

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: P324418

Luminaire Tested: **GAN-SA4D-727-U-SLR-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P324418
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-727-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 2700K, 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: 19403 lumens
Efficiency: N/A
Efficacy: 75.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B2 - U0 - G3

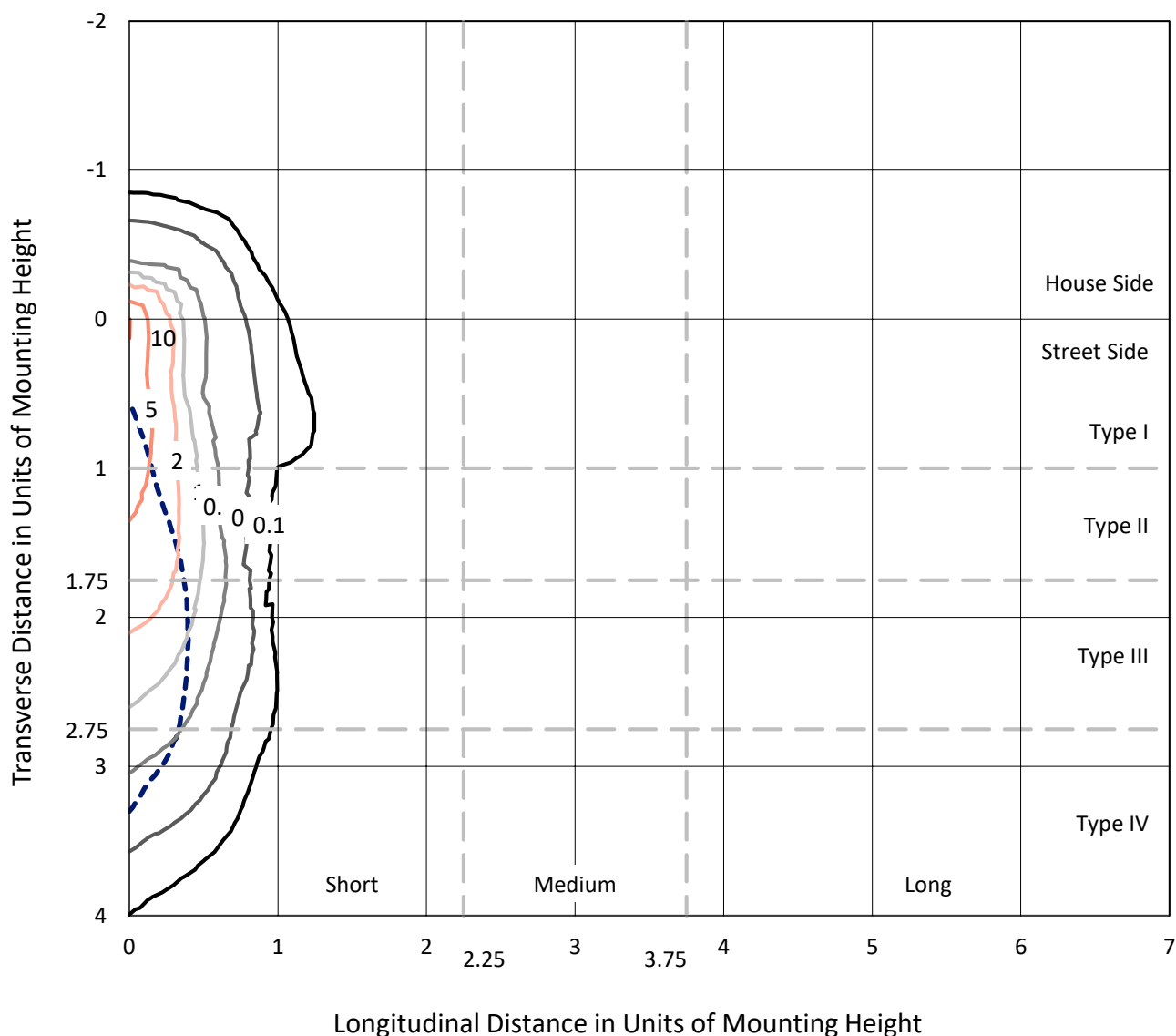
Input Watts (W): 258
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

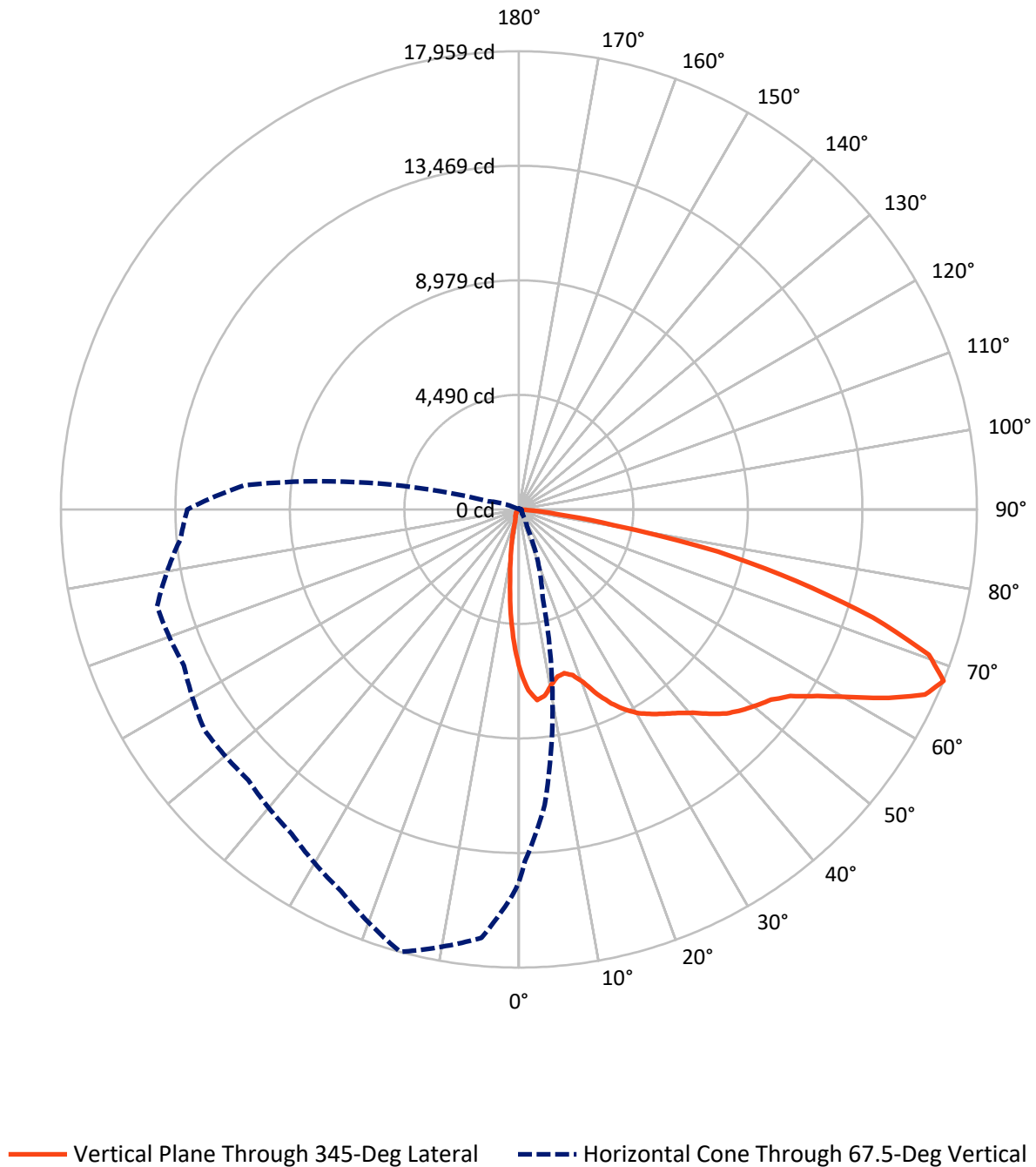
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.1 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	2348.4	0.0	2348.4
	% Fixture	12.1	0.0	12.1
Street Side	Lumens	17054.6	0.0	17054.6
	% Fixture	87.9	0.0	87.9
Total	Lumens	19403.0	0.0	19403.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	485.1	2.5
10°-20°	965.6	5.0
20°-30°	1371.1	7.1
30°-40°	2025.2	10.4
40°-50°	2920.8	15.1
50°-60°	4100.2	21.1
60°-70°	4779.6	24.6
70°-80°	2443.4	12.6
80°-90°	312.1	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°	19403.0	100.0
0°-180°	19403.0	100.0

Coefficient of Utilization



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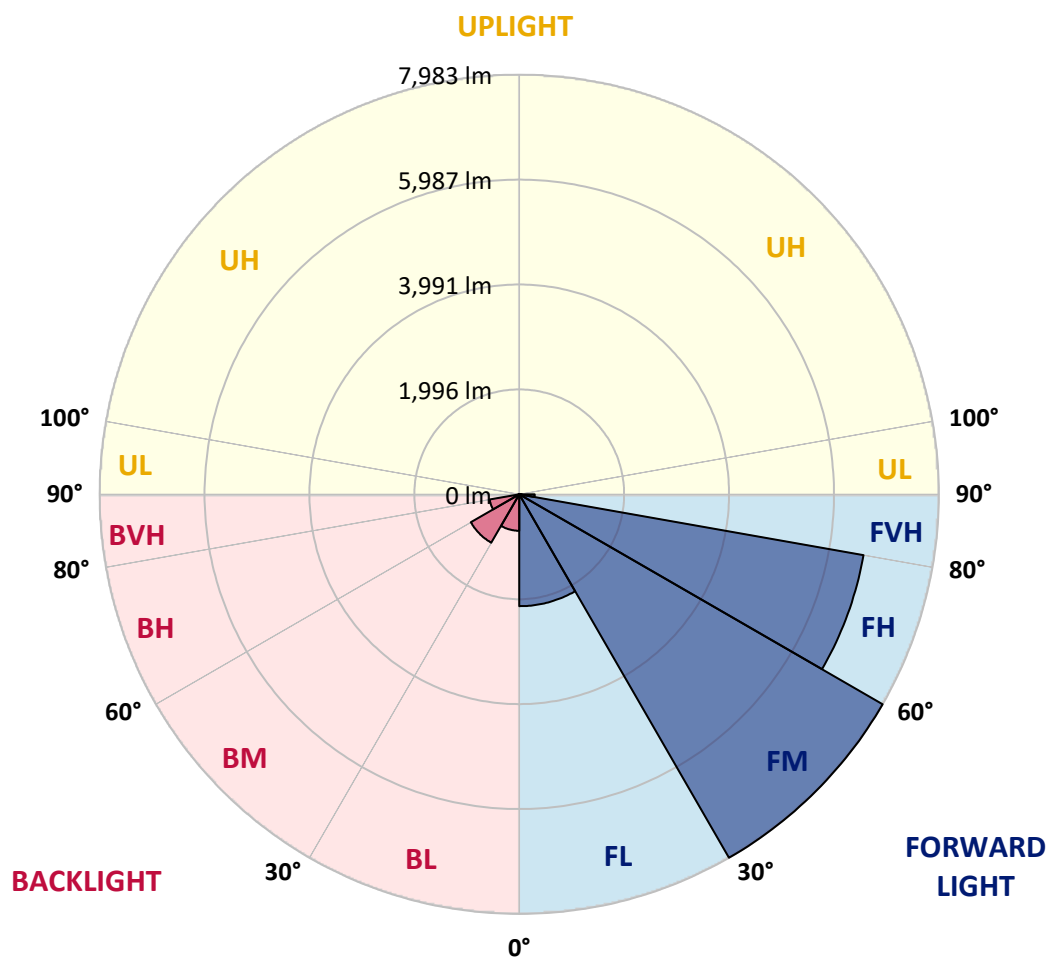
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2128.1	11.0			
FM	(30°-60°)	7982.7	41.1			
FH	(60°-80°)	6650.7	34.3			G3/7500
FVH	(80°-90°)	293.1	1.5			G3/500
BL	(0°-30°)	693.6	3.6	B2/1000		
BM	(30°-60°)	1063.4	5.5	B2/2500		
BH	(60°-80°)	572.4	2.9	B2/1000		G2/1000
BVH	(80°-90°)	19.0	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	6320.5	6320.5	6320.5	6320.5	6320.5	6320.5	6320.5	6320.5	6320.5	6320.5	6320.5
2.5°	6920.7	6867.4	6808.6	6616.5	6438.2	6234.1	6067.7	5951.9	5806.7	5618.2	5570.4
5°	6871.1	6814.1	6629.3	6201.9	5827.8	5463.8	5112.6	4906.7	4651.2	4392.0	4327.6
7.5°	6372.0	6312.2	6045.6	5460.1	4956.4	4430.6	3974.7	3692.5	3403.8	3166.7	3040.7
10°	5852.6	5787.3	5487.7	4777.1	4156.7	3681.4	3346.8	3077.5	2804.5	2550.8	2348.6
12.5°	5495.0	5409.6	5084.2	4278.9	3738.4	3415.8	3103.3	2780.6	2411.1	2139.0	1916.6
15°	5345.2	5247.8	4904.0	4086.8	3590.4	3211.7	2804.5	2408.3	1975.4	1663.8	1459.7
17.5°	5461.0	5334.2	4965.6	4073.9	3404.8	2889.1	2374.3	1909.2	1439.5	1124.2	979.0
20°	5854.5	5688.1	5220.2	4070.3	3179.5	2505.8	1853.1	1327.3	948.6	762.9	686.7
22.5°	6474.0	6254.3	5586.0	4099.7	2947.0	2103.2	1338.4	901.7	712.4	615.9	570.8
25°	7222.2	6967.6	6112.7	4203.5	2742.9	1711.6	972.5	712.4	601.2	530.4	492.7
27.5°	7933.7	7726.9	6778.3	4353.4	2584.8	1395.4	789.6	603.9	513.8	467.0	436.6
30°	8644.3	8384.1	7461.2	4531.7	2394.5	1181.2	694.0	550.6	460.5	410.9	391.6
32.5°	9160.9	8944.8	7996.2	4660.4	2191.4	1041.5	620.5	503.7	430.2	379.6	351.1
35°	9768.4	9523.9	8454.9	4688.9	2060.9	953.2	558.0	453.2	373.2	328.2	297.8
37.5°	10424.8	10120.5	8984.4	4626.4	1958.8	910.0	511.1	430.2	348.4	302.4	270.2
40°	11150.9	10807.2	9492.7	4536.3	1858.6	895.3	475.2	412.7	329.1	282.2	249.1
42.5°	11915.7	11510.4	9933.0	4441.6	1795.2	844.8	471.6	395.3	314.4	263.8	230.7
45°	12558.3	12147.4	10385.2	4410.4	1750.2	789.6	487.2	383.3	304.3	249.1	216.9
47.5°	13070.3	12681.4	10848.5	4480.2	1724.4	739.0	444.0	398.9	298.7	236.2	205.0
50°	13681.5	13241.2	11501.2	4688.9	1686.8	688.5	401.7	456.8	298.7	228.0	194.9
52.5°	14448.2	14012.4	12229.2	5012.5	1611.4	618.6	361.2	457.8	301.5	216.9	182.0
55°	15412.4	15096.2	13268.8	5367.3	1491.0	515.7	312.5	393.4	290.5	196.7	170.1
57.5°	16337.1	16078.8	14216.5	5609.9	1330.1	402.6	272.1	317.1	265.7	172.8	151.7
59°	16589.9	16307.7	14564.0	5621.0	1209.7	351.1	251.9	262.0	260.1	161.8	140.6
60°	16589.9	16290.2	14664.2	5562.1	1122.4	322.6	239.0	233.5	271.2	154.4	134.2
62.5°	16289.3	15868.3	14338.8	5164.1	915.5	274.8	208.7	193.0	243.6	138.8	118.6
65°	15664.3	15051.2	13230.2	4444.4	816.3	251.9	180.2	158.1	169.1	122.3	103.9
67.5°	14621.9	13790.9	11631.7	3590.4	776.7	245.4	155.3	134.2	127.8	104.8	91.0
70°	12786.2	11864.2	9691.2	2822.9	742.7	242.7	130.5	113.1	103.0	88.2	77.2
72.5°	9306.1	8344.6	6880.3	2207.0	722.5	248.2	104.8	94.7	84.6	68.9	59.7
75°	5323.1	4693.5	3867.1	1457.9	615.9	237.2	80.9	79.1	60.7	49.6	41.4
77.5°	2750.3	2666.6	2317.3	559.8	295.1	103.9	53.3	46.0	35.8	30.3	24.8
80°	1186.7	1173.8	1015.7	161.8	78.1	57.9	30.3	19.3	16.5	12.9	10.1
82.5°	410.0	410.0	361.2	54.2	34.9	28.5	3.7	0.0	0.0	0.0	0.0
85°	82.7	92.8	65.3	0.0	11.9	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°	6320.5	6320.5	6320.5	6320.5	6320.5	6320.5	6320.5	6320.5	6320.5	6320.5	6320.5
2.5°	5512.5	5401.3	5393.9	5324.1	5236.7	5197.2	5174.2	5214.7	5264.3	5269.8	5344.3
5°	4278.9	4162.2	4210.9	4086.8	4111.6	4086.8	4046.4	4053.7	4075.8	4006.8	4092.3
7.5°	3004.9	2916.7	2972.7	2939.6	2983.8	3001.2	2976.4	2939.6	2831.2	2818.3	2892.8
10°	2264.9	2164.7	2105.0	2042.5	2056.3	2084.8	2075.6	2048.9	1980.0	1983.7	2055.4
12.5°	1820.0	1707.9	1589.3	1435.8	1398.1	1419.3	1398.1	1382.5	1316.3	1321.8	1385.3
15°	1380.7	1288.7	1164.6	1041.5	974.4	980.8	922.0	880.6	839.2	789.6	828.2
17.5°	932.1	876.0	839.2	802.5	722.5	704.1	629.7	549.7	518.4	495.5	512.0
20°	660.0	629.7	615.0	613.1	567.2	544.2	471.6	421.9	406.3	401.7	411.8
22.5°	551.5	529.5	508.3	496.4	473.4	446.7	391.6	366.8	355.7	350.2	357.6
25°	479.8	463.3	441.2	421.0	411.8	383.3	343.8	325.4	318.0	312.5	316.2
27.5°	426.5	411.8	386.1	373.2	365.8	341.0	307.0	292.3	285.9	284.0	283.1
30°	384.2	370.4	346.5	331.8	319.0	296.9	276.7	262.0	255.5	253.7	251.9
32.5°	341.9	330.9	315.3	300.6	286.8	266.6	249.1	237.2	227.0	225.2	224.3
35°	288.6	277.6	269.3	268.4	255.5	236.2	223.4	207.7	199.5	196.7	197.6
37.5°	256.5	241.8	223.4	229.8	226.1	212.3	194.9	179.2	171.0	169.1	169.1
40°	236.2	220.6	199.5	188.4	199.5	196.7	169.1	153.5	145.2	144.3	142.5
42.5°	216.9	201.3	177.4	159.0	164.5	172.8	146.2	131.4	123.2	121.3	118.6
45°	203.1	186.6	159.9	138.8	127.8	145.2	125.0	106.6	102.0	98.4	96.5
47.5°	190.3	174.6	144.3	120.4	102.0	104.8	100.2	87.3	81.8	78.1	77.2
50°	179.2	162.7	130.5	103.0	84.6	77.2	80.9	68.9	64.3	60.7	58.8
52.5°	166.4	150.8	115.8	89.2	70.8	60.7	61.6	54.2	49.6	46.9	46.0
55°	156.3	140.6	103.9	78.1	62.5	49.6	44.1	42.3	39.5	37.7	36.8
57.5°	142.5	127.8	91.9	66.2	53.3	40.4	34.0	34.0	33.1	31.3	30.3
59°	134.2	121.3	84.6	59.7	48.7	34.9	30.3	31.3	30.3	28.5	27.6
60°	127.8	115.8	79.1	55.2	46.0	32.2	27.6	29.4	28.5	26.7	25.7
62.5°	113.1	104.8	68.0	46.0	40.4	25.7	23.0	24.8	24.8	23.9	23.0
65°	99.3	90.1	57.9	38.6	37.7	22.1	18.4	22.1	23.0	21.1	19.3
67.5°	86.4	77.2	50.6	31.3	34.9	17.5	13.8	18.4	24.8	19.3	17.5
70°	73.5	64.3	39.5	24.8	36.8	11.9	11.0	16.5	29.4	21.1	16.5
72.5°	57.0	49.6	27.6	18.4	39.5	8.3	8.3	13.8	33.1	23.0	15.6
75°	39.5	32.2	16.5	11.0	32.2	5.5	5.5	12.9	31.3	21.1	14.7
77.5°	23.0	17.5	5.5	0.9	16.5	0.0	0.9	9.2	22.1	12.9	6.4
80°	8.3	3.7	0.0	0.0	10.1	0.0	0.0	0.0	1.8	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°	6320.5	6320.5	6320.5	6320.5	6320.5	6320.5	6320.5	6320.5	6320.5	6320.5	6320.5
2.5°	5363.6	5487.7	5598.9	5767.1	5966.6	6196.4	6394.0	6606.4	6805.8	6888.6	6945.6
5°	4109.8	4263.3	4442.5	4689.8	5018.9	5424.3	5803.9	6233.2	6694.6	6925.3	7142.3
7.5°	2905.6	3061.9	3284.3	3547.2	3945.3	4427.8	4924.2	5517.1	6142.2	6507.1	6866.5
10°	2089.4	2281.5	2489.2	2848.6	3253.1	3710.9	4221.9	4883.8	5580.5	5985.0	6417.9
12.5°	1422.0	1640.8	1955.2	2357.8	2833.0	3281.6	3725.6	4357.1	5166.0	5566.7	6030.9
15°	853.0	974.4	1307.1	1773.2	2355.9	2914.8	3401.1	4034.4	4896.6	5387.5	5870.1
17.5°	525.8	581.9	762.9	1145.3	1757.5	2464.4	3130.8	3925.0	4935.2	5532.7	6049.3
20°	419.2	441.2	499.1	676.5	1164.6	1968.0	2826.6	3903.0	5250.5	5985.9	6540.2
22.5°	364.0	385.1	423.8	491.8	732.6	1473.5	2537.9	3923.2	5702.8	6665.2	7312.3
25°	320.8	339.2	376.0	432.0	536.8	1037.8	2229.1	4013.3	6292.0	7508.1	8195.7
27.5°	286.8	302.4	336.4	387.9	460.5	724.3	1878.9	4122.7	6990.6	8370.3	9048.7
30°	255.5	269.3	299.7	347.5	399.9	557.0	1494.6	4197.1	7690.1	9048.7	9658.1
32.5°	228.9	239.0	266.6	307.0	347.5	444.0	1136.1	4185.2	8209.5	9613.1	10096.6
35°	201.3	211.4	235.3	270.2	302.4	366.8	893.5	3961.8	8661.7	10198.6	10598.5
37.5°	171.0	183.8	206.8	238.1	260.1	322.6	722.5	3692.5	9120.4	10867.8	11158.3
40°	145.2	158.1	178.3	212.3	226.1	306.1	555.2	3364.3	9636.1	11616.1	11772.3
42.5°	120.4	132.4	153.5	182.9	213.3	263.8	410.9	2989.3	10131.5	12255.8	12332.1
45°	97.4	109.4	131.4	160.9	228.0	218.8	318.0	2587.6	10531.4	12788.1	12812.9
47.5°	77.2	88.2	111.2	151.7	212.3	174.6	227.0	2272.3	10866.9	13203.5	13138.3
50°	59.7	68.9	92.8	173.7	185.7	144.3	171.9	2167.5	11167.5	13460.9	13291.8
52.5°	46.9	55.2	76.3	162.7	144.3	119.5	144.3	2265.9	11579.3	13674.2	13378.2
55°	37.7	46.0	59.7	92.8	98.4	101.1	123.2	2357.8	12289.8	14174.2	13888.4
57.5°	31.3	39.5	48.7	65.3	74.5	85.5	109.4	2367.9	13127.2	15005.2	14734.9
59°	28.5	35.8	44.1	57.9	65.3	78.1	103.0	2312.7	13422.3	15307.6	15172.5
60°	26.7	34.0	41.4	53.3	60.7	73.5	99.3	2260.3	13435.2	15296.6	15359.1
62.5°	23.0	30.3	36.8	45.0	51.5	62.5	89.2	2066.4	12891.0	14795.6	15246.9
65°	20.2	26.7	33.1	38.6	44.1	56.1	80.9	1712.5	11961.7	13987.6	14479.4
67.5°	18.4	23.0	30.3	34.0	39.5	49.6	71.7	1220.7	10800.7	12999.5	13318.4
70°	16.5	22.1	27.6	31.3	35.8	43.2	61.6	701.4	9120.4	11552.6	11779.7
72.5°	15.6	21.1	24.8	29.4	32.2	38.6	56.1	330.0	6678.1	9254.6	9847.5
75°	13.8	19.3	23.0	27.6	30.3	34.9	47.8	158.1	4441.6	6697.4	7371.1
77.5°	8.3	15.6	21.1	24.8	26.7	30.3	39.5	91.0	2834.8	4635.6	5460.1
80°	0.0	5.5	15.6	21.1	23.0	25.7	30.3	71.7	1516.7	2648.2	3178.6
82.5°	0.0	0.0	11.0	16.5	15.6	17.5	23.0	45.0	683.9	1730.9	1950.6
85°	0.0	0.0	3.7	12.9	11.0	8.3	15.6	15.6	149.8	876.0	1092.9
87.5°	0.0	0.0	0.0	0.9	5.5	3.7	6.4	1.8	0.9	65.3	264.7
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°	6320.5	6320.5	6320.5	6320.5	6320.5	6320.5	6320.5	6320.5	6320.5	6320.5
2.5°	7145.0	7213.0	7327.9	7382.2	7355.5	7242.5	7107.3	6969.5	6888.6	6920.7
5°	7584.4	7934.6	8136.9	8204.0	8091.8	7838.1	7506.3	7068.7	6913.4	6871.1
7.5°	7584.4	8243.5	8660.8	8734.3	8484.3	7987.0	7364.7	6681.7	6454.7	6372.0
10°	7317.8	8215.0	8796.8	8913.6	8564.3	7820.6	6986.9	6207.4	5938.1	5852.6
12.5°	7017.3	7983.3	8596.5	8757.3	8470.5	7655.2	6724.9	5886.6	5569.5	5495.0
15°	6832.5	7698.4	8205.8	8322.5	8201.2	7558.7	6662.4	5790.1	5416.9	5345.2
17.5°	6898.7	7477.8	7660.7	7728.7	7810.5	7524.7	6832.5	6001.5	5529.1	5461.0
20°	7147.8	7245.2	7150.5	7236.0	7456.6	7557.7	7237.9	6512.6	5945.5	5854.5
22.5°	7570.6	7124.8	6859.1	6893.2	7161.6	7667.1	7857.4	7242.5	6588.0	6474.0
25°	8063.3	7222.2	6697.4	6667.0	6942.8	7811.5	8423.6	8036.7	7348.2	7222.2
27.5°	8682.9	7441.0	6664.3	6633.9	6866.5	7946.6	8894.3	8821.7	8148.8	7933.7
30°	9160.9	7656.1	6762.6	6692.8	6942.8	8040.3	9272.1	9488.1	8786.7	8644.3
32.5°	9503.7	7909.8	6922.6	6821.5	7157.9	8202.1	9563.5	10098.4	9376.9	9160.9
35°	9764.8	8185.6	7180.9	7014.5	7453.9	8447.5	9836.5	10748.3	10004.7	9768.4
37.5°	10009.3	8572.6	7584.4	7385.9	7918.1	8842.8	10125.1	11485.5	10707.0	10424.8
40°	10350.3	9011.0	8206.7	8030.2	8698.5	9381.5	10485.4	12254.0	11505.8	11150.9
42.5°	10691.3	9481.7	8843.7	8891.5	9671.9	10035.9	10950.6	13066.6	12294.4	11915.7
45°	11002.9	9967.0	9751.0	9971.6	10575.5	10753.8	11412.9	13536.3	12924.1	12558.3
47.5°	11280.6	10573.7	10652.7	11240.1	11603.2	11403.7	11758.5	13941.7	13392.9	13070.3
50°	11603.2	11358.7	11841.3	12672.2	12786.2	11992.0	12072.9	14421.5	13940.7	13681.5
52.5°	11956.2	12186.0	13157.6	13890.2	13853.4	12630.9	12389.1	14959.2	14691.7	14448.2
55°	12356.9	12854.2	14316.7	15030.0	14998.8	13344.2	12913.1	15623.8	15633.0	15412.4
57.5°	12951.7	13429.7	15103.5	15952.0	16004.4	14167.8	13801.0	16368.4	16484.2	16337.1
59°	13378.2	13802.9	15415.2	16337.1	16550.4	14804.8	14450.0	16800.4	16724.1	16589.9
60°	13694.4	14040.0	15569.6	16538.4	16867.5	15236.8	14928.9	17054.1	16752.6	16589.9
62.5°	14476.6	14556.6	15848.1	16766.4	17232.4	16196.5	16276.5	17486.1	16555.0	16289.3
65°	14841.6	14882.9	15844.4	16358.3	16879.5	16943.8	17499.0	17499.0	16072.4	15664.3
67.5°	14689.0	14489.5	15058.5	15005.2	15525.5	16499.8	17958.6	16857.4	15149.5	14621.9
70°	13448.0	12680.5	12427.7	12450.7	12848.7	14351.6	17048.6	14969.3	13403.0	12786.2
72.5°	11189.5	9348.4	8724.2	9436.6	9540.5	11029.6	14529.0	11273.2	9884.3	9306.1
75°	9000.0	6589.8	5575.0	6326.9	6503.4	8071.6	11239.2	7020.9	5773.6	5323.1
77.5°	6465.7	4730.3	4000.4	3948.0	4176.0	5119.1	7975.1	3533.4	2947.0	2750.3
80°	3673.2	3113.4	3352.4	3163.0	3277.9	3200.7	3789.0	1549.8	1269.4	1186.7
82.5°	2217.1	1840.3	1992.8	1659.2	2099.5	1828.3	1459.7	496.4	431.1	410.0
85°	1442.2	1005.6	523.9	351.1	723.4	1168.3	326.3	135.1	103.9	82.7
87.5°	497.3	256.5	25.7	11.0	77.2	217.9	11.9	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)