

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: P324498

Luminaire Tested: **GAN-SA4D-740-U-SLR-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P324498
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-SA4D-740-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 4000K, 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: 23202 lumens
Efficiency: N/A
Efficacy: 89.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B2 - U0 - G4

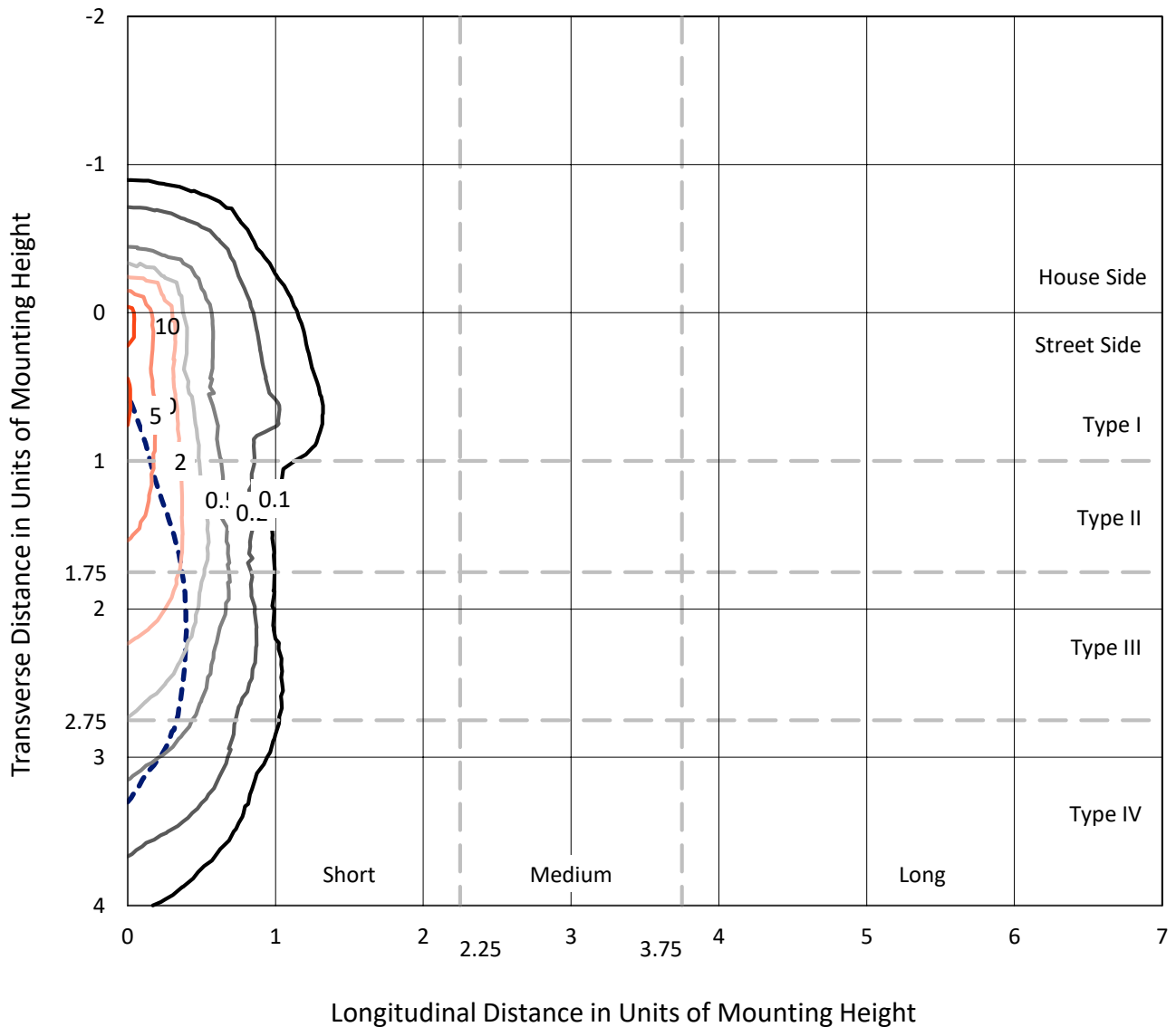
Input Watts (W): 258
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

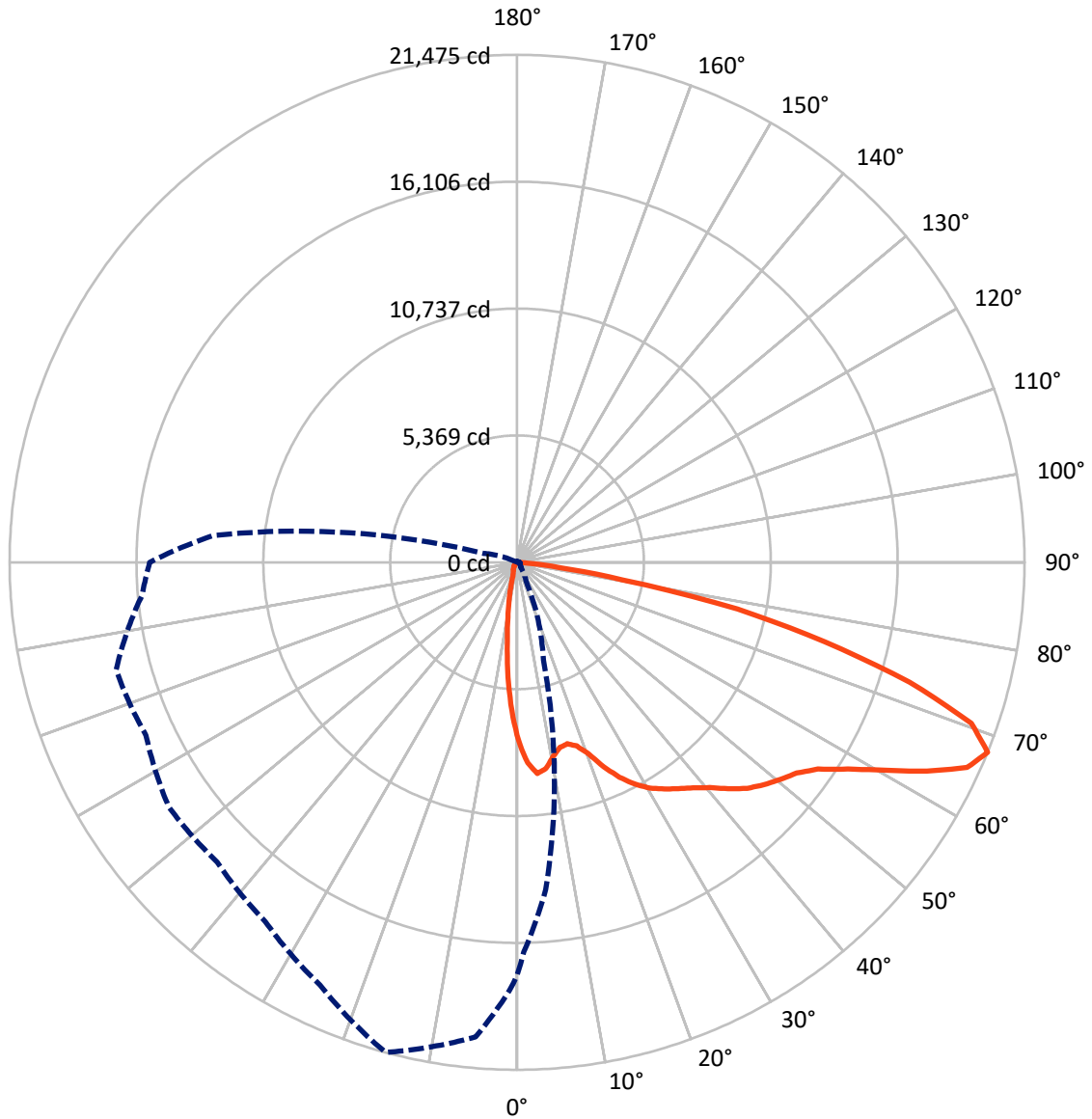
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.1 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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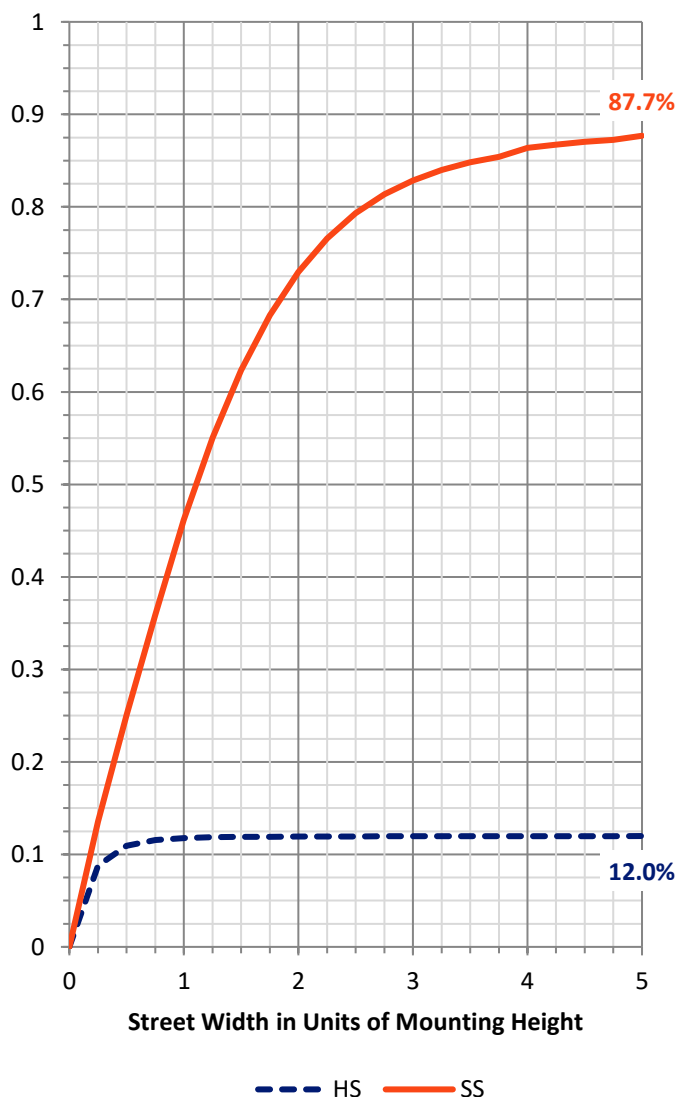
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2808.2	0.0	2808.2
	% Fixture	12.1	0.0	12.1
Street Side	Lumens	20393.8	0.0	20393.8
	% Fixture	87.9	0.0	87.9
Total	Lumens	23202.0	0.0	23202.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	580.1	2.5
10°-20°	1154.6	5.0
20°-30°	1639.6	7.1
30°-40°	2421.7	10.4
40°-50°	3492.6	15.1
50°-60°	4903.0	21.1
60°-70°	5715.4	24.6
70°-80°	2921.8	12.6
80°-90°	373.2	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°	23202.0	100.0
0°-180°	23202.0	100.0

Coefficient of Utilization

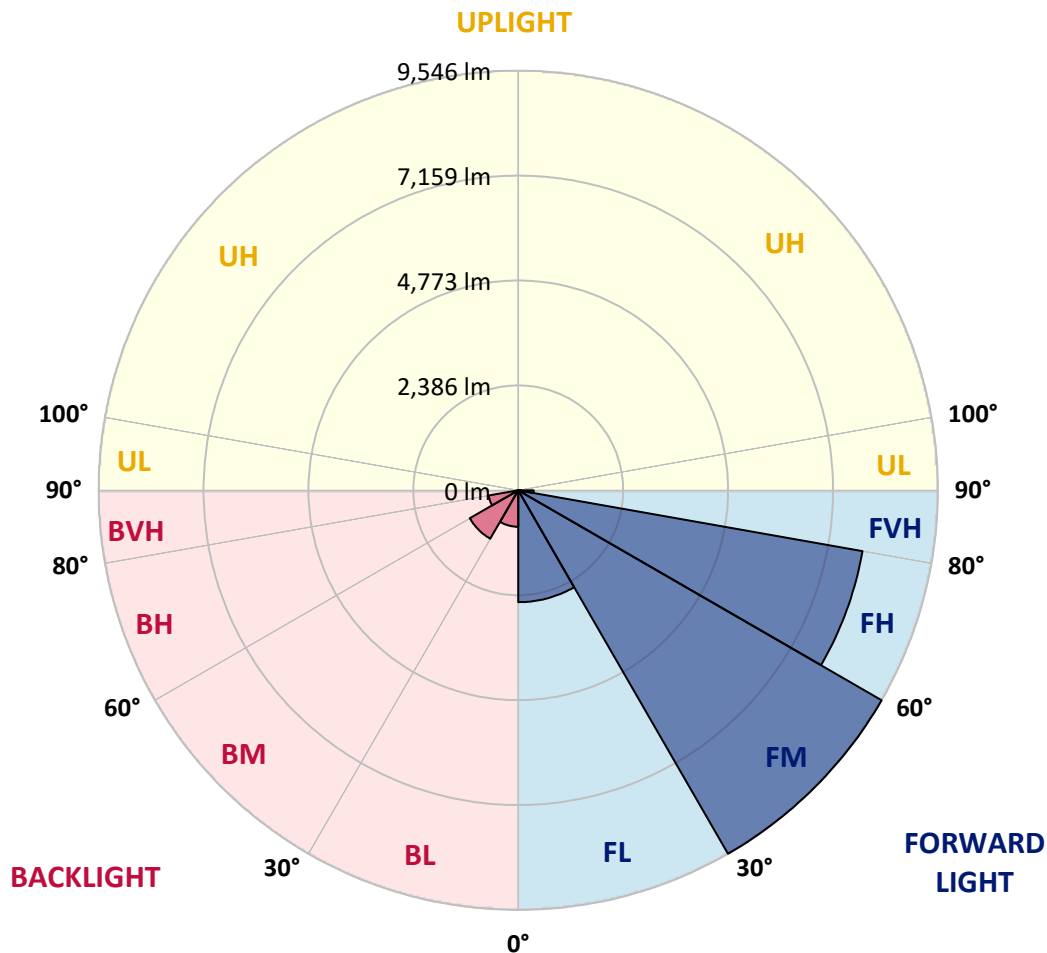


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2544.8	11.0			
FM (30°-60°)	9545.7	41.1			
FH (60°-80°)	7952.8	34.3			G4/12000
FVH (80°-90°)	350.5	1.5			G3/500
BL (0°-30°)	829.4	3.6	B2/1000		
BM (30°-60°)	1271.6	5.5	B2/2500		
BH (60°-80°)	684.5	2.9	B2/1000		G2/1000
BVH (80°-90°)	22.7	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4
 Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	7558.0	7558.0	7558.0	7558.0	7558.0	7558.0	7558.0	7558.0	7558.0	7558.0	7558.0
2.5°	8275.8	8212.0	8141.7	7911.9	7698.7	7454.7	7255.7	7117.2	6943.6	6718.2	6661.1
5°	8216.4	8148.3	7927.3	7416.2	6968.8	6533.6	6113.7	5867.5	5561.9	5251.9	5175.0
7.5°	7619.6	7548.1	7229.4	6529.2	5926.8	5298.1	4752.9	4415.4	4070.3	3786.7	3636.1
10°	6998.5	6920.5	6562.1	5712.5	4970.5	4402.2	4002.1	3680.1	3353.6	3050.2	2808.4
12.5°	6570.9	6468.7	6079.6	5116.7	4470.4	4084.6	3710.9	3325.0	2883.2	2557.8	2291.8
15°	6391.8	6275.3	5864.2	4887.0	4293.4	3840.6	3353.6	2879.9	2362.2	1989.5	1745.5
17.5°	6530.3	6378.6	5937.8	4871.6	4071.4	3454.7	2839.2	2283.0	1721.3	1344.3	1170.6
20°	7000.7	6801.8	6242.3	4867.2	3802.1	2996.4	2216.0	1587.2	1134.4	912.3	821.1
22.5°	7741.6	7478.9	6679.8	4902.4	3524.0	2514.9	1600.4	1078.3	851.9	736.5	682.6
25°	8636.3	8331.8	7309.6	5026.6	3280.0	2046.7	1162.9	851.9	718.9	634.2	589.2
27.5°	9487.1	9239.8	8105.4	5205.7	3090.9	1668.6	944.2	722.2	614.4	558.4	522.1
30°	10336.8	10025.7	8922.1	5419.0	2863.4	1412.5	829.9	658.4	550.7	491.3	468.3
32.5°	10954.5	10696.2	9561.8	5572.9	2620.5	1245.4	742.0	602.4	514.4	454.0	419.9
35°	11681.1	11388.7	10110.3	5607.0	2464.4	1139.9	667.2	541.9	446.3	392.4	356.1
37.5°	12465.9	12102.0	10743.5	5532.2	2342.4	1088.2	611.1	514.4	416.6	361.6	323.2
40°	13334.2	12923.1	11351.3	5424.5	2222.6	1070.6	568.3	493.5	393.5	337.5	297.9
42.5°	14248.8	13764.0	11877.8	5311.3	2146.7	1010.2	563.9	472.7	375.9	315.5	275.9
45°	15017.1	14525.8	12418.6	5273.9	2092.9	944.2	582.6	458.4	363.8	297.9	259.4
47.5°	15629.3	15164.4	12972.6	5357.4	2062.1	883.7	530.9	477.0	357.2	282.5	245.1
50°	16360.3	15833.8	13753.0	5607.0	2017.0	823.3	480.3	456.3	357.2	272.6	233.0
52.5°	17277.0	16756.0	14623.6	5993.9	1926.9	739.8	432.0	457.4	360.5	259.4	217.6
55°	18430.1	18051.9	15866.8	6418.2	1782.9	616.6	373.7	470.5	347.3	235.2	203.3
57.5°	19535.8	19227.0	17000.0	6708.3	1590.5	481.4	325.4	379.2	317.7	206.6	181.4
59°	19838.1	19500.7	17415.5	6721.5	1446.5	419.9	301.2	313.3	311.1	193.5	168.2
60°	19838.1	19479.8	17535.3	6651.2	1342.1	385.8	285.8	279.2	324.3	184.7	160.5
62.5°	19478.7	18975.3	17146.2	6175.2	1094.8	328.7	249.5	230.8	291.3	166.0	141.8
65°	18731.2	17998.1	15820.6	5314.6	976.1	301.2	215.4	189.1	202.3	146.2	124.2
67.5°	17484.8	16491.1	13909.1	4293.4	928.8	293.5	185.8	160.5	152.8	125.3	108.8
70°	15289.7	14187.2	11588.7	3375.6	888.1	290.2	156.1	135.2	123.1	105.5	92.3
72.5°	11128.2	9978.4	8227.4	2639.1	864.0	296.8	125.3	113.2	101.1	82.4	71.4
75°	6365.4	5612.4	4624.3	1743.3	736.5	283.6	96.7	94.5	72.5	59.4	49.5
77.5°	3288.8	3188.7	2771.0	669.4	352.8	124.2	63.8	55.0	42.9	36.3	29.7
80°	1419.1	1403.7	1214.6	193.5	93.4	69.2	36.3	23.1	19.8	15.4	12.1
82.5°	490.2	490.2	432.0	64.9	41.8	34.1	4.4	0.0	0.0	0.0	0.0
85°	98.9	111.0	78.0	0.0	14.3	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°	7558.0	7558.0	7558.0	7558.0	7558.0	7558.0	7558.0	7558.0	7558.0	7558.0	7558.0
2.5°	6591.8	6458.8	6450.0	6366.5	6262.1	6214.8	6187.3	6235.7	6295.0	6301.6	6390.7
5°	5116.7	4977.1	5035.4	4887.0	4916.7	4887.0	4838.6	4847.4	4873.8	4791.4	4893.6
7.5°	3593.2	3487.7	3554.8	3515.2	3568.0	3588.8	3559.2	3515.2	3385.5	3370.1	3459.1
10°	2708.4	2588.6	2517.1	2442.4	2458.9	2493.0	2482.0	2450.1	2367.6	2372.0	2457.8
12.5°	2176.4	2042.3	1900.5	1716.9	1671.9	1697.1	1671.9	1653.2	1574.0	1580.6	1656.5
15°	1651.0	1541.1	1392.7	1245.4	1165.1	1172.8	1102.5	1053.0	1003.6	944.2	990.4
17.5°	1114.6	1047.5	1003.6	959.6	864.0	842.0	752.9	657.3	619.9	592.5	612.2
20°	789.2	752.9	735.4	733.2	678.2	650.7	563.9	504.5	485.8	480.3	492.4
22.5°	659.5	633.1	607.9	593.6	566.1	534.2	468.3	438.6	425.4	418.8	427.6
25°	573.8	554.0	527.6	503.4	492.4	458.4	411.1	389.1	380.3	373.7	378.1
27.5°	510.0	492.4	461.7	446.3	437.5	407.8	367.1	349.5	341.8	339.6	338.5
30°	459.5	443.0	414.4	396.8	381.4	355.0	330.9	313.3	305.6	303.4	301.2
32.5°	408.9	395.7	377.0	359.4	342.9	318.8	297.9	283.6	271.5	269.3	268.2
35°	345.1	332.0	322.1	321.0	305.6	282.5	267.1	248.4	238.5	235.2	236.3
37.5°	306.7	289.1	267.1	274.8	270.4	253.9	233.0	214.3	204.4	202.3	202.3
40°	282.5	263.8	238.5	225.3	238.5	235.2	202.3	183.6	173.7	172.6	170.4
42.5°	259.4	240.7	212.1	190.2	196.8	206.6	174.8	157.2	147.3	145.1	141.8
45°	242.9	223.1	191.3	166.0	152.8	173.7	149.5	127.5	122.0	117.6	115.4
47.5°	227.5	208.8	172.6	144.0	122.0	125.3	119.8	104.4	97.8	93.4	92.3
50°	214.3	194.6	156.1	123.1	101.1	92.3	96.7	82.4	76.9	72.5	70.3
52.5°	199.0	180.3	138.5	106.6	84.6	72.5	73.6	64.9	59.4	56.1	55.0
55°	186.9	168.2	124.2	93.4	74.7	59.4	52.8	50.6	47.3	45.1	44.0
57.5°	170.4	152.8	109.9	79.1	63.8	48.4	40.7	40.7	39.6	37.4	36.3
59°	160.5	145.1	101.1	71.4	58.3	41.8	36.3	37.4	36.3	34.1	33.0
60°	152.8	138.5	94.5	66.0	55.0	38.5	33.0	35.2	34.1	31.9	30.8
62.5°	135.2	125.3	81.3	55.0	48.4	30.8	27.5	29.7	29.7	28.6	27.5
65°	118.7	107.7	69.2	46.2	45.1	26.4	22.0	26.4	27.5	25.3	23.1
67.5°	103.3	92.3	60.5	37.4	41.8	20.9	16.5	22.0	29.7	23.1	20.9
70°	87.9	76.9	47.3	29.7	44.0	14.3	13.2	19.8	35.2	25.3	19.8
72.5°	68.1	59.4	33.0	22.0	47.3	9.9	9.9	16.5	39.6	27.5	18.7
75°	47.3	38.5	19.8	13.2	38.5	6.6	6.6	15.4	37.4	25.3	17.6
77.5°	27.5	20.9	6.6	1.1	19.8	0.0	1.1	11.0	26.4	15.4	7.7
80°	9.9	4.4	0.0	0.0	12.1	0.0	0.0	0.0	2.2	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°	7558.0	7558.0	7558.0	7558.0	7558.0	7558.0	7558.0	7558.0	7558.0	7558.0	7558.0
2.5°	6413.8	6562.1	6695.1	6896.3	7134.8	7409.6	7645.9	7899.9	8138.4	8237.3	8305.5
5°	4914.5	5098.0	5312.4	5608.1	6001.6	6486.3	6940.3	7453.6	8005.4	8281.3	8540.7
7.5°	3474.5	3661.4	3927.4	4241.8	4717.7	5294.8	5888.3	6597.3	7344.8	7781.1	8210.9
10°	2498.5	2728.2	2976.6	3406.4	3890.0	4437.4	5048.6	5840.0	6673.2	7156.8	7674.5
12.5°	1700.4	1962.0	2338.0	2819.4	3387.7	3924.1	4455.0	5210.1	6177.4	6656.7	7211.8
15°	1020.0	1165.1	1563.0	2120.3	2817.2	3485.5	4067.0	4824.3	5855.4	6442.3	7019.4
17.5°	628.7	695.8	912.3	1369.6	2101.6	2946.9	3743.8	4693.5	5901.5	6616.0	7233.7
20°	501.2	527.6	596.9	809.0	1392.7	2353.4	3380.0	4667.1	6278.6	7157.9	7820.7
22.5°	435.3	460.6	506.7	588.1	876.1	1762.0	3034.9	4691.3	6819.4	7970.2	8744.0
25°	383.6	405.6	449.6	516.6	641.9	1241.0	2665.5	4799.0	7523.9	8978.2	9800.3
27.5°	342.9	361.6	402.3	463.9	550.7	866.2	2246.7	4929.9	8359.3	10009.2	10820.4
30°	305.6	322.1	358.3	415.5	478.1	666.1	1787.3	5018.9	9195.8	10820.4	11549.2
32.5°	273.7	285.8	318.8	367.1	415.5	530.9	1358.6	5004.6	9816.8	11495.3	12073.5
35°	240.7	252.8	281.4	323.2	361.6	438.6	1068.4	4737.5	10357.6	12195.5	12673.6
37.5°	204.4	219.8	247.3	284.7	311.1	385.8	864.0	4415.4	10906.1	12995.7	13343.0
40°	173.7	189.1	213.2	253.9	270.4	366.0	663.9	4023.0	11522.8	13890.4	14077.3
42.5°	144.0	158.3	183.6	218.7	255.0	315.5	491.3	3574.6	12115.2	14655.5	14746.7
45°	116.5	130.8	157.2	192.4	272.6	261.6	380.3	3094.2	12593.4	15291.9	15321.6
47.5°	92.3	105.5	133.0	181.4	253.9	208.8	271.5	2717.2	12994.6	15788.7	15710.7
50°	71.4	82.4	111.0	207.7	222.0	172.6	205.5	2591.9	13354.0	16096.5	15894.2
52.5°	56.1	66.0	91.2	194.6	172.6	142.9	172.6	2709.5	13846.5	16351.5	15997.6
55°	45.1	55.0	71.4	111.0	117.6	120.9	147.3	2819.4	14696.1	16949.5	16607.6
57.5°	37.4	47.3	58.3	78.0	89.0	102.2	130.8	2831.5	15697.5	17943.1	17620.0
59°	34.1	42.9	52.8	69.2	78.0	93.4	123.1	2765.6	16050.3	18304.8	18143.2
60°	31.9	40.7	49.5	63.8	72.5	87.9	118.7	2702.9	16065.7	18291.6	18366.3
62.5°	27.5	36.3	44.0	53.9	61.6	74.7	106.6	2471.0	15415.0	17692.5	18232.2
65°	24.2	31.9	39.6	46.2	52.8	67.1	96.7	2047.8	14303.7	16726.3	17314.4
67.5°	22.0	27.5	36.3	40.7	47.3	59.4	85.7	1459.7	12915.4	15544.7	15926.1
70°	19.8	26.4	33.0	37.4	42.9	51.7	73.6	838.7	10906.1	13814.6	14086.1
72.5°	18.7	25.3	29.7	35.2	38.5	46.2	67.1	394.6	7985.6	11066.6	11775.6
75°	16.5	23.1	27.5	33.0	36.3	41.8	57.2	189.1	5311.3	8008.7	8814.4
77.5°	9.9	18.7	25.3	29.7	31.9	36.3	47.3	108.8	3389.9	5543.2	6529.2
80°	0.0	6.6	18.7	25.3	27.5	30.8	36.3	85.7	1813.7	3166.8	3801.0
82.5°	0.0	0.0	13.2	19.8	18.7	20.9	27.5	53.9	817.8	2069.8	2332.5
85°	0.0	0.0	4.4	15.4	13.2	9.9	18.7	18.7	179.2	1047.5	1306.9
87.5°	0.0	0.0	0.0	1.1	6.6	4.4	7.7	2.2	1.1	78.0	316.6
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°	7558.0	7558.0	7558.0	7558.0	7558.0	7558.0	7558.0	7558.0	7558.0	7558.0
2.5°	8544.0	8625.3	8762.7	8827.6	8795.7	8660.5	8498.9	8334.0	8237.3	8275.8
5°	9069.4	9488.2	9730.0	9810.2	9676.1	9372.8	8976.0	8452.7	8267.0	8216.4
7.5°	9069.4	9857.5	10356.5	10444.5	10145.5	9550.8	8806.7	7990.0	7718.5	7619.6
10°	8750.6	9823.4	10519.2	10658.8	10241.1	9351.9	8354.9	7422.8	7100.7	6998.5
12.5°	8391.2	9546.4	10279.6	10472.0	10129.0	9154.0	8041.7	7039.2	6660.0	6570.9
15°	8170.3	9205.7	9812.4	9952.0	9806.9	9038.6	7966.9	6923.8	6477.5	6391.8
17.5°	8249.4	8941.9	9160.6	9242.0	9339.8	8997.9	8170.3	7176.6	6611.6	6530.3
20°	8547.3	8663.8	8550.6	8652.8	8916.6	9037.5	8655.0	7787.7	7109.5	7000.7
22.5°	9052.9	8519.8	8202.1	8242.8	8563.8	9168.3	9395.8	8660.5	7877.9	7741.6
25°	9642.1	8636.3	8008.7	7972.4	8302.2	9340.9	10072.9	9610.2	8786.9	8636.3
27.5°	10382.9	8897.9	7969.1	7932.8	8210.9	9502.5	10635.7	10548.9	9744.3	9487.1
30°	10954.5	9155.1	8086.7	8003.2	8302.2	9614.6	11087.5	11345.8	10507.1	10336.8
32.5°	11364.5	9458.5	8278.0	8157.1	8559.4	9808.0	11435.9	12075.7	11212.8	10954.5
35°	11676.7	9788.3	8586.8	8387.9	8913.3	10101.5	11762.4	12852.8	11963.5	11681.1
37.5°	11969.0	10251.0	9069.4	8832.0	9468.4	10574.2	12107.5	13734.3	12803.3	12465.9
40°	12376.8	10775.3	9813.5	9602.5	10401.6	11218.3	12538.4	14653.3	13758.5	13334.2
42.5°	12784.6	11338.1	10575.3	10632.4	11565.6	12000.9	13094.6	15624.9	14701.6	14248.8
45°	13157.3	11918.5	11660.2	11924.0	12646.1	12859.4	13647.5	16186.6	15454.6	15017.1
47.5°	13489.2	12643.9	12738.5	13440.9	13875.0	13636.5	14060.8	16671.4	16015.2	15629.3
50°	13875.0	13582.7	14159.7	15153.4	15289.7	14340.0	14436.7	17245.1	16670.3	16360.3
52.5°	14297.1	14571.9	15733.8	16609.8	16565.8	15103.9	14814.8	17888.2	17568.3	17277.0
55°	14776.4	15371.0	17119.8	17972.8	17935.4	15956.9	15441.4	18682.9	18693.9	18430.1
57.5°	15487.5	16059.1	18060.7	19075.3	19137.9	16941.8	16503.2	19573.2	19711.7	19535.8
59°	15997.6	16505.4	18433.4	19535.8	19790.9	17703.5	17279.2	20089.8	19998.6	19838.1
60°	16375.7	16789.0	18618.0	19776.6	20170.1	18220.1	17851.9	20393.2	20032.7	19838.1
62.5°	17311.1	17406.7	18951.1	20049.2	20606.5	19367.7	19463.3	20909.8	19796.4	19478.7
65°	17747.5	17796.9	18946.7	19561.1	20184.4	20261.3	20925.2	20925.2	19219.3	18731.2
67.5°	17565.0	17326.5	18006.9	17943.1	18565.3	19730.4	21474.8	20158.0	18115.7	17484.8
70°	16081.1	15163.3	14861.0	14888.5	15364.4	17161.6	20386.6	17900.3	16027.2	15289.7
72.5°	13380.4	11178.7	10432.4	11284.3	11408.5	13189.1	17373.7	13480.4	11819.6	11128.2
75°	10762.1	7880.1	6666.6	7565.7	7776.7	9652.0	13439.8	8395.6	6904.0	6365.4
77.5°	7731.7	5656.4	4783.7	4721.0	4993.6	6121.4	9536.5	4225.3	3524.0	3288.8
80°	4392.4	3722.9	4008.7	3782.3	3919.7	3827.4	4530.8	1853.2	1518.0	1419.1
82.5°	2651.2	2200.6	2383.0	1984.0	2510.5	2186.3	1745.5	593.6	515.5	490.2
85°	1724.6	1202.5	626.5	419.9	865.1	1397.1	390.2	161.6	124.2	98.9
87.5°	594.7	306.7	30.8	13.2	92.3	260.5	14.3	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)