

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: P324438

Luminaire Tested: **GAN-SA4B-730-U-SLR-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P324438
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-SA4B-730-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3000K, 800mA 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: 15563 lumens
Efficiency: N/A
Efficacy: 91.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B2 - U0 - G3

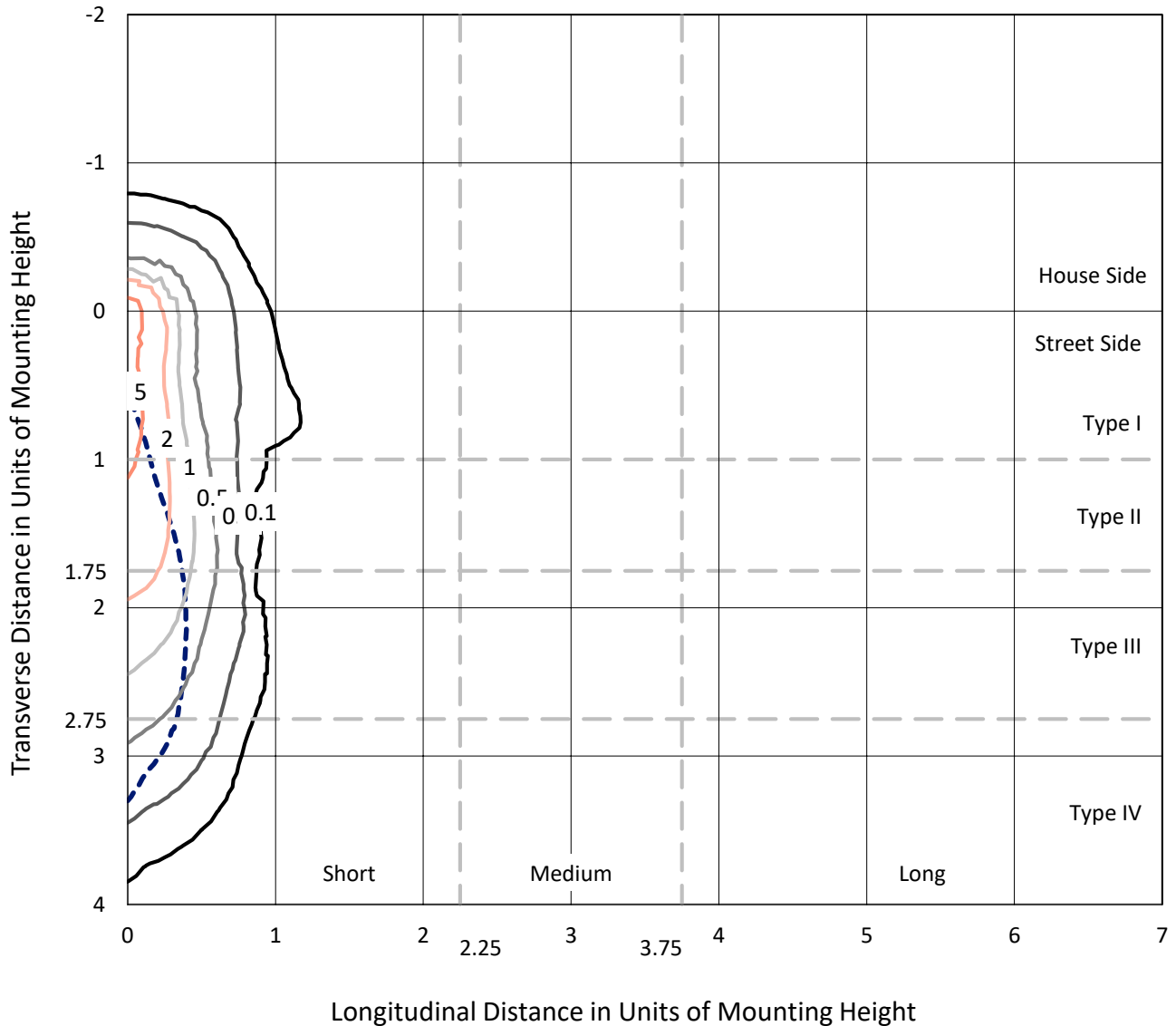
Input Watts (W): 171
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

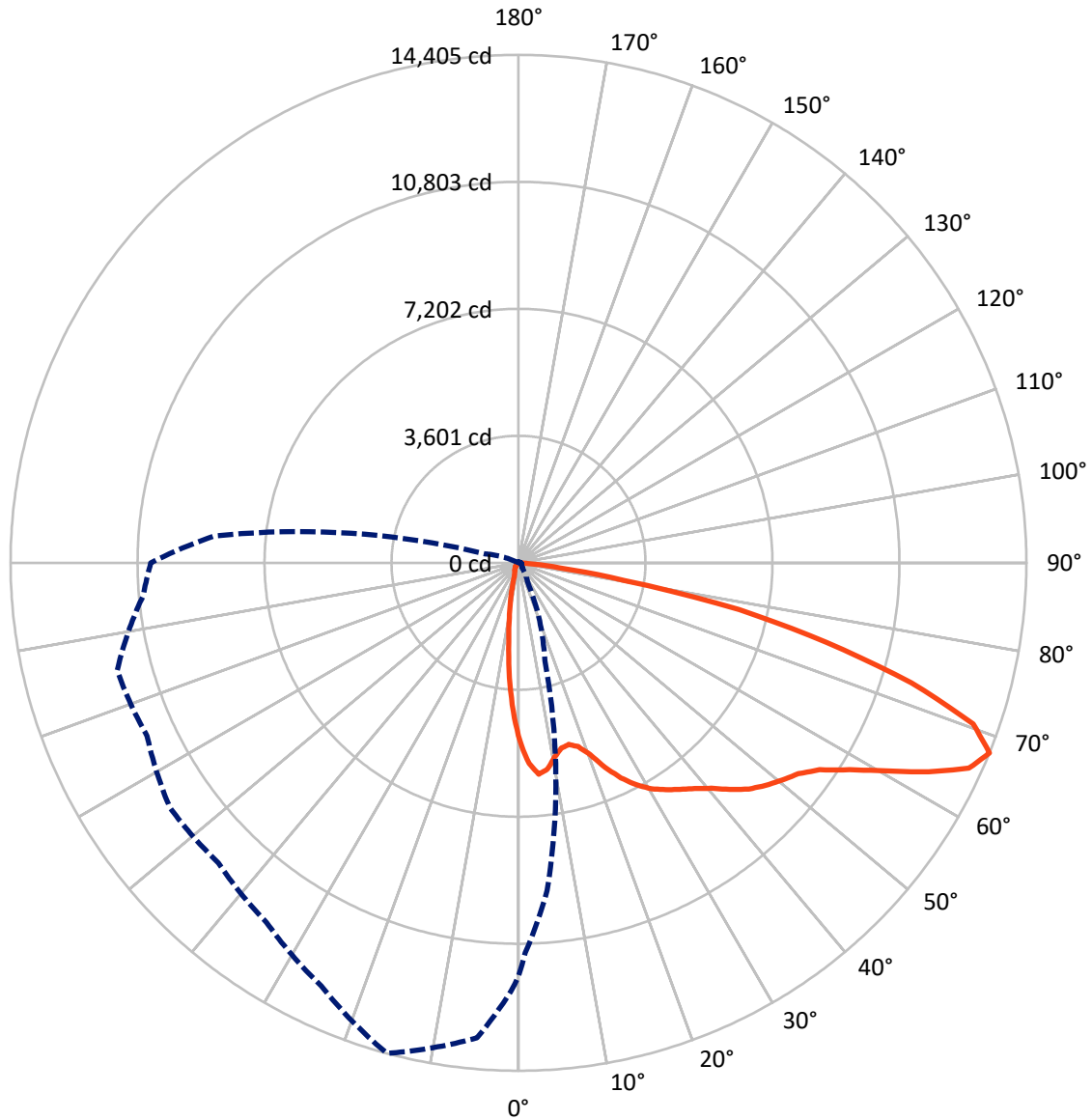
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.1 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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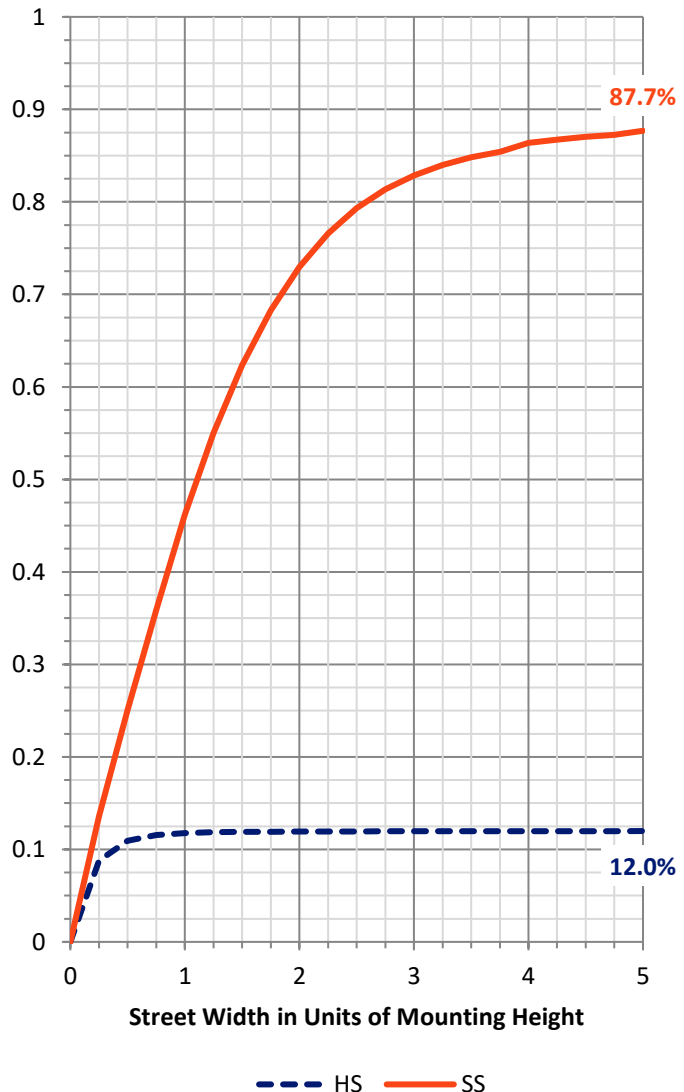
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1883.6	0.0	1883.6
	% Fixture	12.1	0.0	12.1
Street Side	Lumens	13679.4	0.0	13679.4
	% Fixture	87.9	0.0	87.9
Total	Lumens	15563.0	0.0	15563.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	389.1	2.5
10°-20°	774.5	5.0
20°-30°	1099.8	7.1
30°-40°	1624.4	10.4
40°-50°	2342.7	15.1
50°-60°	3288.7	21.1
60°-70°	3833.7	24.6
70°-80°	1959.9	12.6
80°-90°	250.3	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°	15563.0	100.0
0°-180°	15563.0	100.0

Coefficient of Utilization

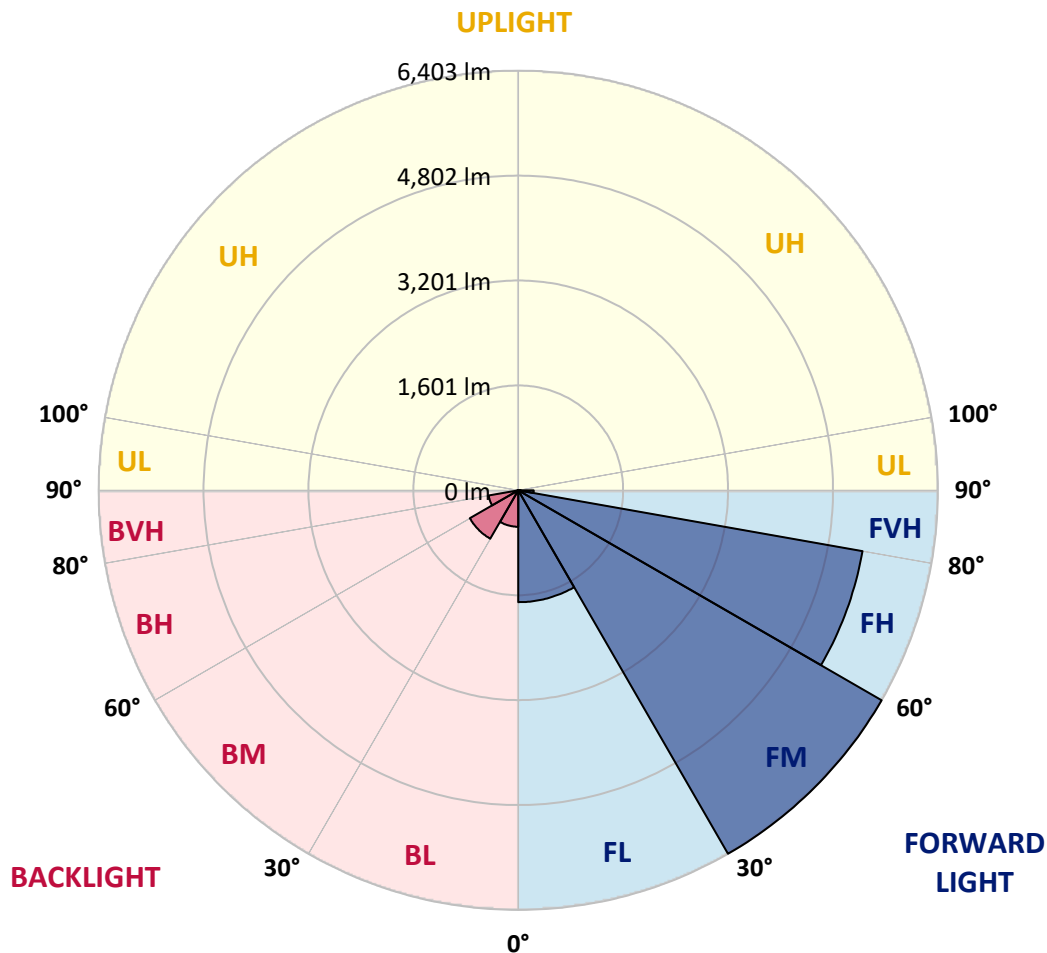


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1707.0	11.0			
FM (30°-60°)	6402.9	41.1			
FH (60°-80°)	5334.4	34.3			G3/7500
FVH (80°-90°)	235.1	1.5			G3/500
BL (0°-30°)	556.4	3.6	B2/1000		
BM (30°-60°)	853.0	5.5	B1/1000		
BH (60°-80°)	459.1	2.9	B1/500		G1/500
BVH (80°-90°)	15.2	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°	5069.6	5069.6	5069.6	5069.6	5069.6	5069.6	5069.6	5069.6	5069.6	5069.6	5069.6
2.5°	5551.1	5508.3	5461.1	5307.0	5164.0	5000.3	4866.9	4774.0	4657.5	4506.3	4468.0
5°	5511.3	5465.5	5317.3	4974.5	4674.4	4382.5	4100.8	3935.7	3730.7	3522.8	3471.2
7.5°	5110.9	5063.0	4849.2	4379.5	3975.5	3553.7	3188.0	2961.7	2730.2	2540.0	2439.0
10°	4694.3	4642.0	4401.6	3831.7	3334.0	2952.9	2684.5	2468.5	2249.5	2046.0	1883.8
12.5°	4407.5	4339.0	4078.0	3432.1	2998.6	2739.8	2489.1	2230.3	1933.9	1715.7	1537.3
15°	4287.4	4209.2	3933.5	3278.0	2879.9	2576.1	2249.5	1931.7	1584.4	1334.5	1170.8
17.5°	4380.3	4278.5	3982.9	3267.7	2730.9	2317.3	1904.4	1531.4	1154.6	901.7	785.2
20°	4695.8	4562.4	4187.1	3264.7	2550.3	2009.9	1486.4	1064.6	760.9	612.0	550.8
22.5°	5192.7	5016.5	4480.5	3288.3	2363.8	1686.9	1073.5	723.3	571.4	494.0	457.9
25°	5792.9	5588.7	4903.0	3371.6	2200.1	1372.8	780.1	571.4	482.2	425.4	395.2
27.5°	6363.6	6197.7	5436.8	3491.8	2073.3	1119.2	633.3	484.4	412.1	374.5	350.2
30°	6933.5	6724.8	5984.6	3634.8	1920.6	947.4	556.7	441.6	369.4	329.6	314.1
32.5°	7347.9	7174.6	6413.7	3738.1	1757.7	835.4	497.7	404.0	345.1	304.5	281.6
35°	7835.2	7639.1	6781.6	3760.9	1653.0	764.6	447.5	363.5	299.3	263.2	238.9
37.5°	8361.6	8117.6	7206.3	3710.8	1571.2	729.9	409.9	345.1	279.4	242.6	216.8
40°	8944.1	8668.3	7614.0	3638.5	1490.8	718.1	381.2	331.0	264.0	226.3	199.8
42.5°	9557.5	9232.4	7967.2	3562.6	1439.9	677.6	378.2	317.0	252.2	211.6	185.1
45°	10072.9	9743.3	8329.9	3537.5	1403.8	633.3	390.8	307.5	244.0	199.8	174.0
47.5°	10483.6	10171.7	8701.5	3593.6	1383.2	592.8	356.1	320.0	239.6	189.5	164.4
50°	10973.9	10620.7	9225.0	3760.9	1352.9	552.2	322.2	366.4	239.6	182.8	156.3
52.5°	11588.8	11239.3	9808.9	4020.5	1292.5	496.2	289.8	367.2	241.8	174.0	146.0
55°	12362.2	12108.5	10642.8	4305.0	1195.9	413.6	250.7	315.6	233.0	157.8	136.4
57.5°	13103.9	12896.7	11403.0	4499.7	1066.9	322.9	218.2	254.4	213.1	138.6	121.7
59°	13306.6	13080.3	11681.7	4508.5	970.3	281.6	202.0	210.1	208.7	129.8	112.8
60°	13306.6	13066.3	11762.0	4461.4	900.2	258.8	191.7	187.3	217.5	123.9	107.6
62.5°	13065.5	12727.9	11501.0	4142.1	734.3	220.5	167.4	154.8	195.4	111.3	95.1
65°	12564.2	12072.4	10611.8	3564.8	654.7	202.0	144.5	126.8	135.7	98.1	83.3
67.5°	11728.1	11061.6	9329.7	2879.9	623.0	196.9	124.6	107.6	102.5	84.1	73.0
70°	10255.7	9516.2	7773.3	2264.2	595.7	194.6	104.7	90.7	82.6	70.8	61.9
72.5°	7464.3	6693.1	5518.6	1770.2	579.5	199.1	84.1	75.9	67.8	55.3	47.9
75°	4269.7	3764.6	3101.8	1169.3	494.0	190.2	64.9	63.4	48.7	39.8	33.2
77.5°	2206.0	2138.9	1858.7	449.0	236.7	83.3	42.8	36.9	28.8	24.3	19.9
80°	951.8	941.5	814.7	129.8	62.7	46.4	24.3	15.5	13.3	10.3	8.1
82.5°	328.8	328.8	289.8	43.5	28.0	22.9	2.9	0.0	0.0	0.0	0.0
85°	66.4	74.5	52.3	0.0	9.6	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°	5069.6	5069.6	5069.6	5069.6	5069.6	5069.6	5069.6	5069.6	5069.6	5069.6	5069.6
2.5°	4421.5	4332.3	4326.4	4270.4	4200.4	4168.6	4150.2	4182.7	4222.5	4226.9	4286.6
5°	3432.1	3338.5	3377.5	3278.0	3297.9	3278.0	3245.6	3251.5	3269.2	3213.9	3282.4
7.5°	2410.2	2339.4	2384.4	2357.9	2393.2	2407.3	2387.4	2357.9	2270.9	2260.5	2320.3
10°	1816.7	1736.3	1688.4	1638.3	1649.3	1672.2	1664.8	1643.4	1588.1	1591.1	1648.6
12.5°	1459.8	1369.9	1274.8	1151.6	1121.4	1138.4	1121.4	1108.9	1055.8	1060.2	1111.1
15°	1107.4	1033.7	934.1	835.4	781.5	786.7	739.5	706.3	673.1	633.3	664.3
17.5°	747.6	702.6	673.1	643.7	579.5	564.8	505.0	440.9	415.8	397.4	410.7
20°	529.4	505.0	493.2	491.8	454.9	436.5	378.2	338.4	325.9	322.2	330.3
22.5°	442.4	424.7	407.7	398.1	379.7	358.3	314.1	294.2	285.3	280.9	286.8
25°	384.9	371.6	353.9	337.7	330.3	307.5	275.7	261.0	255.1	250.7	253.6
27.5°	342.1	330.3	309.7	299.3	293.4	273.5	246.3	234.5	229.3	227.8	227.1
30°	308.2	297.1	278.0	266.2	255.8	238.1	221.9	210.1	205.0	203.5	202.0
32.5°	274.3	265.4	252.9	241.1	230.0	213.8	199.8	190.2	182.1	180.6	179.9
35°	231.5	222.7	216.0	215.3	205.0	189.5	179.2	166.6	160.0	157.8	158.5
37.5°	205.7	193.9	179.2	184.3	181.4	170.3	156.3	143.8	137.1	135.7	135.7
40°	189.5	177.0	160.0	151.1	160.0	157.8	135.7	123.1	116.5	115.8	114.3
42.5°	174.0	161.5	142.3	127.6	132.0	138.6	117.2	105.4	98.8	97.3	95.1
45°	162.9	149.7	128.3	111.3	102.5	116.5	100.3	85.5	81.8	78.9	77.4
47.5°	152.6	140.1	115.8	96.6	81.8	84.1	80.4	70.0	65.6	62.7	61.9
50°	143.8	130.5	104.7	82.6	67.8	61.9	64.9	55.3	51.6	48.7	47.2
52.5°	133.4	120.9	92.9	71.5	56.8	48.7	49.4	43.5	39.8	37.6	36.9
55°	125.3	112.8	83.3	62.7	50.1	39.8	35.4	33.9	31.7	30.2	29.5
57.5°	114.3	102.5	73.7	53.1	42.8	32.4	27.3	27.3	26.5	25.1	24.3
59°	107.6	97.3	67.8	47.9	39.1	28.0	24.3	25.1	24.3	22.9	22.1
60°	102.5	92.9	63.4	44.2	36.9	25.8	22.1	23.6	22.9	21.4	20.6
62.5°	90.7	84.1	54.6	36.9	32.4	20.6	18.4	19.9	19.9	19.2	18.4
65°	79.6	72.3	46.4	31.0	30.2	17.7	14.7	17.7	18.4	17.0	15.5
67.5°	69.3	61.9	40.6	25.1	28.0	14.0	11.1	14.7	19.9	15.5	14.0
70°	59.0	51.6	31.7	19.9	29.5	9.6	8.8	13.3	23.6	17.0	13.3
72.5°	45.7	39.8	22.1	14.7	31.7	6.6	6.6	11.1	26.5	18.4	12.5
75°	31.7	25.8	13.3	8.8	25.8	4.4	4.4	10.3	25.1	17.0	11.8
77.5°	18.4	14.0	4.4	0.7	13.3	0.0	0.7	7.4	17.7	10.3	5.2
80°	6.6	2.9	0.0	0.0	8.1	0.0	0.0	0.0	1.5	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°	5069.6	5069.6	5069.6	5069.6	5069.6	5069.6	5069.6	5069.6	5069.6	5069.6	5069.6
2.5°	4302.1	4401.6	4490.8	4625.8	4785.8	4970.1	5128.6	5298.9	5458.9	5525.3	5571.0
5°	3296.4	3419.6	3563.3	3761.7	4025.6	4350.8	4655.3	4999.6	5369.7	5554.8	5728.8
7.5°	2330.6	2455.9	2634.3	2845.2	3164.5	3551.5	3949.7	4425.2	4926.6	5219.3	5507.6
10°	1675.9	1830.0	1996.6	2284.9	2609.3	2976.4	3386.4	3917.2	4476.1	4800.5	5147.8
12.5°	1140.6	1316.1	1568.2	1891.2	2272.3	2632.1	2988.2	3494.8	4143.6	4465.0	4837.4
15°	684.2	781.5	1048.4	1422.2	1889.7	2338.0	2728.0	3236.0	3927.6	4321.3	4708.3
17.5°	421.7	466.7	612.0	918.7	1409.7	1976.7	2511.2	3148.2	3958.5	4437.8	4852.1
20°	336.2	353.9	400.3	542.6	934.1	1578.5	2267.2	3130.5	4211.4	4801.2	5245.8
22.5°	292.0	308.9	339.9	394.5	587.6	1181.9	2035.7	3146.8	4574.2	5346.1	5865.2
25°	257.3	272.1	301.6	346.5	430.6	832.4	1787.9	3219.0	5046.8	6022.2	6573.7
27.5°	230.0	242.6	269.8	311.1	369.4	581.0	1507.0	3306.8	5607.1	6713.8	7257.9
30°	205.0	216.0	240.4	278.7	320.7	446.8	1198.8	3366.5	6168.2	7257.9	7746.7
32.5°	183.6	191.7	213.8	246.3	278.7	356.1	911.3	3356.9	6584.8	7710.6	8098.4
35°	161.5	169.6	188.7	216.8	242.6	294.2	716.6	3177.7	6947.5	8180.3	8501.0
37.5°	137.1	147.5	165.9	191.0	208.7	258.8	579.5	2961.7	7315.4	8717.0	8950.0
40°	116.5	126.8	143.0	170.3	181.4	245.5	445.3	2698.5	7729.0	9317.2	9442.5
42.5°	96.6	106.2	123.1	146.7	171.1	211.6	329.6	2397.7	8126.4	9830.3	9891.5
45°	78.2	87.7	105.4	129.0	182.8	175.5	255.1	2075.5	8447.2	10257.2	10277.1
47.5°	61.9	70.8	89.2	121.7	170.3	140.1	182.1	1822.6	8716.3	10590.5	10538.1
50°	47.9	55.3	74.5	139.3	148.9	115.8	137.9	1738.5	8957.4	10796.9	10661.2
52.5°	37.6	44.2	61.2	130.5	115.8	95.8	115.8	1817.4	9287.7	10968.0	10730.5
55°	30.2	36.9	47.9	74.5	78.9	81.1	98.8	1891.2	9857.6	11369.0	11139.7
57.5°	25.1	31.7	39.1	52.3	59.7	68.6	87.7	1899.3	10529.3	12035.6	11818.8
59°	22.9	28.8	35.4	46.4	52.3	62.7	82.6	1855.0	10765.9	12278.1	12169.7
60°	21.4	27.3	33.2	42.8	48.7	59.0	79.6	1813.0	10776.3	12269.3	12319.4
62.5°	18.4	24.3	29.5	36.1	41.3	50.1	71.5	1657.4	10339.8	11867.4	12229.5
65°	16.2	21.4	26.5	31.0	35.4	45.0	64.9	1373.6	9594.4	11219.4	11613.8
67.5°	14.7	18.4	24.3	27.3	31.7	39.8	57.5	979.1	8663.2	10426.8	10682.6
70°	13.3	17.7	22.1	25.1	28.8	34.7	49.4	562.6	7315.4	9266.3	9448.4
72.5°	12.5	17.0	19.9	23.6	25.8	31.0	45.0	264.7	5356.4	7423.1	7898.6
75°	11.1	15.5	18.4	22.1	24.3	28.0	38.3	126.8	3562.6	5371.9	5912.3
77.5°	6.6	12.5	17.0	19.9	21.4	24.3	31.7	73.0	2273.8	3718.2	4379.5
80°	0.0	4.4	12.5	17.0	18.4	20.6	24.3	57.5	1216.5	2124.1	2549.6
82.5°	0.0	0.0	8.8	13.3	12.5	14.0	18.4	36.1	548.5	1388.3	1564.5
85°	0.0	0.0	2.9	10.3	8.8	6.6	12.5	12.5	120.2	702.6	876.6
87.5°	0.0	0.0	0.0	0.7	4.4	2.9	5.2	1.5	0.7	52.3	212.3
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°	5069.6	5069.6	5069.6	5069.6	5069.6	5069.6	5069.6	5069.6	5069.6	5069.6
2.5°	5731.0	5785.5	5877.7	5921.2	5899.8	5809.1	5700.7	5590.1	5525.3	5551.1
5°	6083.4	6364.3	6526.5	6580.3	6490.4	6286.9	6020.7	5669.8	5545.2	5511.3
7.5°	6083.4	6612.0	6946.8	7005.7	6805.2	6406.3	5907.2	5359.4	5177.3	5110.9
10°	5869.6	6589.2	7055.9	7149.5	6869.3	6272.9	5604.2	4978.9	4762.9	4694.3
12.5°	5628.5	6403.4	6895.2	7024.2	6794.1	6140.2	5394.0	4721.6	4467.3	4407.5
15°	5480.3	6174.8	6581.8	6675.4	6578.1	6062.8	5343.9	4644.2	4344.9	4287.4
17.5°	5533.4	5997.9	6144.6	6199.1	6264.8	6035.5	5480.3	4813.8	4434.8	4380.3
20°	5733.2	5811.3	5735.4	5804.0	5980.9	6062.0	5805.4	5223.7	4768.8	4695.8
22.5°	6072.3	5714.7	5501.7	5529.0	5744.2	6149.8	6302.4	5809.1	5284.2	5192.7
25°	6467.5	5792.9	5371.9	5347.6	5568.8	6265.5	6756.5	6446.1	5893.9	5792.9
27.5°	6964.5	5968.4	5345.4	5321.0	5507.6	6373.9	7134.0	7075.8	6536.1	6363.6
30°	7347.9	6140.9	5424.3	5368.2	5568.8	6449.1	7437.1	7610.3	7047.8	6933.5
32.5°	7622.9	6344.4	5552.5	5471.4	5741.3	6578.9	7670.8	8099.9	7521.1	7347.9
35°	7832.3	6565.6	5759.7	5626.3	5978.7	6775.7	7889.8	8621.2	8024.7	7835.2
37.5°	8028.4	6876.0	6083.4	5924.1	6351.0	7092.7	8121.3	9212.5	8588.0	8361.6
40°	8301.9	7227.7	6582.5	6441.0	6977.0	7524.8	8410.3	9828.8	9228.7	8944.1
42.5°	8575.4	7605.2	7093.5	7131.8	7757.8	8049.8	8783.4	10480.6	9861.3	9557.5
45°	8825.4	7994.5	7821.2	7998.1	8482.5	8625.6	9154.2	10857.4	10366.3	10072.9
47.5°	9048.0	8481.1	8544.5	9015.6	9306.8	9146.8	9431.4	11182.5	10742.3	10483.6
50°	9306.8	9110.7	9497.8	10164.3	10255.7	9618.7	9683.6	11567.4	11181.8	10973.9
52.5°	9590.0	9774.3	10553.6	11141.2	11111.7	10131.1	9937.2	11998.7	11784.1	11588.8
55°	9911.4	10310.3	11483.3	12055.5	12030.4	10703.3	10357.5	12531.7	12539.1	12362.2
57.5°	10388.4	10771.8	12114.4	12795.0	12837.0	11363.9	11069.7	13129.0	13221.9	13103.9
59°	10730.5	11071.2	12364.4	13103.9	13274.9	11874.8	11590.2	13475.5	13414.3	13306.6
60°	10984.2	11261.4	12488.2	13265.4	13529.3	12221.3	11974.4	13679.0	13437.1	13306.6
62.5°	11611.6	11675.8	12711.6	13448.2	13822.0	12991.1	13055.2	14025.5	13278.6	13065.5
65°	11904.3	11937.5	12708.7	13120.8	13538.9	13590.5	14035.8	14035.8	12891.5	12564.2
67.5°	11781.9	11621.9	12078.3	12035.6	12452.9	13234.4	14404.5	13521.2	12151.3	11728.1
70°	10786.6	10170.9	9968.2	9986.6	10305.9	11511.3	13674.6	12006.8	10750.5	10255.7
72.5°	8975.1	7498.3	6997.6	7569.0	7652.4	8846.8	11653.6	9042.1	7928.1	7464.3
75°	7218.8	5285.6	4471.7	5074.8	5216.3	6474.2	9014.9	5631.4	4630.9	4269.7
77.5°	5186.1	3794.1	3208.7	3166.7	3349.5	4106.0	6396.7	2834.1	2363.8	2206.0
80°	2946.2	2497.2	2688.9	2537.0	2629.2	2567.3	3039.1	1243.1	1018.2	951.8
82.5°	1778.3	1476.1	1598.4	1330.8	1684.0	1466.5	1170.8	398.1	345.8	328.8
85°	1156.8	806.6	420.3	281.6	580.2	937.1	261.7	108.4	83.3	66.4
87.5°	398.9	205.7	20.6	8.8	61.9	174.7	9.6	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)