

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: P324492

Luminaire Tested: **GAN-SA8C-740-U-SLR-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P324492
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-SA8C-740-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 4000K, 1050mA 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: 42021 lumens
Efficiency: N/A
Efficacy: 94.4 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G5

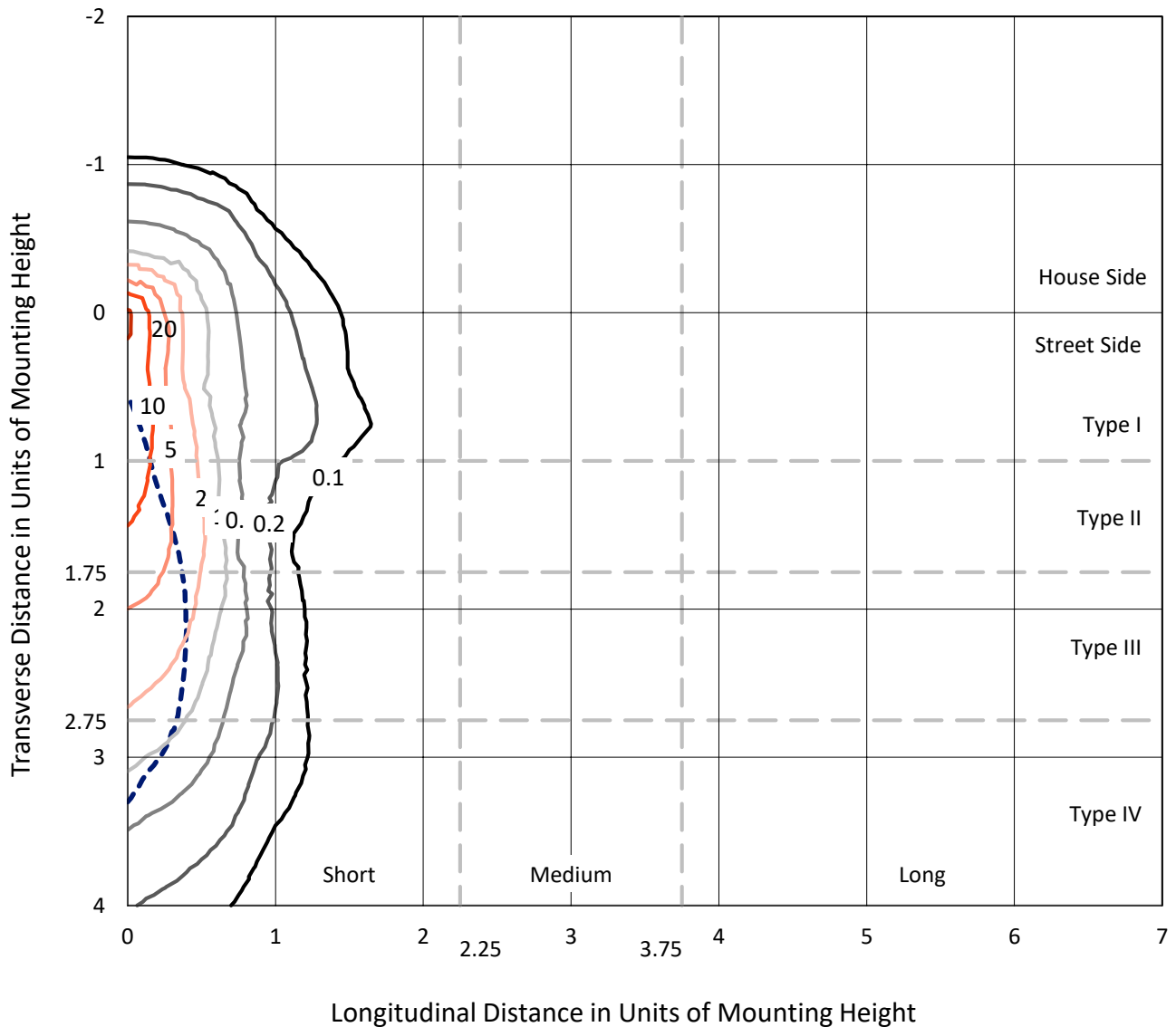
Input Watts (W): 445
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

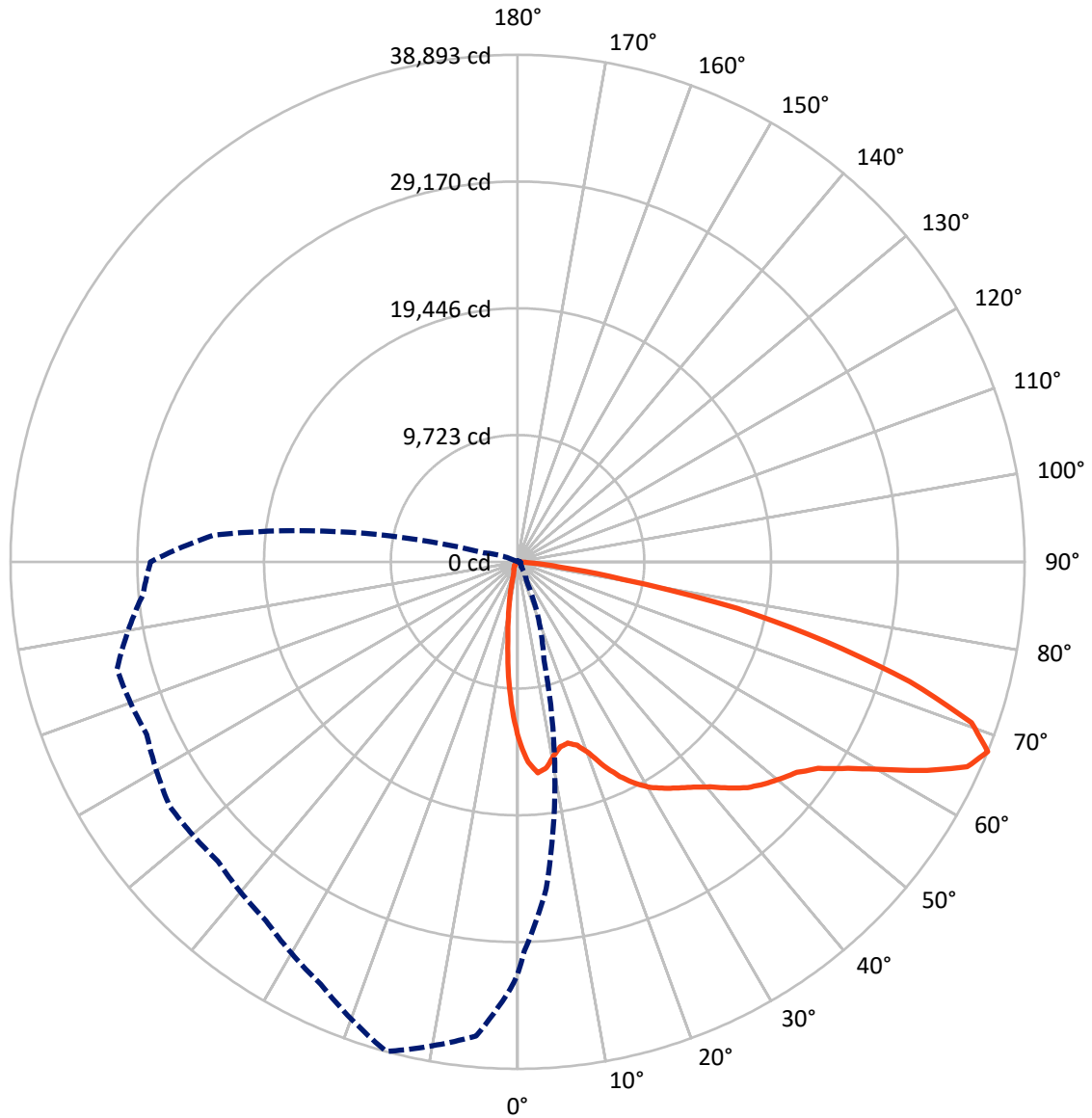
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 21.9 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	5085.9	0.0	5085.9
	% Fixture	12.1	0.0	12.1
Street Side	Lumens	36935.1	0.0	36935.1
	% Fixture	87.9	0.0	87.9
Total	Lumens	42021.0	0.0	42021.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1050.6	2.5
10°-20°	2091.1	5.0
20°-30°	2969.4	7.1
30°-40°	4386.0	10.4
40°-50°	6325.5	15.1
50°-60°	8879.7	21.1
60°-70°	10351.2	24.6
70°-80°	5291.7	12.6
80°-90°	675.8	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°	42021.0	100.0
0°-180°	42021.0	100.0

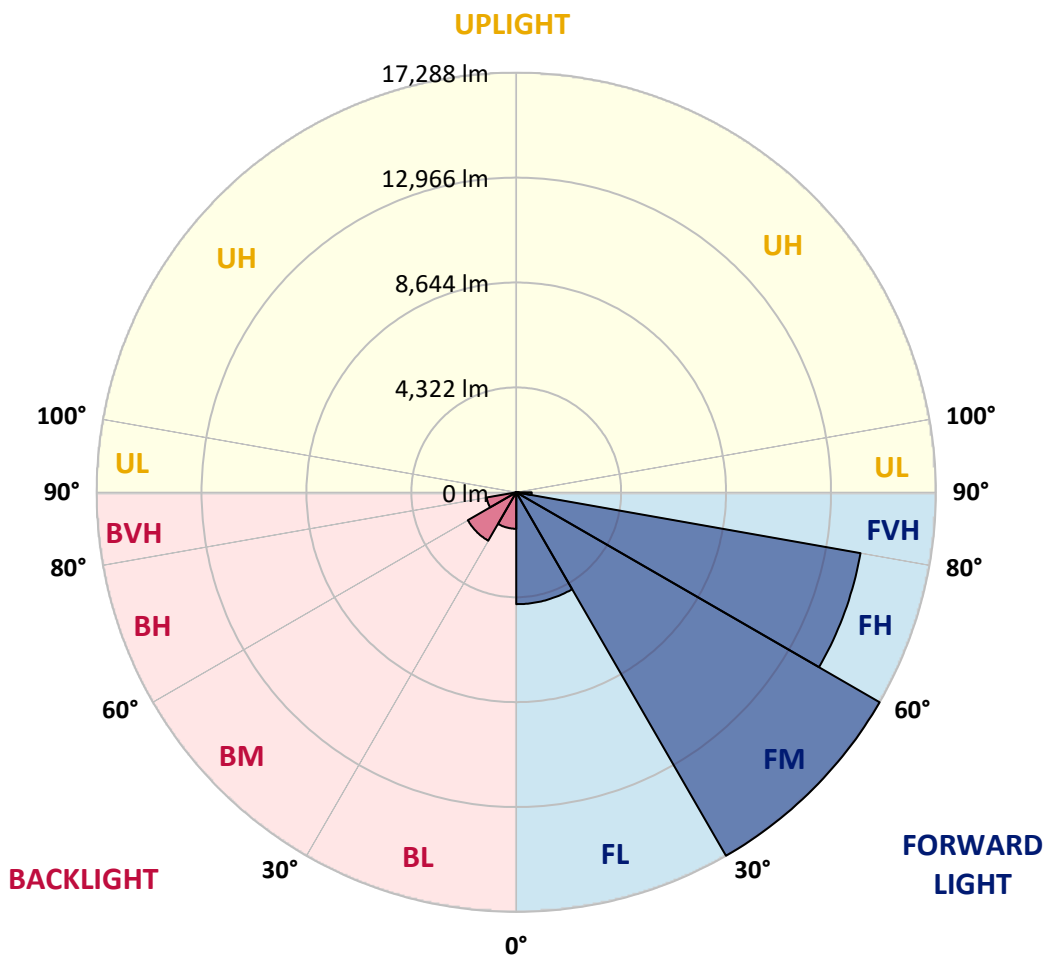


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4608.9	11.0			
FM (30°-60°)	17288.1	41.1			
FH (60°-80°)	14403.3	34.3			G5
FVH (80°-90°)	634.8	1.5			G4/750
BL (0°-30°)	1502.2	3.6	B3/2500		
BM (30°-60°)	2303.1	5.5	B2/2500		
BH (60°-80°)	1239.6	2.9	B3/2500		G3/2500
BVH (80°-90°)	41.1	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°	13688.3	13688.3	13688.3	13688.3	13688.3	13688.3	13688.3	13688.3	13688.3	13688.3	13688.3
2.5°	14988.2	14872.7	14745.3	14329.3	13943.1	13501.1	13140.8	12890.0	12575.4	12167.3	12063.8
5°	14880.7	14757.3	14357.1	13431.5	12621.2	11832.9	11072.4	10626.5	10073.1	9511.7	9372.4
7.5°	13799.7	13670.3	13093.0	11824.9	10734.0	9595.3	8607.9	7996.8	7371.7	6858.1	6585.3
10°	12675.0	12533.6	11884.7	10345.8	9002.1	7972.9	7248.2	6665.0	6073.7	5524.3	5086.3
12.5°	11900.6	11715.4	11010.7	9266.9	8096.3	7397.6	6720.7	6022.0	5221.7	4632.4	4150.7
15°	11576.1	11365.1	10620.5	8850.8	7775.8	6955.6	6073.7	5215.7	4278.1	3603.2	3161.3
17.5°	11826.9	11552.2	10753.9	8822.9	7373.7	6256.9	5142.1	4134.7	3117.5	2434.7	2120.1
20°	12679.0	12318.6	11305.4	8815.0	6885.9	5426.7	4013.3	2874.6	2054.4	1652.3	1487.1
22.5°	14020.7	13544.9	12097.7	8878.7	6382.3	4554.8	2898.5	1952.9	1542.8	1333.8	1236.2
25°	15641.2	15089.7	13238.4	9103.6	5940.3	3706.7	2106.2	1542.8	1301.9	1148.7	1067.0
27.5°	17182.0	16734.1	14679.6	9428.1	5597.9	3021.9	1710.0	1307.9	1112.8	1011.3	945.6
30°	18720.8	18157.5	16158.8	9814.3	5185.9	2558.1	1503.0	1192.4	997.4	889.9	848.1
32.5°	19839.6	19371.8	17317.4	10093.0	4745.9	2255.5	1343.7	1090.9	931.7	822.2	760.5
35°	21155.5	20626.0	18310.7	10154.7	4463.2	2064.4	1208.4	981.4	808.2	710.7	645.0
37.5°	22576.9	21917.9	19457.4	10019.3	4242.2	1970.8	1106.8	931.7	754.5	655.0	585.3
40°	24149.6	23405.0	20558.3	9824.3	4025.3	1939.0	1029.2	893.8	712.7	611.2	539.5
42.5°	25805.8	24927.9	21511.8	9619.2	3887.9	1829.5	1021.2	856.0	680.8	571.3	499.7
45°	27197.4	26307.5	22491.3	9551.5	3790.4	1710.0	1055.1	830.1	658.9	539.5	469.8
47.5°	28306.2	27464.1	23494.6	9702.8	3734.6	1600.5	961.5	864.0	647.0	511.6	443.9
50°	29630.0	28676.5	24908.0	10154.7	3653.0	1491.1	869.9	989.4	647.0	493.7	422.0
52.5°	31290.3	30346.7	26484.7	10855.5	3489.8	1339.8	782.4	991.4	653.0	469.8	394.2
55°	33378.6	32693.8	28736.2	11623.9	3229.0	1116.8	676.8	852.0	629.1	426.0	368.3
57.5°	35381.3	34821.9	30788.6	12149.4	2880.6	871.9	589.3	686.8	575.3	374.3	328.5
59°	35928.7	35317.5	31541.1	12173.3	2619.8	760.5	545.5	567.4	563.4	350.4	304.6
60°	35928.7	35279.7	31758.1	12045.9	2430.7	698.7	517.6	505.6	587.3	334.4	290.6
62.5°	35277.7	34366.0	31053.4	11183.9	1982.8	595.2	451.9	418.1	527.5	300.6	256.8
65°	33924.0	32596.2	28652.6	9625.2	1767.8	545.5	390.2	342.4	366.3	264.8	225.0
67.5°	31666.5	29866.9	25190.7	7775.8	1682.2	531.5	336.4	290.6	276.7	226.9	197.1
70°	27691.1	25694.4	20988.3	6113.5	1608.5	525.6	282.7	244.9	223.0	191.1	167.2
72.5°	20154.2	18071.9	14900.6	4779.7	1564.7	537.5	226.9	205.0	183.1	149.3	129.4
75°	11528.3	10164.7	8375.0	3157.3	1333.8	513.6	175.2	171.2	131.4	107.5	89.6
77.5°	5956.3	5775.1	5018.6	1212.4	639.0	225.0	115.5	99.5	77.6	65.7	53.7
80°	2570.0	2542.2	2199.8	350.4	169.2	125.4	65.7	41.8	35.8	27.9	21.9
82.5°	887.9	887.9	782.4	117.5	75.6	61.7	8.0	0.0	0.0	0.0	0.0
85°	179.2	201.1	141.3	0.0	25.9	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°	13688.3	13688.3	13688.3	13688.3	13688.3	13688.3	13688.3	13688.3	13688.3	13688.3	13688.3
2.5°	11938.4	11697.5	11681.6	11530.3	11341.2	11255.6	11205.8	11293.4	11400.9	11412.9	11574.1
5°	9266.9	9014.0	9119.5	8850.8	8904.5	8850.8	8763.2	8779.1	8826.9	8677.6	8862.7
7.5°	6507.7	6316.6	6438.0	6366.4	6461.9	6499.7	6446.0	6366.4	6131.4	6103.6	6264.8
10°	4905.2	4688.2	4558.8	4423.4	4453.3	4515.0	4495.1	4437.3	4288.0	4296.0	4451.3
12.5°	3941.6	3698.8	3442.0	3109.5	3027.9	3073.7	3027.9	2994.1	2850.7	2862.7	3000.0
15°	2990.1	2791.0	2522.3	2255.5	2110.2	2124.1	1996.7	1907.1	1817.5	1710.0	1793.6
17.5°	2018.6	1897.2	1817.5	1737.9	1564.7	1524.9	1363.7	1190.5	1122.8	1073.0	1108.8
20°	1429.3	1363.7	1331.8	1327.8	1228.3	1178.5	1021.2	913.7	879.9	869.9	891.8
22.5°	1194.4	1146.7	1100.9	1075.0	1025.2	967.5	848.1	794.3	770.4	758.5	774.4
25°	1039.2	1003.3	955.6	911.8	891.8	830.1	744.5	704.7	688.8	676.8	684.8
27.5°	923.7	891.8	836.1	808.2	792.3	738.6	664.9	633.1	619.1	615.1	613.1
30°	832.1	802.3	750.5	718.7	690.8	643.0	599.2	567.4	553.4	549.4	545.5
32.5°	740.6	716.7	682.8	651.0	621.1	577.3	539.5	513.6	491.7	487.7	485.7
35°	625.1	601.2	583.3	581.3	553.4	511.6	483.7	449.9	432.0	426.0	428.0
37.5°	555.4	523.6	483.7	497.7	489.7	459.9	422.0	388.2	370.3	366.3	366.3
40°	511.6	477.8	432.0	408.1	432.0	426.0	366.3	332.5	314.5	312.5	308.6
42.5°	469.8	436.0	384.2	344.4	356.3	374.3	316.5	284.7	266.8	262.8	256.8
45°	440.0	404.1	346.4	300.6	276.7	314.5	270.7	230.9	221.0	213.0	209.0
47.5°	412.1	378.2	312.5	260.8	221.0	226.9	217.0	189.1	177.2	169.2	167.2
50°	388.2	352.4	282.7	223.0	183.1	167.2	175.2	149.3	139.4	131.4	127.4
52.5°	360.3	326.5	250.8	193.1	153.3	131.4	133.4	117.5	107.5	101.5	99.5
55°	338.4	304.6	225.0	169.2	135.4	107.5	95.6	91.6	85.6	81.6	79.6
57.5°	308.6	276.7	199.1	143.3	115.5	87.6	73.7	73.7	71.7	67.7	65.7
59°	290.6	262.8	183.1	129.4	105.5	75.6	65.7	67.7	65.7	61.7	59.7
60°	276.7	250.8	171.2	119.4	99.5	69.7	59.7	63.7	61.7	57.7	55.7
62.5°	244.9	226.9	147.3	99.5	87.6	55.7	49.8	53.7	53.7	51.8	49.8
65°	215.0	195.1	125.4	83.6	81.6	47.8	39.8	47.8	49.8	45.8	41.8
67.5°	187.1	167.2	109.5	67.7	75.6	37.8	29.9	39.8	53.7	41.8	37.8
70°	159.3	139.4	85.6	53.7	79.6	25.9	23.9	35.8	63.7	45.8	35.8
72.5°	123.4	107.5	59.7	39.8	85.6	17.9	17.9	29.9	71.7	49.8	33.8
75°	85.6	69.7	35.8	23.9	69.7	11.9	11.9	27.9	67.7	45.8	31.9
77.5°	49.8	37.8	11.9	2.0	35.8	0.0	2.0	19.9	47.8	27.9	13.9
80°	17.9	8.0	0.0	0.0	21.9	0.0	0.0	0.0	4.0	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):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	13688.3	13688.3	13688.3	13688.3	13688.3	13688.3	13688.3	13688.3	13688.3	13688.3	13688.3
2.5°	11615.9	11884.7	12125.5	12489.8	12921.8	13419.5	13847.5	14307.4	14739.4	14918.5	15042.0
5°	8900.6	9233.0	9621.2	10156.7	10869.4	11747.3	12569.5	13499.1	14498.5	14998.2	15468.0
7.5°	6292.7	6631.1	7112.9	7682.2	8544.2	9589.3	10664.3	11948.4	13302.1	14092.4	14870.8
10°	4524.9	4941.0	5390.9	6169.3	7045.2	8036.6	9143.4	10576.8	12085.7	12961.6	13899.3
12.5°	3079.7	3553.5	4234.3	5106.2	6135.4	7106.9	8068.4	9436.1	11187.9	12055.9	13061.2
15°	1847.4	2110.2	2830.8	3840.1	5102.2	6312.6	7365.7	8737.3	10604.6	11667.7	12712.8
17.5°	1138.7	1260.1	1652.3	2480.5	3806.3	5337.1	6780.4	8500.4	10688.2	11982.2	13101.0
20°	907.8	955.6	1081.0	1465.2	2522.3	4262.2	6121.5	8452.6	11371.1	12963.6	14164.0
22.5°	788.3	834.1	917.7	1065.0	1586.6	3191.1	5496.4	8496.4	12350.5	14434.8	15836.3
25°	694.8	734.6	814.2	935.6	1162.6	2247.5	4827.5	8691.5	13626.6	16260.3	17749.4
27.5°	621.1	655.0	728.6	840.1	997.4	1568.7	4069.1	8928.4	15139.5	18127.6	19596.8
30°	553.4	583.3	649.0	752.5	866.0	1206.4	3236.9	9089.7	16654.5	19596.8	20916.6
32.5°	495.7	517.6	577.3	664.9	752.5	961.5	2460.5	9063.8	17779.2	20819.1	21866.2
35°	436.0	457.9	509.6	585.3	655.0	794.3	1935.0	8580.0	18758.7	22087.2	22953.1
37.5°	370.3	398.1	447.9	515.6	563.4	698.7	1564.7	7996.8	19752.0	23536.4	24165.5
40°	314.5	342.4	386.2	459.9	489.7	662.9	1202.4	7286.1	20868.8	25156.9	25495.3
42.5°	260.8	286.7	332.5	396.2	461.8	571.3	889.9	6473.9	21941.8	26542.4	26707.6
45°	211.0	236.9	284.7	348.4	493.7	473.8	688.8	5603.9	22807.8	27695.0	27748.8
47.5°	167.2	191.1	240.9	328.5	459.9	378.2	491.7	4921.1	23534.4	28594.9	28453.5
50°	129.4	149.3	201.1	376.2	402.1	312.5	372.3	4694.1	24185.4	29152.3	28786.0
52.5°	101.5	119.4	165.2	352.4	312.5	258.8	312.5	4907.2	25077.2	29614.1	28973.1
55°	81.6	99.5	129.4	201.1	213.0	219.0	266.8	5106.2	26616.1	30697.1	30077.9
57.5°	67.7	85.6	105.5	141.3	161.2	185.1	236.9	5128.1	28429.6	32496.7	31911.4
59°	61.7	77.6	95.6	125.4	141.3	169.2	223.0	5008.7	29068.6	33151.6	32859.0
60°	57.7	73.7	89.6	115.5	131.4	159.3	215.0	4895.2	29096.5	33127.7	33263.1
62.5°	49.8	65.7	79.6	97.5	111.5	135.4	193.1	4475.2	27918.0	32042.8	33020.2
65°	43.8	57.7	71.7	83.6	95.6	121.4	175.2	3708.7	25905.4	30292.9	31358.0
67.5°	39.8	49.8	65.7	73.7	85.6	107.5	155.3	2643.7	23391.1	28152.9	28843.7
70°	35.8	47.8	59.7	67.7	77.6	93.6	133.4	1518.9	19752.0	25019.5	25511.2
72.5°	33.8	45.8	53.7	63.7	69.7	83.6	121.4	714.7	14462.7	20042.7	21326.7
75°	29.9	41.8	49.8	59.7	65.7	75.6	103.5	342.4	9619.2	14504.5	15963.7
77.5°	17.9	33.8	45.8	53.7	57.7	65.7	85.6	197.1	6139.4	10039.3	11824.9
80°	0.0	11.9	33.8	45.8	49.8	55.7	65.7	155.3	3284.7	5735.3	6883.9
82.5°	0.0	0.0	23.9	35.8	33.8	37.8	49.8	97.5	1481.1	3748.5	4224.3
85°	0.0	0.0	8.0	27.9	23.9	17.9	33.8	33.8	324.5	1897.2	2367.0
87.5°	0.0	0.0	0.0	2.0	11.9	8.0	13.9	4.0	2.0	141.3	573.3
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°	13688.3	13688.3	13688.3	13688.3	13688.3	13688.3	13688.3	13688.3	13688.3	13688.3
2.5°	15473.9	15621.3	15870.1	15987.6	15929.8	15685.0	15392.3	15093.7	14918.5	14988.2
5°	16425.5	17184.0	17621.9	17767.3	17524.4	16975.0	16256.3	15308.7	14972.3	14880.7
7.5°	16425.5	17852.9	18756.7	18915.9	18374.4	17297.5	15949.7	14470.6	13978.9	13799.7
10°	15848.2	17791.2	19051.3	19304.1	18547.6	16937.1	15131.5	13443.4	12860.1	12675.0
12.5°	15197.2	17289.5	18617.3	18965.7	18344.6	16578.8	14564.2	12748.6	12061.8	11900.6
15°	14797.1	16672.4	17771.3	18024.1	17761.3	16369.8	14428.8	12539.6	11731.4	11576.1
17.5°	14940.4	16194.6	16590.7	16738.1	16915.2	16296.1	14797.1	12997.5	11974.2	11826.9
20°	15479.9	15690.9	15485.9	15671.0	16148.8	16367.8	15675.0	14104.3	12876.0	12679.0
22.5°	16395.7	15430.2	14854.8	14928.5	15509.8	16604.7	17016.8	15685.0	14267.6	14020.7
25°	17462.7	15641.2	14504.5	14438.8	15036.0	16917.2	18243.1	17405.0	15913.9	15641.2
27.5°	18804.4	16115.0	14432.8	14367.1	14870.8	17209.9	19262.3	19105.0	17647.8	17182.0
30°	19839.6	16580.8	14645.8	14494.5	15036.0	17412.9	20080.5	20548.3	19029.4	18720.8
32.5°	20582.2	17130.2	14992.2	14773.2	15501.8	17763.3	20711.6	21870.2	20307.4	19839.6
35°	21147.5	17727.5	15551.6	15191.3	16142.8	18294.8	21302.8	23277.6	21667.1	21155.5
37.5°	21677.1	18565.6	16425.5	15995.5	17148.2	19150.8	21927.9	24874.2	23188.0	22576.9
40°	22415.6	19515.1	17773.2	17391.0	18838.3	20317.4	22708.3	26538.4	24918.0	24149.6
42.5°	23154.2	20534.4	19152.8	19256.3	20946.5	21734.8	23715.6	28298.2	26626.0	25805.8
45°	23829.0	21585.5	21117.7	21595.4	22903.4	23289.6	24716.9	29315.5	27989.7	27197.4
47.5°	24430.2	22899.4	23070.6	24342.7	25129.0	24697.0	25465.4	30193.4	29004.9	28306.2
50°	25129.0	24599.5	25644.6	27444.2	27691.1	25971.1	26146.3	31232.6	30191.4	29630.0
52.5°	25893.4	26391.1	28495.3	30081.9	30002.3	27354.6	26831.1	32397.1	31817.8	31290.3
55°	26761.4	27838.4	31005.6	32550.4	32482.7	28899.4	27965.8	33836.4	33856.4	33378.6
57.5°	28049.4	29084.6	32709.7	34547.1	34660.6	30683.1	29888.8	35448.9	35699.8	35381.3
59°	28973.1	29892.8	33384.6	35381.3	35843.1	32062.7	31294.3	36384.6	36219.4	35928.7
60°	29657.9	30406.4	33719.0	35817.2	36529.9	32998.3	32331.5	36934.0	36281.1	35928.7
62.5°	31352.0	31525.2	34322.2	36310.9	37320.2	35076.7	35249.9	37869.7	35853.1	35277.7
65°	32142.3	32231.9	34314.2	35427.0	36555.8	36695.1	37897.5	37897.5	34807.9	33924.0
67.5°	31811.9	31379.9	32612.1	32496.7	33623.4	35733.6	38892.9	36508.0	32809.2	31666.5
70°	29124.4	27462.1	26914.7	26964.4	27826.4	31081.3	36922.1	32419.0	29026.8	27691.1
72.5°	24233.2	20245.7	18894.0	20436.8	20661.8	23886.8	31465.5	24414.3	21406.3	20154.2
75°	19491.2	14271.5	12073.8	13702.2	14084.4	17480.6	24340.7	15205.2	12503.8	11528.3
77.5°	14002.8	10244.3	8663.7	8550.2	9043.9	11086.4	17271.6	7652.4	6382.3	5956.3
80°	7955.0	6742.6	7260.2	6850.1	7098.9	6931.7	8205.8	3356.4	2749.2	2570.0
82.5°	4801.6	3985.4	4315.9	3593.3	4546.8	3959.6	3161.3	1075.0	933.7	887.9
85°	3123.5	2177.9	1134.7	760.5	1566.7	2530.2	706.7	292.6	225.0	179.2
87.5°	1077.0	555.4	55.7	23.9	167.2	471.8	25.9	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)