

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: P324433

Luminaire Tested: **GAN-SA9A-730-U-SLR-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P324433
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-SA9A-730-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3000K, 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: 28125 lumens
Efficiency: N/A
Efficacy: 97.0 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G4

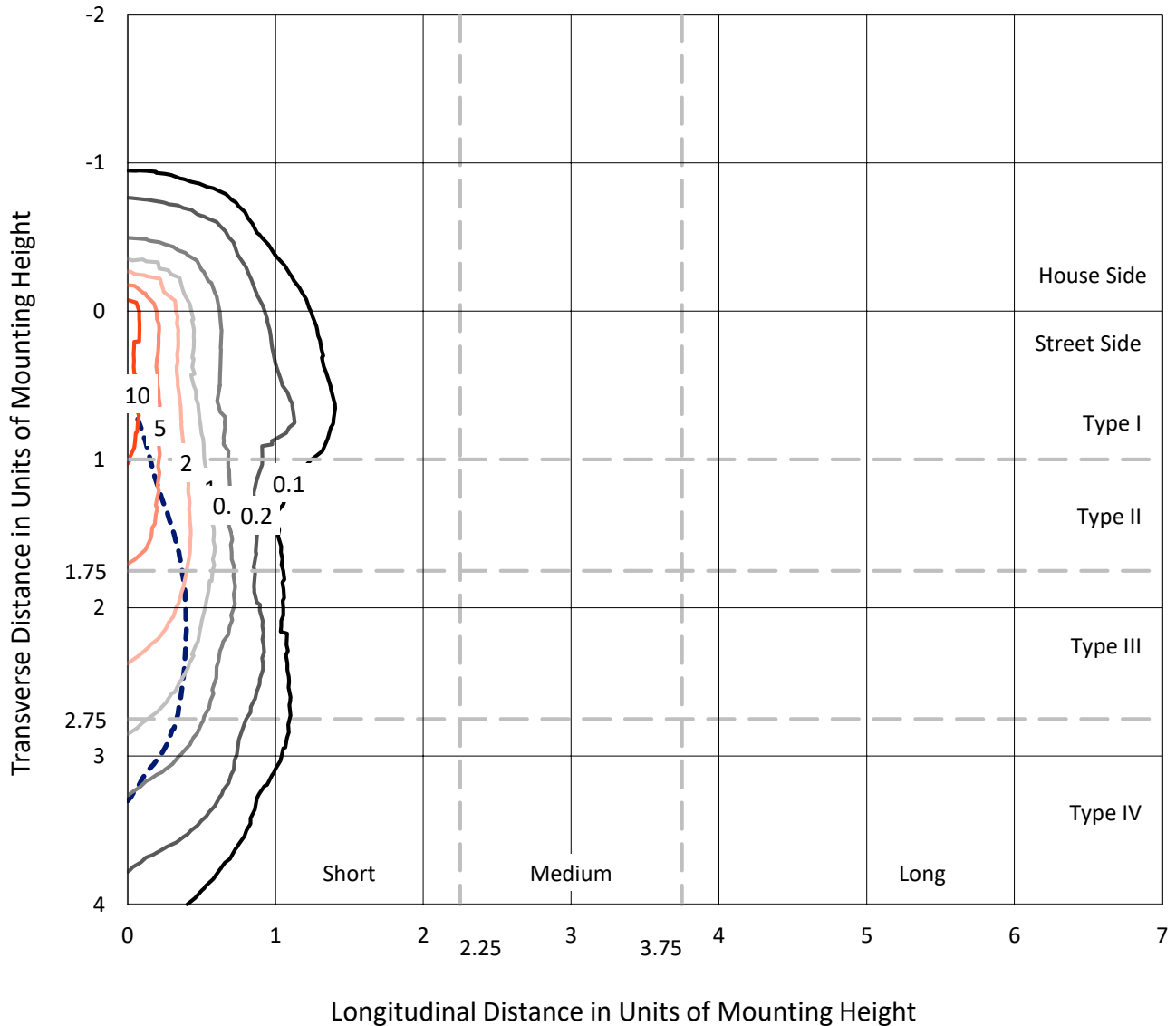
Input Watts (W): 290
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

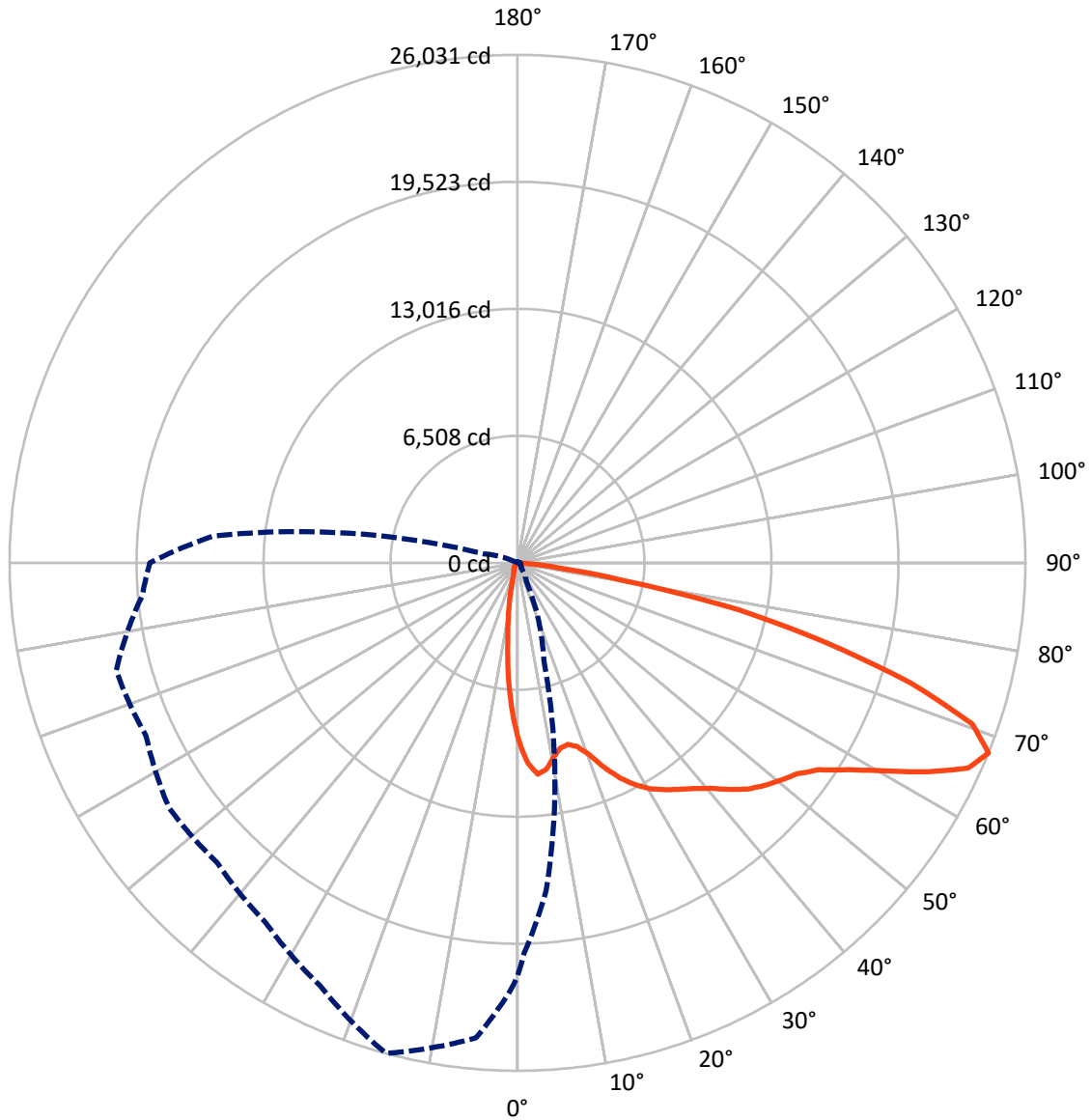
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.7 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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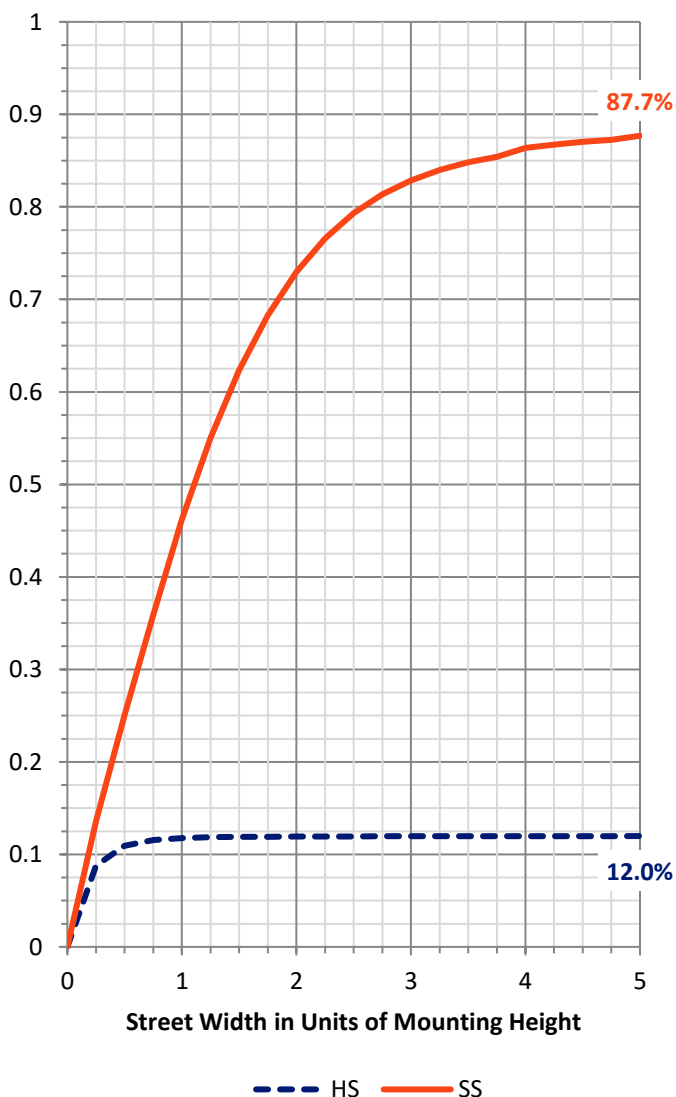
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3404.1	0.0	3404.1
	% Fixture	12.1	0.0	12.1
Street Side	Lumens	24721.0	0.0	24721.0
	% Fixture	87.9	0.0	87.9
Total	Lumens	28125.0	0.0	28125.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	703.2	2.5
10°-20°	1399.6	5.0
20°-30°	1987.4	7.1
30°-40°	2935.6	10.4
40°-50°	4233.7	15.1
50°-60°	5943.3	21.1
60°-70°	6928.1	24.6
70°-80°	3541.8	12.6
80°-90°	452.3	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°	28125.0	100.0
0°-180°	28125.0	100.0

Coefficient of Utilization

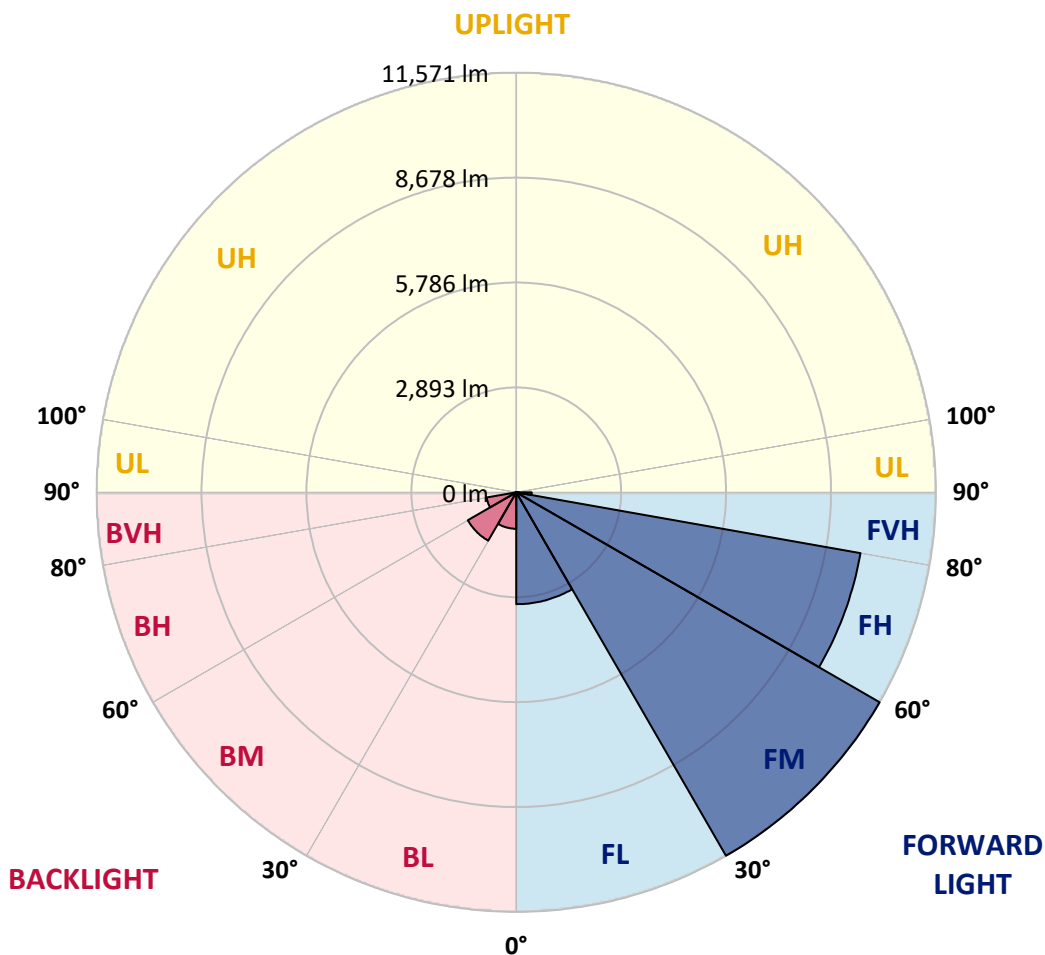


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3084.8	11.0			
FM (30°-60°)	11571.1	41.1			
FH (60°-80°)	9640.3	34.3			G4/12000
FVH (80°-90°)	424.8	1.5			G3/500
BL (0°-30°)	1005.4	3.6	B3/2500		
BM (30°-60°)	1541.5	5.5	B2/2500		
BH (60°-80°)	829.7	2.9	B2/1000		G2/1000
BVH (80°-90°)	27.5	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°	9161.7	9161.7	9161.7	9161.7	9161.7	9161.7	9161.7	9161.7	9161.7	9161.7	9161.7
2.5°	10031.7	9954.5	9869.2	9590.7	9332.2	9036.4	8795.3	8627.4	8416.8	8143.7	8074.4
5°	9959.8	9877.2	9609.4	8989.8	8447.5	7919.9	7410.9	7112.4	6742.0	6366.3	6273.0
7.5°	9236.3	9149.7	8763.3	7914.5	7184.4	6422.2	5761.4	5352.3	4933.9	4590.2	4407.6
10°	8483.5	8388.9	7954.5	6924.5	6025.2	5336.3	4851.3	4460.9	4065.2	3697.4	3404.3
12.5°	7965.2	7841.2	7369.6	6202.4	5418.9	4951.2	4498.2	4030.5	3494.9	3100.5	2778.1
15°	7748.0	7606.7	7108.4	5923.9	5204.4	4655.4	4065.2	3490.9	2863.4	2411.7	2115.9
17.5°	7915.9	7732.0	7197.7	5905.3	4935.3	4187.8	3441.6	2767.4	2086.6	1629.5	1419.0
20°	8486.1	8245.0	7566.8	5899.9	4608.8	3632.2	2686.1	1924.0	1375.0	1105.9	995.3
22.5°	9384.2	9065.7	8097.1	5942.6	4271.7	3048.6	1940.0	1307.1	1032.6	892.7	827.4
25°	10468.8	10099.7	8860.5	6093.1	3975.9	2481.0	1409.7	1032.6	871.4	768.8	714.2
27.5°	11500.1	11200.3	9825.2	6310.3	3746.7	2022.6	1144.5	875.4	744.8	676.9	632.9
30°	12530.0	12152.9	10815.2	6568.8	3470.9	1712.1	1006.0	798.1	667.5	595.6	567.6
32.5°	13278.8	12965.7	11590.7	6755.3	3176.5	1509.6	899.4	730.2	623.6	550.3	509.0
35°	14159.5	13805.1	12255.5	6796.6	2987.3	1381.7	808.8	656.9	541.0	475.7	431.7
37.5°	15110.9	14669.9	13023.0	6706.0	2839.4	1319.1	740.8	623.6	505.0	438.4	391.7
40°	16163.5	15665.2	13759.8	6575.5	2694.1	1297.8	688.9	598.3	477.0	409.1	361.1
42.5°	17272.1	16684.5	14398.0	6438.2	2602.2	1224.5	683.5	572.9	455.7	382.4	334.4
45°	18203.4	17607.8	15053.6	6392.9	2536.9	1144.5	706.2	555.6	441.0	361.1	314.4
47.5°	18945.6	18382.0	15725.1	6494.2	2499.6	1071.3	643.6	578.3	433.0	342.4	297.1
50°	19831.6	19193.4	16671.1	6796.6	2445.0	998.0	582.3	662.2	433.0	330.4	282.5
52.5°	20942.9	20311.3	17726.4	7265.6	2335.7	896.7	523.6	663.5	437.0	314.4	263.8
55°	22340.6	21882.2	19233.4	7780.0	2161.2	747.5	453.0	570.3	421.0	285.1	246.5
57.5°	23681.0	23306.6	20607.1	8131.7	1928.0	583.6	394.4	459.7	385.1	250.5	219.8
59°	24047.4	23638.3	21110.7	8147.7	1753.5	509.0	365.1	379.7	377.1	234.5	203.9
60°	24047.4	23613.0	21256.0	8062.4	1626.9	467.7	346.4	338.4	393.1	223.8	194.5
62.5°	23611.7	23001.4	20784.3	7485.5	1327.1	398.4	302.5	279.8	353.1	201.2	171.9
65°	22705.6	21816.9	19177.4	6442.2	1183.2	365.1	261.2	229.2	245.2	177.2	150.6
67.5°	21194.7	19990.2	16860.3	5204.4	1125.9	355.8	225.2	194.5	185.2	151.9	131.9
70°	18533.9	17197.4	14047.6	4091.8	1076.6	351.8	189.2	163.9	149.2	127.9	111.9
72.5°	13489.3	12095.6	9973.1	3199.1	1047.3	359.8	151.9	137.2	122.6	99.9	86.6
75°	7716.0	6803.3	5605.5	2113.2	892.7	343.8	117.3	114.6	87.9	72.0	60.0
77.5°	3986.6	3865.3	3359.0	811.4	427.7	150.6	77.3	66.6	52.0	44.0	36.0
80°	1720.1	1701.5	1472.3	234.5	113.3	83.9	44.0	28.0	24.0	18.7	14.7
82.5°	594.3	594.3	523.6	78.6	50.6	41.3	5.3	0.0	0.0	0.0	0.0
85°	119.9	134.6	94.6	0.0	17.3	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°	9161.7	9161.7	9161.7	9161.7	9161.7	9161.7	9161.7	9161.7	9161.7	9161.7	9161.7
2.5°	7990.5	7829.3	7818.6	7717.3	7590.8	7533.5	7500.1	7558.8	7630.7	7638.7	7746.6
5°	6202.4	6033.2	6103.8	5923.9	5959.9	5923.9	5865.3	5875.9	5907.9	5808.0	5931.9
7.5°	4355.7	4227.7	4309.0	4261.1	4325.0	4350.3	4314.4	4261.1	4103.8	4085.2	4193.1
10°	3283.1	3137.8	3051.2	2960.6	2980.6	3021.9	3008.6	2969.9	2870.0	2875.3	2979.3
12.5°	2638.2	2475.6	2303.7	2081.2	2026.6	2057.2	2026.6	2003.9	1908.0	1916.0	2007.9
15°	2001.3	1868.0	1688.2	1509.6	1412.4	1421.7	1336.4	1276.5	1216.5	1144.5	1200.5
17.5°	1351.1	1269.8	1216.5	1163.2	1047.3	1020.6	912.7	796.8	751.5	718.2	742.2
20°	956.7	912.7	891.4	888.7	822.1	788.8	683.5	611.6	588.9	582.3	596.9
22.5°	799.4	767.5	736.8	719.5	686.2	647.6	567.6	531.6	515.6	507.6	518.3
25°	695.5	671.5	639.6	610.2	596.9	555.6	498.3	471.7	461.0	453.0	458.3
27.5°	618.2	596.9	559.6	541.0	530.3	494.3	445.0	423.7	414.4	411.7	410.4
30°	556.9	537.0	502.3	481.0	462.3	430.4	401.1	379.7	370.4	367.7	365.1
32.5°	495.7	479.7	457.0	435.7	415.7	386.4	361.1	343.8	329.1	326.4	325.1
35°	418.4	402.4	390.4	389.1	370.4	342.4	323.8	301.1	289.1	285.1	286.5
37.5°	371.7	350.4	323.8	333.1	327.8	307.8	282.5	259.8	247.8	245.2	245.2
40°	342.4	319.8	289.1	273.1	289.1	285.1	245.2	222.5	210.5	209.2	206.5
42.5°	314.4	291.8	257.2	230.5	238.5	250.5	211.9	190.5	178.5	175.9	171.9
45°	294.5	270.5	231.8	201.2	185.2	210.5	181.2	154.6	147.9	142.6	139.9
47.5°	275.8	253.2	209.2	174.5	147.9	151.9	145.2	126.6	118.6	113.3	111.9
50°	259.8	235.8	189.2	149.2	122.6	111.9	117.3	99.9	93.3	87.9	85.3
52.5°	241.2	218.5	167.9	129.2	102.6	87.9	89.3	78.6	72.0	68.0	66.6
55°	226.5	203.9	150.6	113.3	90.6	72.0	64.0	61.3	57.3	54.6	53.3
57.5°	206.5	185.2	133.2	95.9	77.3	58.6	49.3	49.3	48.0	45.3	44.0
59°	194.5	175.9	122.6	86.6	70.6	50.6	44.0	45.3	44.0	41.3	40.0
60°	185.2	167.9	114.6	79.9	66.6	46.6	40.0	42.6	41.3	38.6	37.3
62.5°	163.9	151.9	98.6	66.6	58.6	37.3	33.3	36.0	36.0	34.6	33.3
65°	143.9	130.6	83.9	56.0	54.6	32.0	26.6	32.0	33.3	30.6	28.0
67.5°	125.2	111.9	73.3	45.3	50.6	25.3	20.0	26.6	36.0	28.0	25.3
70°	106.6	93.3	57.3	36.0	53.3	17.3	16.0	24.0	42.6	30.6	24.0
72.5°	82.6	72.0	40.0	26.6	57.3	12.0	12.0	20.0	48.0	33.3	22.7
75°	57.3	46.6	24.0	16.0	46.6	8.0	8.0	18.7	45.3	30.6	21.3
77.5°	33.3	25.3	8.0	1.3	24.0	0.0	1.3	13.3	32.0	18.7	9.3
80°	12.0	5.3	0.0	0.0	14.7	0.0	0.0	0.0	2.7	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°	9161.7	9161.7	9161.7	9161.7	9161.7	9161.7	9161.7	9161.7	9161.7	9161.7	9161.7
2.5°	7774.6	7954.5	8115.7	8359.6	8648.7	8981.8	9268.3	9576.0	9865.2	9985.1	10067.7
5°	5957.2	6179.7	6439.5	6798.0	7275.0	7862.6	8412.9	9035.1	9704.0	10038.4	10352.8
7.5°	4211.8	4438.3	4760.7	5141.8	5718.7	6418.2	7137.7	7997.1	8903.2	9432.1	9953.1
10°	3028.6	3307.0	3608.2	4129.1	4715.4	5378.9	6119.8	7079.1	8089.1	8675.3	9302.9
12.5°	2061.2	2378.4	2834.0	3417.6	4106.5	4756.7	5400.3	6315.6	7488.2	8069.1	8742.0
15°	1236.5	1412.4	1894.7	2570.2	3415.0	4225.1	4929.9	5848.0	7097.8	7809.3	8508.8
17.5°	762.1	843.4	1105.9	1660.2	2547.6	3572.2	4538.2	5689.4	7153.7	8019.8	8768.6
20°	607.6	639.6	723.5	980.7	1688.2	2852.7	4097.2	5657.4	7610.7	8676.7	9480.1
22.5°	527.6	558.3	614.2	712.8	1061.9	2135.9	3678.8	5686.7	8266.3	9661.3	10599.3
25°	465.0	491.7	545.0	626.2	778.1	1504.3	3231.1	5817.3	9120.4	10883.1	11879.8
27.5°	415.7	438.4	487.7	562.3	667.5	1049.9	2723.5	5975.9	10133.0	12132.9	13116.3
30°	370.4	390.4	434.4	503.7	579.6	807.4	2166.5	6083.8	11147.0	13116.3	13999.7
32.5°	331.8	346.4	386.4	445.0	503.7	643.6	1646.9	6066.5	11899.8	13934.4	14635.2
35°	291.8	306.5	341.1	391.7	438.4	531.6	1295.1	5742.7	12555.3	14783.1	15362.7
37.5°	247.8	266.5	299.8	345.1	377.1	467.7	1047.3	5352.3	13220.2	15753.1	16174.2
40°	210.5	229.2	258.5	307.8	327.8	443.7	804.8	4876.6	13967.7	16837.7	17064.2
42.5°	174.5	191.9	222.5	265.2	309.1	382.4	595.6	4333.0	14685.8	17765.1	17875.6
45°	141.2	158.6	190.5	233.2	330.4	317.1	461.0	3750.7	15265.4	18536.5	18572.5
47.5°	111.9	127.9	161.2	219.8	307.8	253.2	329.1	3293.7	15751.8	19138.8	19044.2
50°	86.6	99.9	134.6	251.8	269.1	209.2	249.2	3141.8	16187.5	19511.8	19266.7
52.5°	68.0	79.9	110.6	235.8	209.2	173.2	209.2	3284.4	16784.4	19821.0	19391.9
55°	54.6	66.6	86.6	134.6	142.6	146.6	178.5	3417.6	17814.4	20545.8	20131.4
57.5°	45.3	57.3	70.6	94.6	107.9	123.9	158.6	3432.3	19028.2	21750.3	21358.6
59°	41.3	52.0	64.0	83.9	94.6	113.3	149.2	3352.3	19455.9	22188.7	21992.8
60°	38.6	49.3	60.0	77.3	87.9	106.6	143.9	3276.4	19474.5	22172.7	22263.3
62.5°	33.3	44.0	53.3	65.3	74.6	90.6	129.2	2995.3	18685.7	21446.5	22100.7
65°	29.3	38.6	48.0	56.0	64.0	81.3	117.3	2482.3	17338.7	20275.3	20988.2
67.5°	26.6	33.3	44.0	49.3	57.3	72.0	103.9	1769.4	15655.8	18843.0	19305.3
70°	24.0	32.0	40.0	45.3	52.0	62.6	89.3	1016.6	13220.2	16745.8	17074.9
72.5°	22.7	30.6	36.0	42.6	46.6	56.0	81.3	478.3	9680.0	13414.7	14274.1
75°	20.0	28.0	33.3	40.0	44.0	50.6	69.3	229.2	6438.2	9708.0	10684.6
77.5°	12.0	22.7	30.6	36.0	38.6	44.0	57.3	131.9	4109.2	6719.4	7914.5
80°	0.0	8.0	22.7	30.6	33.3	37.3	44.0	103.9	2198.5	3838.7	4607.5
82.5°	0.0	0.0	16.0	24.0	22.7	25.3	33.3	65.3	991.3	2508.9	2827.4
85°	0.0	0.0	5.3	18.7	16.0	12.0	22.7	22.7	217.2	1269.8	1584.2
87.5°	0.0	0.0	0.0	1.3	8.0	5.3	9.3	2.7	1.3	94.6	383.7
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°	9161.7	9161.7	9161.7	9161.7	9161.7	9161.7	9161.7	9161.7	9161.7	9161.7
2.5°	10356.8	10455.4	10622.0	10700.6	10662.0	10498.1	10302.2	10102.3	9985.1	10031.7
5°	10993.7	11501.4	11794.5	11891.8	11729.2	11361.5	10880.5	10246.3	10021.1	9959.8
7.5°	10993.7	11949.1	12554.0	12660.6	12298.2	11577.3	10675.3	9685.3	9356.2	9236.3
10°	10607.3	11907.8	12751.2	12920.4	12414.1	11336.2	10127.7	8997.8	8607.4	8483.5
12.5°	10171.6	11572.0	12460.7	12693.9	12278.2	11096.3	9747.9	8532.8	8073.1	7965.2
15°	9903.8	11159.0	11894.4	12063.7	11887.8	10956.4	9657.3	8392.9	7851.9	7748.0
17.5°	9999.8	10839.2	11104.3	11202.9	11321.5	10907.1	9903.8	8699.3	8014.5	7915.9
20°	10360.8	10502.1	10364.8	10488.7	10808.5	10955.1	10491.4	9440.1	8618.0	8486.1
22.5°	10973.7	10327.5	9942.5	9991.8	10380.8	11113.7	11389.5	10498.1	9549.4	9384.2
25°	11687.9	10468.8	9708.0	9664.0	10063.7	11322.8	12210.2	11649.3	10651.3	10468.8
27.5°	12586.0	10785.9	9660.0	9616.0	9953.1	11518.7	12892.4	12787.2	11811.8	11500.1
30°	13278.8	11097.7	9802.6	9701.3	10063.7	11654.6	13440.0	13753.2	12736.5	12530.0
32.5°	13775.8	11465.4	10034.4	9887.8	10375.5	11889.1	13862.4	14637.9	13591.9	13278.8
35°	14154.2	11865.1	10408.8	10167.6	10804.5	12244.9	14258.1	15579.9	14502.0	14159.5
37.5°	14508.6	12426.1	10993.7	10705.9	11477.4	12817.8	14676.5	16648.5	15519.9	15110.9
40°	15003.0	13061.6	11895.8	11640.0	12608.6	13598.6	15198.8	17762.4	16677.8	16163.5
42.5°	15497.3	13743.8	12819.1	12888.4	14019.6	14547.3	15873.0	18940.2	17821.0	17272.1
45°	15949.0	14447.3	14134.2	14454.0	15329.4	15587.9	16543.2	19621.1	18733.7	18203.4
47.5°	16351.4	15326.7	15441.3	16292.7	16819.0	16529.9	17044.2	20208.7	19413.2	18945.6
50°	16819.0	16464.6	17164.1	18368.6	18533.9	17382.7	17499.9	20904.2	20207.4	19831.6
52.5°	17330.7	17663.8	19072.1	20134.1	20080.8	18308.7	17958.3	21683.7	21295.9	20942.9
55°	17911.6	18632.5	20752.3	21786.3	21741.0	19342.6	18717.7	22647.0	22660.3	22340.6
57.5°	18773.7	19466.5	21892.9	23122.7	23198.6	20536.5	20004.8	23726.3	23894.1	23681.0
59°	19391.9	20007.5	22344.6	23681.0	23990.1	21459.8	20945.5	24352.5	24241.9	24047.4
60°	19850.3	20351.3	22568.4	23972.8	24449.8	22086.1	21639.7	24720.2	24283.2	24047.4
62.5°	20984.2	21100.1	22972.1	24303.2	24978.7	23477.1	23593.0	25346.5	23996.7	23611.7
65°	21513.1	21573.1	22966.8	23711.6	24467.1	24560.4	25365.1	25365.1	23297.2	22705.6
67.5°	21291.9	21002.8	21827.6	21750.3	22504.4	23916.8	26031.3	24435.1	21959.5	21194.7
70°	19493.2	18380.6	18014.2	18047.5	18624.5	20803.0	24712.2	21698.3	19427.9	18533.9
72.5°	16219.5	13550.6	12645.9	13678.5	13829.1	15987.6	21060.1	16340.7	14327.4	13489.3
75°	13045.6	9552.1	8081.1	9171.0	9426.8	11699.9	16291.4	10177.0	8368.9	7716.0
77.5°	9372.2	6856.6	5798.7	5722.7	6053.1	7420.2	11560.0	5121.8	4271.7	3986.6
80°	5324.3	4512.9	4859.3	4584.8	4751.4	4639.5	5492.2	2246.4	1840.1	1720.1
82.5°	3213.8	2667.5	2888.7	2405.0	3043.2	2650.2	2115.9	719.5	624.9	594.3
85°	2090.6	1457.7	759.5	509.0	1048.6	1693.5	473.0	195.9	150.6	119.9
87.5°	720.8	371.7	37.3	16.0	111.9	315.8	17.3	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)