

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: P324183

Luminaire Tested: **GAN-SA9D-740-U-SLL-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P324183
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-27)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA9D-740-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR LEFT OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 51425 lumens
Efficiency: N/A
Efficacy: 89.4 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

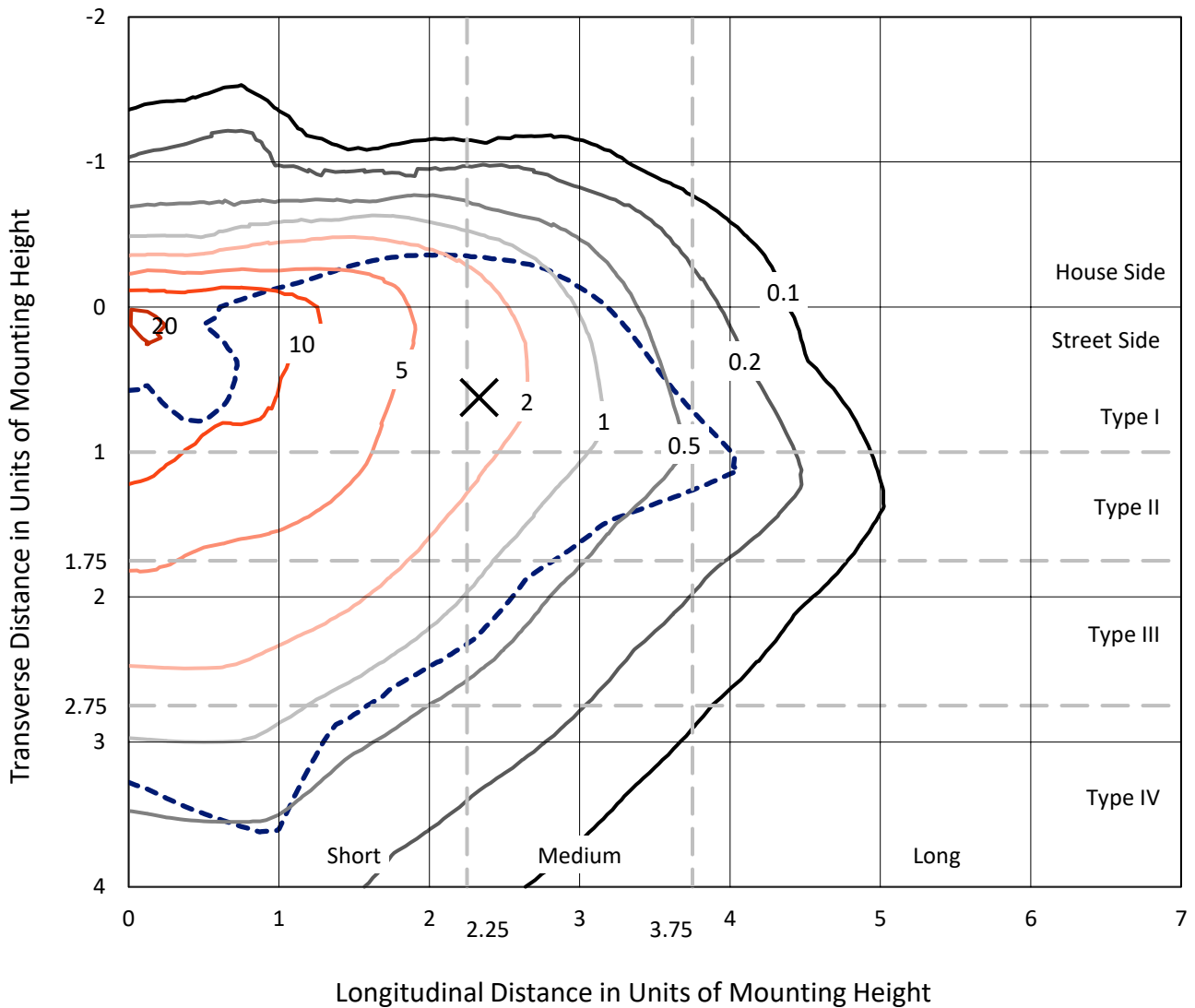
Input Watts (W): 575
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

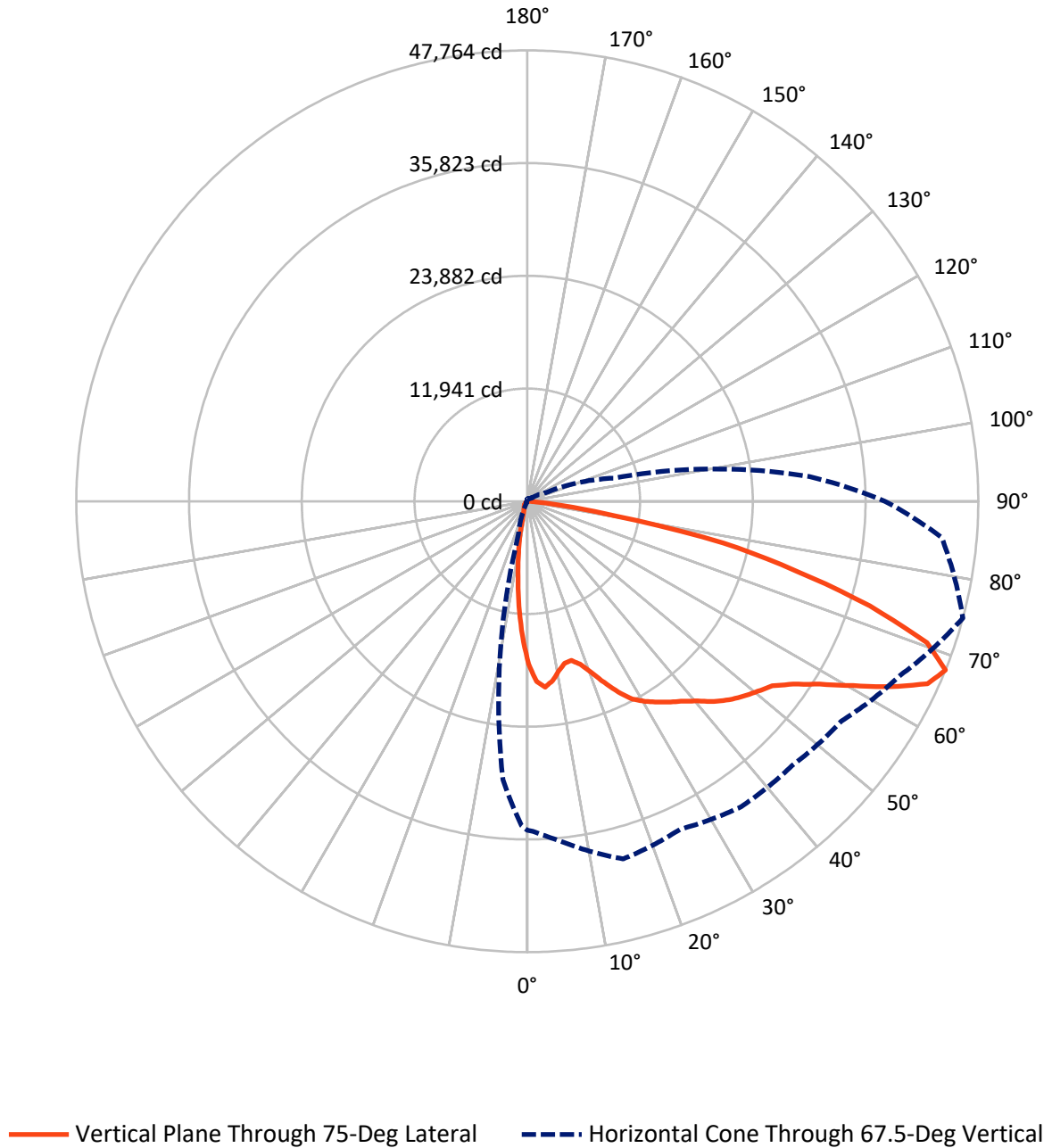
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 24.8 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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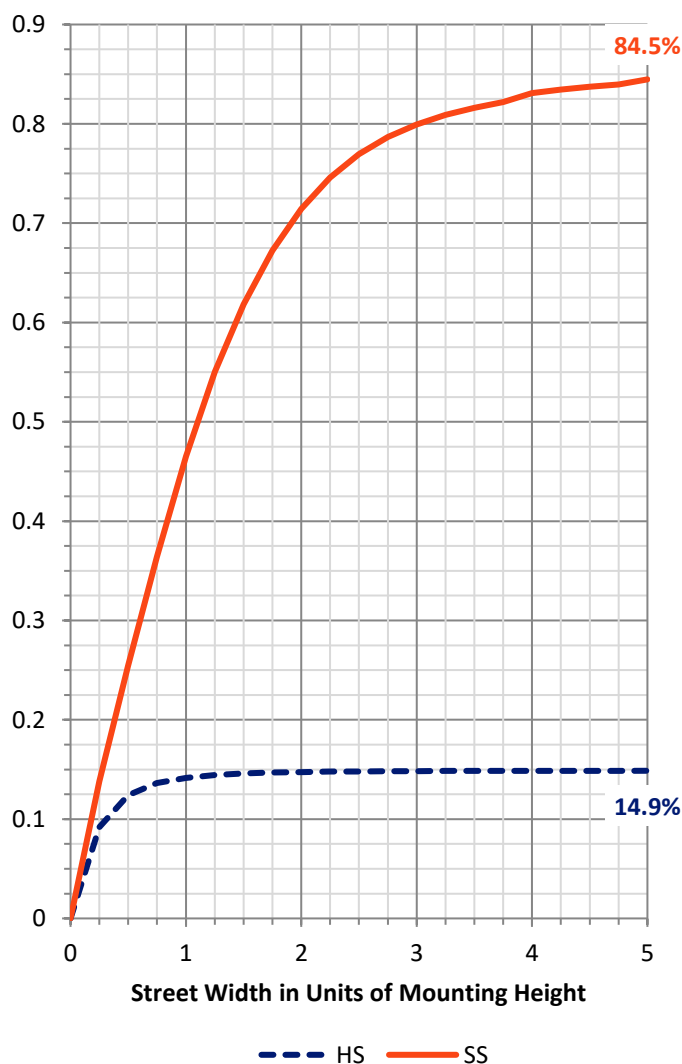
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7716.9	0.0	7716.9
	% Fixture	15.0	0.0	15.0
Street Side	Lumens	43708.1	0.0	43708.1
	% Fixture	85.0	0.0	85.0
Total	Lumens	51425.0	0.0	51425.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1308.7	2.5
10°-20°	2576.8	5.0
20°-30°	3645.4	7.1
30°-40°	5359.8	10.4
40°-50°	7703.7	15.0
50°-60°	10844.8	21.1
60°-70°	12665.8	24.6
70°-80°	6461.7	12.6
80°-90°	858.4	1.7
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°	51425.0	100.0
0°-180°	51425.0	100.0

Coefficient of Utilization



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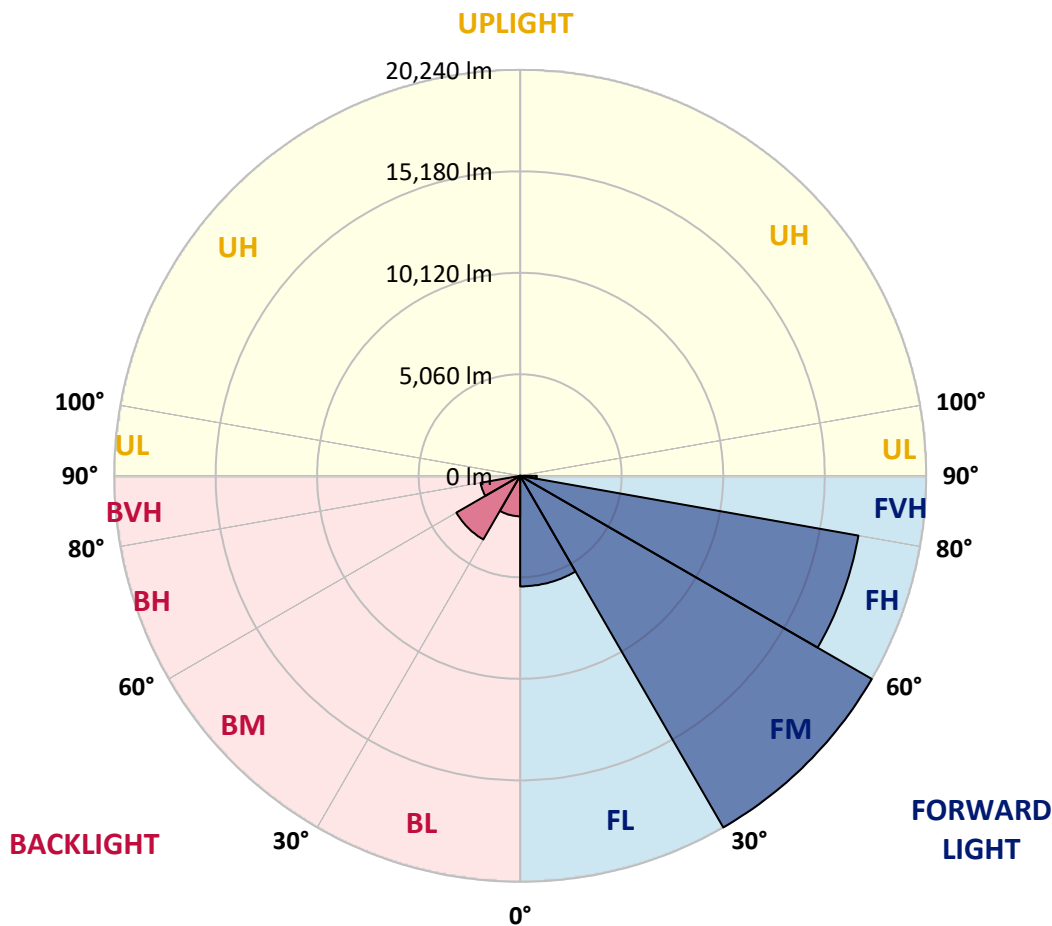
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5512.8	10.7			
FM (30°-60°)	20240.0	39.4			
FH (60°-80°)	17123.1	33.3			G5
FVH (80°-90°)	832.4	1.6			G5
BL (0°-30°)	2018.1	3.9	B3/2500		
BM (30°-60°)	3668.4	7.1	B3/5000		
BH (60°-80°)	2004.4	3.9	B3/2500		G3/2500
BVH (80°-90°)	26.0	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 III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	17252.2	17252.2	17252.2	17252.2	17252.2	17252.2	17252.2	17252.2	17252.2	17252.2	17252.2
2.5°	18701.7	18730.9	18881.9	19232.7	19615.2	19644.4	19902.6	19637.1	19547.0	19118.2	18674.9
5°	18843.0	18955.0	19473.9	20504.4	21398.4	21685.8	21890.5	21369.2	20821.0	19773.5	18655.4
7.5°	17705.3	17892.9	18709.0	20643.2	22241.3	22947.7	23081.7	22265.6	20923.4	19198.6	17517.7
10°	16248.5	16462.9	17447.1	19824.7	22019.6	23230.3	23415.5	22346.0	20416.7	18268.0	16287.5
12.5°	15069.5	15320.4	16326.5	18903.9	21257.1	22596.9	22962.3	22075.6	19978.2	17607.9	15447.1
15°	14526.3	14813.7	15871.0	18309.5	20411.8	21466.6	21768.7	21386.2	19734.6	17503.1	15252.2
17.5°	14838.1	15149.9	16241.2	18360.6	19617.6	20068.3	20311.9	20467.8	19734.6	18134.1	15822.2
20°	16117.0	16453.2	17607.9	18879.5	18959.9	18791.8	19052.5	19600.6	19963.5	19332.6	17191.3
22.5°	17885.6	18280.2	19583.5	19768.7	18638.3	18002.5	18036.6	18896.6	20380.1	20852.7	19091.4
25°	20041.5	20523.8	21849.1	21093.9	18772.3	17532.4	17520.2	18316.8	20786.9	22375.3	21208.4
27.5°	22182.8	22713.9	23878.3	22711.4	19325.3	17447.1	17422.7	18141.4	21184.0	23729.7	23520.2
30°	23978.2	24494.6	25498.3	23883.2	19922.1	17646.9	17529.9	18328.9	21420.3	24609.1	25206.0
32.5°	25439.8	25854.0	26665.2	24689.5	20560.4	18034.2	17780.8	18830.8	21822.3	25352.1	26755.3
35°	27047.6	27483.7	27807.7	25456.9	21276.6	18592.0	18229.1	19627.4	22441.0	26107.3	28453.2
37.5°	28882.0	29315.6	29276.6	26158.5	22185.2	19515.3	19283.9	20889.3	23403.3	26855.2	30348.5
40°	30677.4	31120.7	30804.0	26925.8	23252.2	21037.9	20867.3	22784.5	24691.9	27812.5	32570.2
42.5°	32358.2	32838.1	32160.9	27651.8	24523.9	22957.5	23249.8	25225.4	26304.6	28991.6	34484.9
45°	33712.7	34202.3	33298.6	28358.2	25863.7	25286.3	26165.8	27929.5	28243.7	29988.0	35778.5
47.5°	34696.9	35159.7	34087.8	29064.7	27578.7	28134.1	29666.4	30765.1	29995.3	30852.8	36696.9
50°	35325.4	35685.9	34319.3	29949.0	29829.6	31456.9	33313.2	33849.1	31644.5	31632.3	37812.6
52.5°	35724.9	35888.1	34489.8	30872.2	32178.0	35074.5	36884.5	37052.5	33342.4	32489.8	39315.6
55°	37101.3	37232.8	35698.1	31990.4	34119.5	38243.8	40114.7	39958.8	35264.5	34168.2	41089.1
57.5°	39449.6	39588.5	38195.1	33598.2	35690.8	40202.4	42455.7	42735.9	37517.8	36526.3	42989.2
60°	40628.7	40886.9	40389.9	35634.7	37213.3	41454.5	44051.4	44945.4	40333.9	39634.8	44830.9
62.5°	39559.2	39934.4	40655.5	37893.0	38726.1	42143.9	44548.3	45737.1	43218.2	43257.2	45966.1
65°	37425.3	37724.9	38947.8	39130.5	39603.1	42058.7	43320.5	44631.1	44984.4	46584.9	45905.2
67.5°	34847.9	34960.0	35997.7	39227.9	38331.5	39495.9	39632.3	40601.9	43588.5	47763.9	44061.1
70°	31137.8	31198.7	32104.9	35966.1	32940.5	33196.2	32994.1	33191.4	37474.0	44891.8	39405.8
72.5°	25059.8	25213.3	26501.9	29868.6	23997.7	23259.5	24847.9	24760.2	28860.1	37927.1	29266.9
75°	18450.8	18716.3	20662.7	24058.6	16842.9	15235.1	16394.7	16704.1	20516.5	29337.5	18302.2
77.5°	12918.4	13115.8	15001.3	17685.8	12190.1	10894.1	10475.1	10842.9	13542.1	21223.0	9220.5
80°	7442.2	7515.3	8718.7	10212.0	8214.4	9398.3	8514.0	8767.4	8114.5	9442.2	3965.9
82.5°	4869.7	4881.9	5352.0	6078.0	5115.7	5944.0	4399.5	5624.9	4991.5	3793.0	1291.1
85°	2630.9	2645.6	3103.5	4314.3	2896.5	1637.0	962.2	1975.6	3086.5	869.7	353.2
87.5°	289.9	265.5	935.4	1568.8	803.9	148.6	51.2	221.7	494.5	56.0	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°	17252.2	17252.2	17252.2	17252.2	17252.2	17252.2	17252.2	17252.2	17252.2	17252.2	17252.2
2.5°	18448.3	18246.1	17741.9	17208.4	16779.6	16377.7	15973.3	15478.8	15096.3	15018.3	14891.7
5°	18053.7	17413.0	16355.7	15293.6	14438.6	13359.4	12674.8	12141.3	11620.0	11588.4	11483.6
7.5°	16674.9	15832.0	14343.5	12874.6	11671.2	10643.2	9605.4	8911.1	8365.4	8173.0	8058.5
10°	15349.6	14402.0	12543.3	10867.3	9793.0	8884.3	8153.5	7427.6	6769.8	6316.7	6112.1
12.5°	14423.9	13376.4	11327.7	9883.1	9113.3	8251.0	7359.4	6453.1	5695.5	5149.8	4816.1
15°	14065.8	12947.7	10920.9	9493.3	8543.3	7451.9	6311.8	5276.5	4436.1	3941.6	3641.9
17.5°	14492.1	13191.3	10889.2	9018.3	7690.7	6333.8	5074.3	3851.4	3059.7	2684.5	2492.1
20°	15573.8	13966.0	10877.0	8436.1	6677.3	5008.5	3437.3	2533.5	2053.6	1844.1	1754.0
22.5°	17103.6	14955.0	10974.5	7861.2	5622.4	3578.6	2372.7	1861.2	1615.1	1503.1	1451.9
25°	19071.9	16343.6	11249.7	7339.9	4631.0	2669.9	1849.0	1559.1	1386.1	1298.4	1261.9
27.5°	21169.4	17941.6	11678.5	6886.8	3824.6	2129.1	1583.4	1335.0	1210.7	1149.8	1115.7
30°	22899.0	19793.0	12112.1	6382.5	3240.0	1856.3	1449.5	1218.0	1074.3	1035.3	1003.7
32.5°	24411.8	21193.8	12419.1	5926.9	2857.5	1649.2	1310.6	1088.9	991.5	916.0	881.9
35°	25978.2	22360.6	12409.3	5607.8	2594.4	1493.3	1193.7	974.4	857.5	769.8	743.0
37.5°	27673.7	23678.5	12197.4	5335.0	2479.9	1369.1	1127.9	913.5	796.6	708.9	674.8
40°	29659.1	25062.2	11980.6	5079.2	2448.2	1269.2	1081.6	864.8	740.6	655.3	621.2
42.5°	31593.3	26309.5	11790.6	4889.2	2311.8	1266.8	1040.2	828.3	696.7	613.9	574.9
45°	33140.2	27471.5	11754.0	4774.7	2168.1	1310.6	1018.3	803.9	662.6	579.8	543.2
47.5°	34426.5	28733.4	11987.9	4694.3	2031.7	1196.1	1071.9	786.8	630.9	550.6	509.1
50°	35956.3	30282.7	12538.4	4562.7	1887.9	1076.7	1227.8	791.7	604.1	521.3	477.5
52.5°	38090.3	32426.5	13347.2	4341.1	1690.6	967.1	1208.3	796.6	574.9	489.6	445.8
55°	40482.5	35103.7	14216.9	3973.2	1415.4	823.4	1035.3	762.5	518.9	455.5	414.1
57.5°	42996.5	37532.4	14733.3	3534.7	1125.5	711.3	828.3	694.3	458.0	409.3	382.5
60°	43391.2	38455.7	14497.0	2996.4	894.0	618.8	613.9	706.5	409.3	360.5	341.0
62.5°	42409.4	37296.1	13354.5	2516.5	747.9	543.2	504.3	616.3	370.3	321.6	302.1
65°	40521.5	34160.9	11503.1	2268.0	694.3	465.3	419.0	433.6	324.0	280.1	263.1
67.5°	37895.4	29975.8	9444.6	2126.7	687.0	399.5	358.1	328.9	280.1	243.6	229.0
70°	32526.3	24972.1	7534.7	2048.7	667.5	336.2	302.1	268.0	233.9	207.1	194.9
72.5°	23939.2	17695.6	5861.2	1963.5	672.4	268.0	263.1	221.7	187.6	160.8	155.9
75°	13832.0	10109.7	3844.1	1590.8	640.7	207.1	219.2	155.9	131.5	112.1	112.1
77.5°	7371.5	6165.7	1464.1	662.6	233.9	131.5	124.2	92.6	82.8	68.2	65.8
80°	3213.2	2713.8	440.9	185.1	129.1	70.6	46.3	41.4	36.5	29.2	26.8
82.5°	1137.6	981.7	143.7	90.1	56.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	258.2	185.1	0.0	21.9	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°	17252.2	17252.2	17252.2	17252.2	17252.2	17252.2	17252.2	17252.2	17252.2	17252.2	17252.2
2.5°	14633.4	14579.8	14263.2	14275.3	14331.4	14411.8	14221.7	14309.4	14545.7	14772.3	14857.6
5°	11315.5	11327.7	11135.3	11254.6	11361.8	11434.9	11127.9	11132.8	11320.4	11576.2	11710.2
7.5°	7973.2	7953.8	7963.5	8248.5	8450.7	8304.5	8419.0	8022.0	8046.3	8229.0	8092.6
10°	5926.9	5659.0	5507.9	5722.3	5944.0	5863.6	5666.3	5537.2	5627.3	5829.5	5814.9
12.5°	4657.8	4272.9	4046.3	3892.8	4075.5	3924.5	3919.6	3807.6	3685.8	3707.7	4031.7
15°	3503.1	3222.9	2954.9	2708.9	2704.0	2652.9	2392.2	2099.9	2075.5	2090.1	2258.2
17.5°	2409.3	2314.3	2204.6	1992.7	1936.7	1722.3	1468.9	1352.0	1293.6	1320.3	1376.4
20°	1693.1	1656.5	1668.7	1554.2	1473.8	1269.2	1120.6	1074.3	1064.6	1091.4	1118.2
22.5°	1403.2	1337.4	1330.1	1278.9	1198.5	1049.9	969.6	942.8	930.6	954.9	974.4
25°	1227.8	1162.0	1135.2	1103.5	1018.3	916.0	867.2	842.9	830.7	845.3	857.5
27.5°	1081.6	1020.7	996.4	974.4	891.6	818.5	779.5	757.6	747.9	752.7	764.9
30°	972.0	918.4	886.7	859.9	789.3	738.1	704.0	682.1	672.4	672.4	684.5
32.5°	857.5	828.3	799.0	764.9	699.2	665.0	630.9	606.6	596.8	599.3	609.0
35°	713.8	704.0	711.3	679.7	623.6	594.4	560.3	533.5	526.2	528.6	538.4
37.5°	633.4	589.5	616.3	599.3	567.6	528.6	484.8	460.4	448.2	455.5	460.4
40°	582.2	528.6	509.1	526.2	521.3	458.0	419.0	394.6	384.9	387.3	392.2
42.5°	538.4	475.0	431.2	428.7	458.0	399.5	358.1	336.2	324.0	324.0	328.9
45°	497.0	428.7	375.2	333.7	384.9	338.6	299.6	280.1	265.5	265.5	268.0
47.5°	465.3	389.8	326.4	272.8	289.9	277.7	246.0	226.6	211.9	211.9	214.4
50°	436.1	350.8	282.6	229.0	216.8	229.0	199.8	177.8	168.1	165.7	170.5
52.5°	404.4	311.8	241.2	194.9	170.5	173.0	155.9	141.3	129.1	129.1	134.0
55°	372.7	280.1	209.5	165.7	141.3	129.1	124.2	114.5	104.8	104.8	109.6
57.5°	341.0	246.0	177.8	136.4	112.1	102.3	102.3	95.0	87.7	87.7	92.6
60°	311.8	211.9	146.2	112.1	87.7	85.3	87.7	80.4	75.5	75.5	80.4
62.5°	277.7	180.3	119.4	92.6	70.6	68.2	75.5	70.6	65.8	65.8	70.6
65°	236.3	153.5	95.0	70.6	53.6	53.6	63.3	58.5	53.6	53.6	58.5
67.5°	199.8	129.1	73.1	51.2	39.0	41.4	53.6	48.7	46.3	46.3	51.2
70°	165.7	99.9	51.2	31.7	21.9	31.7	41.4	41.4	41.4	41.4	46.3
72.5°	124.2	68.2	29.2	12.2	9.7	21.9	34.1	39.0	36.5	36.5	43.8
75°	80.4	39.0	9.7	0.0	0.0	12.2	26.8	31.7	31.7	29.2	36.5
77.5°	46.3	12.2	0.0	0.0	0.0	0.0	17.1	14.6	12.2	9.7	17.1
80°	12.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	17252.2	17252.2	17252.2	17252.2	17252.2	17252.2	17252.2	17252.2	17252.2	17252.2
2.5°	15201.0	15488.5	15892.9	16321.6	16981.8	17505.6	18019.6	18460.5	18631.0	18701.7
5°	12031.7	12453.2	13045.1	13805.2	14996.4	16068.3	17154.8	18248.6	18723.6	18843.0
7.5°	8633.4	9171.8	9924.5	10877.0	12272.9	13661.4	15179.1	16784.5	17520.2	17705.3
10°	6389.8	7047.5	7909.9	8913.6	10246.1	11673.6	13327.7	15162.1	16002.5	16248.5
12.5°	4533.5	5422.7	6577.4	7797.8	8952.5	10226.6	11900.2	13922.1	14804.0	15069.5
15°	2662.6	3522.5	4889.2	6523.8	8002.5	9293.6	10994.0	13286.3	14258.3	14526.3
17.5°	1527.4	1956.2	2989.1	4811.2	6818.5	8606.6	10708.9	13444.6	14589.6	14838.1
20°	1166.9	1303.3	1722.3	3098.7	5434.9	7931.8	10708.9	14341.1	15751.6	16117.0
22.5°	1020.7	1120.6	1291.1	1849.0	4000.0	7208.3	10833.2	15637.1	17481.2	17885.6
25°	906.2	996.4	1142.5	1391.0	2728.4	6348.4	11127.9	17227.8	19517.7	20041.5
27.5°	811.2	896.5	1028.0	1218.0	1866.0	5310.6	11525.0	19093.9	21763.8	22182.8
30°	725.9	806.3	925.7	1059.7	1439.7	4134.0	11863.6	20852.7	23527.5	23978.2
32.5°	645.6	718.6	825.8	925.7	1179.1	3057.3	11900.2	22246.1	24991.6	25439.8
35°	570.0	635.8	733.3	811.2	976.9	2414.1	11332.6	23454.4	26455.7	27047.6
37.5°	497.0	560.3	645.6	704.0	859.9	1968.3	10465.3	24801.6	28333.9	28882.0
40°	428.7	484.8	572.5	611.5	813.6	1512.8	9522.6	26214.5	30175.5	30677.4
42.5°	365.4	419.0	504.3	579.8	713.8	1130.3	8504.3	27539.7	31832.1	32358.2
45°	304.5	360.5	445.8	613.9	592.0	845.3	7415.4	28419.1	33140.2	33712.7
47.5°	246.0	309.4	426.3	584.7	472.6	621.2	6553.0	29252.3	34131.7	34696.9
50°	197.3	260.7	479.9	521.3	387.3	475.0	6192.5	29997.7	34782.1	35325.4
52.5°	160.8	219.2	453.1	399.5	324.0	392.2	6387.4	31206.0	35383.8	35724.9
55°	134.0	173.0	272.8	277.7	275.3	333.7	6628.5	32940.5	36940.5	37101.3
57.5°	116.9	138.9	190.0	214.4	231.4	297.2	6633.4	35430.1	39349.7	39449.6
60°	99.9	121.8	158.3	173.0	199.8	265.5	6392.2	36299.8	40297.4	40628.7
62.5°	87.7	107.2	131.5	143.7	168.1	238.7	5827.1	35040.4	38996.5	39559.2
65°	78.0	97.4	109.6	121.8	148.6	214.4	4896.5	32521.5	36838.2	37425.3
67.5°	68.2	85.3	97.4	109.6	134.0	190.0	3605.4	29595.7	34360.7	34847.9
70°	60.9	75.5	87.7	97.4	116.9	160.8	2187.6	25113.4	30935.6	31137.8
72.5°	58.5	68.2	80.4	87.7	102.3	141.3	1108.4	18455.6	24730.9	25059.8
75°	51.2	60.9	73.1	78.0	90.1	121.8	450.7	12121.9	17922.1	18450.8
77.5°	41.4	56.0	65.8	70.6	78.0	99.9	229.0	7746.7	12577.4	12918.4
80°	14.6	41.4	56.0	58.5	65.8	73.1	151.0	4241.2	7296.0	7442.2
82.5°	0.0	26.8	43.8	41.4	46.3	56.0	97.4	2017.1	4816.1	4869.7
85°	0.0	12.2	34.1	26.8	19.5	39.0	34.1	440.9	2526.2	2630.9
87.5°	0.0	0.0	2.4	12.2	9.7	14.6	4.9	2.4	229.0	289.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)