

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: P650145

Luminaire Tested: **GLAN-SA9A-835-U-SLR-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P650145
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-23)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA9A-835-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 3500K, 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: 23312.2 lumens
Efficiency: N/A
Efficacy: 85.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

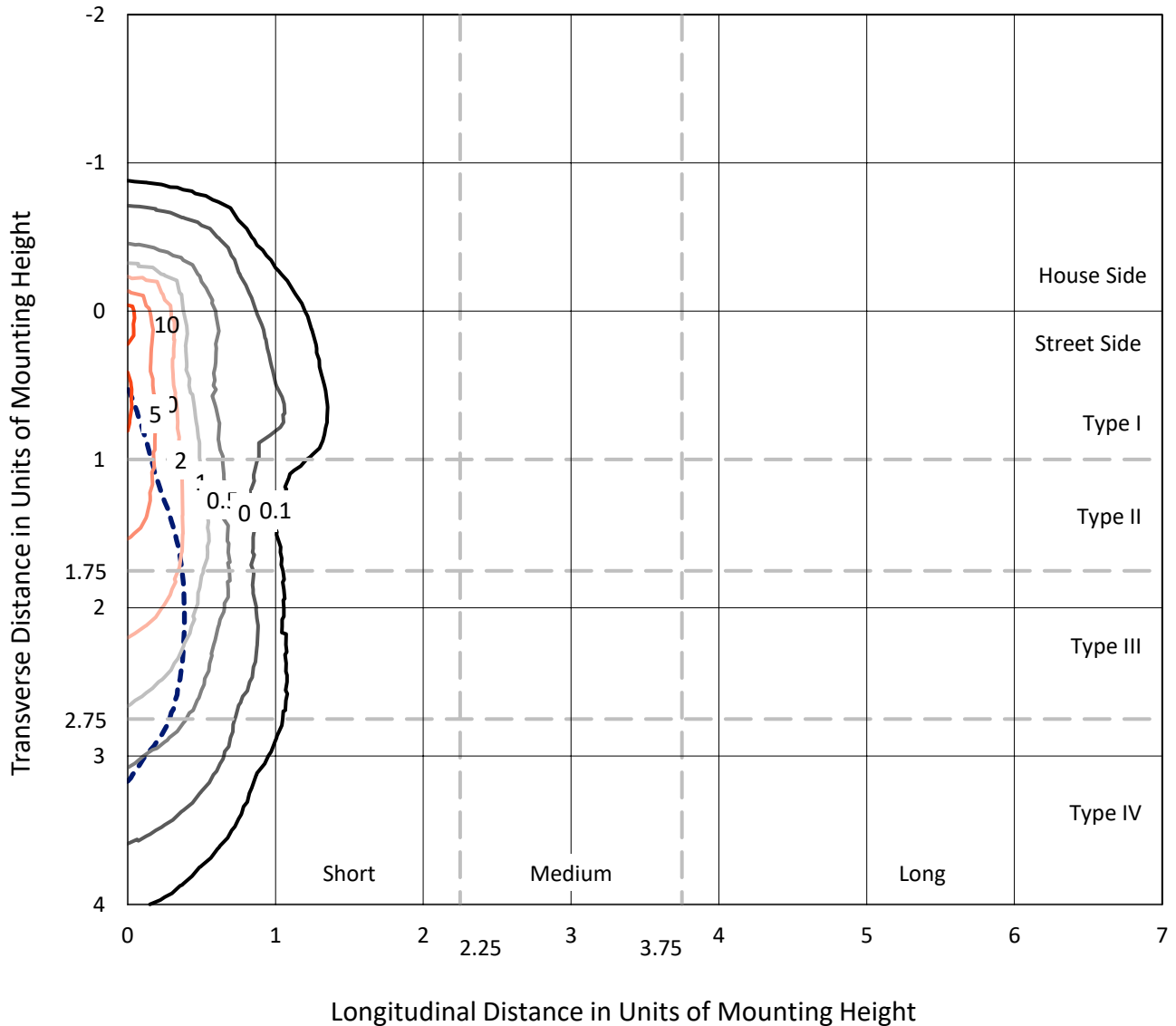
Input Watts (W): 274
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

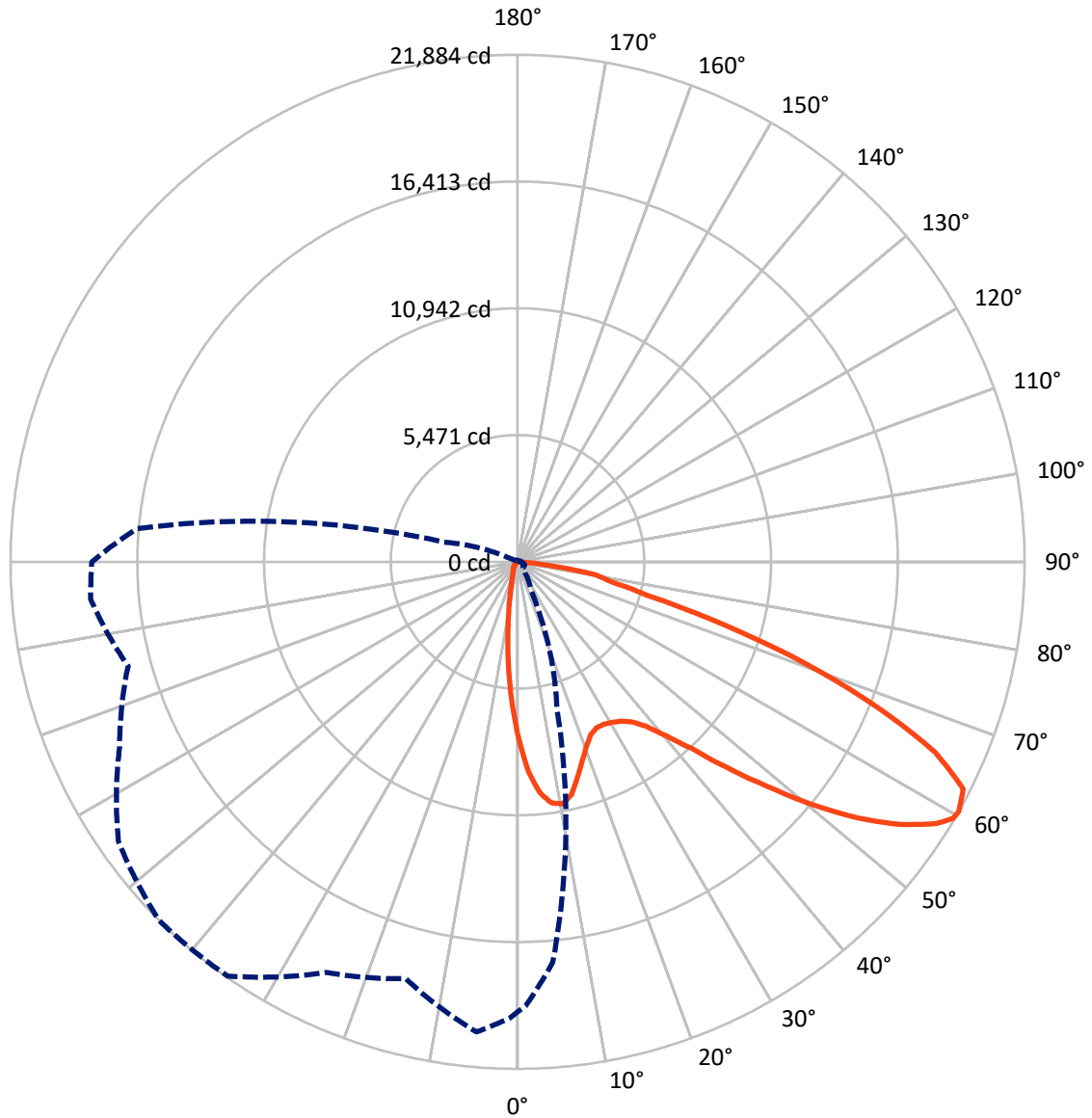
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.3 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 315-Deg Lateral - - - Horizontal Cone Through 60-Deg Vertical

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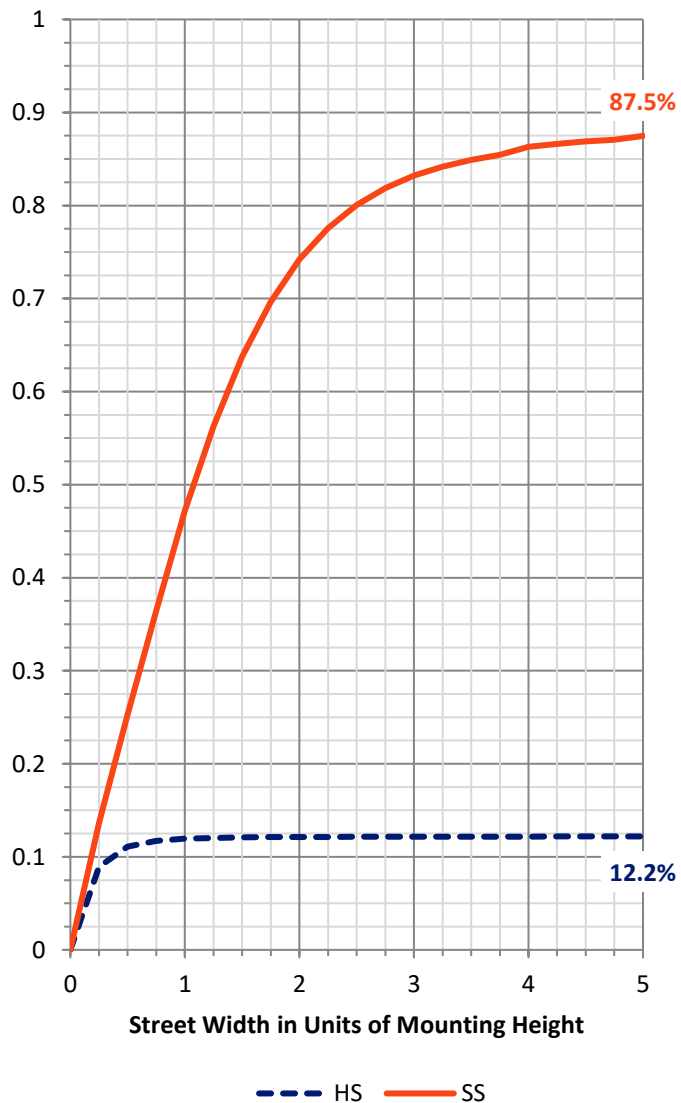
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2875.3	0.0	2875.3
	% Fixture	12.3	0.0	12.3
Street Side	Lumens	20436.9	0.0	20436.9
	% Fixture	87.7	0.0	87.7
Total	Lumens	23312.2	0.0	23312.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	573.1	2.5
10°-20°	1138.1	4.9
20°-30°	1668.8	7.2
30°-40°	2481.8	10.6
40°-50°	3611.8	15.5
50°-60°	5208.5	22.3
60°-70°	5728.8	24.6
70°-80°	2566.0	11.0
80°-90°	335.3	1.4
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°	23312.2	100.0
0°-180°	23312.2	100.0

Coefficient of Utilization



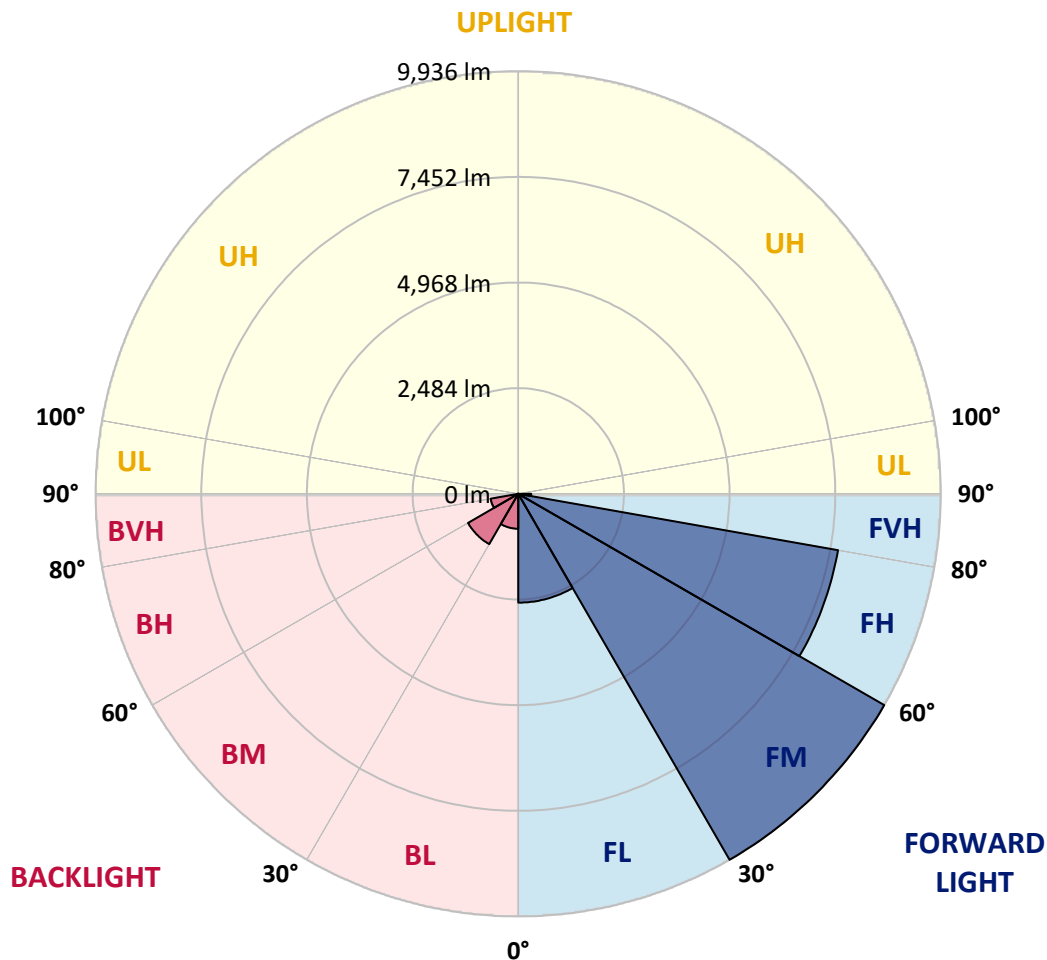
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2558.4	11.0			
FM (30°-60°)	9936.4	42.6			
FH (60°-80°)	7635.5	32.8			G4/12000
FVH (80°-90°)	306.6	1.3			G3/500
BL (0°-30°)	821.6	3.5	B2/1000		
BM (30°-60°)	1365.7	5.9	B2/2500		
BH (60°-80°)	659.4	2.8	B2/1000		G2/1000
BVH (80°-90°)	28.7	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-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	7705.0	7705.0	7705.0	7705.0	7705.0	7705.0	7705.0	7705.0	7705.0	7705.0	7705.0
2.5°	8470.6	8433.4	8348.3	8089.6	7864.5	7570.4	7272.7	7038.7	6895.2	6631.1	6510.6
5°	8206.5	8224.2	7977.9	7446.3	6854.5	6450.4	6009.1	5658.3	5271.9	5027.4	4770.4
7.5°	7517.2	7481.7	7214.2	6473.5	5754.0	5169.2	4611.0	4157.3	3872.0	3643.4	3452.0
10°	6927.1	6900.5	6558.5	5605.1	4832.5	4394.7	4017.3	3620.4	3313.8	2978.8	2711.3
12.5°	6556.7	6496.5	6103.1	5107.1	4478.1	4070.5	3659.4	3246.5	2822.9	2484.5	2160.1
15°	6432.7	6345.8	5908.1	4935.2	4251.2	3733.8	3218.1	2743.2	2255.9	1881.9	1637.4
17.5°	6657.7	6514.2	6048.1	4905.1	3980.1	3294.3	2659.9	2041.4	1534.6	1249.4	1098.7
20°	7173.4	7008.6	6402.5	4875.0	3678.8	2801.7	2021.9	1442.4	1061.5	905.5	822.2
22.5°	7938.9	7712.2	6927.1	4922.9	3400.6	2321.4	1460.2	1018.9	843.5	746.0	687.6
25°	8858.6	8669.1	7591.7	5092.9	3180.9	1944.0	1128.9	832.9	710.6	650.4	606.0
27.5°	9867.0	9564.0	8451.1	5296.8	2980.6	1651.6	990.6	744.2	632.7	577.7	554.7
30°	10584.7	10349.0	9170.6	5438.6	2730.8	1431.9	905.5	733.7	634.4	568.8	526.3
32.5°	11293.5	10992.2	9773.1	5504.1	2548.3	1279.4	783.2	639.7	556.4	522.7	480.2
35°	12051.9	11736.5	10373.8	5468.6	2411.8	1178.4	710.6	570.7	476.7	420.0	377.5
37.5°	12819.3	12486.1	10971.0	5341.1	2326.8	1137.7	653.9	542.2	450.1	391.7	345.5
40°	13730.1	13285.3	11531.0	5236.5	2238.1	1116.4	616.7	524.5	430.6	368.6	322.5
42.5°	14474.4	14050.9	12060.9	5181.6	2177.9	1066.8	616.7	510.4	418.2	349.1	301.2
45°	15179.7	14740.2	12633.2	5225.9	2153.1	1004.7	623.7	508.6	409.4	334.9	287.0
47.5°	15769.8	15388.8	13221.5	5392.4	2121.2	937.4	586.5	533.4	404.0	322.5	272.9
50°	16466.3	16097.6	13999.5	5729.1	2064.5	870.1	540.5	574.2	402.2	311.9	260.5
52.5°	17448.0	17049.3	15073.4	6111.9	1974.1	767.3	498.0	568.8	395.2	294.2	248.1
55°	18647.7	18325.2	16317.4	6570.9	1850.1	652.2	430.6	505.0	373.9	264.0	226.8
57.5°	19416.8	19142.1	17249.5	6769.3	1660.4	533.4	379.2	423.5	342.0	235.7	202.0
59°	19507.1	19259.1	17444.5	6703.8	1536.4	487.3	354.4	363.3	333.2	219.7	187.8
60°	19430.9	19173.9	17366.5	6576.2	1421.2	455.4	333.2	322.5	334.9	210.9	177.2
62.5°	18941.9	18502.4	16609.8	5929.4	1242.2	418.2	296.0	264.0	296.0	189.6	157.7
65°	17997.3	17338.1	15112.4	5018.6	1171.4	397.0	251.7	221.5	225.0	166.5	136.5
67.5°	16347.5	15516.4	13118.8	4077.6	1141.2	398.7	212.7	198.5	173.7	141.8	120.5
70°	13739.0	12909.6	10526.2	3354.5	1127.1	398.7	180.7	170.1	145.3	118.7	104.5
72.5°	9735.8	8842.7	7100.8	2635.1	1015.4	397.0	154.2	154.2	118.7	99.2	85.0
75°	5500.6	5507.6	4463.9	1864.2	843.5	327.8	124.0	122.3	86.8	76.2	63.8
77.5°	3205.7	3149.0	3009.0	801.0	391.7	148.8	86.8	74.5	60.2	55.0	46.0
80°	1648.1	1355.6	1320.2	290.6	140.0	93.9	60.2	42.5	39.0	35.5	31.9
82.5°	487.3	489.1	435.9	117.0	78.0	62.0	30.1	23.0	21.3	19.5	19.5
85°	33.7	21.3	24.8	35.5	47.8	24.8	1.8	5.3	5.3	7.1	8.8
87.5°	3.5	1.8	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°	7705.0	7705.0	7705.0	7705.0	7705.0	7705.0	7705.0	7705.0	7705.0	7705.0	7705.0
2.5°	6377.8	6455.7	6310.4	6314.0	6193.5	6232.4	6090.6	6136.8	6053.5	6117.3	6305.1
5°	4798.9	4816.5	4699.6	4662.4	4680.1	4752.7	4781.1	4651.7	4706.7	4598.6	4591.5
7.5°	3381.2	3402.4	3335.0	3326.2	3453.8	3423.7	3478.6	3345.7	3219.9	3274.8	3173.8
10°	2626.3	2537.6	2399.4	2360.4	2335.6	2351.6	2351.6	2231.1	2213.3	2165.5	2238.1
12.5°	2073.3	1965.3	1834.1	1656.9	1612.6	1609.1	1543.4	1437.2	1403.5	1362.7	1423.0
15°	1506.3	1461.9	1352.1	1252.9	1151.9	1132.4	1026.0	939.2	824.0	808.1	802.7
17.5°	1059.7	994.2	992.4	935.7	877.2	838.2	739.0	639.7	595.4	590.1	590.1
20°	793.9	770.9	733.7	726.5	708.8	664.5	575.9	522.7	501.5	503.2	510.4
22.5°	668.1	652.2	618.5	602.5	595.4	556.4	490.9	455.4	444.8	444.8	446.5
25°	597.2	583.0	545.8	521.0	512.2	483.8	432.4	405.8	397.0	397.0	397.0
27.5°	544.0	526.3	487.3	466.0	450.1	418.2	386.3	359.7	350.9	350.9	352.7
30°	506.8	487.3	451.9	423.5	398.7	370.4	343.8	320.7	310.1	308.3	310.1
32.5°	457.2	439.5	404.0	386.3	358.0	324.3	303.0	281.7	271.2	272.9	271.2
35°	356.2	350.9	326.0	331.4	315.4	287.0	267.6	244.5	232.2	230.4	233.9
37.5°	324.3	303.0	274.7	276.5	271.2	260.5	228.6	203.8	195.0	195.0	196.7
40°	299.5	278.2	246.3	230.4	232.2	232.2	198.5	171.9	163.0	161.3	164.8
42.5°	278.2	257.0	221.5	195.0	187.8	196.7	168.3	141.8	132.9	129.4	132.9
45°	264.0	241.0	200.2	170.1	148.8	159.5	138.2	117.0	106.3	106.3	104.5
47.5°	249.9	228.6	184.3	147.0	124.0	118.7	113.4	93.9	83.3	81.5	83.3
50°	237.5	216.2	166.5	127.6	104.5	92.2	92.2	74.5	67.3	63.8	65.5
52.5°	225.0	202.0	150.6	113.4	90.4	74.5	65.5	60.2	55.0	53.2	55.0
55°	207.3	184.3	134.7	97.5	78.0	62.0	51.4	49.6	46.0	42.5	46.0
57.5°	186.0	164.8	118.7	83.3	62.0	47.8	42.5	40.8	37.2	35.5	35.5
59°	173.7	154.2	109.9	72.7	55.0	42.5	39.0	37.2	33.7	30.1	31.9
60°	166.5	150.6	104.5	67.3	49.6	39.0	35.5	33.7	30.1	28.3	30.1
62.5°	147.0	134.7	92.2	55.0	39.0	28.3	24.8	26.5	24.8	23.0	24.8
65°	129.4	118.7	78.0	42.5	30.1	19.5	17.7	23.0	21.3	19.5	21.3
67.5°	115.2	102.8	65.5	31.9	21.3	10.6	12.4	19.5	19.5	17.7	19.5
70°	99.2	88.6	53.2	23.0	10.6	5.3	8.8	14.2	17.7	16.0	17.7
72.5°	81.5	69.1	40.8	16.0	5.3	0.0	5.3	12.4	17.7	16.0	17.7
75°	63.8	51.4	30.1	8.8	0.0	0.0	1.8	10.6	17.7	16.0	17.7
77.5°	46.0	37.2	17.7	1.8	0.0	0.0	1.8	10.6	17.7	16.0	17.7
80°	30.1	26.5	7.1	0.0	0.0	0.0	1.8	10.6	17.7	17.7	19.5
82.5°	19.5	14.2	0.0	0.0	0.0	0.0	3.5	14.2	19.5	21.3	21.3
85°	8.8	0.0	0.0	0.0	0.0	0.0	7.1	17.7	23.0	23.0	23.0
87.5°	0.0	0.0	0.0	0.0	0.0	3.5	12.4	21.3	26.5	26.5	26.5
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°	7705.0	7705.0	7705.0	7705.0	7705.0	7705.0	7705.0	7705.0	7705.0	7705.0	7705.0
2.5°	6337.0	6448.6	6606.3	6849.1	7045.8	7356.0	7593.4	7917.7	8245.5	8344.7	8498.9
5°	4664.1	4807.7	5165.6	5491.7	5697.3	6352.9	6767.6	7421.5	8008.1	8289.9	8596.4
7.5°	3239.3	3409.5	3682.4	4137.8	4570.2	5103.6	5773.5	6521.3	7380.7	7783.0	8215.4
10°	2273.6	2486.3	2870.8	3244.7	3788.7	4295.5	4956.5	5782.3	6730.4	7205.3	7747.6
12.5°	1435.4	1625.0	2133.6	2553.6	3232.3	3820.6	4430.2	5178.1	6276.8	6764.0	7332.9
15°	820.5	980.0	1217.4	1756.1	2509.3	3287.2	4047.5	4915.8	6044.6	6645.3	7260.2
17.5°	611.4	653.9	760.2	1065.0	1750.8	2659.9	3694.8	4836.0	6202.3	6907.6	7609.4
20°	513.9	542.2	591.9	712.4	1116.4	2048.6	3351.0	4850.2	6712.7	7598.7	8265.0
22.5°	460.7	478.5	519.2	597.2	762.0	1492.1	2948.8	4933.5	7331.2	8447.6	9216.6
25°	404.0	427.0	462.5	529.9	634.4	1034.9	2551.8	5119.6	8197.7	9525.0	10248.0
27.5°	359.7	381.0	416.5	478.5	556.4	790.4	2089.3	5279.1	9112.1	10609.5	11201.4
30°	315.4	336.7	372.2	421.7	492.7	639.7	1591.4	5372.9	9999.8	11422.9	11878.3
32.5°	278.2	296.0	329.6	373.9	432.4	542.2	1254.6	5275.5	10678.6	12161.9	12466.6
35°	241.0	262.3	290.6	331.4	382.8	462.5	1043.7	4938.8	11261.6	12922.1	13031.9
37.5°	202.0	226.8	257.0	294.2	334.9	425.3	838.2	4566.7	11885.4	13870.1	13689.3
40°	170.1	193.2	221.5	262.3	299.5	389.9	645.0	4169.7	12558.8	14759.7	14407.0
42.5°	138.2	163.0	196.7	233.9	296.0	340.2	499.7	3758.6	13163.1	15534.1	15055.7
45°	109.9	131.2	166.5	214.4	294.2	292.4	386.3	3352.8	13618.5	16087.0	15539.4
47.5°	86.8	104.5	140.0	209.1	271.2	248.1	310.1	3101.1	14097.0	16585.0	15909.8
50°	69.1	86.8	120.5	218.0	237.5	212.7	260.5	3141.9	14559.5	16838.3	16062.2
52.5°	58.5	76.2	104.5	171.9	182.5	186.0	228.6	3329.8	15156.7	17109.5	16365.2
55°	51.4	67.3	88.6	120.5	141.8	166.5	209.1	3466.2	15955.9	17690.7	17033.3
57.5°	40.8	58.5	79.7	102.8	117.0	145.3	193.2	3476.8	16678.9	18436.8	17921.1
59°	37.2	53.2	74.5	97.5	104.5	131.2	182.5	3386.5	16705.5	18548.4	18328.7
60°	33.7	51.4	70.9	90.4	99.2	124.0	173.7	3281.9	16464.5	18371.2	18497.0
62.5°	28.3	44.3	62.0	72.7	85.0	102.8	150.6	2902.7	15296.7	17568.5	18185.2
65°	24.8	39.0	53.2	60.2	70.9	88.6	132.9	2323.2	14006.5	16480.4	17292.0
67.5°	23.0	35.5	46.0	51.4	62.0	81.5	118.7	1640.9	12335.5	15099.9	15950.6
70°	21.3	33.7	40.8	47.8	55.0	69.1	101.0	956.9	9501.9	12679.3	13577.8
72.5°	21.3	31.9	35.5	40.8	47.8	62.0	93.9	517.5	6496.5	9672.1	10832.8
75°	21.3	30.1	31.9	35.5	42.5	56.7	83.3	271.2	4199.9	6719.8	8293.4
77.5°	21.3	28.3	31.9	33.7	40.8	49.6	72.7	170.1	2798.1	4706.7	5605.1
80°	23.0	28.3	30.1	33.7	39.0	46.0	60.2	113.4	1644.5	2831.8	3411.3
82.5°	24.8	28.3	31.9	35.5	40.8	44.3	53.2	70.9	758.5	1873.1	2119.4
85°	26.5	30.1	33.7	37.2	42.5	44.3	49.6	51.4	124.0	845.2	1143.0
87.5°	28.3	31.9	35.5	39.0	46.0	46.0	46.0	46.0	42.5	90.4	230.4
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°	7705.0	7705.0	7705.0	7705.0	7705.0	7705.0	7705.0	7705.0	7705.0	7705.0
2.5°	8693.9	8894.1	9034.1	9069.6	8968.6	8922.4	8794.9	8596.4	8475.9	8470.6
5°	9161.7	9631.3	9957.3	10012.3	9817.3	9487.8	9096.1	8591.1	8295.1	8206.5
7.5°	9081.9	9904.2	10428.7	10505.0	10177.1	9548.0	8789.6	7976.2	7653.7	7517.2
10°	8754.1	9757.1	10506.7	10627.2	10189.5	9303.4	8339.4	7432.2	7031.7	6927.1
12.5°	8474.1	9487.8	10154.0	10320.6	9989.3	9105.0	8070.1	7083.0	6654.2	6556.7
15°	8351.9	9168.8	9576.3	9661.4	9606.5	8980.9	8041.7	7029.9	6539.0	6432.7
17.5°	8474.1	8897.6	8949.1	9035.9	9158.1	8968.6	8314.6	7318.7	6788.8	6657.7
20°	8794.9	8661.9	8449.3	8486.5	8766.5	9019.9	8800.2	7958.4	7313.4	7173.4
22.5°	9340.6	8603.4	8121.5	8089.6	8444.0	9191.8	9512.6	8825.0	8077.2	7938.9
25°	10010.5	8750.6	8001.0	7931.9	8318.2	9443.4	10287.0	9886.5	9069.6	8858.6
27.5°	10740.6	9055.4	8001.0	7933.7	8307.6	9666.8	10949.7	10825.7	10097.3	9867.0
30°	11141.2	9307.0	8116.2	8039.9	8438.7	9796.1	11304.2	11660.4	10870.0	10584.7
32.5°	11499.1	9656.1	8341.2	8197.7	8713.4	9987.5	11621.4	12369.1	11484.9	11293.5
35°	11828.7	10030.0	8651.4	8484.7	9074.9	10249.8	11972.2	13113.4	12340.8	12051.9
37.5°	12191.9	10464.2	9135.1	8993.3	9679.1	10760.1	12388.6	14091.7	13182.6	12819.3
40°	12587.1	10967.5	9930.8	9870.5	10639.6	11337.8	12915.0	15135.4	14143.0	13730.1
42.5°	12989.4	11546.9	10905.4	11004.7	11727.7	12147.6	13455.5	15938.1	14929.9	14474.4
45°	13354.5	12287.6	12172.4	12663.3	12996.5	12938.0	13856.0	16503.4	15615.6	15179.7
47.5°	13815.2	13366.8	13705.3	14462.0	14470.9	13797.5	14159.0	16966.0	16205.8	15769.8
50°	14330.9	14641.0	15684.7	16455.6	16248.3	14642.7	14513.4	17513.5	16815.3	16466.3
52.5°	14928.1	16067.6	17513.5	18369.5	17885.7	15564.2	15103.5	18105.4	17782.9	17448.0
55°	15622.7	17040.4	19337.0	20019.3	19531.9	16709.0	16000.2	18908.2	18876.3	18647.7
57.5°	16407.8	18068.2	20393.2	21316.5	20882.3	18052.2	17253.0	19664.9	19544.4	19416.8
59°	17028.0	18596.2	20859.3	21816.2	21553.9	18993.2	18094.8	20136.3	19698.6	19507.1
60°	17403.7	18954.2	21031.1	21883.5	21823.2	19553.2	18628.2	20366.6	19696.8	19430.9
62.5°	18518.3	19579.8	20965.5	21584.0	21819.7	20627.1	20192.9	20620.0	19331.7	18941.9
65°	18915.2	19372.4	19879.3	19803.1	20005.1	20572.2	21192.4	20341.8	18552.0	17997.3
67.5°	18142.7	17098.8	17277.8	16769.3	16670.0	18289.7	20786.6	18980.9	17026.2	16347.5
70°	15293.1	13099.3	13008.9	13242.8	12601.3	14807.5	18665.4	16359.9	14508.1	13739.0
72.5°	12037.8	9257.4	8495.4	9356.6	9337.1	11297.0	15505.7	11608.9	9801.4	9735.8
75°	9466.5	6445.1	5656.5	5796.5	6065.8	8178.2	12349.7	7371.9	6035.8	5500.6
77.5°	6354.7	4566.7	4260.1	4088.2	4378.8	5250.7	7813.2	3997.8	3384.7	3205.7
80°	3662.9	3317.3	3767.5	3420.1	3576.0	3308.5	3886.2	1834.1	1522.2	1648.1
82.5°	2383.5	1889.1	2013.1	1495.6	2045.0	2062.7	1247.6	542.2	459.0	487.3
85°	1490.4	886.0	498.0	354.4	705.3	1297.2	389.9	33.7	39.0	33.7
87.5°	386.3	147.0	62.0	92.2	113.4	101.0	90.4	5.3	1.8	3.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)