

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: P324493

Luminaire Tested: **GAN-SA9C-740-U-SLR-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P324493
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-SA9C-740-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 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: 46873 lumens
Efficiency: N/A
Efficacy: 93.6 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G5

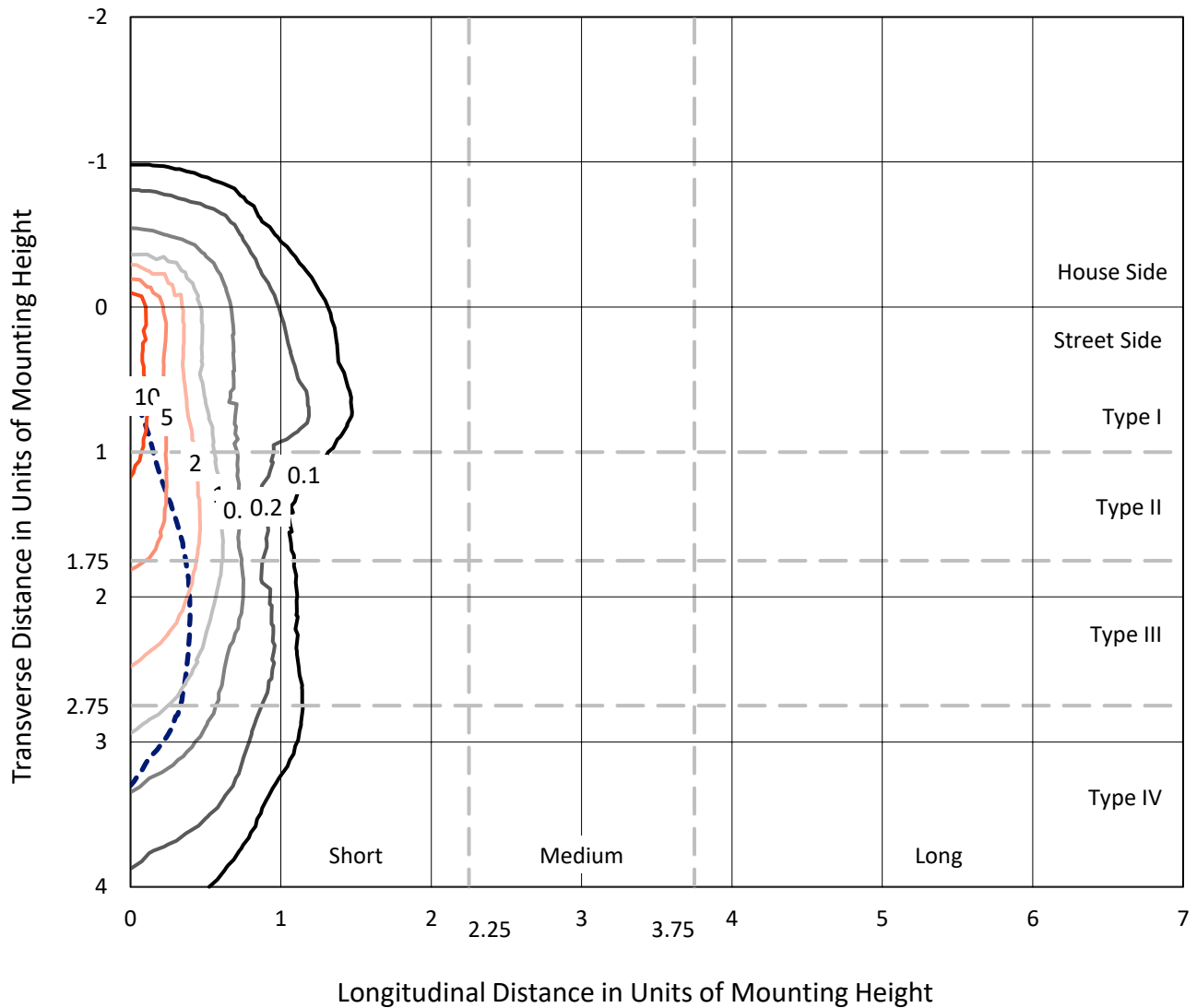
Input Watts (W): 501
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

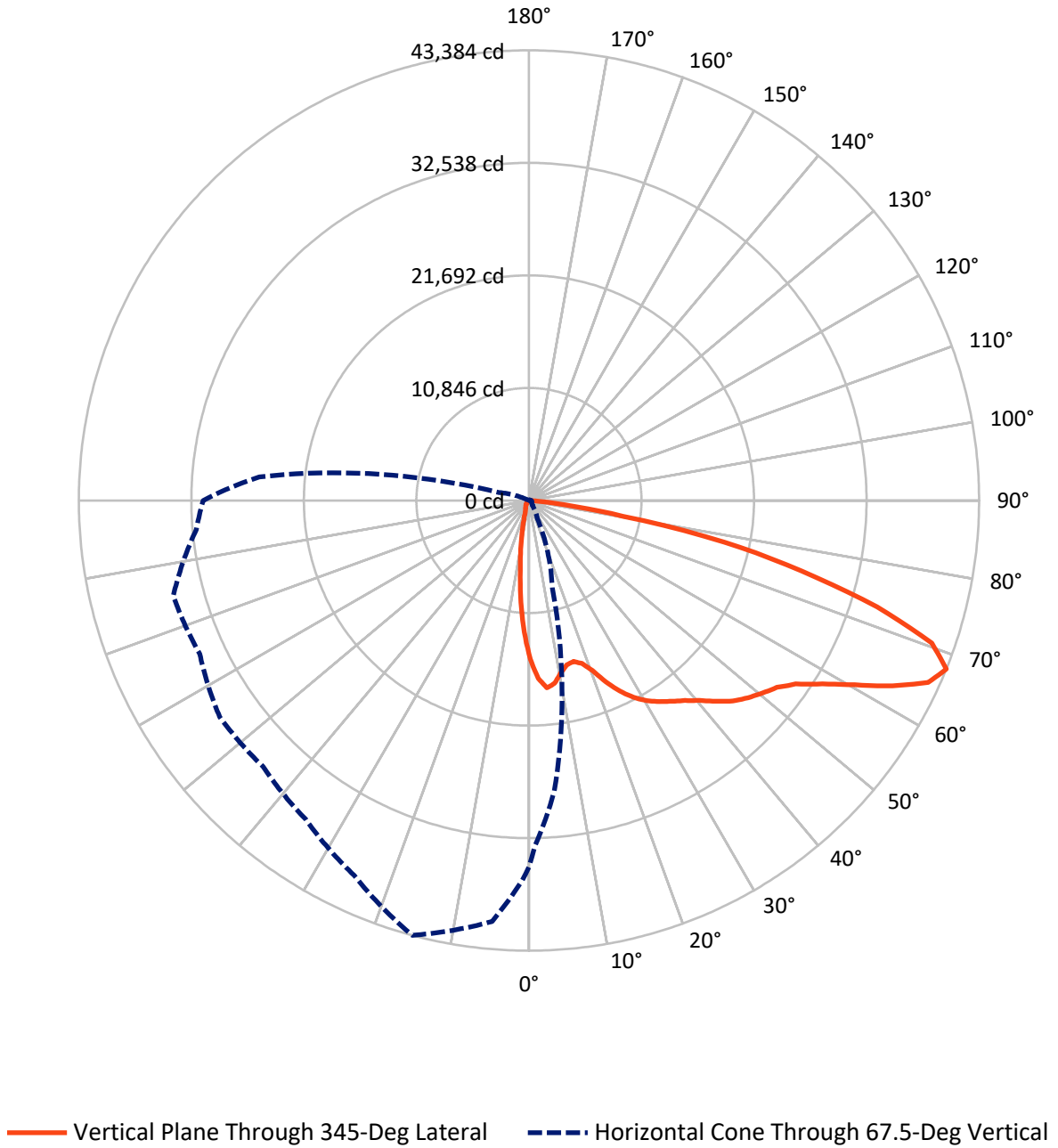
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 17 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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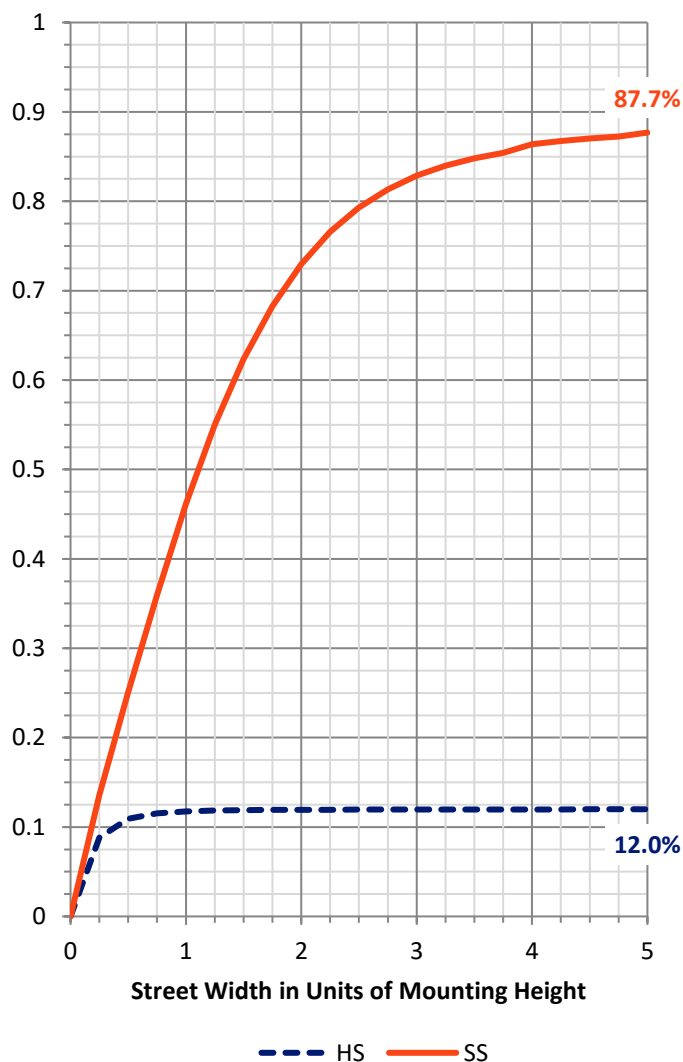
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5673.2	0.0	5673.2
	% Fixture	12.1	0.0	12.1
Street Side	Lumens	41199.8	0.0	41199.8
	% Fixture	87.9	0.0	87.9
Total	Lumens	46873.0	0.0	46873.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1171.9	2.5
10°-20°	2332.6	5.0
20°-30°	3312.3	7.1
30°-40°	4892.4	10.4
40°-50°	7055.9	15.1
50°-60°	9905.0	21.1
60°-70°	11546.4	24.6
70°-80°	5902.7	12.6
80°-90°	753.8	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°	46873.0	100.0
0°-180°	46873.0	100.0

Coefficient of Utilization



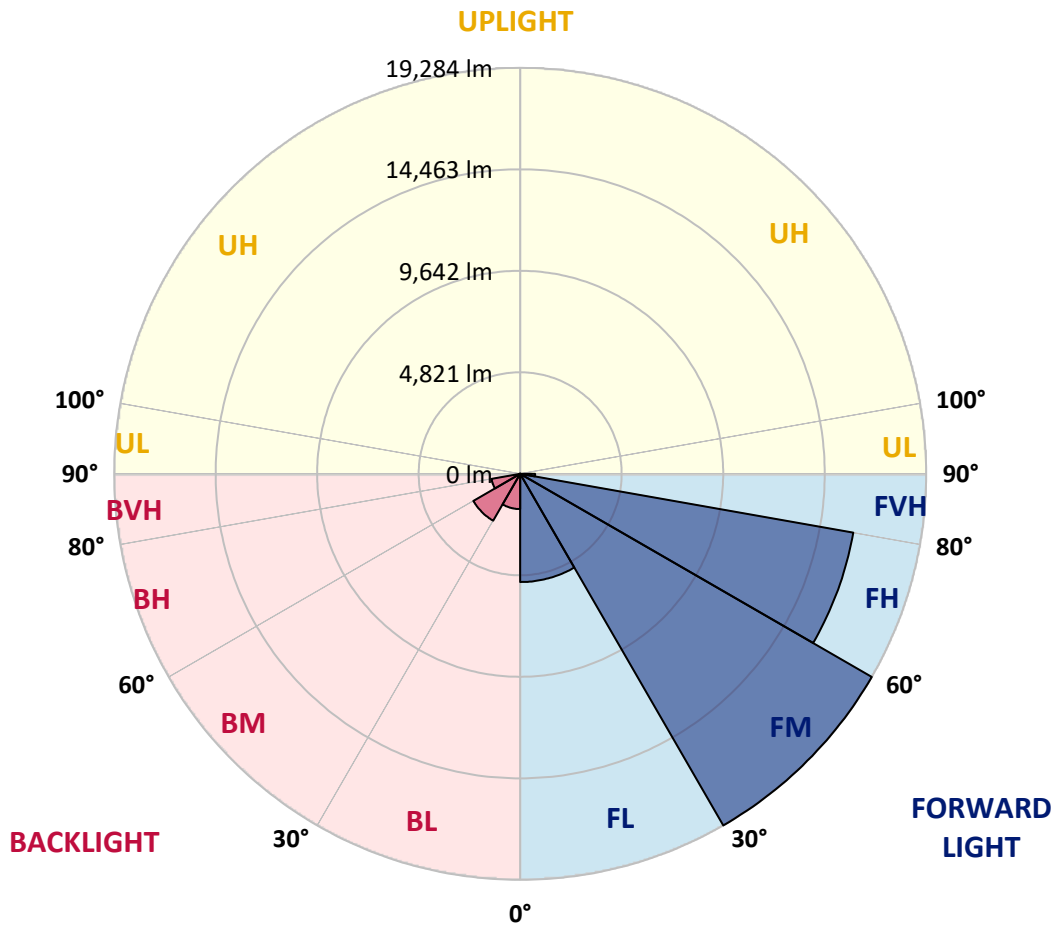
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5141.1	11.0			
FM (30°-60°)	19284.3	41.1			
FH (60°-80°)	16066.4	34.3			G5
FVH (80°-90°)	708.0	1.5			G4/750
BL (0°-30°)	1675.6	3.6	B3/2500		
BM (30°-60°)	2569.0	5.5	B3/5000		
BH (60°-80°)	1382.7	2.9	B3/2500		G3/2500
BVH (80°-90°)	45.8	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°	15268.8	15268.8	15268.8	15268.8	15268.8	15268.8	15268.8	15268.8	15268.8	15268.8	15268.8
2.5°	16718.8	16590.0	16447.9	15983.8	15553.0	15060.1	14658.1	14378.3	14027.5	13572.3	13456.8
5°	16598.9	16461.3	16014.9	14982.3	14078.6	13199.2	12350.9	11853.5	11236.2	10610.0	10454.5
7.5°	15393.1	15248.8	14604.8	13190.3	11973.4	10703.3	9601.8	8920.1	8222.9	7649.9	7345.7
10°	14138.5	13980.8	13256.9	11540.4	10041.5	8893.5	8085.2	7434.5	6775.0	6162.1	5673.6
12.5°	13274.7	13068.2	12282.1	10336.9	9031.1	8251.7	7496.7	6717.3	5824.6	5167.3	4629.9
15°	12912.7	12677.4	11846.9	9872.8	8673.6	7758.7	6775.0	5818.0	4772.1	4019.3	3526.3
17.5°	13192.5	12886.1	11995.6	9841.7	8225.1	6979.3	5735.8	4612.2	3477.4	2715.8	2364.9
20°	14143.0	13741.0	12610.7	9832.8	7681.0	6053.3	4476.7	3206.5	2291.7	1843.1	1658.8
22.5°	15639.6	15108.9	13494.5	9903.8	7119.2	5080.7	3233.2	2178.4	1721.0	1487.8	1379.0
25°	17447.2	16832.1	14766.9	10154.8	6626.2	4134.7	2349.4	1721.0	1452.3	1281.3	1190.2
27.5°	19165.9	18666.3	16374.6	10516.7	6244.3	3370.9	1907.5	1458.9	1241.3	1128.1	1054.8
30°	20882.5	20254.0	18024.5	10947.5	5784.6	2853.5	1676.5	1330.1	1112.5	992.6	946.0
32.5°	22130.4	21608.6	19316.9	11258.4	5293.9	2515.9	1498.9	1216.9	1039.2	917.1	848.3
35°	23598.2	23007.6	20425.0	11327.2	4978.6	2302.8	1347.9	1094.8	901.6	792.8	719.5
37.5°	25183.7	24448.7	21704.1	11176.2	4732.1	2198.4	1234.6	1039.2	841.6	730.6	652.9
40°	26938.0	26107.5	22932.1	10958.6	4490.0	2162.9	1148.0	997.0	795.0	681.7	601.8
42.5°	28785.5	27806.3	23995.7	10729.9	4336.8	2040.7	1139.2	954.9	759.4	637.3	557.4
45°	30337.7	29345.1	25088.3	10654.4	4228.0	1907.5	1176.9	926.0	735.0	601.8	524.1
47.5°	31574.6	30635.3	26207.4	10823.2	4165.8	1785.4	1072.5	963.7	721.7	570.7	495.2
50°	33051.3	31987.6	27784.1	11327.2	4074.8	1663.2	970.4	1103.6	721.7	550.7	470.8
52.5°	34903.3	33850.7	29542.8	12108.9	3892.7	1494.5	872.7	1105.9	728.4	524.1	439.7
55°	37232.7	36468.8	32054.3	12966.0	3601.8	1245.8	755.0	950.4	701.7	475.2	410.8
57.5°	39466.6	38842.6	34343.7	13552.3	3213.2	972.6	657.3	766.1	641.8	417.5	366.4
59°	40077.3	39395.5	35183.1	13578.9	2922.3	848.3	608.4	632.9	628.4	390.8	339.8
60°	40077.3	39353.3	35425.1	13436.8	2711.3	779.4	577.4	564.0	655.1	373.1	324.2
62.5°	39351.1	38334.1	34639.0	12475.3	2211.7	664.0	504.1	466.3	588.5	335.3	286.5
65°	37841.1	36360.0	31961.0	10736.6	1971.9	608.4	435.2	381.9	408.6	295.3	250.9
67.5°	35323.0	33315.5	28099.4	8673.6	1876.4	592.9	375.3	324.2	308.7	253.1	219.8
70°	30888.4	28661.2	23411.7	6819.4	1794.2	586.2	315.3	273.1	248.7	213.2	186.5
72.5°	22481.3	20158.5	16621.1	5331.6	1745.4	599.6	253.1	228.7	204.3	166.5	144.3
75°	12859.5	11338.3	9342.0	3521.9	1487.8	572.9	195.4	191.0	146.6	119.9	99.9
77.5°	6644.0	6441.9	5598.1	1352.3	712.8	250.9	128.8	111.0	86.6	73.3	60.0
80°	2866.8	2835.7	2453.8	390.8	188.8	139.9	73.3	46.6	40.0	31.1	24.4
82.5°	990.4	990.4	872.7	131.0	84.4	68.8	8.9	0.0	0.0	0.0	0.0
85°	199.9	224.3	157.7	0.0	28.9	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°	15268.8	15268.8	15268.8	15268.8	15268.8	15268.8	15268.8	15268.8	15268.8	15268.8	15268.8
2.5°	13316.9	13048.2	13030.4	12861.7	12650.7	12555.2	12499.7	12597.4	12717.3	12730.7	12910.5
5°	10336.9	10054.8	10172.5	9872.8	9932.7	9872.8	9775.0	9792.8	9846.1	9679.6	9886.1
7.5°	7259.1	7045.9	7181.4	7101.5	7208.0	7250.2	7190.3	7101.5	6839.4	6808.3	6988.2
10°	5471.5	5229.5	5085.2	4934.2	4967.5	5036.3	5014.1	4949.7	4783.2	4792.0	4965.2
12.5°	4396.8	4125.9	3839.4	3468.6	3377.5	3428.6	3377.5	3339.8	3179.9	3193.2	3346.4
15°	3335.3	3113.3	2813.5	2515.9	2353.8	2369.4	2227.3	2127.3	2027.4	1907.5	2000.8
17.5°	2251.7	2116.2	2027.4	1938.6	1745.4	1701.0	1521.1	1327.9	1252.4	1196.9	1236.9
20°	1594.4	1521.1	1485.6	1481.1	1370.1	1314.6	1139.2	1019.3	981.5	970.4	994.8
22.5°	1332.4	1279.1	1228.0	1199.1	1143.6	1079.2	946.0	886.0	859.4	846.0	863.8
25°	1159.1	1119.2	1065.9	1017.0	994.8	926.0	830.5	786.1	768.3	755.0	763.9
27.5°	1030.4	994.8	932.6	901.6	883.8	823.8	741.7	706.1	690.6	686.2	683.9
30°	928.2	894.9	837.2	801.6	770.5	717.3	668.4	632.9	617.3	612.9	608.4
32.5°	826.1	799.4	761.7	726.1	692.8	644.0	601.8	572.9	548.5	544.0	541.8
35°	697.3	670.6	650.6	648.4	617.3	570.7	539.6	501.9	481.9	475.2	477.4
37.5°	619.5	584.0	539.6	555.1	546.3	513.0	470.8	433.0	413.0	408.6	408.6
40°	570.7	532.9	481.9	455.2	481.9	475.2	408.6	370.8	350.9	348.6	344.2
42.5°	524.1	486.3	428.6	384.2	397.5	417.5	353.1	317.5	297.6	293.1	286.5
45°	490.8	450.8	386.4	335.3	308.7	350.9	302.0	257.6	246.5	237.6	233.2
47.5°	459.7	421.9	348.6	290.9	246.5	253.1	242.0	211.0	197.6	188.8	186.5
50°	433.0	393.0	315.3	248.7	204.3	186.5	195.4	166.5	155.4	146.6	142.1
52.5°	401.9	364.2	279.8	215.4	171.0	146.6	148.8	131.0	119.9	113.3	111.0
55°	377.5	339.8	250.9	188.8	151.0	119.9	106.6	102.1	95.5	91.0	88.8
57.5°	344.2	308.7	222.1	159.9	128.8	97.7	82.2	82.2	79.9	75.5	73.3
59°	324.2	293.1	204.3	144.3	117.7	84.4	73.3	75.5	73.3	68.8	66.6
60°	308.7	279.8	191.0	133.2	111.0	77.7	66.6	71.1	68.8	64.4	62.2
62.5°	273.1	253.1	164.3	111.0	97.7	62.2	55.5	60.0	60.0	57.7	55.5
65°	239.8	217.6	139.9	93.3	91.0	53.3	44.4	53.3	55.5	51.1	46.6
67.5°	208.7	186.5	122.1	75.5	84.4	42.2	33.3	44.4	60.0	46.6	42.2
70°	177.6	155.4	95.5	60.0	88.8	28.9	26.6	40.0	71.1	51.1	40.0
72.5°	137.7	119.9	66.6	44.4	95.5	20.0	20.0	33.3	79.9	55.5	37.8
75°	95.5	77.7	40.0	26.6	77.7	13.3	13.3	31.1	75.5	51.1	35.5
77.5°	55.5	42.2	13.3	2.2	40.0	0.0	2.2	22.2	53.3	31.1	15.5
80°	20.0	8.9	0.0	0.0	24.4	0.0	0.0	0.0	4.4	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°	15268.8	15268.8	15268.8	15268.8	15268.8	15268.8	15268.8	15268.8	15268.8	15268.8	15268.8
2.5°	12957.2	13256.9	13525.6	13932.0	14413.9	14969.0	15446.4	15959.4	16441.3	16641.1	16778.8
5°	9928.3	10299.1	10732.1	11329.5	12124.4	13103.7	14020.8	15057.8	16172.6	16729.9	17254.0
7.5°	7019.3	7396.8	7934.2	8569.3	9530.8	10696.6	11895.7	13328.0	14838.0	15719.6	16587.8
10°	5047.4	5511.5	6013.4	6881.6	7858.7	8964.5	10199.2	11798.0	13481.2	14458.3	15504.2
12.5°	3435.3	3963.8	4723.2	5695.8	6843.9	7927.5	9000.1	10525.6	12479.7	13447.9	14569.3
15°	2060.7	2353.8	3157.7	4283.5	5691.4	7041.5	8216.2	9746.2	11829.1	13014.9	14180.7
17.5°	1270.2	1405.6	1843.1	2766.9	4245.8	5953.4	7563.3	9481.9	11922.4	13365.7	14613.7
20°	1012.6	1065.9	1205.8	1634.4	2813.5	4754.3	6828.3	9428.6	12684.0	14460.5	15799.5
22.5°	879.4	930.4	1023.7	1188.0	1769.8	3559.6	6131.1	9477.5	13776.6	16101.5	17664.8
25°	775.0	819.4	908.2	1043.7	1296.8	2507.0	5384.9	9695.1	15200.0	18137.8	19798.8
27.5°	692.8	730.6	812.7	937.1	1112.5	1749.8	4538.9	9959.4	16887.6	20220.7	21859.5
30°	617.3	650.6	723.9	839.4	966.0	1345.7	3610.7	10139.2	18577.5	21859.5	23331.8
32.5°	552.9	577.4	644.0	741.7	839.4	1072.5	2744.7	10110.4	19832.1	23223.0	24391.0
35°	486.3	510.7	568.5	652.9	730.6	886.0	2158.4	9570.8	20924.6	24637.5	25603.4
37.5°	413.0	444.1	499.6	575.1	628.4	779.4	1745.4	8920.1	22032.7	26254.1	26955.8
40°	350.9	381.9	430.8	513.0	546.3	739.5	1341.2	8127.4	23278.5	28061.6	28439.1
42.5°	290.9	319.8	370.8	441.9	515.2	637.3	992.6	7221.4	24475.4	29607.2	29791.5
45°	235.4	264.3	317.5	388.6	550.7	528.5	768.3	6251.0	25441.3	30892.9	30952.8
47.5°	186.5	213.2	268.7	366.4	513.0	421.9	548.5	5489.3	26251.8	31896.6	31738.9
50°	144.3	166.5	224.3	419.7	448.6	348.6	415.3	5236.2	26978.0	32518.4	32109.8
52.5°	113.3	133.2	184.3	393.0	348.6	288.7	348.6	5473.8	27972.8	33033.5	32318.5
55°	91.0	111.0	144.3	224.3	237.6	244.3	297.6	5695.8	29689.3	34241.5	33550.9
57.5°	75.5	95.5	117.7	157.7	179.9	206.5	264.3	5720.2	31712.3	36248.9	35596.1
59°	68.8	86.6	106.6	139.9	157.7	188.8	248.7	5587.0	32425.1	36979.5	36653.1
60°	64.4	82.2	99.9	128.8	146.6	177.6	239.8	5460.4	32456.2	36952.9	37103.9
62.5°	55.5	73.3	88.8	108.8	124.4	151.0	215.4	4991.9	31141.6	35742.7	36833.0
65°	48.9	64.4	79.9	93.3	106.6	135.5	195.4	4137.0	28896.6	33790.8	34978.8
67.5°	44.4	55.5	73.3	82.2	95.5	119.9	173.2	2948.9	26092.0	31403.6	32174.2
70°	40.0	53.3	66.6	75.5	86.6	104.4	148.8	1694.3	22032.7	27908.4	28456.9
72.5°	37.8	51.1	60.0	71.1	77.7	93.3	135.5	797.2	16132.6	22356.9	23789.2
75°	33.3	46.6	55.5	66.6	73.3	84.4	115.5	381.9	10729.9	16179.2	17806.9
77.5°	20.0	37.8	51.1	60.0	64.4	73.3	95.5	219.8	6848.3	11198.4	13190.3
80°	0.0	13.3	37.8	51.1	55.5	62.2	73.3	173.2	3664.0	6397.5	7678.8
82.5°	0.0	0.0	26.6	40.0	37.8	42.2	55.5	108.8	1652.1	4181.4	4712.1
85°	0.0	0.0	8.9	31.1	26.6	20.0	37.8	37.8	362.0	2116.2	2640.3
87.5°	0.0	0.0	0.0	2.2	13.3	8.9	15.5	4.4	2.2	157.7	639.5
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°	15268.8	15268.8	15268.8	15268.8	15268.8	15268.8	15268.8	15268.8	15268.8	15268.8
2.5°	17260.7	17425.0	17702.6	17833.6	17769.2	17496.0	17169.6	16836.5	16641.1	16718.8
5°	18322.1	19168.2	19656.7	19818.8	19547.9	18935.0	18133.4	17076.4	16701.1	16598.9
7.5°	18322.1	19914.3	20922.4	21100.1	20496.1	19294.7	17791.4	16141.5	15593.0	15393.1
10°	17678.1	19845.4	21251.1	21533.1	20689.3	18892.8	16878.7	14995.7	14345.0	14138.5
12.5°	16952.0	19285.8	20767.0	21155.6	20462.8	18493.1	16245.9	14220.7	13454.6	13274.7
15°	16505.7	18597.5	19823.2	20105.2	19812.1	18259.9	16094.9	13987.5	13086.0	12912.7
17.5°	16665.5	18064.5	18506.4	18670.7	18868.4	18177.8	16505.7	14498.2	13356.9	13192.5
20°	17267.3	17502.7	17274.0	17480.5	18013.4	18257.7	17484.9	15732.9	14362.8	14143.0
22.5°	18288.8	17211.8	16570.1	16652.2	17300.6	18522.0	18981.6	17496.0	15915.0	15639.6
25°	19479.0	17447.2	16179.2	16106.0	16772.1	18870.6	20349.5	19414.6	17751.4	17447.2
27.5°	20975.7	17975.7	16099.3	16026.0	16587.8	19197.0	21486.5	21311.0	19685.6	19165.9
30°	22130.4	18495.3	16336.9	16168.1	16772.1	19423.5	22399.1	22921.0	21226.6	20882.5
32.5°	22958.7	19108.2	16723.3	16479.0	17291.8	19814.3	23103.0	24395.4	22652.3	22130.4
35°	23589.4	19774.4	17347.3	16945.3	18006.8	20407.2	23762.6	25965.4	24168.9	23598.2
37.5°	24180.0	20709.2	18322.1	17842.5	19128.2	21362.1	24459.8	27746.3	25865.5	25183.7
40°	25003.9	21768.5	19825.4	19399.1	21013.5	22663.4	25330.3	29602.7	27795.2	26938.0
42.5°	25827.7	22905.4	21364.3	21479.8	23365.1	24244.4	26453.9	31565.7	29700.4	28785.5
45°	26580.5	24077.9	23556.0	24089.0	25547.9	25978.7	27570.9	32700.4	31221.5	30337.7
47.5°	27251.1	25543.5	25734.4	27153.4	28030.5	27548.7	28405.8	33679.7	32354.0	31574.6
50°	28030.5	27439.9	28605.7	30613.1	30888.4	28969.8	29165.3	34838.9	33677.5	33051.3
52.5°	28883.2	29438.4	31785.6	33555.4	33466.5	30513.2	29929.1	36137.9	35491.7	34903.3
55°	29851.4	31052.8	34585.7	36308.9	36233.4	32236.3	31194.9	37743.4	37765.6	37232.7
57.5°	31288.1	32442.9	36486.6	38536.2	38662.7	34226.0	33340.0	39542.1	39821.9	39466.6
59°	32318.5	33344.4	37239.3	39466.6	39981.8	35764.9	34907.7	40585.8	40401.5	40077.3
60°	33082.4	33917.3	37612.4	39952.9	40747.9	36808.5	36064.6	41198.6	40470.3	40077.3
62.5°	34972.1	35165.3	38285.2	40503.6	41629.4	39126.8	39320.0	42242.3	39992.9	39351.1
65°	35853.7	35953.6	38276.3	39517.7	40776.7	40932.2	42273.4	42273.4	38827.1	37841.1
67.5°	35485.1	35003.2	36377.7	36248.9	37505.8	39859.6	43383.7	40723.4	36597.6	35323.0
70°	32487.3	30633.1	30022.4	30077.9	31039.4	34670.1	41185.3	36162.3	32378.5	30888.4
72.5°	27031.3	22583.4	21075.6	22796.6	23047.5	26644.9	35098.7	27233.3	23878.0	22481.3
75°	21741.8	15919.4	13467.9	15284.3	15710.7	19499.0	27151.2	16960.9	13947.5	12859.5
77.5°	15619.6	11427.2	9664.0	9537.4	10088.2	12366.5	19265.9	8536.0	7119.2	6644.0
80°	8873.5	7521.1	8098.5	7641.1	7918.6	7732.1	9153.3	3743.9	3066.6	2866.8
82.5°	5356.1	4445.6	4814.2	4008.2	5071.8	4416.8	3526.3	1199.1	1041.5	990.4
85°	3484.1	2429.3	1265.7	848.3	1747.6	2822.4	788.3	326.4	250.9	199.9
87.5°	1201.3	619.5	62.2	26.6	186.5	526.3	28.9	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)