

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: P324469

Luminaire Tested: **GAN-SA5A-740-U-SLR-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P324469
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-SA5A-740-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 4000K, 615mA 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: 17265 lumens
Efficiency: N/A
Efficacy: 106.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B2 - U0 - G3

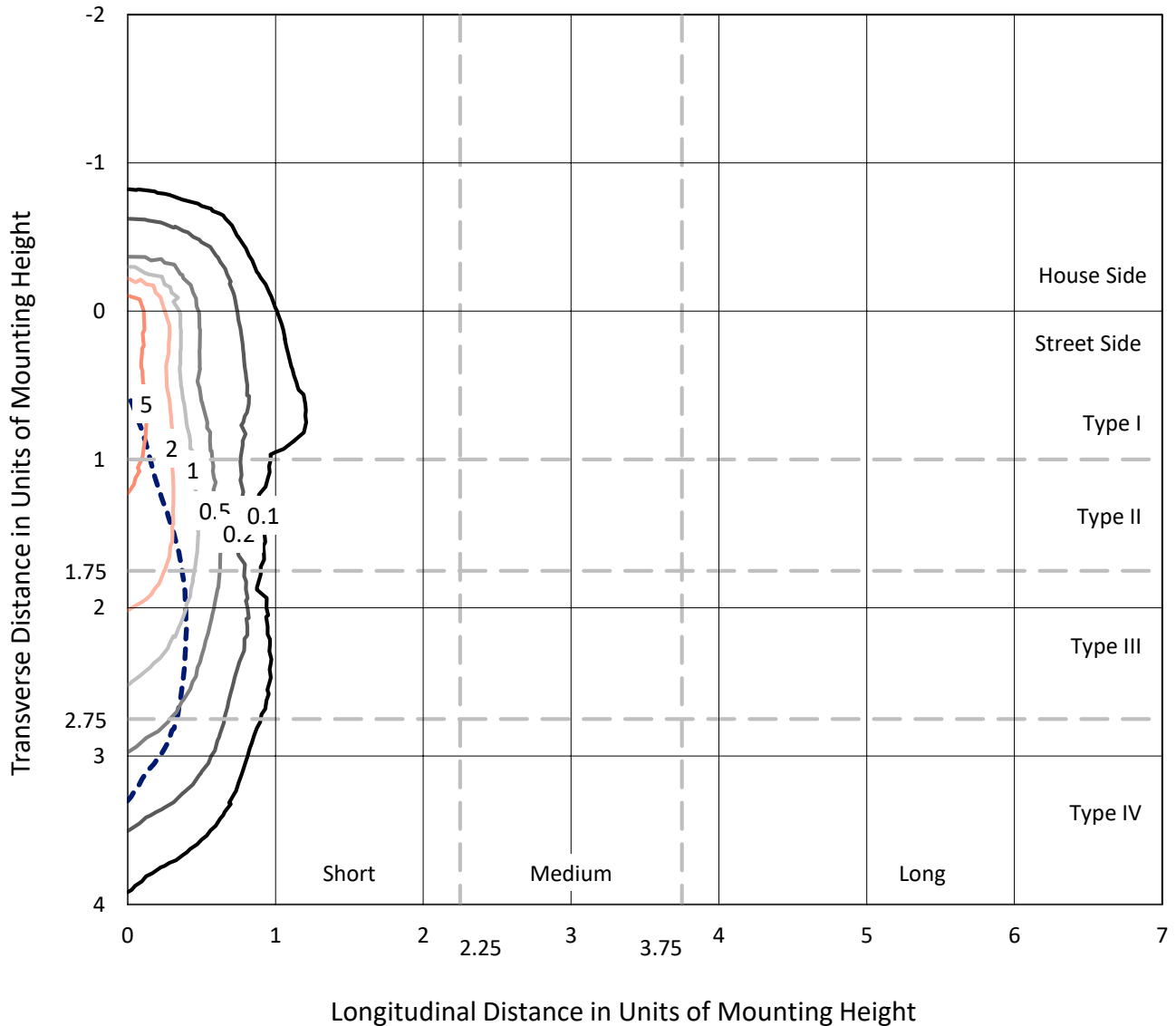
Input Watts (W): 162
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

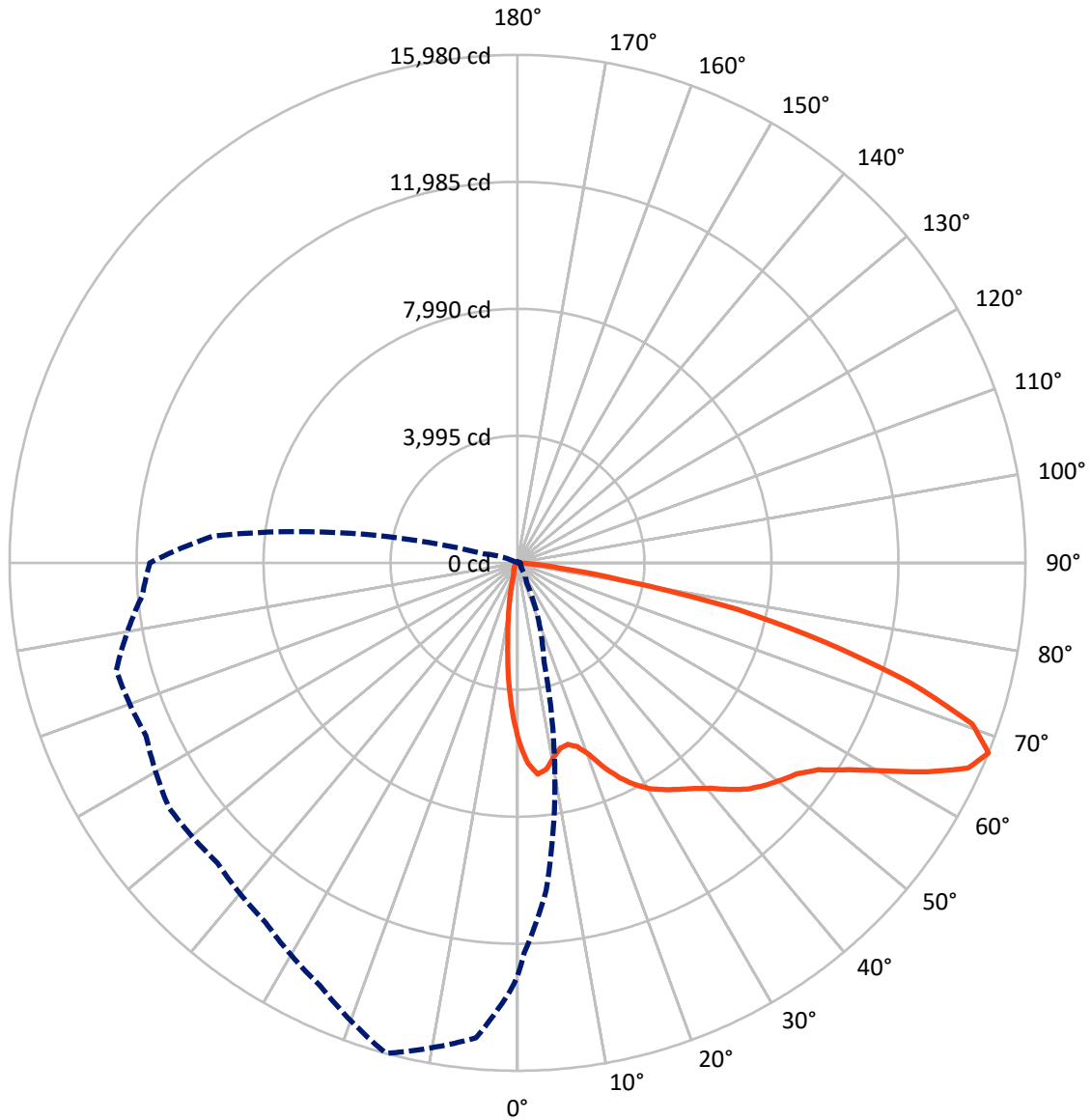
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9 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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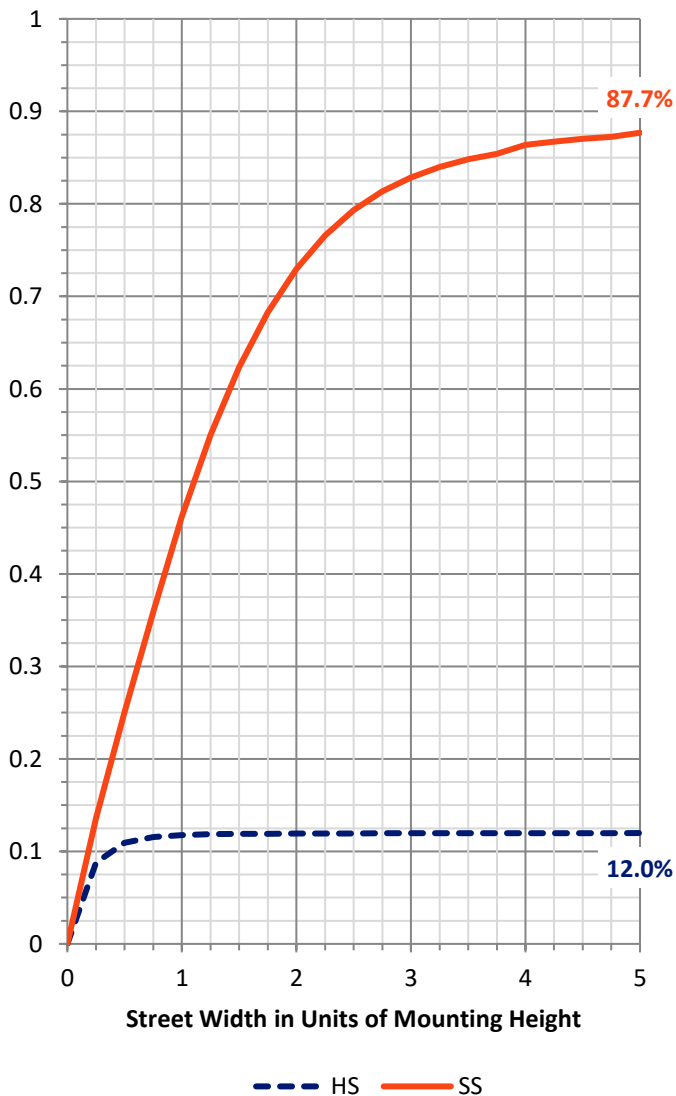
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2089.6	0.0	2089.6
	% Fixture	12.1	0.0	12.1
Street Side	Lumens	15175.4	0.0	15175.4
	% Fixture	87.9	0.0	87.9
Total	Lumens	17265.0	0.0	17265.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	431.6	2.5
10°-20°	859.2	5.0
20°-30°	1220.0	7.1
30°-40°	1802.1	10.4
40°-50°	2598.9	15.1
50°-60°	3648.4	21.1
60°-70°	4252.9	24.6
70°-80°	2174.2	12.6
80°-90°	277.7	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°	17265.0	100.0
0°-180°	17265.0	100.0



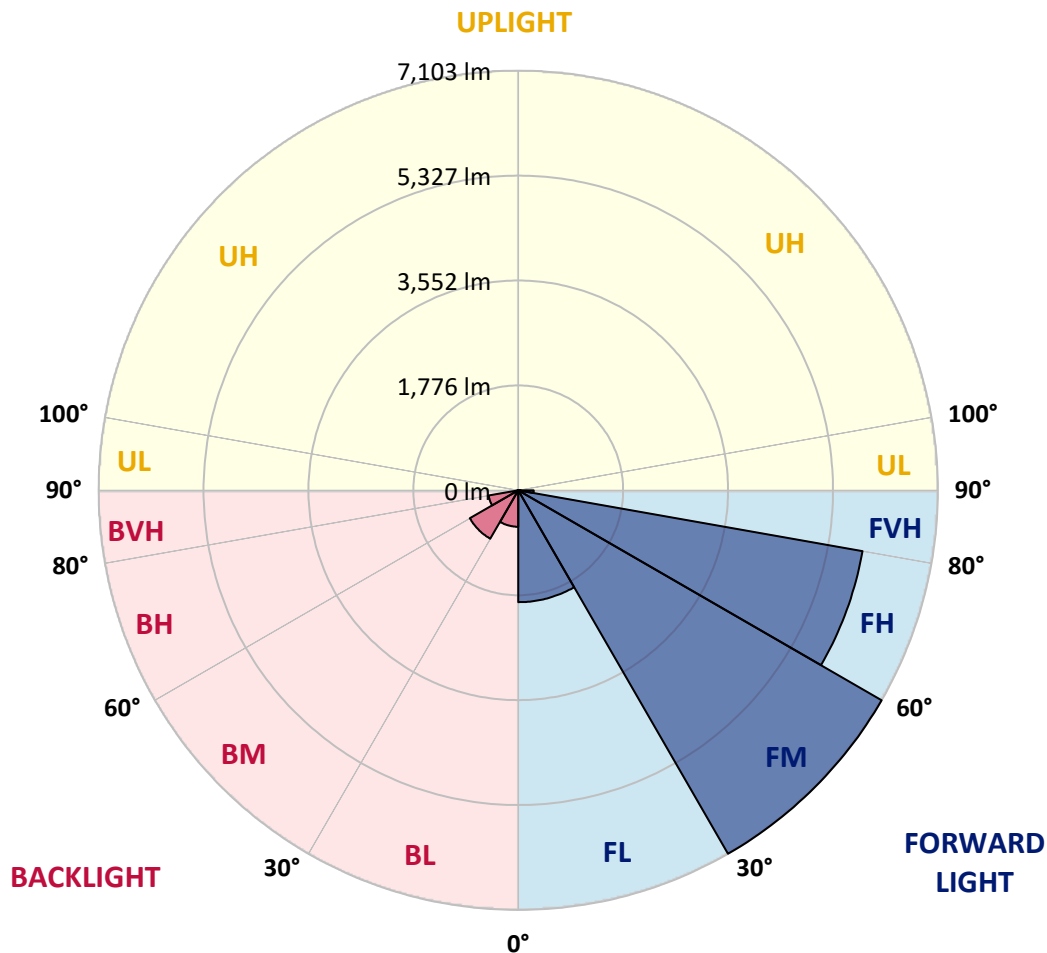
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1893.6	11.0			
FM (30°-60°)	7103.1	41.1			
FH (60°-80°)	5917.8	34.3			G3/7500
FVH (80°-90°)	260.8	1.5			G3/500
BL (0°-30°)	617.2	3.6	B2/1000		
BM (30°-60°)	946.3	5.5	B1/1000		
BH (60°-80°)	509.3	2.9	B2/1000		G2/1000
BVH (80°-90°)	16.9	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°	5624.0	5624.0	5624.0	5624.0	5624.0	5624.0	5624.0	5624.0	5624.0	5624.0	5624.0
2.5°	6158.1	6110.7	6058.4	5887.4	5728.7	5547.2	5399.1	5296.1	5166.8	4999.1	4956.6
5°	6114.0	6063.3	5898.9	5518.5	5185.6	4861.7	4549.3	4366.1	4138.7	3908.0	3850.8
7.5°	5669.8	5616.7	5379.5	4858.5	4410.2	3942.4	3536.7	3285.6	3028.8	2817.7	2705.7
10°	5207.7	5149.6	4883.0	4250.7	3698.6	3275.8	2978.1	2738.4	2495.5	2269.7	2089.8
12.5°	4889.5	4813.5	4523.9	3807.4	3326.5	3039.4	2761.3	2474.2	2145.4	1903.3	1705.4
15°	4756.2	4669.5	4363.6	3636.5	3194.8	2857.8	2495.5	2143.0	1757.7	1480.4	1298.9
17.5°	4859.3	4746.4	4418.4	3625.0	3029.6	2570.7	2112.7	1698.8	1280.9	1000.3	871.1
20°	5209.4	5061.3	4645.0	3621.8	2829.2	2229.7	1648.9	1181.1	844.1	678.9	611.0
22.5°	5760.6	5565.2	4970.5	3647.9	2622.3	1871.4	1190.9	802.4	633.9	548.0	507.9
25°	6426.4	6199.9	5439.2	3740.4	2440.7	1523.0	865.4	633.9	534.9	471.9	438.4
27.5°	7059.5	6875.5	6031.4	3873.7	2300.0	1241.6	702.6	537.4	457.2	415.5	388.5
30°	7691.8	7460.3	6639.1	4032.4	2130.7	1051.0	617.5	489.9	409.8	365.6	348.4
32.5°	8151.4	7959.2	7115.1	4146.9	1949.9	926.7	552.1	448.2	382.8	337.8	312.4
35°	8692.1	8474.5	7523.3	4172.2	1833.8	848.2	496.5	403.2	332.1	292.0	265.0
37.5°	9276.1	9005.3	7994.4	4116.6	1743.0	809.7	454.8	382.8	310.0	269.1	240.5
40°	9922.2	9616.3	8446.7	4036.5	1653.8	796.7	422.9	367.2	292.8	251.1	221.7
42.5°	10602.7	10242.0	8838.5	3952.2	1597.4	751.7	419.6	351.7	279.7	234.7	205.3
45°	11174.5	10808.9	9240.9	3924.4	1557.3	702.6	433.5	341.1	270.7	221.7	193.0
47.5°	11630.1	11284.1	9653.1	3986.6	1534.4	657.6	395.1	355.0	265.8	210.2	182.4
50°	12174.0	11782.2	10233.9	4172.2	1500.9	612.6	357.4	406.5	265.8	202.8	173.4
52.5°	12856.1	12468.4	10881.7	4460.1	1433.8	550.5	321.4	407.3	268.3	193.0	161.9
55°	13714.1	13432.8	11806.7	4775.9	1326.7	458.9	278.1	350.1	258.5	175.0	151.3
57.5°	14537.0	14307.1	12650.0	4991.8	1183.5	358.3	242.1	282.2	236.4	153.8	135.0
59°	14761.9	14510.8	12959.2	5001.6	1076.4	312.4	224.1	233.1	231.5	144.0	125.1
60°	14761.9	14495.2	13048.3	4949.3	998.7	287.1	212.7	207.8	241.3	137.4	119.4
62.5°	14494.4	14119.8	12758.8	4595.1	814.7	244.6	185.7	171.8	216.7	123.5	105.5
65°	13938.2	13392.7	11772.4	3954.7	726.3	224.1	160.3	140.7	150.5	108.8	92.4
67.5°	13010.7	12271.3	10350.0	3194.8	691.1	218.4	138.2	119.4	113.7	93.2	81.0
70°	11377.3	10556.9	8623.4	2511.8	660.9	215.9	116.1	100.6	91.6	78.5	68.7
72.5°	8280.7	7425.1	6122.2	1963.8	642.9	220.8	93.2	84.2	75.2	61.3	53.2
75°	4736.6	4176.3	3441.0	1297.2	548.0	211.0	72.0	70.3	54.0	44.2	36.8
77.5°	2447.2	2372.8	2062.0	498.1	262.6	92.4	47.4	40.9	31.9	27.0	22.1
80°	1055.9	1044.5	903.8	144.0	69.5	51.5	27.0	17.2	14.7	11.5	9.0
82.5°	364.8	364.8	321.4	48.3	31.1	25.4	3.3	0.0	0.0	0.0	0.0
85°	73.6	82.6	58.1	0.0	10.6	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°	5624.0	5624.0	5624.0	5624.0	5624.0	5624.0	5624.0	5624.0	5624.0	5624.0	5624.0
2.5°	4905.1	4806.1	4799.6	4737.4	4659.7	4624.5	4604.1	4640.1	4684.2	4689.2	4755.4
5°	3807.4	3703.6	3746.9	3636.5	3658.6	3636.5	3600.5	3607.0	3626.7	3565.3	3641.4
7.5°	2673.8	2595.3	2645.2	2615.7	2655.0	2670.5	2648.4	2615.7	2519.2	2507.8	2574.0
10°	2015.4	1926.2	1873.0	1817.4	1829.7	1855.1	1846.9	1823.2	1761.8	1765.1	1828.9
12.5°	1619.5	1519.7	1414.2	1277.6	1244.1	1262.9	1244.1	1230.2	1171.3	1176.2	1232.6
15°	1228.5	1146.7	1036.3	926.7	867.0	872.7	820.4	783.6	746.8	702.6	736.9
17.5°	829.4	779.5	746.8	714.0	642.9	626.5	560.3	489.1	461.3	440.9	455.6
20°	587.3	560.3	547.2	545.6	504.7	484.2	419.6	375.4	361.5	357.4	366.4
22.5°	490.8	471.1	452.3	441.7	421.2	397.5	348.4	326.4	316.5	311.6	318.2
25°	427.0	412.2	392.6	374.6	366.4	341.1	305.9	289.5	283.0	278.1	281.4
27.5°	379.5	366.4	343.5	332.1	325.5	303.4	273.2	260.1	254.4	252.7	251.9
30°	341.9	329.6	308.4	295.3	283.8	264.2	246.2	233.1	227.4	225.7	224.1
32.5°	304.3	294.5	280.5	267.5	255.2	237.2	221.7	211.0	202.0	200.4	199.6
35°	256.8	247.0	239.7	238.8	227.4	210.2	198.8	184.9	177.5	175.0	175.9
37.5°	228.2	215.1	198.8	204.5	201.2	188.9	173.4	159.5	152.1	150.5	150.5
40°	210.2	196.3	177.5	167.7	177.5	175.0	150.5	136.6	129.2	128.4	126.8
42.5°	193.0	179.1	157.9	141.5	146.4	153.8	130.0	117.0	109.6	108.0	105.5
45°	180.8	166.0	142.3	123.5	113.7	129.2	111.2	94.9	90.8	87.5	85.9
47.5°	169.3	155.4	128.4	107.1	90.8	93.2	89.2	77.7	72.8	69.5	68.7
50°	159.5	144.8	116.1	91.6	75.2	68.7	72.0	61.3	57.3	54.0	52.3
52.5°	148.0	134.1	103.1	79.3	63.0	54.0	54.8	48.3	44.2	41.7	40.9
55°	139.0	125.1	92.4	69.5	55.6	44.2	39.3	37.6	35.2	33.5	32.7
57.5°	126.8	113.7	81.8	58.9	47.4	36.0	30.3	30.3	29.4	27.8	27.0
59°	119.4	108.0	75.2	53.2	43.3	31.1	27.0	27.8	27.0	25.4	24.5
60°	113.7	103.1	70.3	49.1	40.9	28.6	24.5	26.2	25.4	23.7	22.9
62.5°	100.6	93.2	60.5	40.9	36.0	22.9	20.4	22.1	22.1	21.3	20.4
65°	88.3	80.2	51.5	34.4	33.5	19.6	16.4	19.6	20.4	18.8	17.2
67.5°	76.9	68.7	45.0	27.8	31.1	15.5	12.3	16.4	22.1	17.2	15.5
70°	65.4	57.3	35.2	22.1	32.7	10.6	9.8	14.7	26.2	18.8	14.7
72.5°	50.7	44.2	24.5	16.4	35.2	7.4	7.4	12.3	29.4	20.4	13.9
75°	35.2	28.6	14.7	9.8	28.6	4.9	4.9	11.5	27.8	18.8	13.1
77.5°	20.4	15.5	4.9	0.8	14.7	0.0	0.8	8.2	19.6	11.5	5.7
80°	7.4	3.3	0.0	0.0	9.0	0.0	0.0	0.0	1.6	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°	5624.0	5624.0	5624.0	5624.0	5624.0	5624.0	5624.0	5624.0	5624.0	5624.0	5624.0
2.5°	4772.6	4883.0	4982.0	5131.7	5309.1	5513.6	5689.5	5878.4	6055.9	6129.5	6180.2
5°	3656.9	3793.5	3953.0	4173.0	4465.9	4826.6	5164.4	5546.3	5956.9	6162.2	6355.3
7.5°	2585.5	2724.5	2922.4	3156.4	3510.5	3939.9	4381.6	4909.2	5465.4	5790.1	6109.9
10°	1859.1	2030.1	2214.9	2534.7	2894.6	3302.0	3756.7	4345.6	4965.6	5325.5	5710.7
12.5°	1265.3	1460.0	1739.7	2098.0	2520.8	2920.0	3315.0	3877.0	4596.7	4953.3	5366.4
15°	759.0	867.0	1163.1	1577.8	2096.3	2593.6	3026.3	3589.9	4357.1	4793.8	5223.3
17.5°	467.9	517.7	678.9	1019.1	1563.9	2192.9	2785.8	3492.5	4391.4	4923.1	5382.8
20°	373.0	392.6	444.1	602.0	1036.3	1751.2	2515.1	3472.9	4672.0	5326.3	5819.5
22.5°	323.9	342.7	377.1	437.6	651.9	1311.1	2258.3	3490.9	5074.4	5930.8	6506.6
25°	285.5	301.8	334.5	384.4	477.7	923.4	1983.5	3571.1	5598.7	6680.8	7292.6
27.5°	255.2	269.1	299.4	345.2	409.8	644.5	1671.8	3668.4	6220.3	7448.0	8051.6
30°	227.4	239.7	266.6	309.2	355.8	495.7	1329.9	3734.6	6842.7	8051.6	8593.9
32.5°	203.7	212.7	237.2	273.2	309.2	395.1	1011.0	3724.0	7304.9	8553.8	8984.1
35°	179.1	188.1	209.4	240.5	269.1	326.4	795.0	3525.3	7707.3	9074.9	9430.7
37.5°	152.1	163.6	184.0	211.8	231.5	287.1	642.9	3285.6	8115.4	9670.3	9928.8
40°	129.2	140.7	158.7	188.9	201.2	272.4	494.0	2993.6	8574.3	10336.1	10475.1
42.5°	107.1	117.8	136.6	162.8	189.8	234.7	365.6	2659.9	9015.2	10905.4	10973.3
45°	86.7	97.3	117.0	143.1	202.8	194.7	283.0	2302.5	9370.9	11379.0	11401.0
47.5°	68.7	78.5	99.0	135.0	188.9	155.4	202.0	2021.9	9669.5	11748.7	11690.6
50°	53.2	61.3	82.6	154.6	165.2	128.4	153.0	1928.7	9937.0	11977.7	11827.2
52.5°	41.7	49.1	67.9	144.8	128.4	106.3	128.4	2016.2	10303.4	12167.4	11904.1
55°	33.5	40.9	53.2	82.6	87.5	90.0	109.6	2098.0	10935.6	12612.4	12358.0
57.5°	27.8	35.2	43.3	58.1	66.3	76.1	97.3	2107.0	11680.8	13351.8	13111.3
59°	25.4	31.9	39.3	51.5	58.1	69.5	91.6	2057.9	11943.3	13620.9	13500.6
60°	23.7	30.3	36.8	47.4	54.0	65.4	88.3	2011.3	11954.8	13611.1	13666.7
62.5°	20.4	27.0	32.7	40.1	45.8	55.6	79.3	1838.7	11470.6	13165.3	13566.9
65°	18.0	23.7	29.4	34.4	39.3	49.9	72.0	1523.8	10643.6	12446.3	12883.9
67.5°	16.4	20.4	27.0	30.3	35.2	44.2	63.8	1086.2	9610.6	11567.1	11850.9
70°	14.7	19.6	24.5	27.8	31.9	38.4	54.8	624.1	8115.4	10279.7	10481.7
72.5°	13.9	18.8	22.1	26.2	28.6	34.4	49.9	293.6	5942.2	8234.9	8762.4
75°	12.3	17.2	20.4	24.5	27.0	31.1	42.5	140.7	3952.2	5959.4	6558.9
77.5°	7.4	13.9	18.8	22.1	23.7	27.0	35.2	81.0	2522.5	4124.8	4858.5
80°	0.0	4.9	13.9	18.8	20.4	22.9	27.0	63.8	1349.6	2356.4	2828.4
82.5°	0.0	0.0	9.8	14.7	13.9	15.5	20.4	40.1	608.5	1540.1	1735.6
85°	0.0	0.0	3.3	11.5	9.8	7.4	13.9	13.9	133.3	779.5	972.5
87.5°	0.0	0.0	0.0	0.8	4.9	3.3	5.7	1.6	0.8	58.1	235.6
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°	5624.0	5624.0	5624.0	5624.0	5624.0	5624.0	5624.0	5624.0	5624.0	5624.0
2.5°	6357.7	6418.2	6520.5	6568.7	6545.0	6444.4	6324.2	6201.5	6129.5	6158.1
5°	6748.7	7060.3	7240.3	7300.0	7200.2	6974.4	6679.2	6289.8	6151.6	6114.0
7.5°	6748.7	7335.1	7706.5	7771.9	7549.4	7106.9	6553.2	5945.5	5743.5	5669.8
10°	6511.5	7309.8	7827.5	7931.4	7620.6	6958.9	6217.0	5523.4	5283.8	5207.7
12.5°	6244.0	7103.7	7649.2	7792.4	7537.2	6811.7	5983.9	5238.0	4955.8	4889.5
15°	6079.6	6850.1	7301.6	7405.5	7297.5	6725.8	5928.3	5152.1	4820.0	4756.2
17.5°	6138.5	6653.8	6816.6	6877.1	6949.9	6695.5	6079.6	5340.2	4919.8	4859.3
20°	6360.2	6446.9	6362.6	6438.7	6635.0	6725.0	6440.3	5795.0	5290.3	5209.4
22.5°	6736.4	6339.7	6103.3	6133.6	6372.4	6822.3	6991.6	6444.4	5862.1	5760.6
25°	7174.8	6426.4	5959.4	5932.4	6177.8	6950.7	7495.5	7151.1	6538.5	6426.4
27.5°	7726.1	6621.1	5929.9	5903.0	6109.9	7070.9	7914.2	7849.6	7250.9	7059.5
30°	8151.4	6812.5	6017.5	5955.3	6177.8	7154.4	8250.4	8442.6	7818.5	7691.8
32.5°	8456.5	7038.2	6159.8	6069.8	6369.2	7298.3	8509.7	8985.7	8343.6	8151.4
35°	8688.8	7283.6	6389.6	6241.6	6632.5	7516.7	8752.6	9564.0	8902.3	8692.1
37.5°	8906.4	7628.0	6748.7	6572.0	7045.6	7868.4	9009.4	10220.0	9527.2	9276.1
40°	9209.8	8018.1	7302.4	7145.4	7740.0	8347.7	9330.1	10903.7	10237.9	9922.2
42.5°	9513.3	8436.9	7869.2	7911.8	8606.2	8930.1	9743.9	11626.8	10939.7	10602.7
45°	9790.5	8868.7	8676.5	8872.8	9410.2	9568.9	10155.3	12044.7	11500.0	11174.5
47.5°	10037.6	9408.6	9478.9	10001.6	10324.6	10147.2	10462.9	12405.4	11917.1	11630.1
50°	10324.6	10107.1	10536.5	11275.9	11377.3	10670.6	10742.6	12832.4	12404.6	12174.0
52.5°	10638.7	10843.2	11707.8	12359.6	12326.9	11239.1	11024.0	13310.9	13072.9	12856.1
55°	10995.3	11437.8	12739.2	13373.9	13346.1	11873.8	11490.2	13902.2	13910.4	13714.1
57.5°	11524.5	11949.9	13439.3	14194.2	14240.9	12606.7	12280.3	14564.8	14667.8	14537.0
59°	11904.1	12281.9	13716.6	14537.0	14726.7	13173.5	12857.8	14949.2	14881.3	14761.9
60°	12185.4	12493.0	13854.0	14716.1	15008.9	13557.9	13283.9	15174.9	14906.7	14761.9
62.5°	12881.5	12952.6	14101.8	14918.9	15333.6	14411.8	14483.0	15559.4	14730.8	14494.4
65°	13206.2	13243.0	14098.5	14555.8	15019.5	15076.8	15570.8	15570.8	14301.4	13938.2
67.5°	13070.4	12892.9	13399.2	13351.8	13814.7	14681.7	15979.8	14999.9	13480.2	13010.7
70°	11966.2	11283.3	11058.3	11078.8	11432.9	12770.2	15170.0	13319.9	11926.1	11377.3
72.5°	9956.6	8318.3	7762.9	8396.8	8489.2	9814.3	12928.1	10031.0	8795.1	8280.7
75°	8008.3	5863.7	4960.7	5629.8	5786.8	7182.2	10000.8	6247.3	5137.4	4736.6
77.5°	5753.3	4209.0	3559.6	3513.0	3715.8	4555.0	7096.3	3144.1	2622.3	2447.2
80°	3268.4	2770.3	2983.0	2814.5	2916.7	2848.0	3371.5	1379.0	1129.6	1055.9
82.5°	1972.8	1637.5	1773.3	1476.4	1868.1	1626.8	1298.9	441.7	383.6	364.8
85°	1283.3	894.8	466.2	312.4	643.7	1039.6	290.4	120.2	92.4	73.6
87.5°	442.5	228.2	22.9	9.8	68.7	193.8	10.6	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)