

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: P324464

Luminaire Tested: **GAN-SA0D-730-U-SLR-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P324464
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-SA0D-730-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 3000K, 1200mA 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: 51846 lumens
Efficiency: N/A
Efficacy: 81.0 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): 640
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

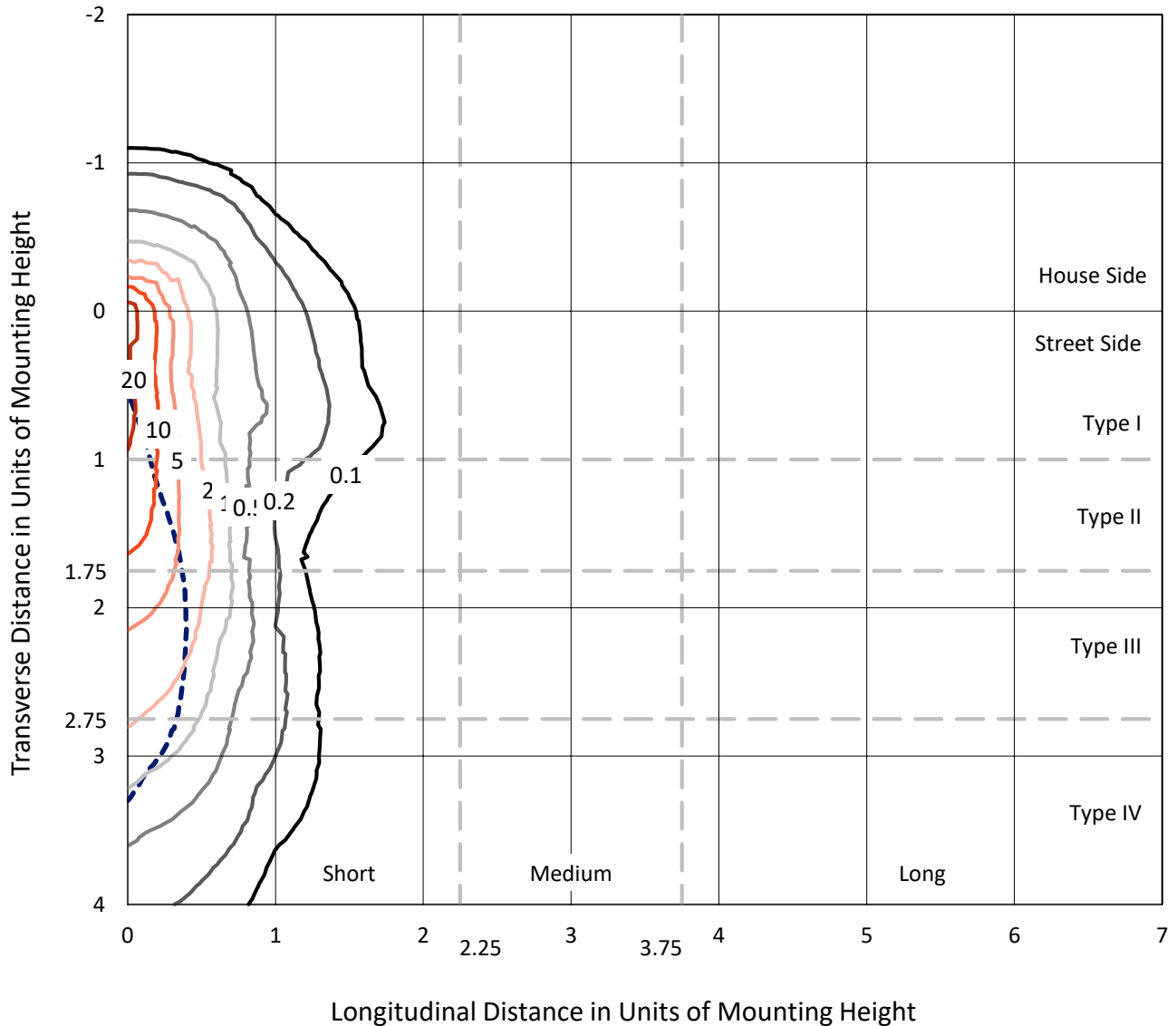




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Iso-Footcandle Lines of Horizontal Illumination

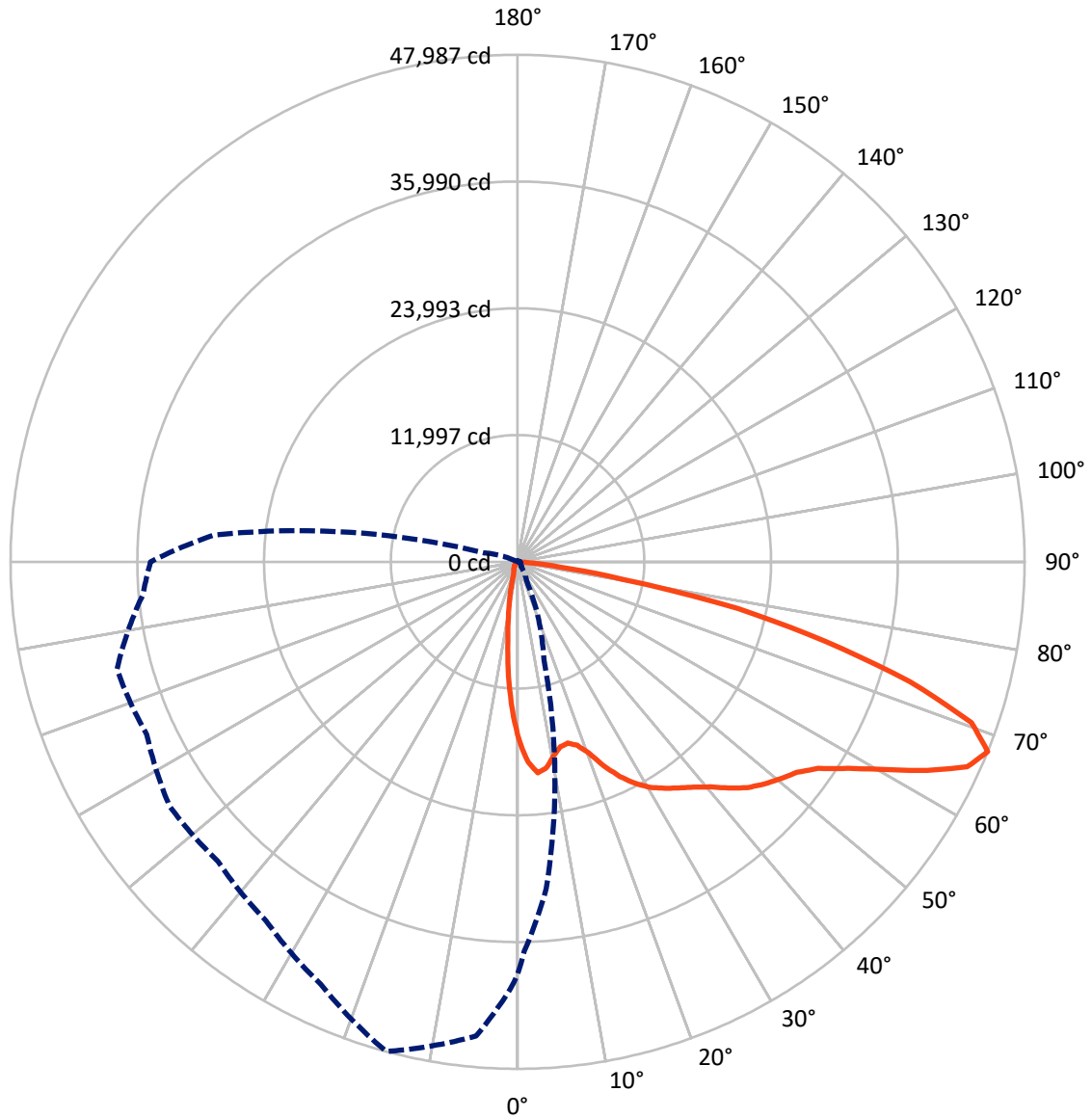
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 27 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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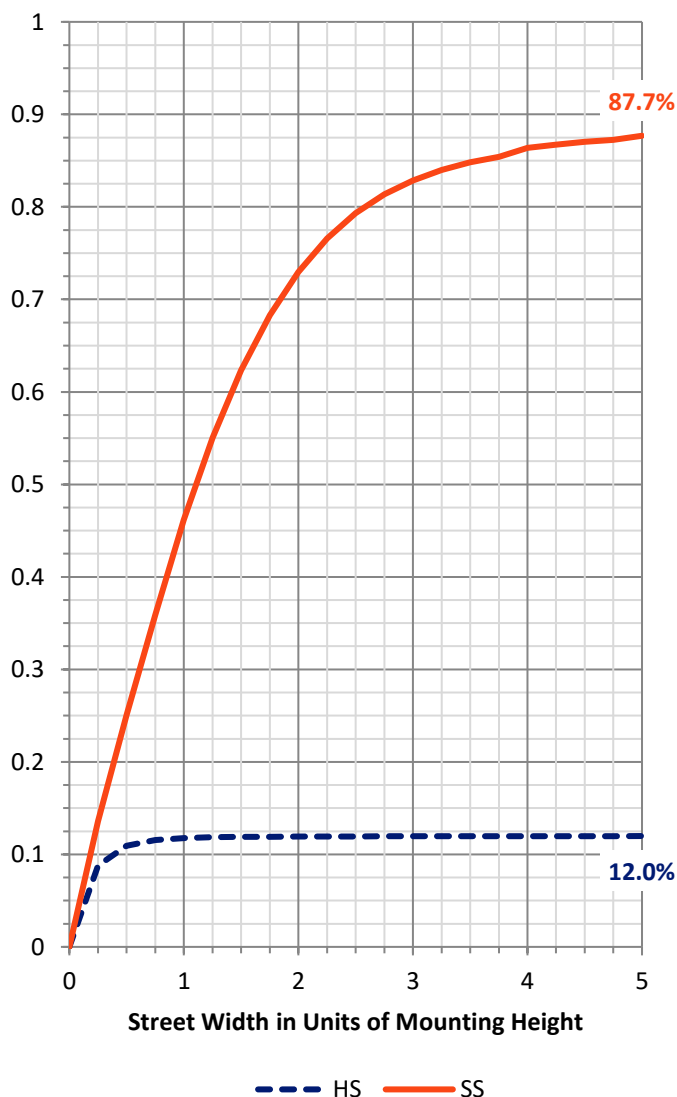
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6275.1	0.0	6275.1
	% Fixture	12.1	0.0	12.1
Street Side	Lumens	45570.9	0.0	45570.9
	% Fixture	87.9	0.0	87.9
Total	Lumens	51846.0	0.0	51846.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1296.2	2.5
10°-20°	2580.0	5.0
20°-30°	3663.7	7.1
30°-40°	5411.5	10.4
40°-50°	7804.5	15.1
50°-60°	10955.9	21.1
60°-70°	12771.4	24.6
70°-80°	6529.0	12.6
80°-90°	833.8	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°	51846.0	100.0
0°-180°	51846.0	100.0

Coefficient of Utilization

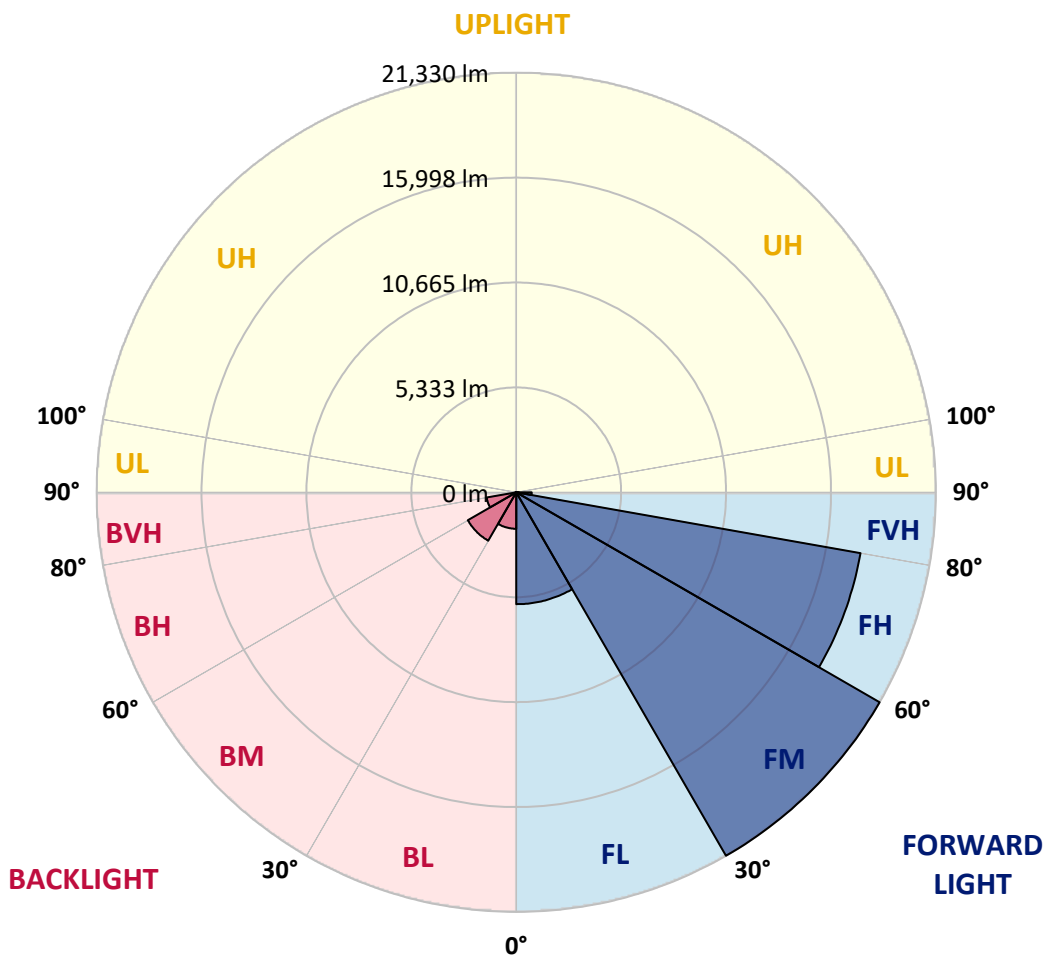


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5686.5	11.0			
FM (30°-60°)	21330.3	41.1			
FH (60°-80°)	17771.0	34.3			G5
FVH (80°-90°)	783.2	1.5			G5
BL (0°-30°)	1853.4	3.6	B3/2500		
BM (30°-60°)	2841.6	5.5	B3/5000		
BH (60°-80°)	1529.4	2.9	B3/2500		G3/2500
BVH (80°-90°)	50.7	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°	16888.7	16888.7	16888.7	16888.7	16888.7	16888.7	16888.7	16888.7	16888.7	16888.7	16888.7
2.5°	18492.6	18350.2	18193.0	17679.6	17203.1	16657.9	16213.3	15903.8	15515.7	15012.2	14884.5
5°	18360.0	18207.7	17714.0	16571.9	15572.2	14599.6	13661.3	13111.1	12428.3	11735.7	11563.7
7.5°	17026.3	16866.6	16154.3	14589.7	13243.8	11838.8	10620.6	9866.5	9095.3	8461.6	8125.1
10°	15638.5	15464.2	14663.4	12764.8	11106.9	9837.0	8943.0	8223.3	7493.8	6815.9	6275.6
12.5°	14683.1	14454.7	13585.2	11433.5	9989.3	9127.2	8292.1	7430.0	6442.6	5715.5	5121.1
15°	14282.7	14022.4	13103.8	10920.2	9593.9	8581.9	7493.8	6435.2	5278.3	4445.7	3900.4
17.5°	14592.2	14253.3	13268.3	10885.8	9097.7	7719.8	6344.3	5101.5	3846.4	3003.9	2615.8
20°	15643.5	15198.9	13948.7	10876.0	8495.9	6695.6	4951.7	3546.7	2534.8	2038.6	1834.8
22.5°	17298.9	16711.9	14926.2	10954.6	7874.5	5619.8	3576.2	2409.5	1903.5	1645.6	1525.3
25°	19298.3	18617.9	16333.6	11232.1	7329.3	4573.4	2598.6	1903.5	1606.3	1417.2	1316.5
27.5°	21199.3	20646.7	18111.9	11632.5	6906.8	3728.5	2109.9	1613.7	1373.0	1247.7	1166.7
30°	23098.0	22402.9	19936.9	12109.0	6398.4	3156.2	1854.4	1471.3	1230.5	1097.9	1046.3
32.5°	24478.4	23901.2	21366.4	12452.9	5855.5	2782.9	1657.9	1346.0	1149.5	1014.4	938.3
35°	26101.9	25448.5	22592.0	12529.0	5506.8	2547.1	1490.9	1210.9	997.2	876.9	795.8
37.5°	27855.6	27042.6	24006.8	12362.0	5234.1	2431.6	1365.6	1149.5	930.9	808.1	722.1
40°	29796.0	28877.4	25365.0	12121.3	4966.4	2392.3	1269.8	1102.8	879.3	754.0	665.6
42.5°	31839.5	30756.4	26541.6	11868.3	4796.9	2257.2	1260.0	1056.2	840.0	704.9	616.5
45°	33556.4	32458.5	27750.0	11784.8	4676.6	2109.9	1301.8	1024.2	813.0	665.6	579.7
47.5°	34924.5	33885.5	28987.9	11971.5	4607.8	1974.8	1186.3	1066.0	798.3	631.2	547.7
50°	36557.9	35381.4	30731.8	12529.0	4507.1	1839.7	1073.4	1220.7	798.3	609.1	520.7
52.5°	38606.3	37442.1	32677.1	13393.6	4305.7	1653.0	965.3	1223.2	805.6	579.7	486.3
55°	41182.9	40338.0	35455.1	14341.7	3983.9	1377.9	835.1	1051.2	776.2	525.6	454.4
57.5°	43653.8	42963.6	37987.4	14990.1	3554.1	1075.8	727.0	847.4	709.8	461.8	405.3
59°	44329.3	43575.2	38915.8	15019.6	3232.3	938.3	673.0	700.0	695.1	432.3	375.8
60°	44329.3	43528.5	39183.5	14862.4	2999.0	862.1	638.6	623.9	724.6	412.6	358.6
62.5°	43526.1	42401.1	38314.1	13798.9	2446.4	734.4	557.6	515.8	650.9	370.9	316.8
65°	41855.9	40217.6	35351.9	11875.7	2181.1	673.0	481.4	422.5	451.9	326.7	277.5
67.5°	39070.6	36850.2	31080.6	9593.9	2075.5	655.8	415.1	358.6	341.4	280.0	243.2
70°	34165.6	31702.0	25895.6	7542.9	1984.6	648.4	348.8	302.1	275.1	235.8	206.3
72.5°	24866.4	22297.3	18384.6	5897.3	1930.6	663.2	280.0	253.0	226.0	184.2	159.7
75°	14223.8	12541.3	10333.2	3895.5	1645.6	633.7	216.1	211.2	162.1	132.6	110.5
77.5°	7348.9	7125.4	6192.0	1495.8	788.4	277.5	142.5	122.8	95.8	81.1	66.3
80°	3170.9	3136.6	2714.1	432.3	208.8	154.7	81.1	51.6	44.2	34.4	27.0
82.5°	1095.5	1095.5	965.3	144.9	93.3	76.1	9.8	0.0	0.0	0.0	0.0
85°	221.1	248.1	174.4	0.0	31.9	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°	16888.7	16888.7	16888.7	16888.7	16888.7	16888.7	16888.7	16888.7	16888.7	16888.7	16888.7
2.5°	14729.8	14432.6	14412.9	14226.2	13992.9	13887.3	13825.9	13933.9	14066.6	14081.3	14280.3
5°	11433.5	11121.6	11251.8	10920.2	10986.5	10920.2	10812.1	10831.8	10890.7	10706.5	10934.9
7.5°	8029.3	7793.5	7943.3	7854.9	7972.8	8019.4	7953.1	7854.9	7565.1	7530.7	7729.6
10°	6052.0	5784.3	5624.7	5457.6	5494.5	5570.6	5546.1	5474.8	5290.6	5300.5	5492.0
12.5°	4863.2	4563.6	4246.7	3836.6	3735.9	3792.4	3735.9	3694.1	3517.3	3532.0	3701.5
15°	3689.2	3443.6	3112.0	2782.9	2603.6	2620.8	2463.6	2353.0	2242.5	2109.9	2213.0
17.5°	2490.6	2340.7	2242.5	2144.3	1930.6	1881.4	1682.5	1468.8	1385.3	1323.9	1368.1
20°	1763.5	1682.5	1643.2	1638.3	1515.5	1454.1	1260.0	1127.4	1085.6	1073.4	1100.4
22.5°	1473.7	1414.8	1358.3	1326.3	1264.9	1193.7	1046.3	980.0	950.5	935.8	955.5
25°	1282.1	1237.9	1179.0	1124.9	1100.4	1024.2	918.6	869.5	849.8	835.1	844.9
27.5°	1139.7	1100.4	1031.6	997.2	977.6	911.2	820.4	781.1	763.9	759.0	756.5
30°	1026.7	989.8	926.0	886.7	852.3	793.3	739.3	700.0	682.8	677.9	673.0
32.5°	913.7	884.2	842.5	803.2	766.3	712.3	665.6	633.7	606.7	601.8	599.3
35°	771.2	741.8	719.7	717.2	682.8	631.2	596.9	555.1	533.0	525.6	528.1
37.5°	685.3	646.0	596.9	614.0	604.2	567.4	520.7	479.0	456.9	451.9	451.9
40°	631.2	589.5	533.0	503.5	533.0	525.6	451.9	410.2	388.1	385.6	380.7
42.5°	579.7	537.9	474.0	424.9	439.7	461.8	390.5	351.2	329.1	324.2	316.8
45°	542.8	498.6	427.4	370.9	341.4	388.1	334.0	284.9	272.6	262.8	257.9
47.5°	508.4	466.7	385.6	321.8	272.6	280.0	267.7	233.3	218.6	208.8	206.3
50°	479.0	434.7	348.8	275.1	226.0	206.3	216.1	184.2	171.9	162.1	157.2
52.5°	444.6	402.8	309.5	238.3	189.1	162.1	164.6	144.9	132.6	125.3	122.8
55°	417.6	375.8	277.5	208.8	167.0	132.6	117.9	113.0	105.6	100.7	98.2
57.5°	380.7	341.4	245.6	176.8	142.5	108.1	90.9	90.9	88.4	83.5	81.1
59°	358.6	324.2	226.0	159.7	130.2	93.3	81.1	83.5	81.1	76.1	73.7
60°	341.4	309.5	211.2	147.4	122.8	86.0	73.7	78.6	76.1	71.2	68.8
62.5°	302.1	280.0	181.8	122.8	108.1	68.8	61.4	66.3	66.3	63.9	61.4
65°	265.3	240.7	154.7	103.2	100.7	58.9	49.1	58.9	61.4	56.5	51.6
67.5°	230.9	206.3	135.1	83.5	93.3	46.7	36.8	49.1	66.3	51.6	46.7
70°	196.5	171.9	105.6	66.3	98.2	31.9	29.5	44.2	78.6	56.5	44.2
72.5°	152.3	132.6	73.7	49.1	105.6	22.1	22.1	36.8	88.4	61.4	41.8
75°	105.6	86.0	44.2	29.5	86.0	14.7	14.7	34.4	83.5	56.5	39.3
77.5°	61.4	46.7	14.7	2.5	44.2	0.0	2.5	24.6	58.9	34.4	17.2
80°	22.1	9.8	0.0	0.0	27.0	0.0	0.0	0.0	4.9	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°	16888.7	16888.7	16888.7	16888.7	16888.7	16888.7	16888.7	16888.7	16888.7	16888.7	16888.7
2.5°	14331.8	14663.4	14960.6	15410.1	15943.1	16557.2	17085.2	17652.6	18185.6	18406.7	18558.9
5°	10981.6	11391.8	11870.7	12531.5	13410.8	14494.0	15508.4	16655.4	17888.4	18504.9	19084.6
7.5°	7764.0	8181.6	8776.0	9478.4	10542.0	11831.5	13157.8	14742.0	16412.2	17387.3	18347.7
10°	5582.9	6096.3	6651.4	7611.7	8692.4	9915.6	11281.3	13049.7	14911.5	15992.2	17149.1
12.5°	3799.7	4384.3	5224.3	6300.1	7570.0	8768.6	9954.9	11642.3	13803.8	14874.7	16115.0
15°	2279.3	2603.6	3492.7	4738.0	6295.2	7788.6	9087.9	10780.2	13084.1	14395.7	15685.2
17.5°	1404.9	1554.8	2038.6	3060.4	4696.2	6585.0	8365.8	10487.9	13187.3	14783.8	16164.2
20°	1120.0	1179.0	1333.7	1807.8	3112.0	5258.7	7552.8	10429.0	14029.7	15994.7	17475.8
22.5°	972.6	1029.1	1132.3	1314.1	1957.6	3937.3	6781.5	10483.0	15238.2	17809.8	19539.0
25°	857.2	906.3	1004.6	1154.4	1434.4	2773.0	5956.3	10723.7	16812.6	20062.1	21899.4
27.5°	766.3	808.1	899.0	1036.5	1230.5	1935.5	5020.4	11016.0	18679.3	22366.0	24178.7
30°	682.8	719.7	800.7	928.4	1068.4	1488.4	3993.8	11214.9	20548.5	24178.7	25807.2
32.5°	611.6	638.6	712.3	820.4	928.4	1186.3	3035.8	11183.0	21936.2	25686.8	26978.8
35°	537.9	564.9	628.8	722.1	808.1	980.0	2387.4	10586.2	23144.6	27251.4	28319.8
37.5°	456.9	491.2	552.6	636.2	695.1	862.1	1930.6	9866.5	24370.3	29039.5	29815.6
40°	388.1	422.5	476.5	567.4	604.2	817.9	1483.5	8989.6	25748.2	31038.8	31456.4
42.5°	321.8	353.7	410.2	488.8	569.8	704.9	1097.9	7987.5	27072.1	32748.3	32952.2
45°	260.4	292.3	351.2	429.8	609.1	584.6	849.8	6914.2	28140.5	34170.5	34236.8
47.5°	206.3	235.8	297.2	405.3	567.4	466.7	606.7	6071.7	29037.0	35280.7	35106.3
50°	159.7	184.2	248.1	464.2	496.1	385.6	459.3	5791.7	29840.2	35968.4	35516.5
52.5°	125.3	147.4	203.9	434.7	385.6	319.3	385.6	6054.5	30940.6	36538.2	35747.3
55°	100.7	122.8	159.7	248.1	262.8	270.2	329.1	6300.1	32839.2	37874.4	37110.5
57.5°	83.5	105.6	130.2	174.4	199.0	228.4	292.3	6327.1	35076.8	40094.8	39372.7
59°	76.1	95.8	117.9	154.7	174.4	208.8	275.1	6179.8	35865.2	40902.9	40541.8
60°	71.2	90.9	110.5	142.5	162.1	196.5	265.3	6039.8	35899.6	40873.4	41040.4
62.5°	61.4	81.1	98.2	120.4	137.5	167.0	238.3	5521.5	34445.6	39534.8	40740.8
65°	54.0	71.2	88.4	103.2	117.9	149.8	216.1	4575.9	31962.4	37375.8	38689.8
67.5°	49.1	61.4	81.1	90.9	105.6	132.6	191.6	3261.8	28860.2	34735.4	35587.7
70°	44.2	58.9	73.7	83.5	95.8	115.4	164.6	1874.1	24370.3	30869.4	31476.0
72.5°	41.8	56.5	66.3	78.6	86.0	103.2	149.8	881.8	17844.2	24728.9	26313.1
75°	36.8	51.6	61.4	73.7	81.1	93.3	127.7	422.5	11868.3	17895.8	19696.2
77.5°	22.1	41.8	56.5	66.3	71.2	81.1	105.6	243.2	7574.9	12386.5	14589.7
80°	0.0	14.7	41.8	56.5	61.4	68.8	81.1	191.6	4052.7	7076.3	8493.5
82.5°	0.0	0.0	29.5	44.2	41.8	46.7	61.4	120.4	1827.4	4625.0	5212.0
85°	0.0	0.0	9.8	34.4	29.5	22.1	41.8	41.8	400.4	2340.7	2920.4
87.5°	0.0	0.0	0.0	2.5	14.7	9.8	17.2	4.9	2.5	174.4	707.4
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°	16888.7	16888.7	16888.7	16888.7	16888.7	16888.7	16888.7	16888.7	16888.7	16888.7
2.5°	19091.9	19273.7	19580.7	19725.6	19654.4	19352.3	18991.2	18622.8	18406.7	18492.6
5°	20266.0	21201.8	21742.2	21921.5	21621.8	20943.9	20057.2	18888.1	18473.0	18360.0
7.5°	20266.0	22027.1	23142.2	23338.7	22670.6	21341.8	19679.0	17854.0	17247.3	17026.3
10°	19553.7	21950.9	23505.7	23817.6	22884.3	20897.2	18669.5	16586.6	15867.0	15638.5
12.5°	18750.5	21332.0	22970.3	23400.1	22633.8	20455.1	17969.5	15729.4	14882.0	14683.1
15°	18256.8	20570.6	21926.4	22238.3	21914.1	20197.2	17802.4	15471.5	14474.3	14282.7
17.5°	18433.7	19981.1	20469.9	20651.6	20870.2	20106.3	18256.8	16036.4	14774.0	14592.2
20°	19099.3	19359.7	19106.7	19335.1	19924.6	20194.8	19340.0	17402.1	15886.6	15643.5
22.5°	20229.2	19037.9	18328.1	18418.9	19136.1	20487.1	20995.5	19352.3	17603.5	17298.9
25°	21545.7	19298.3	17895.8	17814.7	18551.6	20872.7	22508.5	21474.4	19634.8	19298.3
27.5°	23201.1	19882.8	17807.4	17726.3	18347.7	21233.7	23766.1	23572.0	21774.1	21199.3
30°	24478.4	20457.6	18070.2	17883.5	18551.6	21484.3	24775.6	25352.8	23478.7	23098.0
32.5°	25394.5	21135.5	18497.5	18227.4	19126.3	21916.6	25554.2	26983.7	25055.6	24478.4
35°	26092.1	21872.3	19187.7	18743.2	19917.2	22572.4	26283.7	28720.2	26733.1	26101.9
37.5°	26745.4	22906.4	20266.0	19735.5	21157.6	23628.5	27054.9	30690.1	28609.7	27855.6
40°	27656.7	24078.0	21928.8	21457.2	23242.9	25067.8	28017.7	32743.4	30744.1	29796.0
42.5°	28567.9	25335.6	23631.0	23758.7	25844.0	26816.6	29260.5	34914.7	32851.5	31839.5
45°	29400.6	26632.4	26055.2	26644.7	28258.4	28734.9	30496.0	36169.8	34534.0	33556.4
47.5°	30142.3	28253.5	28464.7	30034.2	31004.4	30471.4	31419.5	37253.0	35786.6	34924.5
50°	31004.4	30351.1	31640.6	33861.0	34165.6	32043.4	32259.6	38535.1	37250.5	36557.9
52.5°	31947.6	32561.7	35157.9	37115.4	37017.2	33750.5	33104.5	39972.0	39257.2	38606.3
55°	33018.5	34347.3	38255.1	40161.1	40077.6	35656.5	34504.5	41747.8	41772.4	41182.9
57.5°	34607.7	35884.9	40357.6	42624.7	42764.7	37857.2	36877.2	43737.3	44046.8	43653.8
59°	35747.3	36882.1	41190.2	43653.8	44223.6	39559.3	38611.3	44891.7	44687.9	44329.3
60°	36592.3	37515.8	41602.9	44191.7	45071.0	40713.7	39890.9	45569.6	44764.0	44329.3
62.5°	38682.5	38896.2	42347.1	44800.8	46046.1	43278.0	43491.7	46724.0	44235.9	43526.1
65°	39657.6	39768.1	42337.3	43710.3	45103.0	45274.9	46758.4	46758.4	42946.4	41855.9
67.5°	39249.9	38716.9	40237.2	40094.8	41485.0	44088.5	47986.5	45044.0	40480.4	39070.6
70°	35934.0	33883.1	33207.6	33269.0	34332.6	38348.4	45554.9	39999.0	35813.7	34165.6
72.5°	29899.2	24979.4	23311.7	25215.2	25492.8	29471.8	38822.5	30122.7	26411.4	24866.4
75°	24048.5	17608.4	14896.8	16905.9	17377.5	21567.8	30031.8	18760.4	15427.3	14223.8
77.5°	17276.8	12639.5	10689.3	10549.3	11158.5	13678.5	21309.9	9441.6	7874.5	7348.9
80°	9814.9	8319.1	8957.7	8451.7	8758.8	8552.4	10124.4	4141.1	3392.0	3170.9
82.5°	5924.3	4917.3	5325.0	4433.4	5609.9	4885.4	3900.4	1326.3	1152.0	1095.5
85°	3853.8	2687.1	1400.0	938.3	1933.0	3121.8	871.9	361.1	277.5	221.1
87.5°	1328.8	685.3	68.8	29.5	206.3	582.1	31.9	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)