

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: P324528

Luminaire Tested: **GAN-SA4C-750-U-SLR-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P324528
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-750-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 5000K, 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: 21151 lumens
Efficiency: N/A
Efficacy: 94.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B2 - U0 - G3

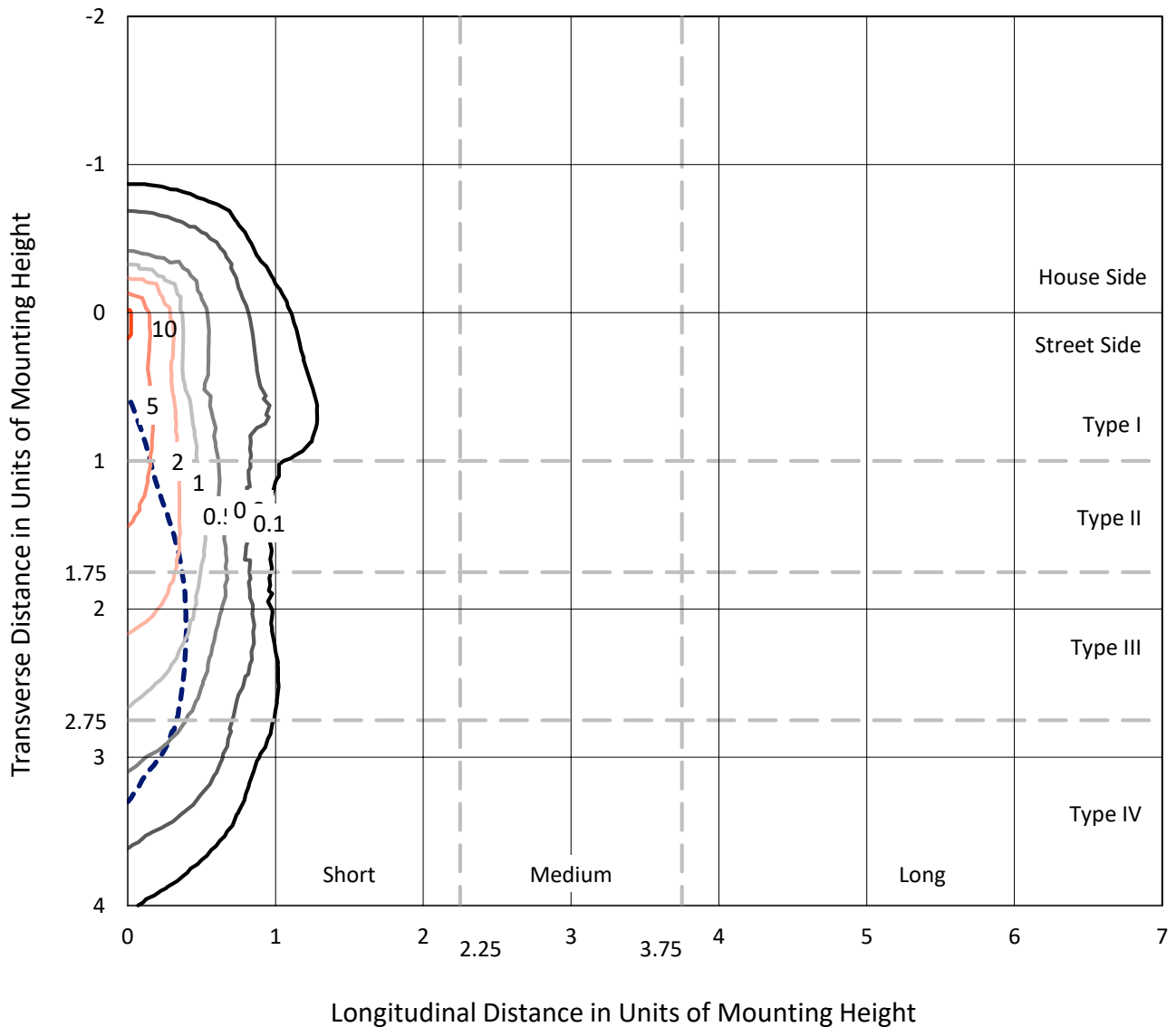
Input Watts (W): 225
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

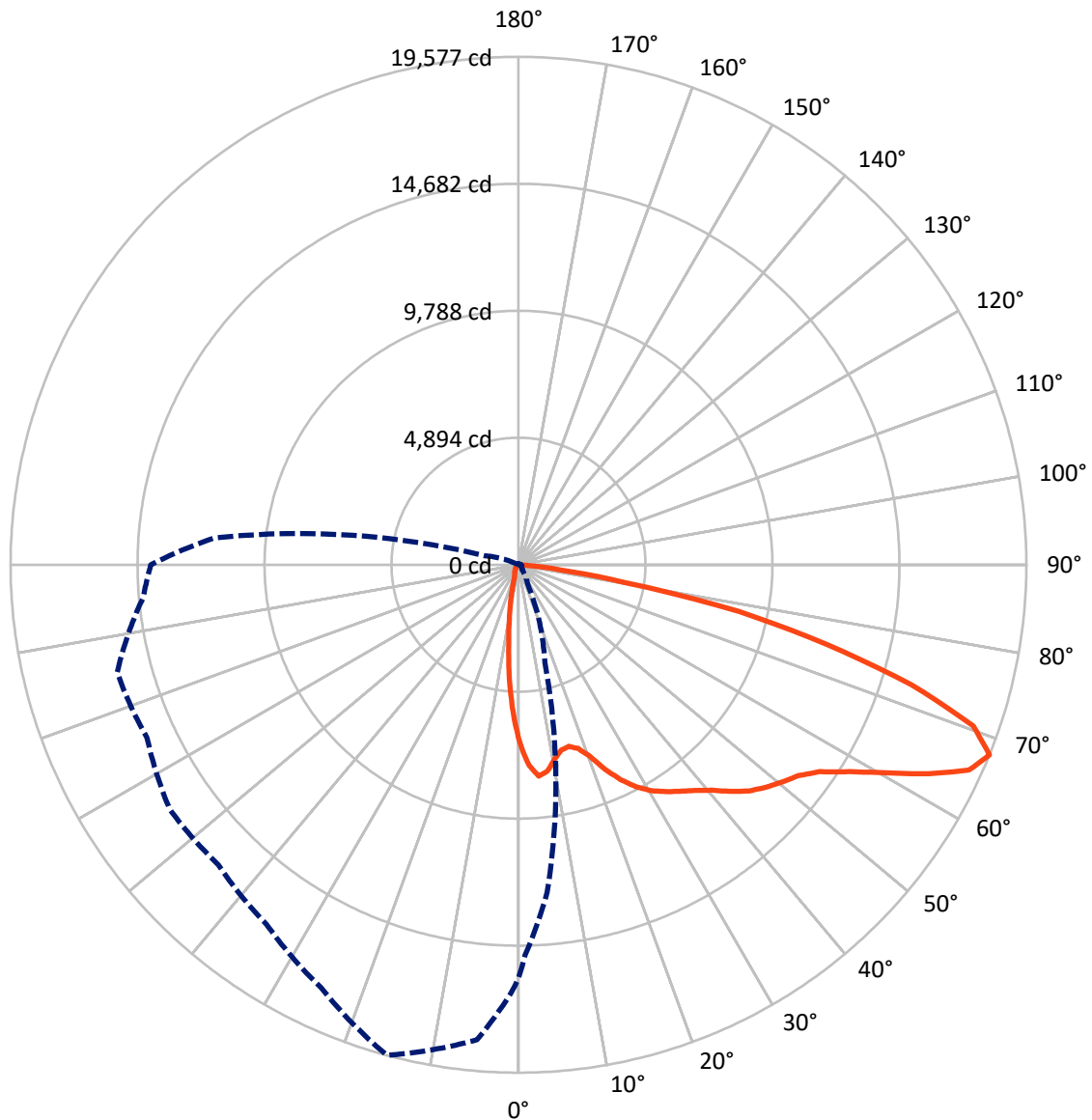
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11 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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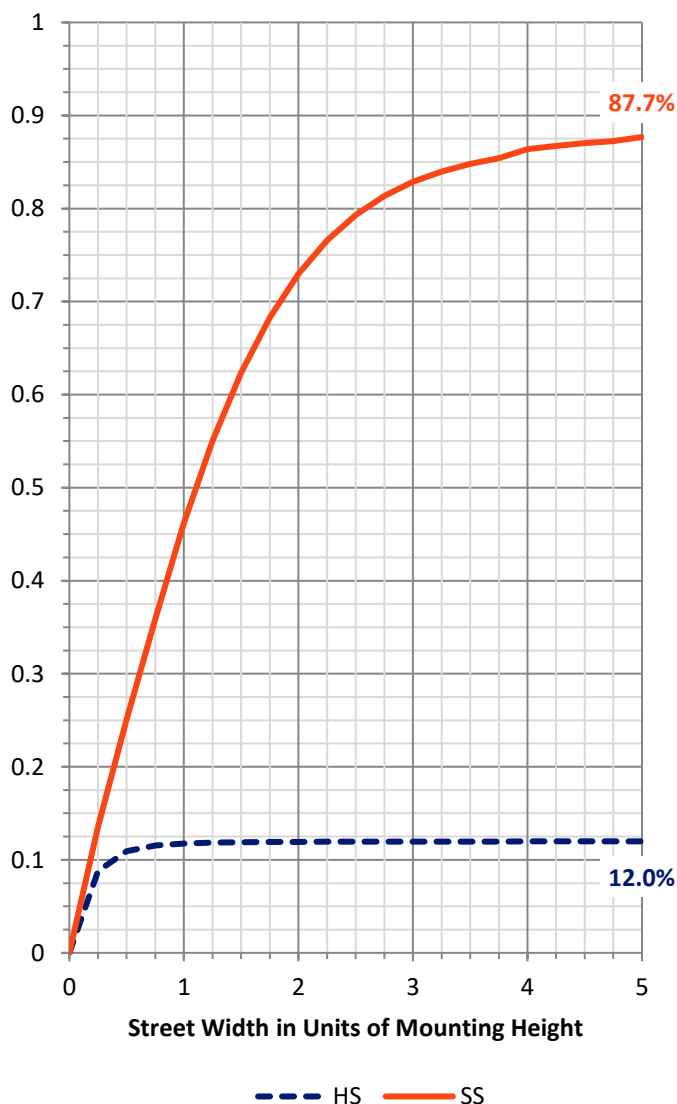
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2560.0	0.0	2560.0
	% Fixture	12.1	0.0	12.1
Street Side	Lumens	18591.0	0.0	18591.0
	% Fixture	87.9	0.0	87.9
Total	Lumens	21151.0	0.0	21151.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	528.8	2.5
10°-20°	1052.5	5.0
20°-30°	1494.6	7.1
30°-40°	2207.7	10.4
40°-50°	3183.9	15.1
50°-60°	4469.5	21.1
60°-70°	5210.2	24.6
70°-80°	2663.6	12.6
80°-90°	340.2	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°	21151.0	100.0
0°-180°	21151.0	100.0

Coefficient of Utilization



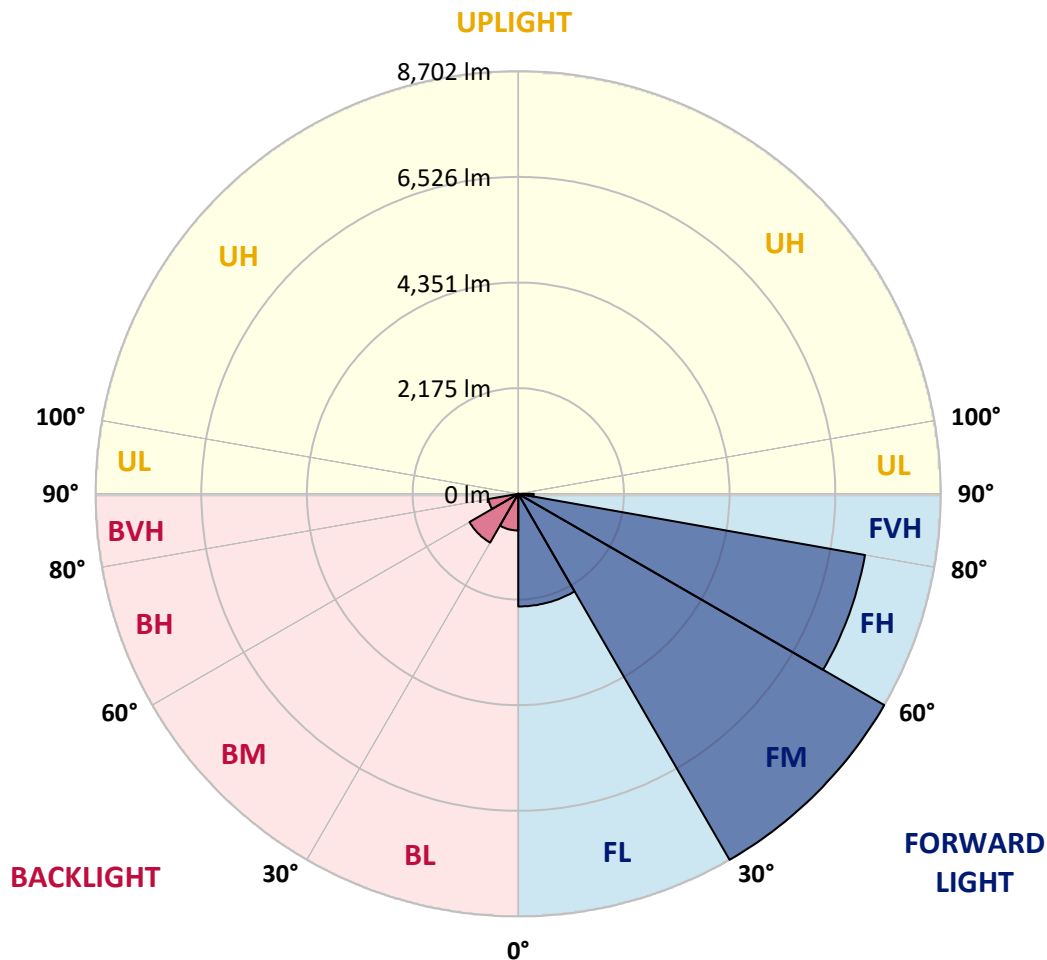
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2319.9	11.0			
FM (30°-60°)	8701.9	41.1			
FH (60°-80°)	7249.8	34.3			G3/7500
FVH (80°-90°)	319.5	1.5			G3/500
BL (0°-30°)	756.1	3.6	B2/1000		
BM (30°-60°)	1159.2	5.5	B2/2500		
BH (60°-80°)	623.9	2.9	B2/1000		G2/1000
BVH (80°-90°)	20.7	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-G3

Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	6889.9	6889.9	6889.9	6889.9	6889.9	6889.9	6889.9	6889.9	6889.9	6889.9	6889.9
2.5°	7544.2	7486.1	7422.0	7212.5	7018.2	6795.7	6614.3	6488.1	6329.8	6124.4	6072.2
5°	7490.1	7428.0	7226.6	6760.6	6352.8	5956.0	5573.2	5348.8	5070.2	4787.7	4717.5
7.5°	6946.0	6880.9	6590.3	5952.0	5402.9	4829.7	4332.7	4025.1	3710.5	3452.0	3314.7
10°	6379.9	6308.7	5982.1	5207.5	4531.1	4013.1	3648.4	3354.8	3057.2	2780.6	2560.2
12.5°	5990.1	5896.9	5542.2	4664.4	4075.2	3723.5	3382.8	3031.1	2628.3	2331.7	2089.2
15°	5826.8	5720.5	5345.8	4455.0	3913.9	3501.1	3057.2	2625.3	2153.3	1813.7	1591.2
17.5°	5953.0	5814.7	5412.9	4441.0	3711.5	3149.4	2588.2	2081.2	1569.2	1225.5	1067.2
20°	6381.9	6200.5	5690.5	4437.0	3466.0	2731.5	2020.1	1446.9	1034.1	831.7	748.5
22.5°	7057.2	6817.8	6089.3	4469.0	3212.5	2292.6	1458.9	983.0	776.6	671.4	622.3
25°	7872.9	7595.3	6663.4	4582.2	2990.0	1865.8	1060.1	776.6	655.3	578.2	537.1
27.5°	8648.4	8423.0	7388.9	4745.6	2817.7	1521.1	860.7	658.3	560.1	509.0	476.0
30°	9423.0	9139.4	8133.4	4940.0	2610.3	1287.6	756.5	600.2	502.0	447.9	426.9
32.5°	9986.1	9750.7	8716.6	5080.2	2388.8	1135.3	676.4	549.1	468.9	413.8	382.8
35°	10648.5	10381.9	9216.6	5111.3	2246.5	1039.1	608.2	494.0	406.8	357.7	324.7
37.5°	11363.9	11032.3	9793.8	5043.2	2135.3	992.0	557.1	468.9	379.8	329.7	294.6
40°	12155.5	11780.8	10347.9	4945.0	2026.1	976.0	518.0	449.9	358.7	307.6	271.5
42.5°	12989.2	12547.3	10827.8	4841.8	1956.9	920.9	514.0	430.9	342.7	287.6	251.5
45°	13689.6	13241.7	11320.8	4807.7	1907.8	860.7	531.1	417.8	331.7	271.5	236.5
47.5°	14247.7	13823.9	11825.9	4883.9	1879.8	805.6	484.0	434.9	325.7	257.5	223.5
50°	14914.1	14434.1	12537.3	5111.3	1838.7	750.5	437.9	498.0	325.7	248.5	212.4
52.5°	15749.8	15274.8	13330.9	5464.0	1756.5	674.4	393.8	499.0	328.7	236.5	198.4
55°	16800.9	16456.2	14464.2	5850.8	1625.3	562.1	340.7	428.9	316.6	214.4	185.4
57.5°	17808.9	17527.4	15497.3	6115.3	1449.9	438.9	296.6	345.7	289.6	188.4	165.3
59°	18084.5	17776.9	15876.0	6127.4	1318.7	382.8	274.6	285.6	283.6	176.4	153.3
60°	18084.5	17757.8	15985.2	6063.2	1223.5	351.7	260.5	254.5	295.6	168.3	146.3
62.5°	17756.8	17297.9	15630.5	5629.4	998.0	299.6	227.5	210.4	265.5	151.3	129.3
65°	17075.4	16407.1	14422.1	4844.8	889.8	274.6	196.4	172.3	184.4	133.3	113.2
67.5°	15939.2	15033.3	12679.6	3913.9	846.7	267.5	169.3	146.3	139.3	114.2	99.2
70°	13938.1	12933.1	10564.3	3077.2	809.6	264.5	142.3	123.2	112.2	96.2	84.2
72.5°	10144.5	9096.4	7500.1	2405.9	787.6	270.5	114.2	103.2	92.2	75.2	65.1
75°	5802.7	5116.3	4215.5	1589.2	671.4	258.5	88.2	86.2	66.1	54.1	45.1
77.5°	2998.0	2906.9	2526.1	610.2	321.6	113.2	58.1	50.1	39.1	33.1	27.1
80°	1293.6	1279.6	1107.2	176.4	85.2	63.1	33.1	21.0	18.0	14.0	11.0
82.5°	446.9	446.9	393.8	59.1	38.1	31.1	4.0	0.0	0.0	0.0	0.0
85°	90.2	101.2	71.1	0.0	13.0	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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	6889.9	6889.9	6889.9	6889.9	6889.9	6889.9	6889.9	6889.9	6889.9	6889.9	6889.9
2.5°	6009.1	5887.9	5879.9	5803.7	5708.5	5665.4	5640.4	5684.5	5738.6	5744.6	5825.8
5°	4664.4	4537.2	4590.3	4455.0	4482.0	4455.0	4410.9	4418.9	4443.0	4367.8	4461.0
7.5°	3275.6	3179.4	3240.5	3204.5	3252.6	3271.6	3244.5	3204.5	3086.2	3072.2	3153.4
10°	2469.0	2359.8	2294.6	2226.5	2241.5	2272.6	2262.6	2233.5	2158.4	2162.4	2240.5
12.5°	1984.0	1861.8	1732.5	1565.2	1524.1	1547.1	1524.1	1507.0	1434.9	1440.9	1510.0
15°	1505.0	1404.8	1269.6	1135.3	1062.1	1069.2	1005.0	959.9	914.8	860.7	902.8
17.5°	1016.0	954.9	914.8	874.8	787.6	767.5	686.4	599.2	565.1	540.1	558.1
20°	719.5	686.4	670.4	668.3	618.2	593.2	514.0	459.9	442.9	437.9	448.9
22.5°	601.2	577.2	554.1	541.1	516.0	487.0	426.9	399.8	387.8	381.8	389.8
25°	523.1	505.0	481.0	458.9	448.9	417.8	374.8	354.7	346.7	340.7	344.7
27.5°	464.9	448.9	420.8	406.8	398.8	371.7	334.7	318.6	311.6	309.6	308.6
30°	418.8	403.8	377.8	361.7	347.7	323.7	301.6	285.6	278.6	276.6	274.6
32.5°	372.8	360.7	343.7	327.7	312.6	290.6	271.5	258.5	247.5	245.5	244.5
35°	314.6	302.6	293.6	292.6	278.6	257.5	243.5	226.5	217.4	214.4	215.4
37.5°	279.6	263.5	243.5	250.5	246.5	231.5	212.4	195.4	186.4	184.4	184.4
40°	257.5	240.5	217.4	205.4	217.4	214.4	184.4	167.3	158.3	157.3	155.3
42.5°	236.5	219.4	193.4	173.3	179.4	188.4	159.3	143.3	134.3	132.3	129.3
45°	221.4	203.4	174.4	151.3	139.3	158.3	136.3	116.2	111.2	107.2	105.2
47.5°	207.4	190.4	157.3	131.3	111.2	114.2	109.2	95.2	89.2	85.2	84.2
50°	195.4	177.4	142.3	112.2	92.2	84.2	88.2	75.2	70.1	66.1	64.1
52.5°	181.4	164.3	126.3	97.2	77.2	66.1	67.1	59.1	54.1	51.1	50.1
55°	170.3	153.3	113.2	85.2	68.1	54.1	48.1	46.1	43.1	41.1	40.1
57.5°	155.3	139.3	100.2	72.1	58.1	44.1	37.1	37.1	36.1	34.1	33.1
59°	146.3	132.3	92.2	65.1	53.1	38.1	33.1	34.1	33.1	31.1	30.1
60°	139.3	126.3	86.2	60.1	50.1	35.1	30.1	32.1	31.1	29.1	28.1
62.5°	123.2	114.2	74.1	50.1	44.1	28.1	25.1	27.1	27.1	26.1	25.1
65°	108.2	98.2	63.1	42.1	41.1	24.0	20.0	24.0	25.1	23.0	21.0
67.5°	94.2	84.2	55.1	34.1	38.1	19.0	15.0	20.0	27.1	21.0	19.0
70°	80.2	70.1	43.1	27.1	40.1	13.0	12.0	18.0	32.1	23.0	18.0
72.5°	62.1	54.1	30.1	20.0	43.1	9.0	9.0	15.0	36.1	25.1	17.0
75°	43.1	35.1	18.0	12.0	35.1	6.0	6.0	14.0	34.1	23.0	16.0
77.5°	25.1	19.0	6.0	1.0	18.0	0.0	1.0	10.0	24.0	14.0	7.0
80°	9.0	4.0	0.0	0.0	11.0	0.0	0.0	0.0	2.0	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°	6889.9	6889.9	6889.9	6889.9	6889.9	6889.9	6889.9	6889.9	6889.9	6889.9	6889.9
2.5°	5846.8	5982.1	6103.3	6286.7	6504.1	6754.6	6970.1	7201.5	7419.0	7509.1	7571.3
5°	4480.0	4647.4	4842.8	5112.3	5471.0	5912.9	6326.8	6794.7	7297.7	7549.2	7785.7
7.5°	3167.4	3337.7	3580.2	3866.8	4300.7	4826.7	5367.8	6014.1	6695.5	7093.3	7485.1
10°	2277.6	2487.0	2713.5	3105.3	3546.2	4045.2	4602.3	5323.7	6083.3	6524.2	6996.1
12.5°	1550.1	1788.6	2131.3	2570.2	3088.2	3577.2	4061.2	4749.6	5631.4	6068.2	6574.3
15°	929.9	1062.1	1424.9	1932.9	2568.2	3177.4	3707.5	4397.9	5337.8	5872.8	6398.9
17.5°	573.2	634.3	831.7	1248.5	1915.9	2686.4	3412.9	4278.6	5379.9	6031.2	6594.3
20°	456.9	481.0	544.1	737.5	1269.6	2145.3	3081.2	4254.6	5723.5	6525.2	7129.4
22.5°	396.8	419.8	461.9	536.1	798.6	1606.2	2766.6	4276.6	6216.5	7265.7	7971.1
25°	349.7	369.7	409.8	471.0	585.2	1131.3	2429.9	4374.8	6858.8	8184.5	8934.0
27.5°	312.6	329.7	366.7	422.9	502.0	789.6	2048.1	4494.1	7620.4	9124.4	9863.9
30°	278.6	293.6	326.7	378.8	435.9	607.2	1629.3	4575.2	8382.9	9863.9	10528.2
32.5°	249.5	260.5	290.6	334.7	378.8	484.0	1238.5	4562.2	8949.1	10479.1	11006.2
35°	219.4	230.5	256.5	294.6	329.7	399.8	974.0	4318.7	9442.0	11117.4	11553.3
37.5°	186.4	200.4	225.5	259.5	283.6	351.7	787.6	4025.1	9942.1	11846.9	12163.5
40°	158.3	172.3	194.4	231.5	246.5	333.7	605.2	3667.4	10504.2	12662.5	12832.9
42.5°	131.3	144.3	167.3	199.4	232.5	287.6	447.9	3258.6	11044.3	13360.0	13443.1
45°	106.2	119.2	143.3	175.4	248.5	238.5	346.7	2820.7	11480.2	13940.1	13967.2
47.5°	84.2	96.2	121.2	165.3	231.5	190.4	247.5	2477.0	11845.9	14393.0	14321.9
50°	65.1	75.2	101.2	189.4	202.4	157.3	187.4	2362.8	12173.6	14673.6	14489.2
52.5°	51.1	60.1	83.2	177.4	157.3	130.3	157.3	2470.0	12622.5	14906.1	14583.4
55°	41.1	50.1	65.1	101.2	107.2	110.2	134.3	2570.2	13397.0	15451.2	15139.5
57.5°	34.1	43.1	53.1	71.1	81.2	93.2	119.2	2581.2	14309.9	16357.0	16062.4
59°	31.1	39.1	48.1	63.1	71.1	85.2	112.2	2521.1	14631.5	16686.7	16539.4
60°	29.1	37.1	45.1	58.1	66.1	80.2	108.2	2464.0	14645.5	16674.6	16742.8
62.5°	25.1	33.1	40.1	49.1	56.1	68.1	97.2	2252.5	14052.3	16128.5	16620.5
65°	22.0	29.1	36.1	42.1	48.1	61.1	88.2	1866.8	13039.3	15247.8	15783.8
67.5°	20.0	25.1	33.1	37.1	43.1	54.1	78.2	1330.7	11773.8	14170.6	14518.3
70°	18.0	24.0	30.1	34.1	39.1	47.1	67.1	764.5	9942.1	12593.4	12840.9
72.5°	17.0	23.0	27.1	32.1	35.1	42.1	61.1	359.7	7279.7	10088.4	10734.7
75°	15.0	21.0	25.1	30.1	33.1	38.1	52.1	172.3	4841.8	7300.7	8035.2
77.5°	9.0	17.0	23.0	27.1	29.1	33.1	43.1	99.2	3090.2	5053.2	5952.0
80°	0.0	6.0	17.0	23.0	25.1	28.1	33.1	78.2	1653.3	2886.8	3465.0
82.5°	0.0	0.0	12.0	18.0	17.0	19.0	25.1	49.1	745.5	1886.8	2126.3
85°	0.0	0.0	4.0	14.0	12.0	9.0	17.0	17.0	163.3	954.9	1191.4
87.5°	0.0	0.0	0.0	1.0	6.0	4.0	7.0	2.0	1.0	71.1	288.6
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°	6889.9	6889.9	6889.9	6889.9	6889.9	6889.9	6889.9	6889.9	6889.9	6889.9
2.5°	7788.7	7862.9	7988.1	8047.2	8018.2	7894.9	7747.6	7597.3	7509.1	7544.2
5°	8267.7	8649.4	8869.9	8943.0	8820.8	8544.2	8182.5	7705.5	7536.2	7490.1
7.5°	8267.7	8986.1	9441.0	9521.2	9248.7	8706.6	8028.2	7283.7	7036.2	6946.0
10°	7977.1	8955.1	9589.3	9716.6	9335.8	8525.2	7616.4	6766.7	6473.1	6379.9
12.5°	7649.4	8702.6	9370.9	9546.3	9233.6	8344.8	7330.8	6416.9	6071.2	5990.1
15°	7448.0	8391.9	8945.0	9072.3	8940.0	8239.6	7262.7	6311.7	5904.9	5826.8
17.5°	7520.2	8151.4	8350.8	8425.0	8514.2	8202.5	7448.0	6542.2	6027.2	5953.0
20°	7791.7	7897.9	7794.7	7887.9	8128.4	8238.6	7889.9	7099.3	6481.1	6381.9
22.5°	8252.6	7766.7	7477.1	7514.2	7806.7	8357.9	8565.3	7894.9	7181.5	7057.2
25°	8789.7	7872.9	7300.7	7267.7	7568.3	8515.2	9182.5	8760.7	8010.2	7872.9
27.5°	9465.1	8111.4	7264.7	7231.6	7485.1	8662.5	9695.6	9616.4	8882.9	8648.4
30°	9986.1	8345.8	7371.9	7295.7	7568.3	8764.7	10107.4	10342.9	9578.3	9423.0
32.5°	10359.9	8622.4	7546.2	7436.0	7802.7	8941.0	10425.0	11008.2	10221.6	9986.1
35°	10644.5	8923.0	7827.8	7646.4	8125.4	9208.6	10722.6	11716.6	10906.0	10648.5
37.5°	10911.0	9344.9	8267.7	8051.2	8631.4	9639.4	11037.3	12520.3	11671.5	11363.9
40°	11282.8	9822.8	8946.0	8753.7	9482.1	10226.6	11430.1	13357.9	12542.3	12155.5
42.5°	11654.5	10335.9	9640.4	9692.6	10543.3	10940.1	11937.1	14243.7	13402.0	12989.2
45°	11994.2	10864.9	10629.4	10869.9	11528.3	11722.6	12441.1	14755.8	14088.4	13689.6
47.5°	12296.8	11526.3	11612.4	12252.7	12648.5	12431.1	12817.9	15197.7	14599.5	14247.7
50°	12648.5	12382.0	12908.0	13813.9	13938.1	13072.4	13160.5	15720.7	15196.7	14914.1
52.5°	13033.3	13283.8	14342.9	15141.5	15101.5	13768.8	13505.2	16306.9	16015.3	15749.8
55°	13470.2	14012.3	15606.5	16384.1	16350.0	14546.3	14076.4	17031.4	17041.4	16800.9
57.5°	14118.5	14639.5	16464.2	17389.1	17446.2	15444.2	15044.3	17843.0	17969.2	17808.9
59°	14583.4	15046.4	16803.9	17808.9	18041.4	16138.6	15751.8	18313.9	18230.8	18084.5
60°	14928.1	15304.9	16972.2	18028.4	18387.1	16609.5	16273.8	18590.5	18261.8	18084.5
62.5°	15780.8	15868.0	17275.9	18276.9	18784.9	17655.6	17742.8	19061.5	18046.4	17756.8
65°	16178.6	16223.7	17271.8	17832.0	18400.1	18470.3	19075.5	19075.5	17520.3	17075.4
67.5°	16012.3	15794.9	16415.1	16357.0	16924.1	17986.3	19576.5	18376.1	16514.3	15939.2
70°	14659.6	13822.9	13547.3	13572.4	14006.3	15644.6	18584.5	16317.9	14610.5	13938.1
72.5°	12197.6	10190.6	9510.2	10286.8	10400.0	12023.3	15837.9	12288.8	10774.7	10144.5
75°	9810.8	7183.5	6077.3	6896.9	7089.3	8798.7	12251.7	7653.4	6293.7	5802.7
77.5°	7048.2	5156.4	4360.8	4303.7	4552.2	5580.3	8693.5	3851.8	3212.5	2998.0
80°	4004.1	3393.8	3654.4	3448.0	3573.2	3489.0	4130.3	1689.4	1383.8	1293.6
82.5°	2416.9	2006.0	2172.4	1808.6	2288.6	1993.0	1591.2	541.1	469.9	446.9
85°	1572.2	1096.2	571.2	382.8	788.6	1273.6	355.7	147.3	113.2	90.2
87.5°	542.1	279.6	28.1	12.0	84.2	237.5	13.0	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

(END OF REPORT)