

Scaled data based on original data using  
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions

Brand: STREETWORKS

Report Number: P387146

Luminaire Tested: GAW-SA2D-827-U-SLL-HSS

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-2019  
Report Number: P387146  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-27)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: STREETWORKS  
Catalog Number: GAW-SA2D-827-U-SLL-HSS  
Description: GALLEON WALL LUMINAIRE  
(2) 80 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT  
ELIMINATOR LEFT OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8825 lumens  
Efficiency: N/A  
Efficacy: 68.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B1 - U0 - G2

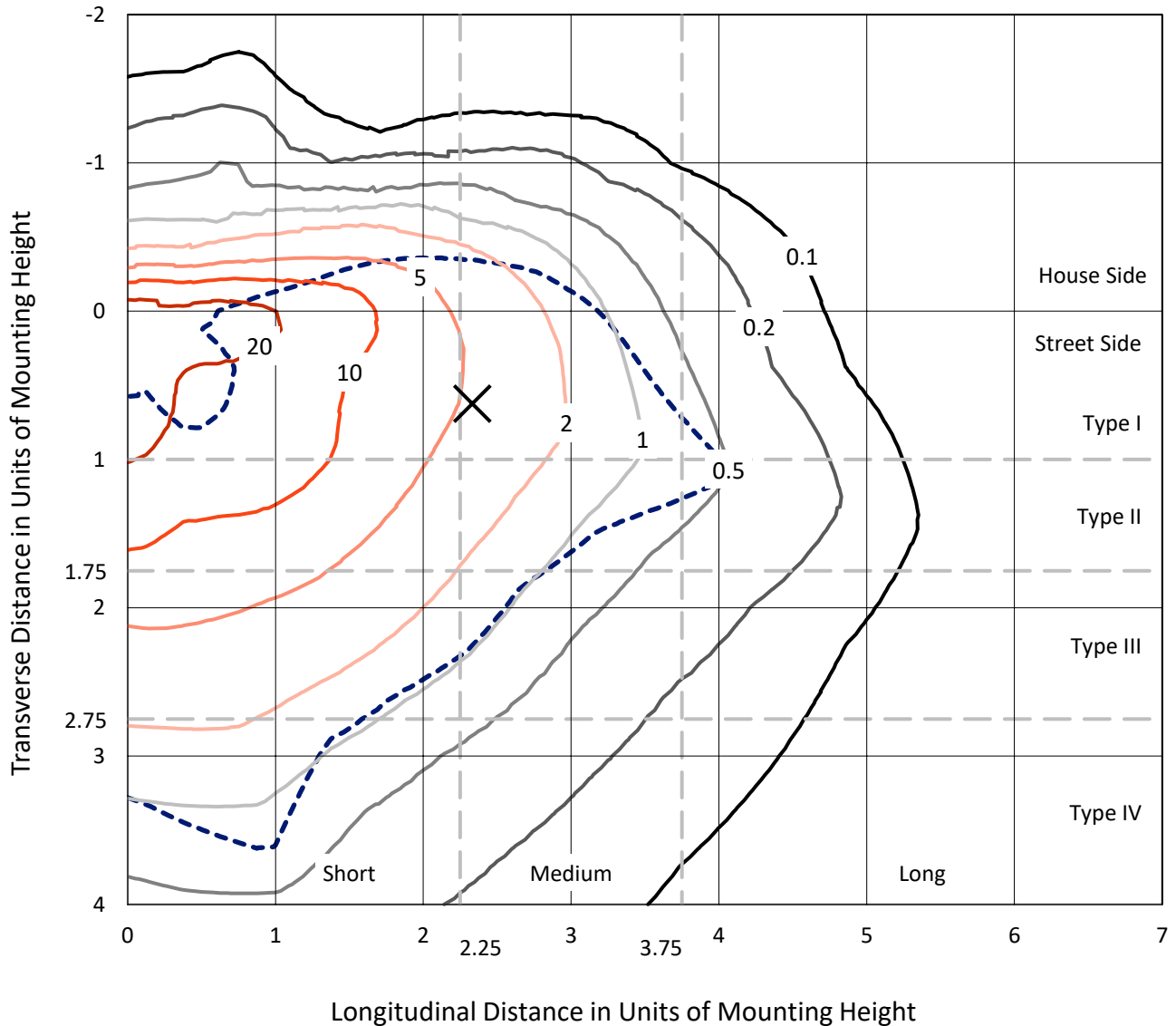
Input Watts (W): 128  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

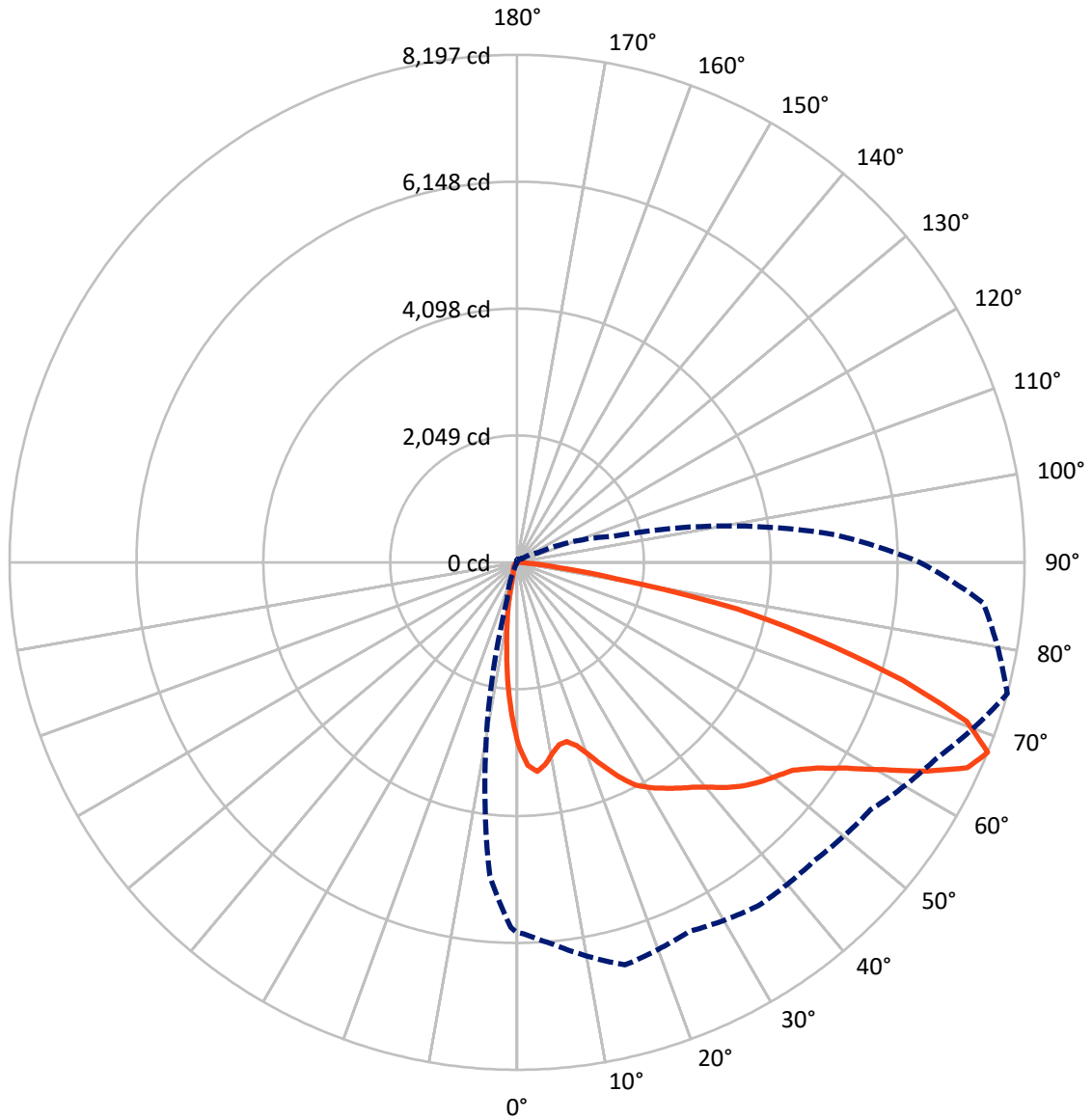
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 38.4 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral      - - - Horizontal Cone Through 67.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1324.3	0.0	1324.3
	% Fixture	15.0	0.0	15.0
<b>Street Side</b>	Lumens	7500.7	0.0	7500.7
	% Fixture	85.0	0.0	85.0
<b>Total</b>	Lumens	8825.0	0.0	8825.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	224.6	2.5
10°-20°	442.2	5.0
20°-30°	625.6	7.1
30°-40°	919.8	10.4
40°-50°	1322.0	15.0
50°-60°	1861.1	21.1
60°-70°	2173.6	24.6
70°-80°	1108.9	12.6
80°-90°	147.3	1.7
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°	8825.0	100.0
0°-180°	8825.0	100.0

**Coefficient of Utilization**

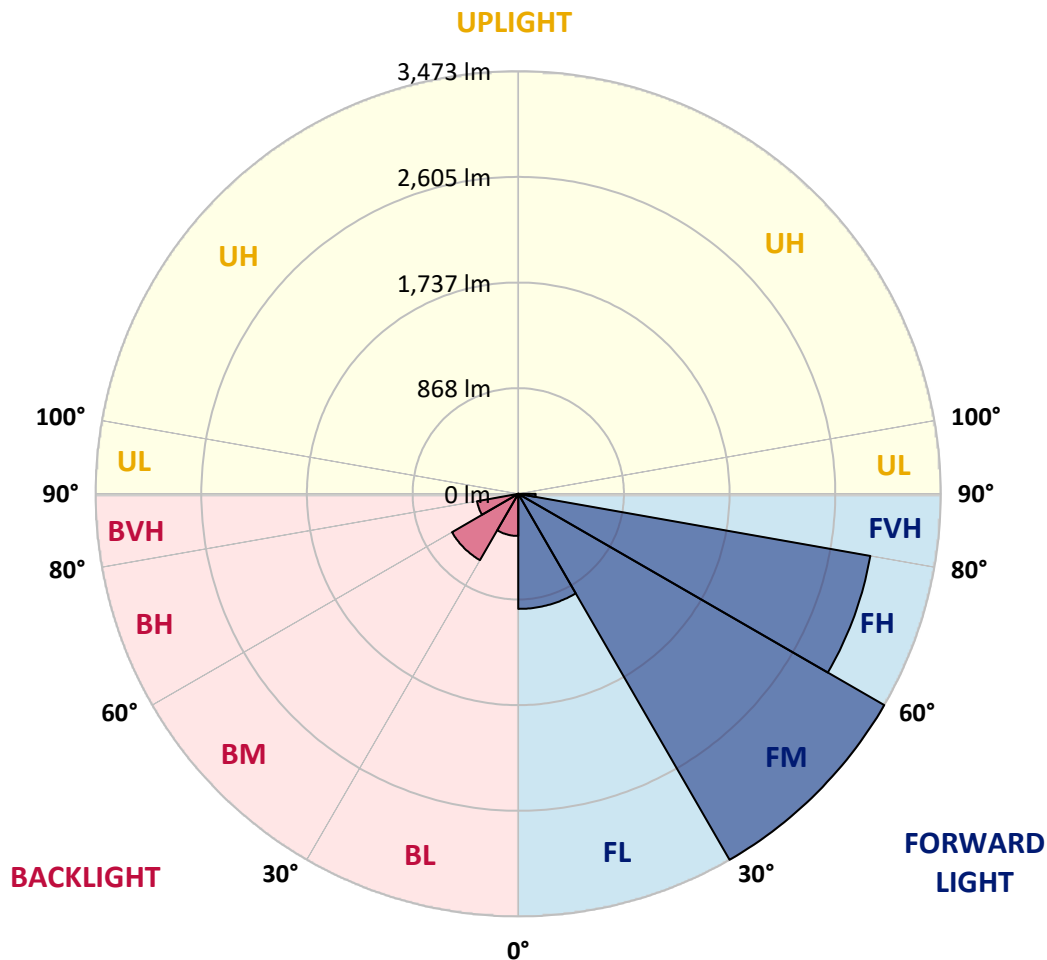


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	946.0	10.7			
FM (30°-60°)	3473.4	39.4			
FH (60°-80°)	2938.5	33.3			G2/5000
FVH (80°-90°)	142.8	1.6			G2/225
BL (0°-30°)	346.3	3.9	B1/500		
BM (30°-60°)	629.5	7.1	B1/1000		
BH (60°-80°)	344.0	3.9	B1/500		G1/500
BVH (80°-90°)	4.5	0.1			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 III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	2960.6	2960.6	2960.6	2960.6	2960.6	2960.6	2960.6	2960.6	2960.6	2960.6	2960.6
2.5°	3209.4	3214.4	3240.3	3300.5	3366.1	3371.2	3415.5	3369.9	3354.4	3280.9	3204.8
5°	3233.6	3252.9	3341.9	3518.7	3672.2	3721.5	3756.6	3667.1	3573.1	3393.3	3201.4
7.5°	3038.4	3070.6	3210.6	3542.6	3816.8	3938.0	3961.0	3821.0	3590.6	3294.7	3006.2
10°	2788.4	2825.2	2994.1	3402.1	3778.8	3986.5	4018.3	3834.8	3503.7	3135.0	2795.1
12.5°	2586.1	2629.1	2801.8	3244.1	3647.9	3877.8	3940.5	3788.4	3428.4	3021.7	2650.9
15°	2492.8	2542.2	2723.6	3142.1	3502.8	3683.9	3735.7	3670.1	3386.6	3003.7	2617.4
17.5°	2546.3	2599.9	2787.1	3150.8	3366.6	3443.9	3485.7	3512.5	3386.6	3112.0	2715.2
20°	2765.8	2823.5	3021.7	3239.9	3253.7	3224.8	3269.6	3363.6	3425.9	3317.7	2950.2
22.5°	3069.3	3137.1	3360.7	3392.5	3198.5	3089.4	3095.2	3242.8	3497.4	3578.5	3276.3
25°	3439.3	3522.1	3749.5	3619.9	3221.5	3008.7	3006.6	3143.3	3567.2	3839.8	3639.6
27.5°	3806.8	3897.9	4097.7	3897.5	3316.4	2994.1	2989.9	3113.2	3635.4	4072.2	4036.3
30°	4114.9	4203.5	4375.7	4098.6	3418.8	3028.4	3008.3	3145.4	3675.9	4223.2	4325.6
32.5°	4365.7	4436.8	4576.0	4236.9	3528.3	3094.8	3051.4	3231.5	3744.9	4350.7	4591.5
35°	4641.6	4716.5	4772.1	4368.6	3651.3	3190.6	3128.3	3368.2	3851.1	4480.3	4882.8
37.5°	4956.4	5030.8	5024.1	4489.0	3807.2	3349.0	3309.3	3584.8	4016.2	4608.6	5208.1
40°	5264.5	5340.6	5286.3	4620.7	3990.3	3610.3	3581.0	3910.0	4237.4	4772.9	5589.3
42.5°	5553.0	5635.3	5519.1	4745.3	4208.5	3939.7	3989.9	4328.9	4514.1	4975.2	5917.9
45°	5785.4	5869.4	5714.3	4866.5	4438.4	4339.4	4490.3	4793.0	4846.9	5146.2	6139.9
47.5°	5954.3	6033.7	5849.8	4987.8	4732.8	4828.1	5091.0	5279.6	5147.5	5294.6	6297.5
50°	6062.2	6124.0	5889.5	5139.5	5119.0	5398.3	5716.8	5808.8	5430.5	5428.4	6489.0
52.5°	6130.7	6158.7	5918.8	5298.0	5522.0	6019.1	6329.7	6358.6	5721.9	5575.5	6746.9
55°	6366.9	6389.5	6126.1	5489.8	5855.2	6563.0	6884.0	6857.3	6051.7	5863.6	7051.3
57.5°	6769.9	6793.7	6554.6	5765.8	6124.9	6899.1	7285.8	7333.9	6438.4	6268.3	7377.3
60°	6972.3	7016.6	6931.3	6115.2	6386.1	7114.0	7559.6	7713.0	6921.7	6801.7	7693.4
62.5°	6788.7	6853.1	6976.9	6502.8	6645.8	7232.3	7644.9	7848.9	7416.6	7423.3	7888.2
65°	6422.5	6473.9	6683.8	6715.2	6796.3	7217.6	7434.2	7659.1	7719.7	7994.4	7877.8
67.5°	5980.2	5999.4	6177.5	6731.9	6578.0	6777.9	6801.3	6967.7	7480.2	8196.7	7561.3
70°	5343.5	5354.0	5509.5	6172.1	5652.9	5696.8	5662.1	5695.9	6430.9	7703.8	6762.4
72.5°	4300.5	4326.8	4548.0	5125.7	4118.2	3991.6	4264.1	4249.1	4952.6	6508.6	5022.5
75°	3166.3	3211.9	3545.9	4128.7	2890.4	2614.5	2813.5	2866.6	3520.8	5034.6	3140.8
77.5°	2216.9	2250.8	2574.4	3035.0	2091.9	1869.5	1797.6	1860.7	2323.9	3642.1	1582.3
80°	1277.1	1289.7	1496.2	1752.5	1409.7	1612.8	1461.1	1504.6	1392.5	1620.4	680.6
82.5°	835.7	837.8	918.5	1043.0	877.9	1020.0	755.0	965.3	856.6	650.9	221.6
85°	451.5	454.0	532.6	740.4	497.1	280.9	165.1	339.0	529.7	149.2	60.6
87.5°	49.7	45.6	160.5	269.2	138.0	25.5	8.8	38.0	84.9	9.6	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°	2960.6	2960.6	2960.6	2960.6	2960.6	2960.6	2960.6	2960.6	2960.6	2960.6	2960.6
2.5°	3165.9	3131.2	3044.7	2953.1	2879.5	2810.6	2741.2	2656.3	2590.7	2577.3	2555.5
5°	3098.2	2988.2	2806.8	2624.5	2477.8	2292.6	2175.1	2083.6	1994.1	1988.7	1970.7
7.5°	2861.6	2716.9	2461.5	2209.4	2002.9	1826.5	1648.4	1529.2	1435.6	1402.6	1382.9
10°	2634.1	2471.5	2152.5	1864.9	1680.6	1524.6	1399.2	1274.6	1161.8	1084.0	1048.9
12.5°	2475.3	2295.5	1943.9	1696.0	1563.9	1415.9	1262.9	1107.4	977.4	883.8	826.5
15°	2413.8	2221.9	1874.1	1629.1	1466.1	1278.8	1083.2	905.5	761.3	676.4	625.0
17.5°	2487.0	2263.7	1868.7	1547.6	1319.8	1086.9	870.8	660.9	525.1	460.7	427.7
20°	2672.6	2396.7	1866.6	1447.7	1145.9	859.5	589.9	434.8	352.4	316.5	301.0
22.5°	2935.1	2566.4	1883.3	1349.1	964.9	614.1	407.2	319.4	277.2	257.9	249.2
25°	3272.9	2804.7	1930.6	1259.6	794.7	458.2	317.3	267.6	237.9	222.8	216.6
27.5°	3632.9	3078.9	2004.1	1181.8	656.3	365.4	271.7	229.1	207.8	197.3	191.5
30°	3929.7	3396.7	2078.5	1095.3	556.0	318.6	248.7	209.0	184.4	177.7	172.2
32.5°	4189.3	3637.0	2131.2	1017.1	490.4	283.0	224.9	186.9	170.1	157.2	151.3
35°	4458.1	3837.3	2129.6	962.4	445.2	256.3	204.8	167.2	147.2	132.1	127.5
37.5°	4749.1	4063.5	2093.2	915.5	425.6	234.9	193.6	156.8	136.7	121.7	115.8
40°	5089.8	4300.9	2056.0	871.6	420.1	217.8	185.6	148.4	127.1	112.5	106.6
42.5°	5421.7	4514.9	2023.4	839.0	396.7	217.4	178.5	142.1	119.6	105.3	98.7
45°	5687.2	4714.4	2017.1	819.4	372.1	224.9	174.7	138.0	113.7	99.5	93.2
47.5°	5907.9	4930.9	2057.2	805.6	348.7	205.3	183.9	135.0	108.3	94.5	87.4
50°	6170.4	5196.8	2151.7	783.0	324.0	184.8	210.7	135.9	103.7	89.5	81.9
52.5°	6536.6	5564.7	2290.5	745.0	290.1	166.0	207.4	136.7	98.7	84.0	76.5
55°	6947.2	6024.1	2439.7	681.8	242.9	141.3	177.7	130.8	89.0	78.2	71.1
57.5°	7378.6	6440.9	2528.4	606.6	193.1	122.1	142.1	119.1	78.6	70.2	65.6
60°	7446.3	6599.4	2487.8	514.2	153.4	106.2	105.3	121.2	70.2	61.9	58.5
62.5°	7277.8	6400.4	2291.8	431.8	128.3	93.2	86.5	105.8	63.5	55.2	51.8
65°	6953.9	5862.3	1974.0	389.2	119.1	79.8	71.9	74.4	55.6	48.1	45.1
67.5°	6503.2	5144.1	1620.8	365.0	117.9	68.6	61.5	56.4	48.1	41.8	39.3
70°	5581.8	4285.4	1293.0	351.6	114.5	57.7	51.8	46.0	40.1	35.5	33.4
72.5°	4108.2	3036.7	1005.8	336.9	115.4	46.0	45.1	38.0	32.2	27.6	26.8
75°	2373.7	1734.9	659.7	273.0	109.9	35.5	37.6	26.8	22.6	19.2	19.2
77.5°	1265.0	1058.1	251.2	113.7	40.1	22.6	21.3	15.9	14.2	11.7	11.3
80°	551.4	465.7	75.7	31.8	22.2	12.1	7.9	7.1	6.3	5.0	4.6
82.5°	195.2	168.5	24.7	15.5	9.6	0.0	0.0	0.0	0.0	0.0	0.0
85°	44.3	31.8	0.0	3.8	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°	2960.6	2960.6	2960.6	2960.6	2960.6	2960.6	2960.6	2960.6	2960.6	2960.6	2960.6
2.5°	2511.2	2502.0	2447.7	2449.8	2459.4	2473.2	2440.6	2455.6	2496.2	2535.1	2549.7
5°	1941.8	1943.9	1910.9	1931.4	1949.8	1962.3	1909.7	1910.5	1942.7	1986.6	2009.6
7.5°	1368.3	1364.9	1366.6	1415.5	1450.2	1425.1	1444.8	1376.6	1380.8	1412.2	1388.8
10°	1017.1	971.1	945.2	982.0	1020.0	1006.2	972.4	950.2	965.7	1000.4	997.9
12.5°	799.3	733.3	694.4	668.0	699.4	673.5	672.6	653.4	632.5	636.3	691.9
15°	601.2	553.1	507.1	464.9	464.0	455.3	410.5	360.4	356.2	358.7	387.5
17.5°	413.5	397.1	378.3	342.0	332.4	295.6	252.1	232.0	222.0	226.6	236.2
20°	290.5	284.3	286.4	266.7	252.9	217.8	192.3	184.4	182.7	187.3	191.9
22.5°	240.8	229.5	228.3	219.5	205.7	180.2	166.4	161.8	159.7	163.9	167.2
25°	210.7	199.4	194.8	189.4	174.7	157.2	148.8	144.6	142.6	145.1	147.2
27.5°	185.6	175.2	171.0	167.2	153.0	140.5	133.8	130.0	128.3	129.2	131.3
30°	166.8	157.6	152.2	147.6	135.4	126.7	120.8	117.1	115.4	115.4	117.5
32.5°	147.2	142.1	137.1	131.3	120.0	114.1	108.3	104.1	102.4	102.8	104.5
35°	122.5	120.8	122.1	116.6	107.0	102.0	96.2	91.6	90.3	90.7	92.4
37.5°	108.7	101.2	105.8	102.8	97.4	90.7	83.2	79.0	76.9	78.2	79.0
40°	99.9	90.7	87.4	90.3	89.5	78.6	71.9	67.7	66.1	66.5	67.3
42.5°	92.4	81.5	74.0	73.6	78.6	68.6	61.5	57.7	55.6	55.6	56.4
45°	85.3	73.6	64.4	57.3	66.1	58.1	51.4	48.1	45.6	45.6	46.0
47.5°	79.8	66.9	56.0	46.8	49.7	47.7	42.2	38.9	36.4	36.4	36.8
50°	74.8	60.2	48.5	39.3	37.2	39.3	34.3	30.5	28.8	28.4	29.3
52.5°	69.4	53.5	41.4	33.4	29.3	29.7	26.8	24.2	22.2	22.2	23.0
55°	64.0	48.1	36.0	28.4	24.2	22.2	21.3	19.6	18.0	18.0	18.8
57.5°	58.5	42.2	30.5	23.4	19.2	17.6	17.6	16.3	15.0	15.0	15.9
60°	53.5	36.4	25.1	19.2	15.0	14.6	15.0	13.8	13.0	13.0	13.8
62.5°	47.7	30.9	20.5	15.9	12.1	11.7	13.0	12.1	11.3	11.3	12.1
65°	40.6	26.3	16.3	12.1	9.2	9.2	10.9	10.0	9.2	9.2	10.0
67.5°	34.3	22.2	12.5	8.8	6.7	7.1	9.2	8.4	7.9	7.9	8.8
70°	28.4	17.1	8.8	5.4	3.8	5.4	7.1	7.1	7.1	7.1	7.9
72.5°	21.3	11.7	5.0	2.1	1.7	3.8	5.9	6.7	6.3	6.3	7.5
75°	13.8	6.7	1.7	0.0	0.0	2.1	4.6	5.4	5.4	5.0	6.3
77.5°	7.9	2.1	0.0	0.0	0.0	0.0	2.9	2.5	2.1	1.7	2.9
80°	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	2960.6	2960.6	2960.6	2960.6	2960.6	2960.6	2960.6	2960.6	2960.6	2960.6
2.5°	2608.6	2658.0	2727.4	2800.9	2914.2	3004.1	3092.3	3168.0	3197.3	3209.4
5°	2064.8	2137.1	2238.7	2369.1	2573.5	2757.5	2943.9	3131.6	3213.1	3233.6
7.5°	1481.6	1574.0	1703.1	1866.6	2106.1	2344.4	2604.9	2880.4	3006.6	3038.4
10°	1096.5	1209.4	1357.4	1529.6	1758.3	2003.3	2287.2	2601.9	2746.2	2788.4
12.5°	778.0	930.6	1128.7	1338.2	1536.3	1755.0	2042.2	2389.2	2540.5	2586.1
15°	456.9	604.5	839.0	1119.5	1373.3	1594.9	1886.7	2280.0	2446.9	2492.8
17.5°	262.1	335.7	512.9	825.7	1170.1	1477.0	1837.8	2307.2	2503.7	2546.3
20°	200.2	223.7	295.6	531.8	932.7	1361.2	1837.8	2461.1	2703.1	2765.8
22.5°	175.2	192.3	221.6	317.3	686.4	1237.0	1859.1	2683.5	2999.9	3069.3
25°	155.5	171.0	196.1	238.7	468.2	1089.4	1909.7	2956.5	3349.4	3439.3
27.5°	139.2	153.8	176.4	209.0	320.2	911.4	1977.8	3276.7	3734.9	3806.8
30°	124.6	138.4	158.9	181.9	247.1	709.4	2035.9	3578.5	4037.5	4114.9
32.5°	110.8	123.3	141.7	158.9	202.3	524.7	2042.2	3817.6	4288.8	4365.7
35°	97.8	109.1	125.8	139.2	167.6	414.3	1944.8	4025.0	4540.0	4641.6
37.5°	85.3	96.2	110.8	120.8	147.6	337.8	1795.9	4256.2	4862.4	4956.4
40°	73.6	83.2	98.2	104.9	139.6	259.6	1634.2	4498.6	5178.4	5264.5
42.5°	62.7	71.9	86.5	99.5	122.5	194.0	1459.4	4726.1	5462.7	5553.0
45°	52.3	61.9	76.5	105.3	101.6	145.1	1272.5	4877.0	5687.2	5785.4
47.5°	42.2	53.1	73.2	100.3	81.1	106.6	1124.6	5020.0	5857.3	5954.3
50°	33.9	44.7	82.4	89.5	66.5	81.5	1062.7	5147.9	5968.9	6062.2
52.5°	27.6	37.6	77.8	68.6	55.6	67.3	1096.1	5355.2	6072.2	6130.7
55°	23.0	29.7	46.8	47.7	47.2	57.3	1137.5	5652.9	6339.3	6366.9
57.5°	20.1	23.8	32.6	36.8	39.7	51.0	1138.4	6080.1	6752.8	6769.9
60°	17.1	20.9	27.2	29.7	34.3	45.6	1097.0	6229.4	6915.4	6972.3
62.5°	15.0	18.4	22.6	24.7	28.8	41.0	1000.0	6013.2	6692.2	6788.7
65°	13.4	16.7	18.8	20.9	25.5	36.8	840.3	5581.0	6321.8	6422.5
67.5°	11.7	14.6	16.7	18.8	23.0	32.6	618.7	5078.9	5896.6	5980.2
70°	10.5	13.0	15.0	16.7	20.1	27.6	375.4	4309.7	5308.8	5343.5
72.5°	10.0	11.7	13.8	15.0	17.6	24.2	190.2	3167.2	4244.1	4300.5
75°	8.8	10.5	12.5	13.4	15.5	20.9	77.3	2080.2	3075.6	3166.3
77.5°	7.1	9.6	11.3	12.1	13.4	17.1	39.3	1329.4	2158.4	2216.9
80°	2.5	7.1	9.6	10.0	11.3	12.5	25.9	727.8	1252.1	1277.1
82.5°	0.0	4.6	7.5	7.1	7.9	9.6	16.7	346.1	826.5	835.7
85°	0.0	2.1	5.9	4.6	3.3	6.7	5.9	75.7	433.5	451.5
87.5°	0.0	0.0	0.4	2.1	1.7	2.5	0.8	0.4	39.3	49.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)