252.5	277.5	321.9	383.5	447.1	553.1	861.5	6267.7	21243.2	25697.3	25857.2
45°	204.3	229.4	275.6	337.3	478.0	458.7	666.9	5425.5	22081.6	26813.2	26865.2
47.5°	161.9	185.0	233.2	318.0	445.2	366.2	476.1	4764.4	22785.1	27684.4	27547.5
50°	125.3	144.6	194.7	364.3	389.3	302.6	360.4	4544.7	23415.3	28224.0	27869.4
52.5°	98.3	115.6	160.0	341.1	302.6	250.6	302.6	4750.9	24278.7	28671.2	28050.6
55°	79.0	96.4	125.3	194.7	206.2	212.0	258.3	4943.6	25768.6	29719.6	29120.2
57.5°	65.5	82.9	102.1	136.8	156.1	179.2	229.4	4964.8	27524.4	31462.0	30895.3
59°	59.7	75.2	92.5	121.4	136.8	163.8	215.9	4849.2	28143.1	32096.0	31812.7
60°	55.9	71.3	86.7	111.8	127.2	154.2	208.2	4739.3	28170.0	32072.9	32204.0
62.5°	48.2	63.6	77.1	94.4	107.9	131.1	187.0	4332.7	27029.1	31022.5	31968.8
65°	42.4	55.9	69.4	80.9	92.5	117.6	169.6	3590.6	25080.5	29328.4	30359.5
67.5°	38.5	48.2	63.6	71.3	82.9	104.1	150.3	2559.5	22646.3	27256.5	27925.3
70°	34.7	46.3	57.8	65.5	75.2	90.6	129.1	1470.6	19123.1	24222.8	24698.9
72.5°	32.8	44.3	52.0	61.7	67.5	80.9	117.6	691.9	14002.1	19404.5	20647.6
75°	28.9	40.5	48.2	57.8	63.6	73.2	100.2	331.5	9312.9	14042.6	15455.4
77.5°	17.3	32.8	44.3	52.0	55.9	63.6	82.9	190.8	5943.9	9719.6	11448.4
80°	0.0	11.6	32.8	44.3	48.2	54.0	63.6	150.3	3180.1	5552.7	6664.8
82.5°	0.0	0.0	23.1	34.7	32.8	36.6	48.2	94.4	1433.9	3629.2	4089.8
85°	0.0	0.0	7.7	27.0	23.1	17.3	32.8	32.8	314.2	1836.8	2291.6
87.5°	0.0	0.0	0.0	1.9	11.6	7.7	13.5	3.9	1.9	136.8	555.1
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°	13252.4	13252.4	13252.4	13252.4	13252.4	13252.4	13252.4	13252.4	13252.4	13252.4
2.5°	14981.2	15123.9	15364.8	15478.5	15422.6	15185.5	14902.2	14613.1	14443.5	14511.0
5°	15902.5	16636.8	17060.8	17201.5	16966.4	16434.5	15738.7	14821.3	14495.5	14406.9
7.5°	15902.5	17284.4	18159.4	18313.6	17789.4	16746.7	15441.9	14009.9	13533.8	13360.3
10°	15343.6	17224.7	18444.7	18689.4	17957.1	16397.8	14649.7	13015.3	12450.6	12271.4
12.5°	14713.3	16739.0	18024.5	18361.8	17760.5	16050.9	14100.4	12342.7	11677.8	11521.7
15°	14325.9	16141.5	17205.4	17450.2	17195.8	15848.5	13969.4	12140.3	11357.8	11207.5
17.5°	14464.7	15678.9	16062.5	16205.1	16376.6	15777.2	14325.9	12583.6	11593.0	11450.3
20°	14987.0	15191.3	14992.8	15172.0	15634.6	15846.6	15175.9	13655.2	12466.1	12275.2
22.5°	15873.6	14938.8	14381.8	14453.1	15015.9	16076.0	16474.9	15185.5	13813.3	13574.3
25°	16906.7	15143.1	14042.6	13979.0	14557.2	16378.6	17662.2	16850.8	15407.2	15143.1
27.5°	18205.7	15601.8	13973.2	13909.6	14397.3	16661.9	18649.0	18496.7	17085.9	16634.9
30°	19207.9	16052.8	14179.5	14033.0	14557.2	16858.5	19441.1	19894.0	18423.5	18124.7
32.5°	19926.8	16584.8	14514.8	14302.8	15008.2	17197.7	20052.1	21173.8	19660.8	19207.9
35°	20474.2	17163.0	15056.4	14707.6	15628.8	17712.3	20624.5	22536.4	20977.2	20481.9
37.5°	20986.8	17974.4	15902.5	15486.2	16602.1	18541.0	21229.7	24082.2	22449.7	21858.0
40°	21701.9	18893.7	17207.3	16837.3	18238.4	19670.5	21985.2	25693.4	24124.6	23380.6
42.5°	22416.9	19880.5	18543.0	18643.2	20279.5	21042.7	22960.4	27397.2	25778.2	24984.1
45°	23070.3	20898.2	20445.3	20907.8	22174.1	22548.0	23929.9	28382.1	27098.4	26331.4
47.5°	23652.4	22170.2	22336.0	23567.6	24328.9	23910.6	24654.6	29232.0	28081.4	27404.9
50°	24328.9	23816.2	24828.0	26570.4	26809.3	25144.1	25313.7	30238.1	29230.1	28686.6
52.5°	25069.0	25550.8	27588.0	29124.1	29047.0	26483.6	25976.7	31365.6	30804.7	30294.0
55°	25909.3	26952.0	30018.4	31514.0	31448.5	27979.2	27075.3	32759.1	32778.3	32315.8
57.5°	27156.3	28158.5	31668.2	33447.1	33557.0	29706.1	28937.1	34320.2	34563.0	34254.7
59°	28050.6	28941.0	32321.5	34254.7	34701.8	31041.8	30297.8	35226.1	35066.1	34784.7
60°	28713.6	29438.2	32645.3	34676.8	35366.7	31947.6	31302.0	35758.0	35125.8	34784.7
62.5°	30353.7	30521.4	33229.3	35154.7	36131.9	33959.8	34127.5	36663.8	34711.5	34154.4
65°	31118.9	31205.6	33221.6	34299.0	35391.8	35526.7	36690.8	36690.8	33699.6	32843.9
67.5°	30798.9	30380.7	31573.7	31462.0	32552.8	34595.8	37654.5	35345.5	31764.5	30658.2
70°	28197.0	26587.7	26057.7	26105.9	26940.4	30091.6	35746.4	31386.8	28102.6	26809.3
72.5°	23461.5	19601.1	18292.4	19786.1	20003.9	23126.2	30463.6	23636.9	20724.7	19512.4
75°	18870.6	13817.1	11689.3	13265.9	13636.0	16924.0	23565.6	14721.0	12105.6	11161.2
77.5°	13556.9	9918.1	8387.8	8277.9	8755.9	10733.4	16721.6	7408.7	6179.1	5766.6
80°	7701.7	6527.9	7029.0	6632.0	6872.9	6711.0	7944.5	3249.5	2661.7	2488.2
82.5°	4648.8	3858.5	4178.5	3478.9	4402.1	3833.5	3060.6	1040.8	903.9	859.6
85°	3024.0	2108.5	1098.6	736.2	1516.8	2449.7	684.2	283.3	217.8	173.5
87.5°	1042.7	537.7	54.0	23.1	161.9	456.8	25.1	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

(END OF REPORT)