

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: P324474

Luminaire Tested: **GAN-SA0A-740-U-SLR-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P324474
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-SA0A-740-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 4000K, 615mA 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: 34193 lumens
Efficiency: N/A
Efficacy: 105.9 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G4

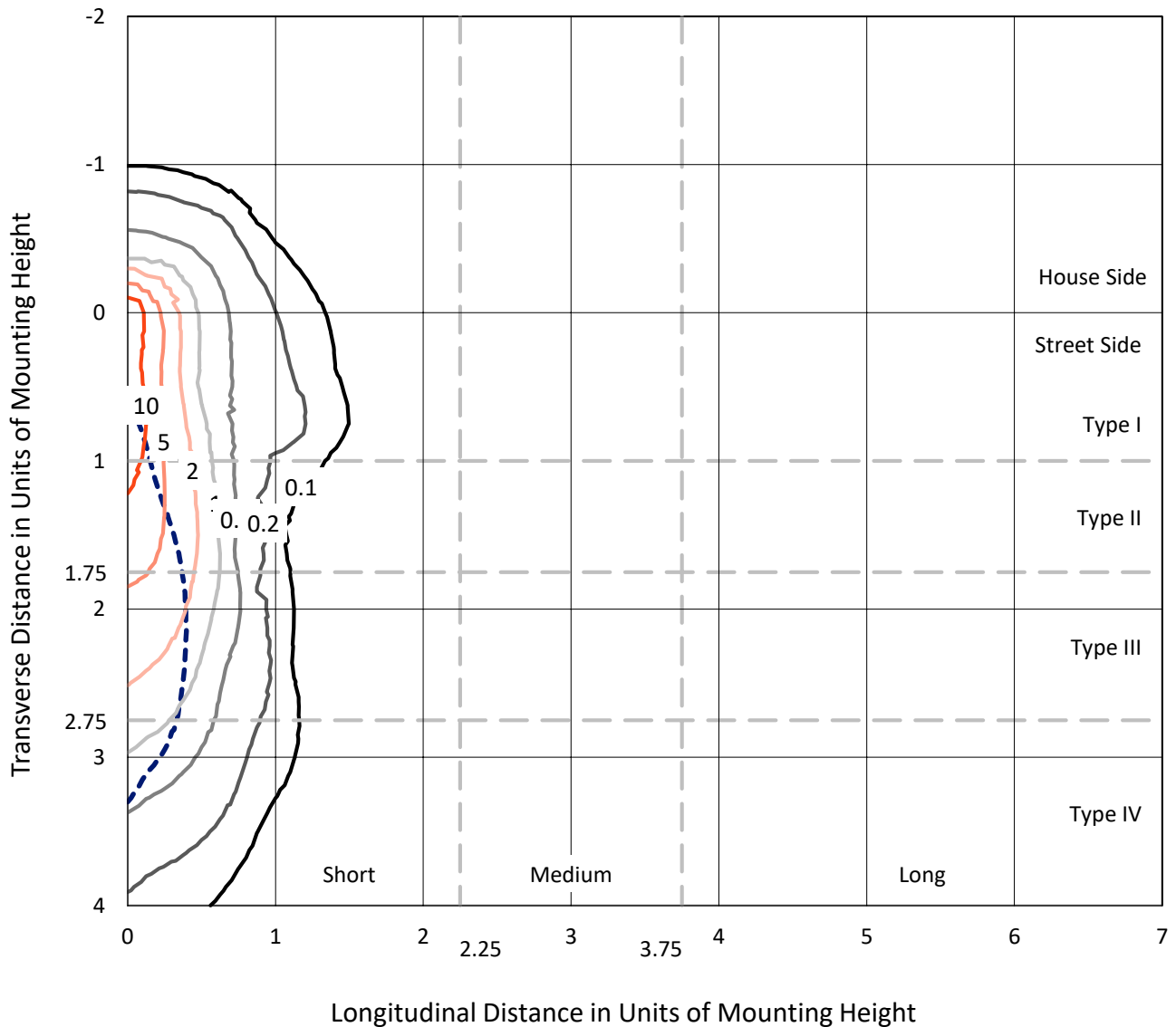
Input Watts (W): 323
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

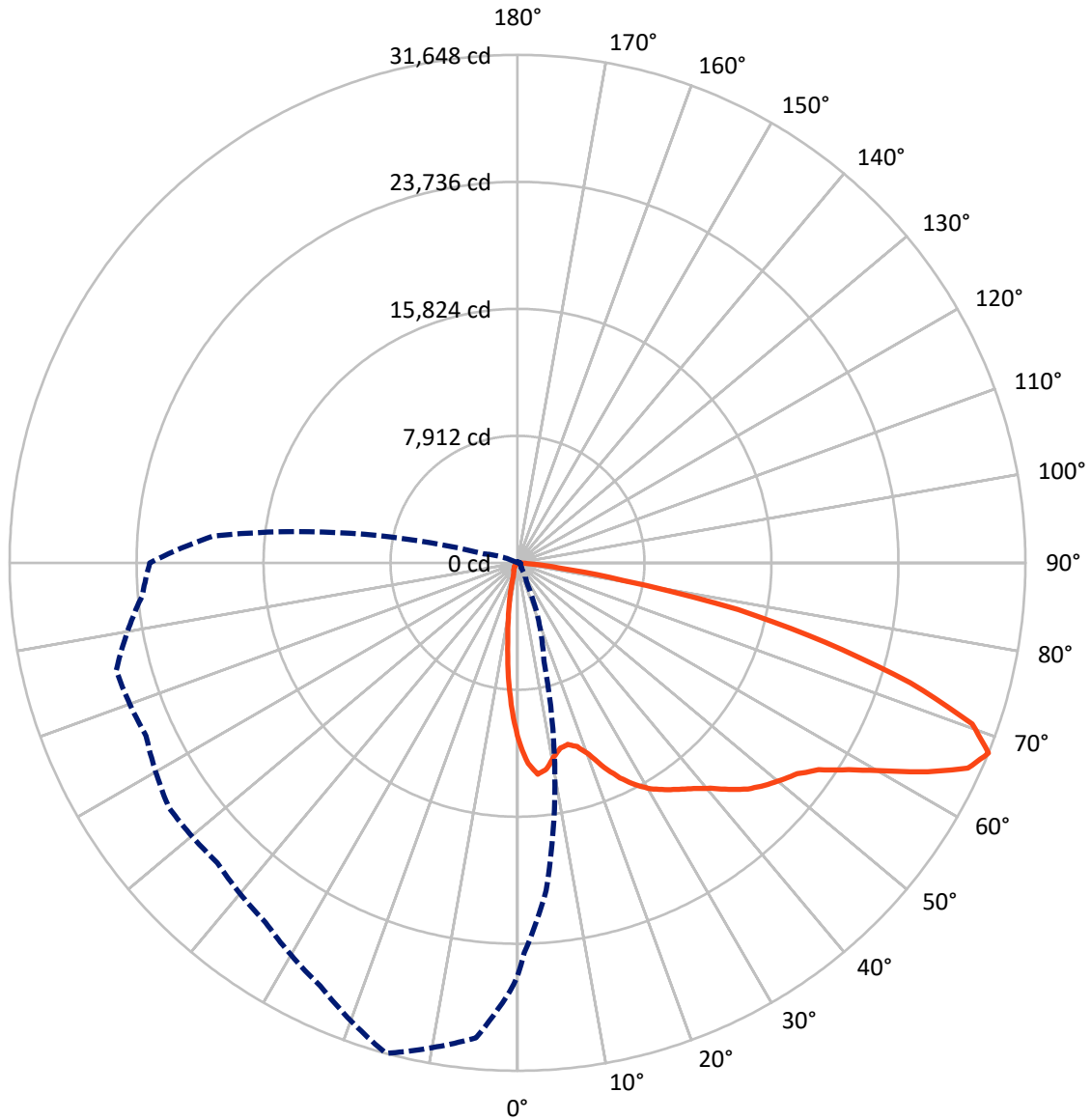
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.8 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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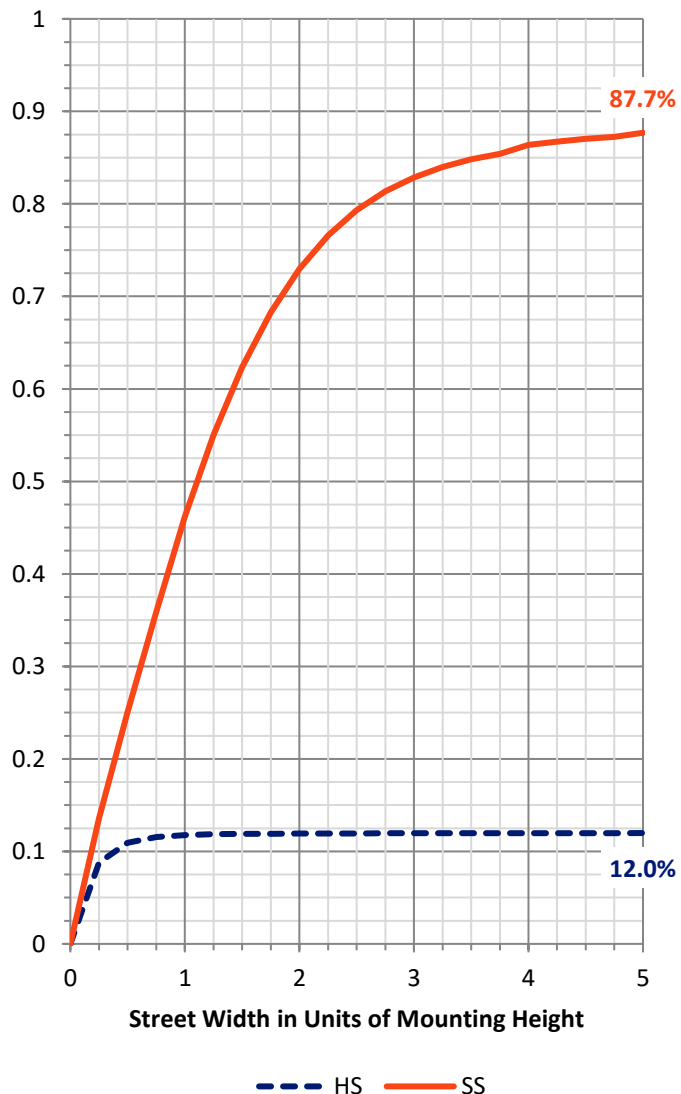
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4138.5	0.0	4138.5
	% Fixture	12.1	0.0	12.1
Street Side	Lumens	30054.5	0.0	30054.5
	% Fixture	87.9	0.0	87.9
Total	Lumens	34193.0	0.0	34193.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	854.9	2.5
10°-20°	1701.6	5.0
20°-30°	2416.2	7.1
30°-40°	3568.9	10.4
40°-50°	5147.1	15.1
50°-60°	7225.5	21.1
60°-70°	8422.9	24.6
70°-80°	4305.9	12.6
80°-90°	549.9	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°	34193.0	100.0
0°-180°	34193.0	100.0

Coefficient of Utilization

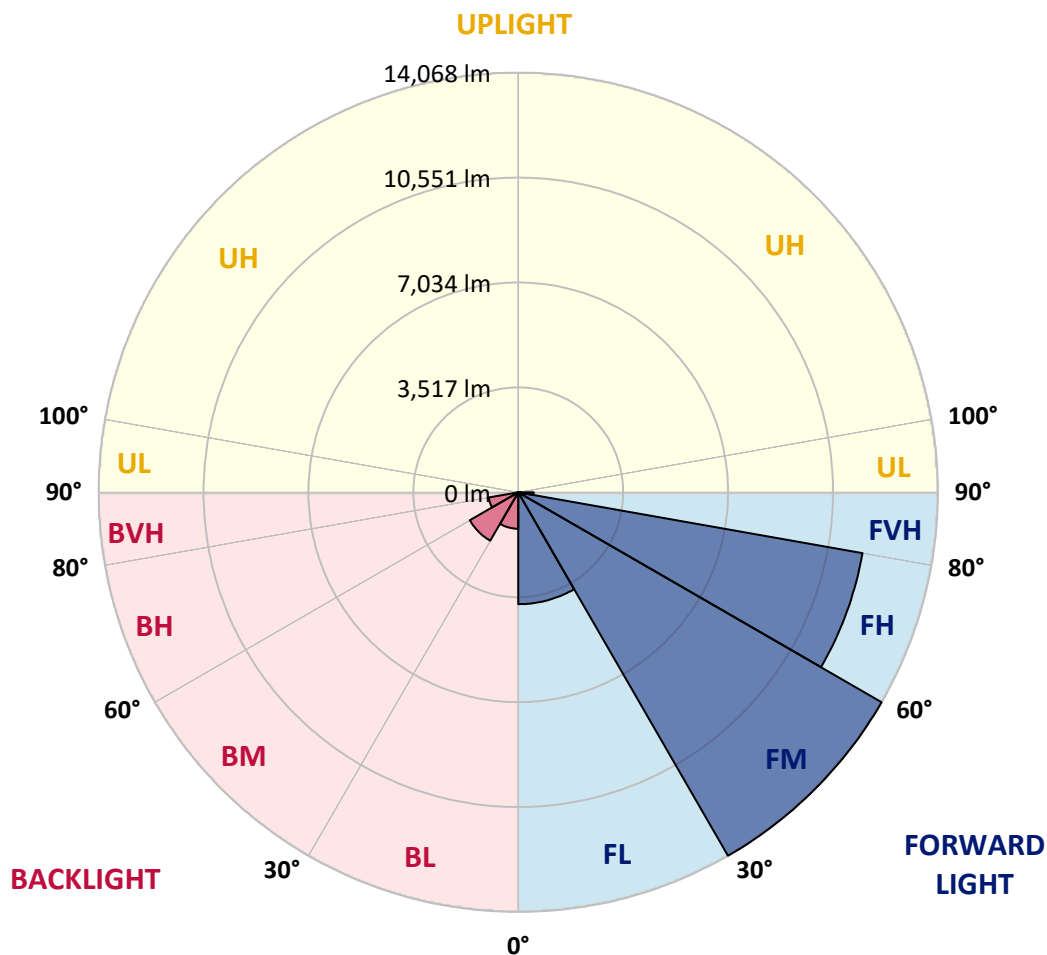


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3750.3	11.0			
FM (30°-60°)	14067.6	41.1			
FH (60°-80°)	11720.2	34.3			G4/12000
FVH (80°-90°)	516.5	1.5			G4/750
BL (0°-30°)	1222.4	3.6	B3/2500		
BM (30°-60°)	1874.0	5.5	B2/2500		
BH (60°-80°)	1008.7	2.9	B3/2500		G3/2500
BVH (80°-90°)	33.4	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-G4
 Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	11138.3	11138.3	11138.3	11138.3	11138.3	11138.3	11138.3	11138.3	11138.3	11138.3	11138.3
2.5°	12196.1	12102.1	11998.5	11659.9	11345.7	10986.0	10692.8	10488.7	10232.8	9900.7	9816.5
5°	12108.6	12008.2	11682.6	10929.3	10270.0	9628.6	9009.8	8646.9	8196.6	7739.8	7626.4
7.5°	11229.0	11123.7	10654.0	9622.1	8734.4	7807.8	7004.4	6507.1	5998.4	5580.5	5358.6
10°	10313.8	10198.8	9670.7	8418.5	7325.1	6487.6	5898.0	5423.4	4942.3	4495.2	4138.8
12.5°	9683.7	9533.0	8959.6	7540.5	6588.1	6019.5	5468.7	4900.1	4248.9	3769.5	3377.5
15°	9419.6	9247.9	8642.1	7202.0	6327.3	5659.9	4942.3	4244.1	3481.1	2932.0	2572.4
17.5°	9623.7	9400.2	8750.6	7179.3	6000.0	5091.3	4184.2	3364.5	2536.7	1981.1	1725.2
20°	10317.0	10023.8	9199.3	7172.8	5603.2	4415.8	3265.7	2339.1	1671.7	1344.5	1210.1
22.5°	11408.8	11021.7	9844.0	7224.7	5193.3	3706.3	2358.5	1589.1	1255.4	1085.3	1005.9
25°	12727.4	12278.7	10772.2	7407.7	4833.7	3016.2	1713.8	1255.4	1059.4	934.7	868.3
27.5°	13981.2	13616.7	11945.0	7671.8	4555.1	2459.0	1391.5	1064.3	905.5	822.9	769.4
30°	15233.4	14774.9	13148.6	7986.0	4219.8	2081.5	1223.0	970.3	811.6	724.1	690.1
32.5°	16143.7	15763.1	14091.4	8212.8	3861.8	1835.3	1093.4	887.7	758.1	669.0	618.8
35°	17214.5	16783.6	14899.7	8263.0	3631.8	1679.8	983.3	798.6	657.7	578.3	524.8
37.5°	18371.1	17834.9	15832.7	8152.9	3452.0	1603.7	900.7	758.1	613.9	532.9	476.2
40°	19650.8	19044.9	16728.5	7994.1	3275.4	1577.8	837.5	727.3	579.9	497.3	439.0
42.5°	20998.5	20284.2	17504.4	7827.3	3163.6	1488.7	831.0	696.5	554.0	464.9	406.6
45°	22130.8	21406.7	18301.4	7772.2	3084.3	1391.5	858.5	675.5	536.2	439.0	382.3
47.5°	23033.1	22347.9	19117.8	7895.3	3038.9	1302.4	782.4	703.0	526.5	416.3	361.2
50°	24110.3	23334.4	20268.0	8263.0	2972.5	1213.3	707.9	805.1	526.5	401.7	343.4
52.5°	25461.3	24693.5	21550.9	8833.2	2839.7	1090.2	636.6	806.7	531.3	382.3	320.7
55°	27160.6	26603.3	23383.0	9458.5	2627.4	908.8	550.8	693.3	511.9	346.7	299.7
57.5°	28790.2	28335.0	25053.1	9886.1	2344.0	709.5	479.5	558.9	468.1	304.5	267.3
59°	29235.6	28738.3	25665.4	9905.6	2131.8	618.8	443.8	461.7	458.4	285.1	247.8
60°	29235.6	28707.5	25842.0	9801.9	1977.9	568.6	421.2	411.4	477.9	272.1	236.5
62.5°	28705.9	27964.0	25268.5	9100.5	1613.4	484.3	367.7	340.2	429.3	244.6	209.0
65°	27604.4	26523.9	23315.0	7832.1	1438.5	443.8	317.5	278.6	298.1	215.4	183.0
67.5°	25767.5	24303.1	20498.0	6327.3	1368.8	432.5	273.8	236.5	225.2	184.7	160.4
70°	22532.6	20907.8	17078.4	4974.7	1308.9	427.6	230.0	199.2	181.4	155.5	136.1
72.5°	16399.7	14705.3	12124.8	3889.3	1273.2	437.4	184.7	166.8	149.0	121.5	105.3
75°	9380.7	8271.1	6814.8	2569.1	1085.3	417.9	142.5	139.3	106.9	87.5	72.9
77.5°	4846.7	4699.3	4083.7	986.5	520.0	183.0	94.0	81.0	63.2	53.5	43.7
80°	2091.3	2068.6	1790.0	285.1	137.7	102.1	53.5	34.0	29.2	22.7	17.8
82.5°	722.5	722.5	636.6	95.6	61.6	50.2	6.5	0.0	0.0	0.0	0.0
85°	145.8	163.6	115.0	0.0	21.1	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°	11138.3	11138.3	11138.3	11138.3	11138.3	11138.3	11138.3	11138.3	11138.3	11138.3	11138.3
2.5°	9714.4	9518.4	9505.5	9382.4	9228.5	9158.8	9118.3	9189.6	9277.1	9286.8	9418.0
5°	7540.5	7334.8	7420.7	7202.0	7245.7	7202.0	7130.7	7143.7	7182.6	7061.1	7211.7
7.5°	5295.4	5139.9	5238.7	5180.4	5258.1	5288.9	5245.2	5180.4	4989.2	4966.6	5097.8
10°	3991.4	3814.8	3709.5	3599.4	3623.7	3673.9	3657.7	3610.7	3489.2	3495.7	3622.1
12.5°	3207.4	3009.7	2800.8	2530.3	2463.8	2501.1	2463.8	2436.3	2319.7	2329.4	2441.2
15°	2433.1	2271.1	2052.4	1835.3	1717.1	1728.4	1624.7	1551.8	1479.0	1391.5	1459.5
17.5°	1642.6	1543.7	1479.0	1414.2	1273.2	1240.8	1109.6	968.7	913.6	873.1	902.3
20°	1163.1	1109.6	1083.7	1080.5	999.5	959.0	831.0	743.5	716.0	707.9	725.7
22.5°	971.9	933.1	895.8	874.7	834.2	787.3	690.1	646.3	626.9	617.2	630.1
25°	845.6	816.4	777.5	741.9	725.7	675.5	605.8	573.4	560.5	550.8	557.2
27.5°	751.6	725.7	680.4	657.7	644.7	601.0	541.0	515.1	503.8	500.5	498.9
30°	677.1	652.8	610.7	584.8	562.1	523.2	487.6	461.7	450.3	447.1	443.8
32.5°	602.6	583.2	555.6	529.7	505.4	469.8	439.0	417.9	400.1	396.9	395.3
35°	508.6	489.2	474.6	473.0	450.3	416.3	393.6	366.1	351.5	346.7	348.3
37.5°	451.9	426.0	393.6	405.0	398.5	374.2	343.4	315.9	301.3	298.1	298.1
40°	416.3	388.8	351.5	332.1	351.5	346.7	298.1	270.5	255.9	254.3	251.1
42.5°	382.3	354.8	312.6	280.2	290.0	304.5	257.6	231.6	217.1	213.8	209.0
45°	358.0	328.8	281.9	244.6	225.2	255.9	220.3	187.9	179.8	173.3	170.1
47.5°	335.3	307.8	254.3	212.2	179.8	184.7	176.6	153.9	144.2	137.7	136.1
50°	315.9	286.7	230.0	181.4	149.0	136.1	142.5	121.5	113.4	106.9	103.7
52.5°	293.2	265.7	204.1	157.1	124.7	106.9	108.5	95.6	87.5	82.6	81.0
55°	275.4	247.8	183.0	137.7	110.2	87.5	77.8	74.5	69.7	66.4	64.8
57.5°	251.1	225.2	162.0	116.6	94.0	71.3	59.9	59.9	58.3	55.1	53.5
59°	236.5	213.8	149.0	105.3	85.9	61.6	53.5	55.1	53.5	50.2	48.6
60°	225.2	204.1	139.3	97.2	81.0	56.7	48.6	51.8	50.2	47.0	45.4
62.5°	199.2	184.7	119.9	81.0	71.3	45.4	40.5	43.7	43.7	42.1	40.5
65°	174.9	158.7	102.1	68.0	66.4	38.9	32.4	38.9	40.5	37.3	34.0
67.5°	152.3	136.1	89.1	55.1	61.6	30.8	24.3	32.4	43.7	34.0	30.8
70°	129.6	113.4	69.7	43.7	64.8	21.1	19.4	29.2	51.8	37.3	29.2
72.5°	100.4	87.5	48.6	32.4	69.7	14.6	14.6	24.3	58.3	40.5	27.5
75°	69.7	56.7	29.2	19.4	56.7	9.7	9.7	22.7	55.1	37.3	25.9
77.5°	40.5	30.8	9.7	1.6	29.2	0.0	1.6	16.2	38.9	22.7	11.3
80°	14.6	6.5	0.0	0.0	17.8	0.0	0.0	0.0	3.2	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°	11138.3	11138.3	11138.3	11138.3	11138.3	11138.3	11138.3	11138.3	11138.3	11138.3	11138.3
2.5°	9452.0	9670.7	9866.7	10163.1	10514.7	10919.6	11267.9	11642.1	11993.6	12139.4	12239.8
5°	7242.5	7513.0	7828.9	8264.6	8844.6	9558.9	10227.9	10984.4	11797.6	12204.2	12586.5
7.5°	5120.4	5395.8	5787.8	6251.1	6952.5	7803.0	8677.7	9722.5	10824.0	11467.1	12100.5
10°	3682.0	4020.5	4386.6	5020.0	5732.8	6539.5	7440.1	8606.4	9834.3	10547.0	11310.0
12.5°	2506.0	2891.5	3445.5	4155.0	4992.5	5783.0	6565.4	7678.2	9103.7	9810.0	10628.0
15°	1503.3	1717.1	2303.5	3124.8	4151.8	5136.6	5993.6	7109.7	8629.1	9494.1	10344.6
17.5°	926.6	1025.4	1344.5	2018.4	3097.2	4342.9	5517.3	6916.9	8697.1	9750.1	10660.4
20°	738.7	777.5	879.6	1192.2	2052.4	3468.2	4981.1	6878.0	9252.8	10548.7	11525.5
22.5°	641.5	678.7	746.8	866.6	1291.0	2596.7	4472.5	6913.7	10049.7	11745.8	12886.2
25°	565.3	597.7	662.5	761.3	946.0	1828.8	3928.2	7072.4	11088.1	13231.2	14442.9
27.5°	505.4	532.9	592.9	683.6	811.6	1276.5	3311.0	7265.2	12319.2	14750.6	15946.1
30°	450.3	474.6	528.1	612.3	704.6	981.6	2633.9	7396.4	13551.9	15946.1	17020.1
32.5°	403.4	421.2	469.8	541.0	612.3	782.4	2002.2	7375.3	14467.2	16940.7	17792.8
35°	354.8	372.6	414.7	476.2	532.9	646.3	1574.5	6981.7	15264.1	17972.6	18677.2
37.5°	301.3	324.0	364.5	419.5	458.4	568.6	1273.2	6507.1	16072.5	19151.9	19663.7
40°	255.9	278.6	314.3	374.2	398.5	539.4	978.4	5928.8	16981.2	20470.4	20745.8
42.5°	212.2	233.3	270.5	322.4	375.8	464.9	724.1	5267.9	17854.3	21597.9	21732.3
45°	171.7	192.8	231.6	283.5	401.7	385.5	560.5	4560.0	18559.0	22535.8	22579.5
47.5°	136.1	155.5	196.0	267.3	374.2	307.8	400.1	4004.3	19150.2	23268.0	23153.0
50°	105.3	121.5	163.6	306.2	327.2	254.3	302.9	3819.7	19679.9	23721.5	23423.5
52.5°	82.6	97.2	134.5	286.7	254.3	210.6	254.3	3993.0	20405.6	24097.4	23575.8
55°	66.4	81.0	105.3	163.6	173.3	178.2	217.1	4155.0	21657.8	24978.6	24474.8
57.5°	55.1	69.7	85.9	115.0	131.2	150.6	192.8	4172.8	23133.5	26442.9	25966.7
59°	50.2	63.2	77.8	102.1	115.0	137.7	181.4	4075.6	23653.5	26975.9	26737.8
60°	47.0	59.9	72.9	94.0	106.9	129.6	174.9	3983.3	23676.2	26956.5	27066.6
62.5°	40.5	53.5	64.8	79.4	90.7	110.2	157.1	3641.5	22717.2	26073.6	26869.0
65°	35.6	47.0	58.3	68.0	77.8	98.8	142.5	3017.8	21079.5	24649.7	25516.4
67.5°	32.4	40.5	53.5	59.9	69.7	87.5	126.4	2151.2	19033.6	22908.4	23470.5
70°	29.2	38.9	48.6	55.1	63.2	76.1	108.5	1236.0	16072.5	20358.7	20758.8
72.5°	27.5	37.3	43.7	51.8	56.7	68.0	98.8	581.5	11768.4	16309.0	17353.8
75°	24.3	34.0	40.5	48.6	53.5	61.6	84.2	278.6	7827.3	11802.5	12989.8
77.5°	14.6	27.5	37.3	43.7	47.0	53.5	69.7	160.4	4995.7	8169.1	9622.1
80°	0.0	9.7	27.5	37.3	40.5	45.4	53.5	126.4	2672.8	4666.9	5601.6
82.5°	0.0	0.0	19.4	29.2	27.5	30.8	40.5	79.4	1205.2	3050.2	3437.4
85°	0.0	0.0	6.5	22.7	19.4	14.6	27.5	27.5	264.0	1543.7	1926.0
87.5°	0.0	0.0	0.0	1.6	9.7	6.5	11.3	3.2	1.6	115.0	466.5
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°	11138.3	11138.3	11138.3	11138.3	11138.3	11138.3	11138.3	11138.3	11138.3	11138.3
2.5°	12591.3	12711.2	12913.7	13009.3	12962.3	12763.0	12524.9	12281.9	12139.4	12196.1
5°	13365.6	13982.8	14339.2	14457.4	14259.8	13812.7	13228.0	12456.9	12183.1	12108.6
7.5°	13365.6	14527.1	15262.5	15392.1	14951.5	14075.2	12978.5	11774.9	11374.8	11229.0
10°	12895.9	14476.9	15502.3	15708.0	15092.4	13782.0	12312.7	10939.1	10464.4	10313.8
12.5°	12366.2	14068.7	15149.1	15432.6	14927.2	13490.4	11851.1	10373.7	9814.9	9683.7
15°	12040.6	13566.5	14460.7	14666.4	14452.6	13320.3	11740.9	10203.6	9546.0	9419.6
17.5°	12157.2	13177.7	13500.1	13620.0	13764.1	13260.4	12040.6	10576.2	9743.6	9623.7
20°	12596.2	12767.9	12601.1	12751.7	13140.5	13318.7	12754.9	11476.9	10477.4	10317.0
22.5°	13341.3	12555.7	12087.6	12147.5	12620.5	13511.4	13846.7	12763.0	11609.7	11408.8
25°	14209.6	12727.4	11802.5	11749.0	12235.0	13765.8	14844.6	14162.6	12949.3	12727.4
27.5°	15301.4	13112.9	11744.1	11690.7	12100.5	14003.9	15674.0	15546.0	14360.3	13981.2
30°	16143.7	13492.0	11917.5	11794.4	12235.0	14169.1	16339.7	16720.4	15484.4	15233.4
32.5°	16748.0	13939.1	12199.3	12021.1	12614.0	14454.2	16853.2	17796.0	16524.4	16143.7
35°	17208.0	14425.0	12654.5	12361.3	13135.6	14886.7	17334.4	18941.3	17630.8	17214.5
37.5°	17638.9	15107.0	13365.6	13015.7	13953.7	15583.3	17843.0	20240.4	18868.4	18371.1
40°	18239.9	15879.7	14462.3	14151.3	15328.9	16532.5	18478.0	21594.6	20276.1	19650.8
42.5°	18840.8	16709.1	15584.9	15669.1	17044.4	17685.9	19297.7	23026.6	21665.9	20998.5
45°	19390.0	17564.4	17183.7	17572.5	18636.7	18951.0	20112.5	23854.4	22775.5	22130.8
47.5°	19879.2	18633.5	18772.8	19807.9	20447.8	20096.3	20721.5	24568.7	23601.7	23033.1
50°	20447.8	20016.9	20867.3	22331.7	22532.6	21133.0	21275.5	25414.3	24567.1	24110.3
52.5°	21069.8	21474.8	23187.0	24478.0	24413.2	22258.8	21832.8	26362.0	25890.6	25461.3
55°	21776.1	22652.4	25229.7	26486.7	26431.6	23515.8	22756.1	27533.1	27549.3	27160.6
57.5°	22824.1	23666.5	26616.3	28111.4	28203.8	24967.2	24320.9	28845.2	29049.3	28790.2
59°	23575.8	24324.1	27165.4	28790.2	29166.0	26089.8	25464.5	29606.6	29472.1	29235.6
60°	24133.0	24742.1	27437.6	29144.9	29724.8	26851.2	26308.5	30053.7	29522.3	29235.6
62.5°	25511.5	25652.4	27928.4	29546.6	30367.9	28542.3	28683.2	30815.0	29174.1	28705.9
65°	26154.6	26227.5	27921.9	28827.4	29745.9	29859.3	30837.7	30837.7	28323.6	27604.4
67.5°	25885.7	25534.2	26536.9	26442.9	27359.8	29076.9	31647.6	29707.0	26697.3	25767.5
70°	23698.9	22346.3	21900.8	21941.3	22642.7	25291.2	30043.9	26379.8	23619.5	22532.6
72.5°	19718.8	16474.2	15374.3	16629.7	16812.8	19437.0	25603.8	19866.2	17418.6	16399.7
75°	15860.3	11612.9	9824.6	11149.6	11460.7	14224.2	19806.3	12372.7	10174.5	9380.7
77.5°	11394.2	8335.9	7049.7	6957.4	7359.1	9021.1	14054.1	6226.8	5193.3	4846.7
80°	6473.0	5486.5	5907.7	5574.0	5776.5	5640.4	6677.2	2731.1	2237.1	2091.3
82.5°	3907.2	3243.0	3511.9	2923.9	3699.8	3221.9	2572.4	874.7	759.7	722.5
85°	2541.6	1772.2	923.3	618.8	1274.8	2058.9	575.1	238.1	183.0	145.8
87.5°	876.4	451.9	45.4	19.4	136.1	383.9	21.1	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)