

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: P324448

Luminaire Tested: **GAN-SA4C-730-U-SLR-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P324448
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-SA4C-730-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3000K, 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: 19262 lumens
Efficiency: N/A
Efficacy: 85.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B2 - U0 - G3

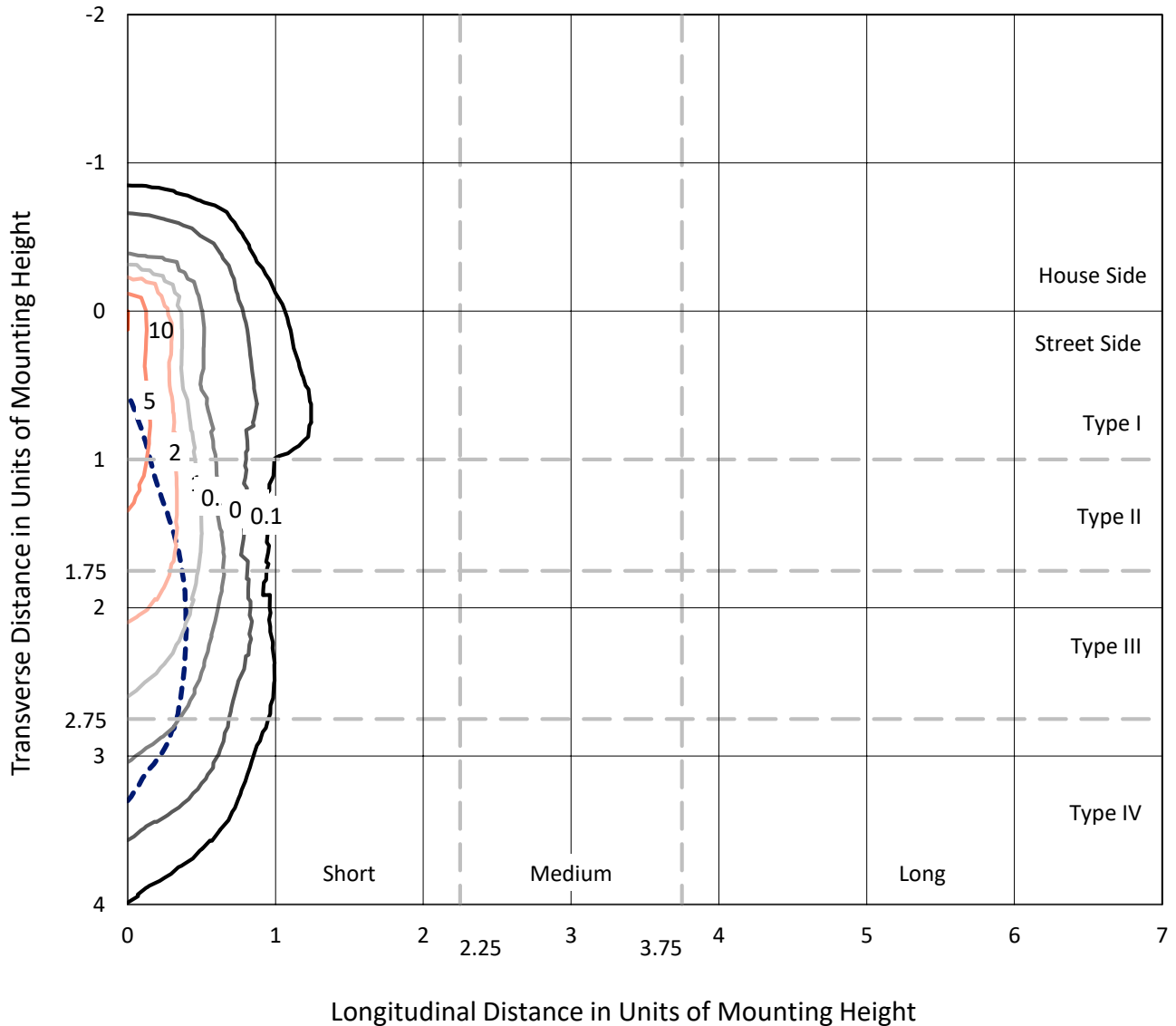
Input Watts (W): 225
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

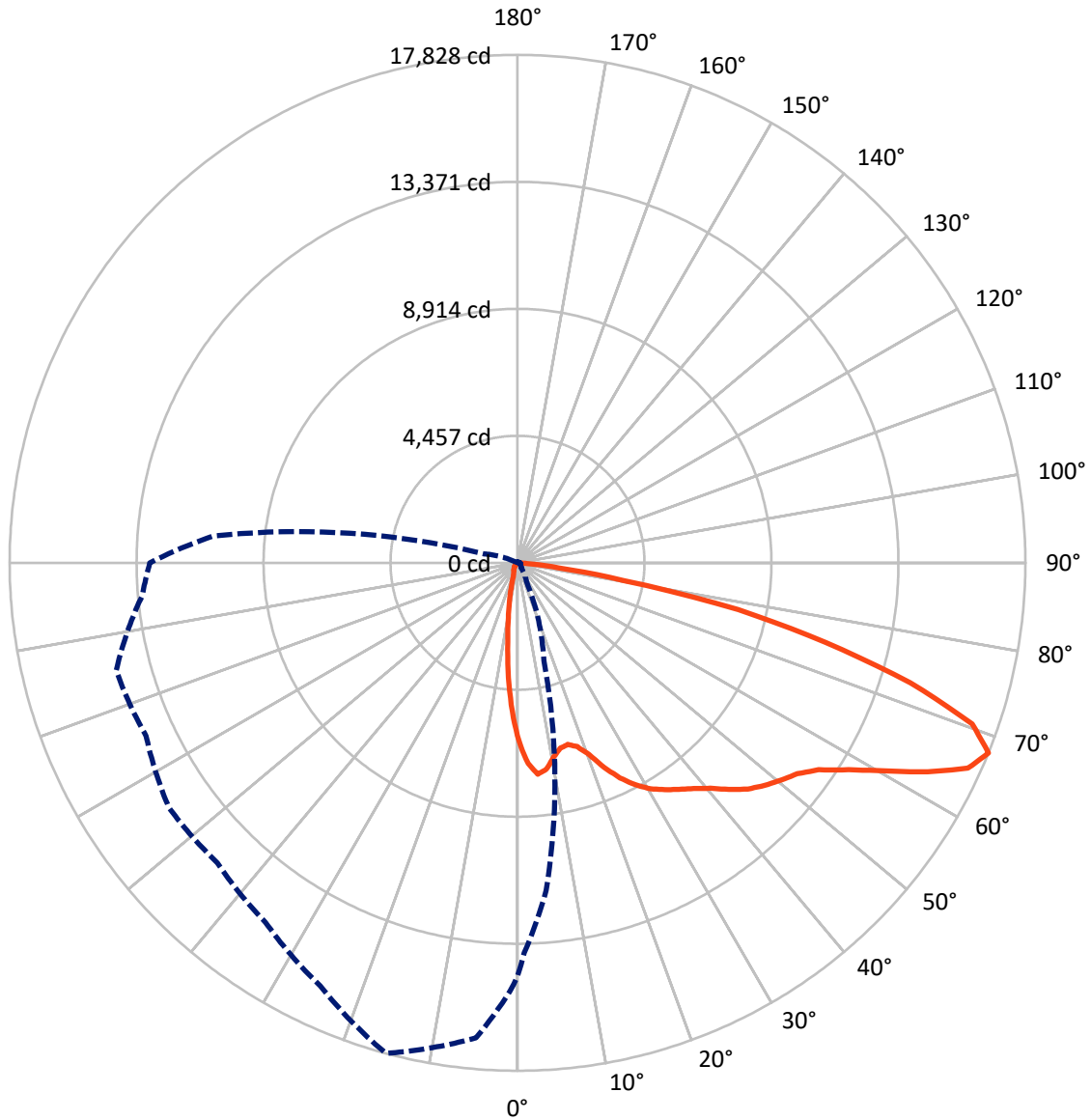
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10 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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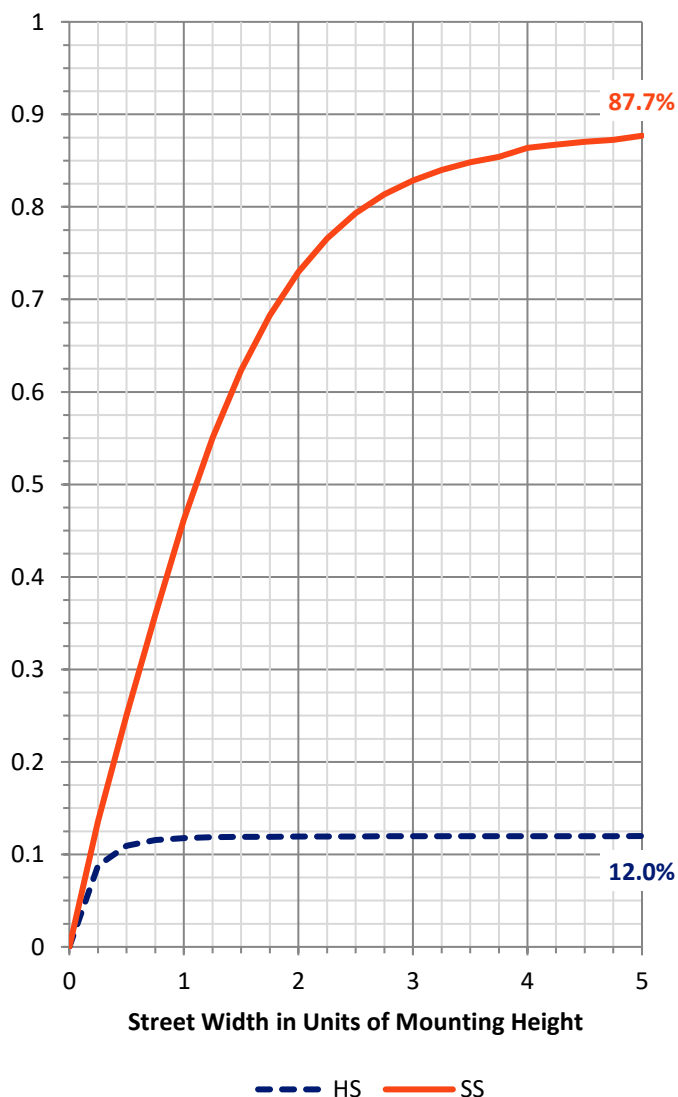
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2331.3	0.0	2331.3
	% Fixture	12.1	0.0	12.1
Street Side	Lumens	16930.7	0.0	16930.7
	% Fixture	87.9	0.0	87.9
Total	Lumens	19262.0	0.0	19262.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	481.6	2.5
10°-20°	958.5	5.0
20°-30°	1361.1	7.1
30°-40°	2010.5	10.4
40°-50°	2899.6	15.1
50°-60°	4070.4	21.1
60°-70°	4744.9	24.6
70°-80°	2425.7	12.6
80°-90°	309.8	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°	19262.0	100.0
0°-180°	19262.0	100.0

Coefficient of Utilization



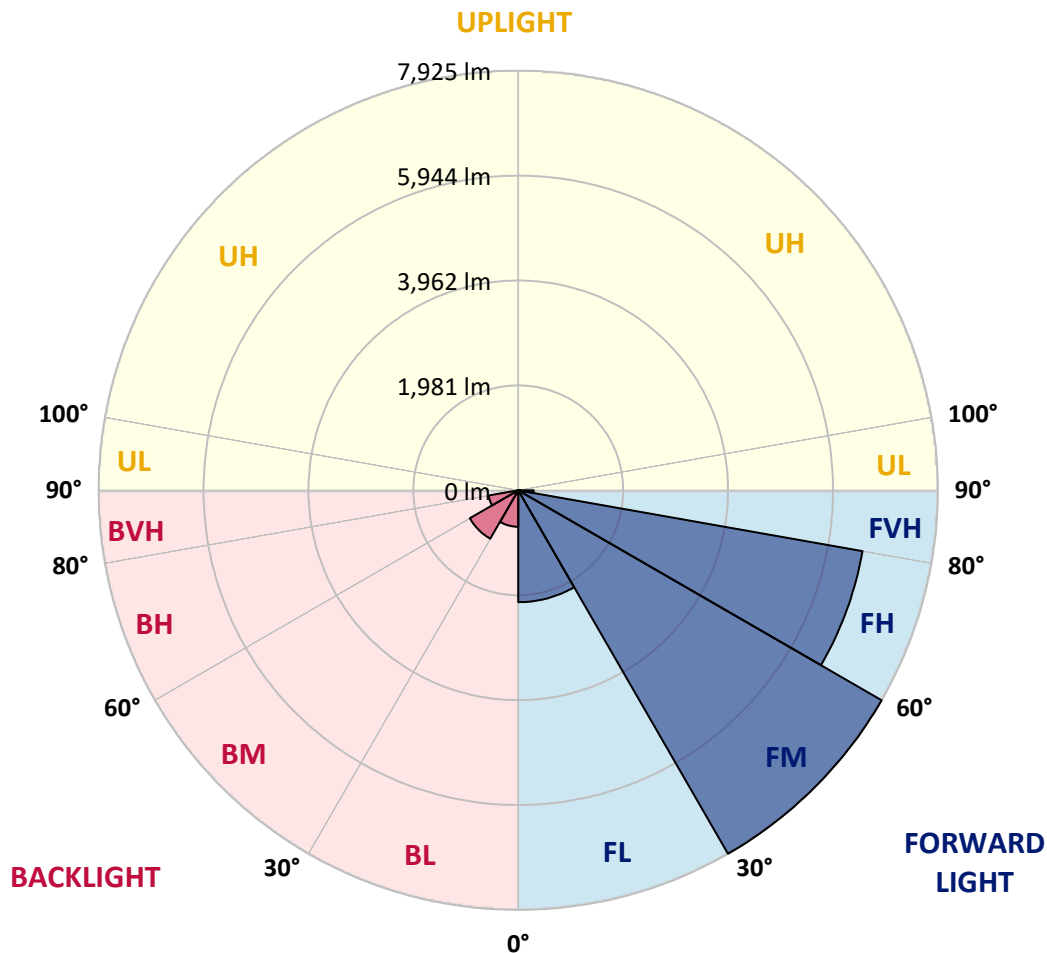
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2112.7	11.0			
FM (30°-60°)	7924.7	41.1			
FH (60°-80°)	6602.3	34.3			G3/7500
FVH (80°-90°)	291.0	1.5			G3/500
BL (0°-30°)	688.6	3.6	B2/1000		
BM (30°-60°)	1055.7	5.5	B2/2500		
BH (60°-80°)	568.2	2.9	B2/1000		G2/1000
BVH (80°-90°)	18.8	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: 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°	6274.6	6274.6	6274.6	6274.6	6274.6	6274.6	6274.6	6274.6	6274.6	6274.6	6274.6
2.5°	6870.4	6817.5	6759.1	6568.4	6391.4	6188.8	6023.6	5908.6	5764.5	5577.4	5529.9
5°	6821.2	6764.6	6581.2	6156.8	5785.4	5424.1	5075.5	4871.1	4617.4	4360.1	4296.2
7.5°	6325.7	6266.3	6001.7	5420.4	4920.4	4398.4	3945.8	3665.6	3379.1	3143.7	3018.7
10°	5810.1	5745.3	5447.8	4742.4	4126.5	3654.7	3322.5	3055.2	2784.1	2532.3	2331.5
12.5°	5455.1	5370.2	5047.2	4247.8	3711.3	3391.0	3080.7	2760.4	2393.6	2123.5	1902.6
15°	5306.4	5209.6	4868.4	4057.1	3564.3	3188.4	2784.1	2390.8	1961.0	1651.7	1449.1
17.5°	5421.3	5295.4	4929.5	4044.3	3380.0	2868.1	2357.1	1895.3	1429.0	1116.0	971.8
20°	5811.9	5646.7	5182.3	4040.7	3156.4	2487.6	1839.7	1317.7	941.7	757.4	681.7
22.5°	6427.0	6208.9	5545.4	4069.9	2925.6	2087.9	1328.6	895.2	707.2	611.4	566.7
25°	7169.8	6917.0	6068.3	4173.0	2723.0	1699.1	965.5	707.2	596.8	526.5	489.1
27.5°	7876.1	7670.7	6729.0	4321.7	2566.0	1385.2	783.9	599.5	510.1	463.6	433.5
30°	8581.4	8323.2	7407.0	4498.8	2377.1	1172.6	689.0	546.6	457.2	407.9	388.7
32.5°	9094.3	8879.8	7938.1	4626.5	2175.5	1033.9	616.0	500.1	427.1	376.9	348.6
35°	9697.5	9454.7	8393.5	4654.8	2045.9	946.3	553.9	449.9	370.5	325.8	295.7
37.5°	10349.0	10047.0	8919.1	4592.8	1944.6	903.4	507.4	427.1	345.8	300.2	268.3
40°	11069.9	10728.6	9423.7	4503.3	1845.1	888.8	471.8	409.7	326.7	280.1	247.3
42.5°	11829.1	11426.7	9860.8	4409.3	1782.2	838.6	468.1	392.4	312.1	261.9	229.0
45°	12467.0	12059.1	10309.8	4378.3	1737.5	783.9	483.6	380.5	302.0	247.3	215.4
47.5°	12975.3	12589.3	10769.7	4447.7	1711.9	733.7	440.8	396.0	296.6	234.5	203.5
50°	13582.1	13145.0	11417.6	4654.8	1674.5	683.5	398.8	453.5	296.6	226.3	193.5
52.5°	14343.2	13910.6	12140.3	4976.0	1599.7	614.1	358.6	454.4	299.3	215.4	180.7
55°	15300.4	14986.5	13172.4	5328.3	1480.1	511.9	310.3	390.6	288.4	195.3	168.8
57.5°	16218.4	15962.0	14113.2	5569.2	1320.4	399.7	270.1	314.8	263.7	171.6	150.6
59°	16469.4	16189.2	14458.1	5580.1	1200.9	348.6	250.0	260.1	258.2	160.6	139.6
60°	16469.4	16171.9	14557.6	5521.7	1114.2	320.3	237.3	231.8	269.2	153.3	133.2
62.5°	16171.0	15753.0	14234.6	5126.6	908.9	272.8	207.1	191.6	241.8	137.8	117.7
65°	15550.4	14941.8	13134.1	4412.1	810.3	250.0	178.9	157.0	167.9	121.4	103.1
67.5°	14515.6	13690.7	11547.2	3564.3	771.1	243.6	154.2	133.2	126.8	104.0	90.3
70°	12693.3	11778.0	9620.8	2802.4	737.3	240.9	129.6	112.2	102.2	87.6	76.7
72.5°	9238.5	8284.0	6830.3	2191.0	717.2	246.4	104.0	94.0	84.0	68.4	59.3
75°	5284.5	4659.4	3839.0	1447.3	611.4	235.4	80.3	78.5	60.2	49.3	41.1
77.5°	2730.3	2647.3	2300.5	555.7	292.9	103.1	52.9	45.6	35.6	30.1	24.6
80°	1178.1	1165.3	1008.3	160.6	77.6	57.5	30.1	19.2	16.4	12.8	10.0
82.5°	407.0	407.0	358.6	53.8	34.7	28.3	3.7	0.0	0.0	0.0	0.0
85°	82.1	92.2	64.8	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°	6274.6	6274.6	6274.6	6274.6	6274.6	6274.6	6274.6	6274.6	6274.6	6274.6	6274.6
2.5°	5472.4	5362.0	5354.7	5285.4	5198.7	5159.4	5136.6	5176.8	5226.1	5231.5	5305.5
5°	4247.8	4131.9	4180.3	4057.1	4081.7	4057.1	4017.0	4024.3	4046.2	3977.7	4062.6
7.5°	2983.1	2895.5	2951.1	2918.3	2962.1	2979.4	2954.8	2918.3	2810.6	2797.8	2871.7
10°	2248.5	2149.0	2089.7	2027.6	2041.3	2069.6	2060.5	2034.0	1965.6	1969.2	2040.4
12.5°	1806.8	1695.5	1577.8	1425.4	1388.0	1408.9	1388.0	1372.4	1306.7	1312.2	1375.2
15°	1370.6	1279.4	1156.2	1033.9	967.3	973.7	915.3	874.2	833.1	783.9	822.2
17.5°	925.3	869.6	833.1	796.6	717.2	699.0	625.1	545.7	514.7	491.9	508.3
20°	655.2	625.1	610.5	608.7	563.0	540.2	468.1	418.9	403.3	398.8	408.8
22.5°	547.5	525.6	504.6	492.8	470.0	443.5	388.7	364.1	353.1	347.7	355.0
25°	476.3	459.9	438.0	417.9	408.8	380.5	341.3	323.0	315.7	310.3	313.9
27.5°	423.4	408.8	383.3	370.5	363.2	338.5	304.8	290.2	283.8	282.0	281.1
30°	381.4	367.7	344.0	329.4	316.6	294.7	274.7	260.1	253.7	251.9	250.0
32.5°	339.5	328.5	313.0	298.4	284.7	264.6	247.3	235.4	225.4	223.6	222.7
35°	286.5	275.6	267.4	266.5	253.7	234.5	221.7	206.2	198.0	195.3	196.2
37.5°	254.6	240.0	221.7	228.1	224.5	210.8	193.5	177.9	169.7	167.9	167.9
40°	234.5	219.0	198.0	187.1	198.0	195.3	167.9	152.4	144.2	143.3	141.4
42.5°	215.4	199.8	176.1	157.9	163.3	171.6	145.1	130.5	122.3	120.5	117.7
45°	201.7	185.2	158.8	137.8	126.8	144.2	124.1	105.9	101.3	97.6	95.8
47.5°	188.9	173.4	143.3	119.5	101.3	104.0	99.5	86.7	81.2	77.6	76.7
50°	177.9	161.5	129.6	102.2	84.0	76.7	80.3	68.4	63.9	60.2	58.4
52.5°	165.2	149.7	115.0	88.5	70.3	60.2	61.1	53.8	49.3	46.5	45.6
55°	155.1	139.6	103.1	77.6	62.1	49.3	43.8	42.0	39.2	37.4	36.5
57.5°	141.4	126.8	91.3	65.7	52.9	40.2	33.8	33.8	32.9	31.0	30.1
59°	133.2	120.5	84.0	59.3	48.4	34.7	30.1	31.0	30.1	28.3	27.4
60°	126.8	115.0	78.5	54.8	45.6	31.9	27.4	29.2	28.3	26.5	25.6
62.5°	112.2	104.0	67.5	45.6	40.2	25.6	22.8	24.6	24.6	23.7	22.8
65°	98.6	89.4	57.5	38.3	37.4	21.9	18.3	21.9	22.8	21.0	19.2
67.5°	85.8	76.7	50.2	31.0	34.7	17.3	13.7	18.3	24.6	19.2	17.3
70°	73.0	63.9	39.2	24.6	36.5	11.9	11.0	16.4	29.2	21.0	16.4
72.5°	56.6	49.3	27.4	18.3	39.2	8.2	8.2	13.7	32.9	22.8	15.5
75°	39.2	31.9	16.4	11.0	31.9	5.5	5.5	12.8	31.0	21.0	14.6
77.5°	22.8	17.3	5.5	0.9	16.4	0.0	0.9	9.1	21.9	12.8	6.4
80°	8.2	3.7	0.0	0.0	10.0	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°	6274.6	6274.6	6274.6	6274.6	6274.6	6274.6	6274.6	6274.6	6274.6	6274.6	6274.6
2.5°	5324.6	5447.8	5558.2	5725.2	5923.2	6151.4	6347.6	6558.4	6756.4	6838.5	6895.1
5°	4079.9	4232.3	4410.3	4655.7	4982.4	5384.8	5761.7	6187.9	6646.0	6875.0	7090.4
7.5°	2884.5	3039.6	3260.5	3521.5	3916.6	4395.7	4888.4	5477.0	6097.5	6459.8	6816.6
10°	2074.2	2264.9	2471.1	2827.9	3229.4	3683.9	4191.3	4848.3	5540.0	5941.5	6371.3
12.5°	1411.7	1628.9	1941.0	2340.6	2812.4	3257.7	3698.5	4325.4	5128.4	5526.3	5987.1
15°	846.8	967.3	1297.6	1760.3	2338.8	2893.6	3376.4	4005.1	4861.1	5348.3	5827.4
17.5°	522.0	577.6	757.4	1137.0	1744.8	2446.5	3108.1	3896.5	4899.4	5492.5	6005.4
20°	416.1	438.0	495.5	671.6	1156.2	1953.7	2806.0	3874.6	5212.4	5942.4	6492.7
22.5°	361.4	382.4	420.7	488.2	727.3	1462.8	2519.5	3894.7	5661.3	6616.8	7259.2
25°	318.5	336.7	373.2	428.9	532.9	1030.2	2212.9	3984.1	6246.3	7453.6	8136.1
27.5°	284.7	300.2	334.0	385.1	457.2	719.1	1865.2	4092.7	6939.8	8309.5	8983.0
30°	253.7	267.4	297.5	344.9	397.0	553.0	1483.8	4166.6	7634.2	8983.0	9588.0
32.5°	227.2	237.3	264.6	304.8	344.9	440.8	1127.9	4154.8	8149.8	9543.2	10023.2
35°	199.8	209.9	233.6	268.3	300.2	364.1	887.0	3933.0	8598.8	10124.5	10521.5
37.5°	169.7	182.5	205.3	236.3	258.2	320.3	717.2	3665.6	9054.1	10788.8	11077.2
40°	144.2	157.0	177.0	210.8	224.5	303.9	551.2	3339.9	9566.1	11531.6	11686.8
42.5°	119.5	131.4	152.4	181.6	211.7	261.9	407.9	2967.5	10057.9	12166.8	12242.5
45°	96.7	108.6	130.5	159.7	226.3	217.2	315.7	2568.8	10454.9	12695.1	12719.8
47.5°	76.7	87.6	110.4	150.6	210.8	173.4	225.4	2255.8	10787.9	13107.6	13042.8
50°	59.3	68.4	92.2	172.5	184.3	143.3	170.6	2151.7	11086.3	13363.1	13195.2
52.5°	46.5	54.8	75.7	161.5	143.3	118.6	143.3	2249.4	11495.1	13574.8	13281.0
55°	37.4	45.6	59.3	92.2	97.6	100.4	122.3	2340.6	12200.5	14071.2	13787.4
57.5°	31.0	39.2	48.4	64.8	73.9	84.9	108.6	2350.7	13031.9	14896.2	14627.9
59°	28.3	35.6	43.8	57.5	64.8	77.6	102.2	2295.9	13324.8	15196.4	15062.2
60°	26.5	33.8	41.1	52.9	60.2	73.0	98.6	2243.9	13337.5	15185.4	15247.5
62.5°	22.8	30.1	36.5	44.7	51.1	62.1	88.5	2051.4	12797.3	14688.1	15136.1
65°	20.1	26.5	32.9	38.3	43.8	55.7	80.3	1700.0	11874.8	13886.0	14374.2
67.5°	18.3	22.8	30.1	33.8	39.2	49.3	71.2	1211.8	10722.2	12905.0	13221.7
70°	16.4	21.9	27.4	31.0	35.6	42.9	61.1	696.3	9054.1	11468.7	11694.1
72.5°	15.5	21.0	24.6	29.2	31.9	38.3	55.7	327.6	6629.5	9187.4	9775.9
75°	13.7	19.2	22.8	27.4	30.1	34.7	47.5	157.0	4409.3	6648.7	7317.6
77.5°	8.2	15.5	21.0	24.6	26.5	30.1	39.2	90.3	2814.2	4601.9	5420.4
80°	0.0	5.5	15.5	21.0	22.8	25.6	30.1	71.2	1505.7	2629.0	3155.5
82.5°	0.0	0.0	11.0	16.4	15.5	17.3	22.8	44.7	678.9	1718.3	1936.4
85°	0.0	0.0	3.7	12.8	11.0	8.2	15.5	15.5	148.7	869.6	1085.0
87.5°	0.0	0.0	0.0	0.9	5.5	3.7	6.4	1.8	0.9	64.8	262.8
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°	6274.6	6274.6	6274.6	6274.6	6274.6	6274.6	6274.6	6274.6	6274.6	6274.6
2.5°	7093.1	7160.6	7274.7	7328.5	7302.1	7189.8	7055.7	6918.8	6838.5	6870.4
5°	7529.3	7877.0	8077.7	8144.3	8033.0	7781.1	7451.7	7017.4	6863.1	6821.2
7.5°	7529.3	8183.6	8597.9	8670.9	8422.7	7929.0	7311.2	6633.2	6407.8	6325.7
10°	7264.7	8155.3	8732.9	8848.8	8502.0	7763.8	6936.1	6162.3	5894.9	5810.1
12.5°	6966.3	7925.3	8534.0	8693.7	8409.0	7599.6	6676.1	5843.8	5529.0	5455.1
15°	6782.8	7642.4	8146.2	8262.1	8141.6	7503.7	6614.0	5748.0	5377.5	5306.4
17.5°	6848.5	7423.4	7605.0	7672.6	7753.8	7470.0	6782.8	5957.9	5488.9	5421.3
20°	7095.8	7192.6	7098.6	7183.4	7402.4	7502.8	7185.3	6465.3	5902.2	5811.9
22.5°	7515.6	7073.0	6809.3	6843.1	7109.5	7611.4	7800.3	7189.8	6540.1	6427.0
25°	8004.7	7169.8	6648.7	6618.6	6892.3	7754.7	8362.4	7978.3	7294.8	7169.8
27.5°	8619.8	7386.9	6615.8	6585.7	6816.6	7888.8	8829.6	8757.6	8089.6	7876.1
30°	9094.3	7600.5	6713.5	6644.1	6892.3	7981.9	9204.7	9419.1	8722.9	8581.4
32.5°	9434.7	7852.3	6872.3	6771.9	7105.9	8142.5	9494.0	10025.1	9308.7	9094.3
35°	9693.8	8126.1	7128.7	6963.5	7399.7	8386.2	9765.0	10670.2	9932.0	9697.5
37.5°	9936.5	8510.3	7529.3	7332.2	7860.5	8778.5	10051.5	11402.1	10629.2	10349.0
40°	10275.1	8945.5	8147.1	7971.9	8635.3	9313.3	10409.2	12164.9	11422.1	11069.9
42.5°	10613.6	9412.8	8779.5	8826.9	9601.6	9963.0	10871.0	12971.6	12205.1	11829.1
45°	10923.0	9894.6	9680.1	9899.1	10498.7	10675.7	11330.0	13437.9	12830.2	12467.0
47.5°	11198.6	10496.8	10575.3	11158.4	11518.9	11320.9	11673.1	13840.4	13295.6	12975.3
50°	11518.9	11276.1	11755.2	12580.1	12693.3	11904.9	11985.2	14316.7	13839.4	13582.1
52.5°	11869.3	12097.4	13062.0	13789.3	13752.7	12539.1	12299.1	14850.5	14585.0	14343.2
55°	12267.1	12760.8	14212.7	14920.8	14889.8	13247.2	12819.2	15510.3	15519.4	15300.4
57.5°	12857.6	13332.1	14993.8	15836.1	15888.1	14064.8	13700.7	16249.4	16364.4	16218.4
59°	13281.0	13702.6	15303.1	16218.4	16430.1	14697.2	14345.0	16678.3	16602.6	16469.4
60°	13594.9	13938.0	15456.4	16418.3	16744.9	15126.1	14820.4	16930.2	16630.9	16469.4
62.5°	14371.4	14450.8	15732.9	16644.6	17107.2	16078.8	16158.2	17359.1	16434.7	16171.0
65°	14733.7	14774.8	15729.3	16239.4	16756.8	16820.7	17371.8	17371.8	15955.6	15550.4
67.5°	14582.2	14384.2	14949.1	14896.2	15412.6	16379.9	17828.1	16734.9	15039.4	14515.6
70°	13350.3	12588.4	12337.4	12360.2	12755.4	14247.3	16924.7	14860.6	13305.6	12693.3
72.5°	11108.2	9280.4	8660.8	9368.0	9471.2	10949.5	14423.5	11191.3	9812.4	9238.5
75°	8934.6	6541.9	5534.5	6280.9	6456.2	8012.9	11157.5	6969.9	5731.6	5284.5
77.5°	6418.7	4695.9	3971.3	3919.3	4145.6	5081.9	7917.1	3507.8	2925.6	2730.3
80°	3646.5	3090.7	3328.0	3140.0	3254.1	3177.4	3761.5	1538.5	1260.2	1178.1
82.5°	2201.0	1826.9	1978.4	1647.1	2084.2	1815.0	1449.1	492.8	428.0	407.0
85°	1431.8	998.3	520.1	348.6	718.2	1159.8	323.9	134.1	103.1	82.1
87.5°	493.7	254.6	25.6	11.0	76.7	216.3	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)