

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: P534036

Luminaire Tested: **GLAN-SA9C-730-U-SLR-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P534036
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-26)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA9C-730-U-SLR-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 43229 lumens
Efficiency: N/A
Efficacy: 89.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B4 - U0 - G4

Input Watts (W): 481
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



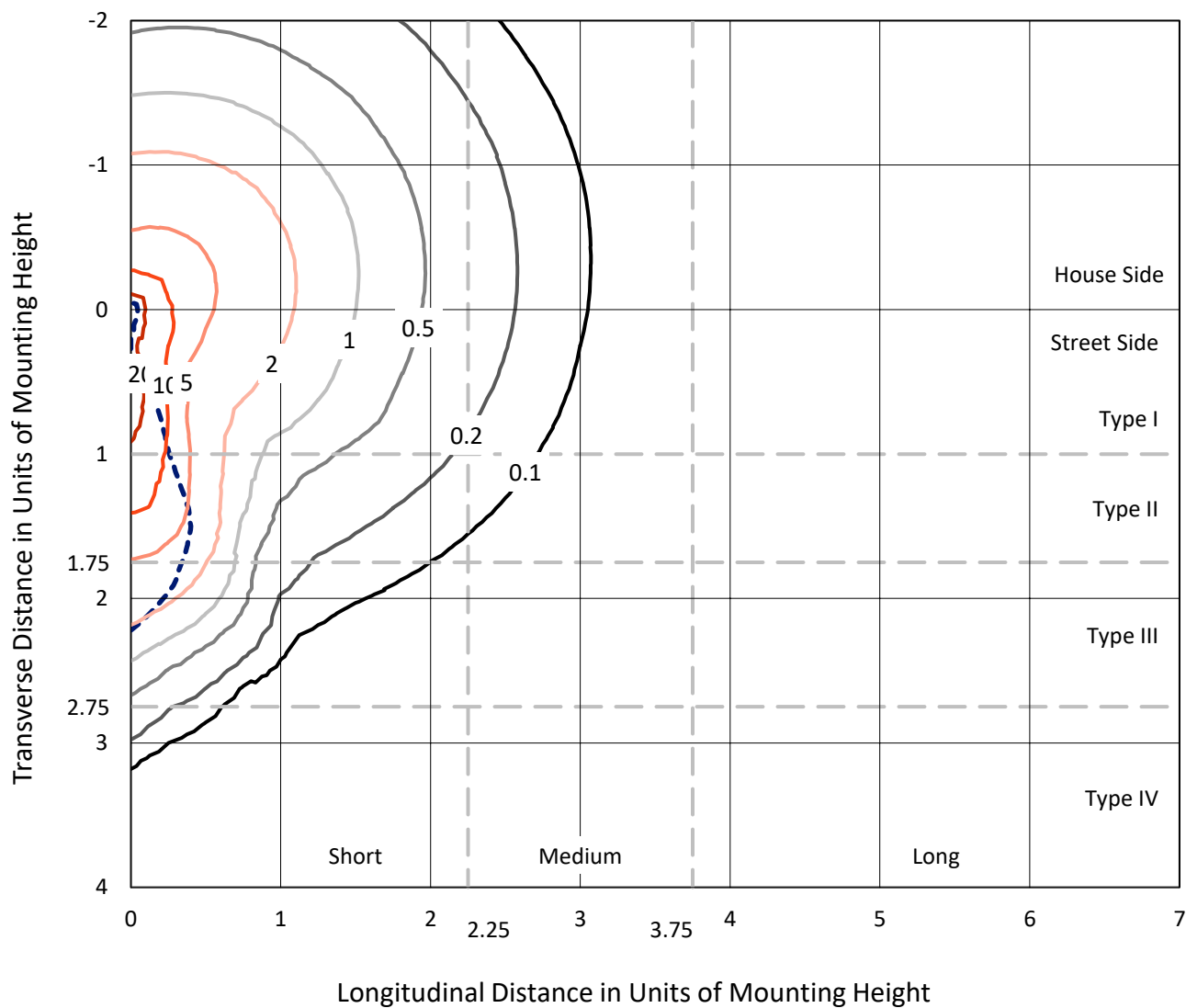
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

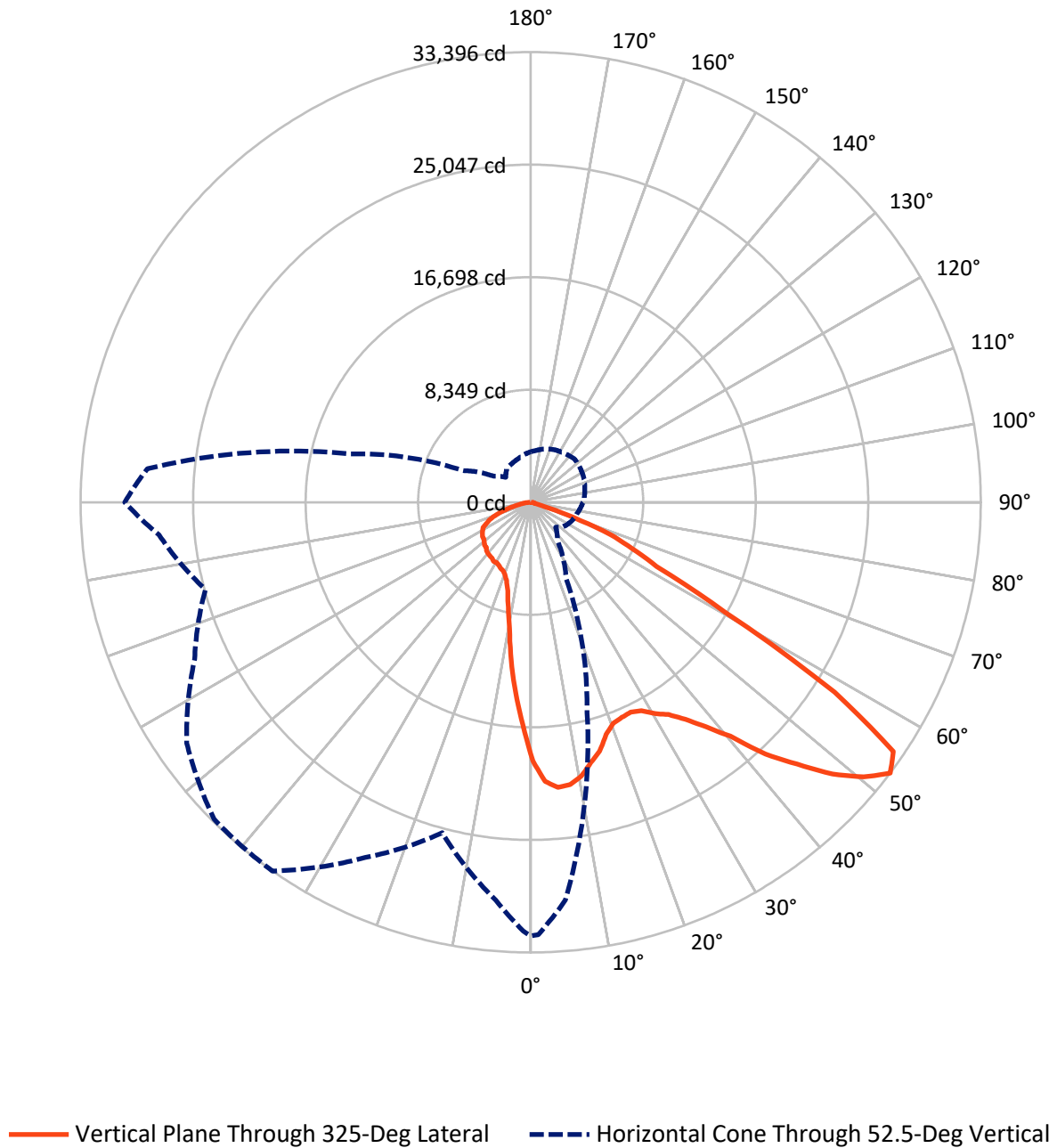
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 30.7 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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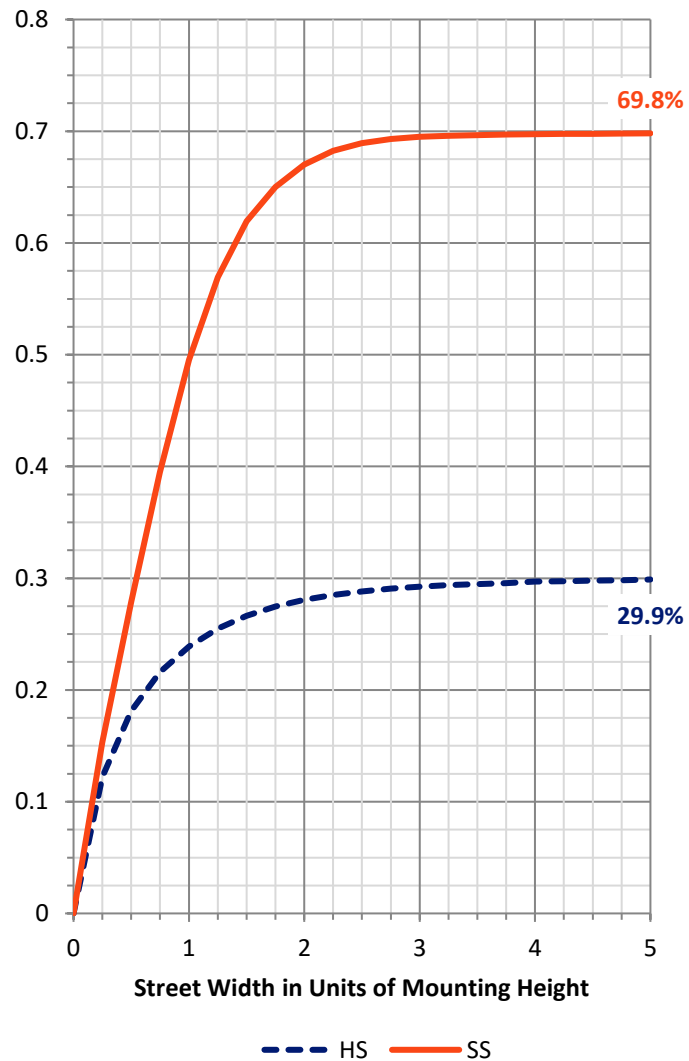
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	13031.7	0.0	13031.7
	% Fixture	30.1	0.0	30.1
Street Side	Lumens	30197.3	0.0	30197.3
	% Fixture	69.9	0.0	69.9
Total	Lumens	43229.0	0.0	43229.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1463.7	3.4
10°-20°	3173.0	7.3
20°-30°	4794.2	11.1
30°-40°	6927.8	16.0
40°-50°	9219.6	21.3
50°-60°	10312.4	23.9
60°-70°	5812.0	13.4
70°-80°	1295.6	3.0
80°-90°	230.7	0.5
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°	43229.0	100.0
0°-180°	43229.0	100.0

Coefficient of Utilization



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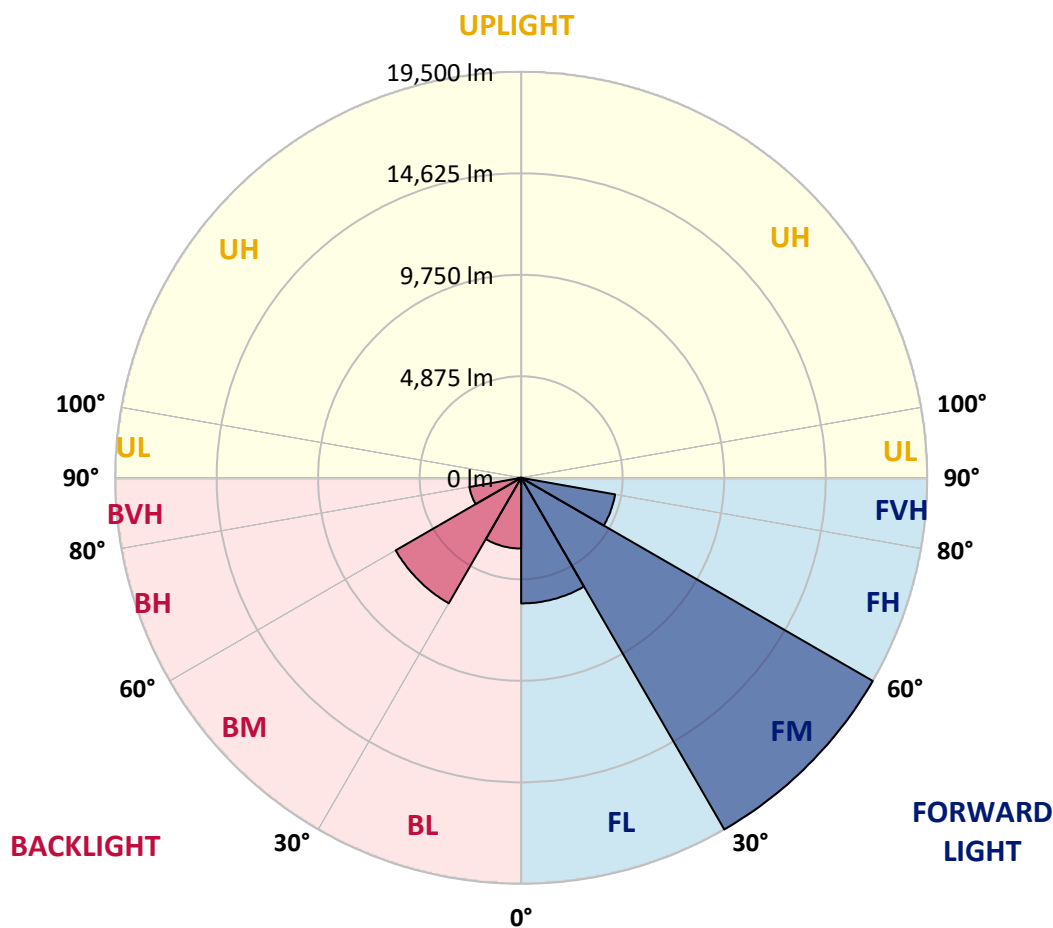
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	6032.5	14.0			
FM	(30°-60°)	19499.6	45.1			
FH	(60°-80°)	4581.6	10.6			G2/5000
FVH	(80°-90°)	83.5	0.2			G1/100
BL	(0°-30°)	3398.4	7.9	B4/5000		
BM	(30°-60°)	6960.2	16.1	B4/8500		
BH	(60°-80°)	2526.0	5.8	B4/5000		G4/5000
BVH	(80°-90°)	147.2	0.3			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	19185.3	19185.3	19185.3	19185.3	19185.3	19185.3	19185.3	19185.3	19185.3	19185.3	19185.3
2.5°	19504.8	19818.1	19479.8	18878.3	18452.2	18063.8	17656.5	17575.0	17042.5	16948.5	16560.0
5°	18395.8	18326.9	17913.4	17123.9	16253.0	15463.5	14880.8	14316.9	13934.7	13489.9	13458.5
7.5°	17048.7	16647.7	16409.6	15212.9	14135.2	12894.6	12362.0	11503.7	11234.2	10833.2	10626.5
10°	15845.7	15551.2	14993.6	13796.9	12293.1	11472.3	10902.2	10438.5	10125.2	9711.7	9191.6
12.5°	15250.5	15131.4	14504.9	12650.3	11535.0	10657.8	10256.8	9805.7	9273.1	8608.9	8352.1
15°	15357.0	14956.0	14479.8	12431.0	10889.6	10043.8	9404.7	8840.8	8157.8	7525.0	7155.3
17.5°	16152.7	15845.7	14893.4	12568.8	10645.3	9423.5	8264.3	7431.0	6817.0	6246.8	5989.9
20°	17719.1	17274.3	16202.9	12744.2	10119.0	8558.8	7230.5	6203.0	5545.1	5244.3	5156.6
22.5°	19454.7	19191.6	17481.1	13139.0	9699.2	7756.8	6134.0	5106.5	4862.1	4780.7	4943.6
25°	21566.2	20883.3	19467.2	13784.3	9373.4	7073.9	5206.7	4636.6	4511.2	4592.7	4780.7
27.5°	23170.2	22988.5	20858.2	14392.1	8928.5	6253.1	4686.7	4310.7	4348.3	4429.8	4605.2
30°	25075.0	24153.9	22205.3	14811.9	8527.5	5689.2	4323.3	4223.0	4260.6	4398.5	4486.2
32.5°	26221.6	25877.0	23051.2	15444.7	8063.8	5200.5	4041.3	3947.3	4003.7	4210.5	4417.3
35°	27681.5	26998.5	24097.5	15607.6	7738.0	5006.2	3840.8	3771.9	3903.5	4047.6	4279.4
37.5°	29385.7	28915.8	25544.9	15494.9	7562.6	4805.7	3671.6	3640.3	3734.3	3934.8	4204.2
40°	30394.5	30250.4	26303.0	15563.8	7286.9	4630.3	3477.4	3515.0	3709.2	3865.9	4129.0
42.5°	31365.6	30425.8	27424.6	15538.7	7111.5	4392.2	3496.2	3452.4	3602.7	3784.4	4035.1
45°	31578.7	30645.1	27687.7	15363.3	6898.4	4160.4	3352.1	3370.9	3552.6	3778.2	3941.1
47.5°	31440.8	30751.6	28176.4	15313.1	6697.9	3997.5	3139.1	3364.6	3471.1	3652.9	3884.7
50°	31346.8	31309.3	28590.0	15551.2	6428.5	3740.6	2882.2	3283.2	3389.7	3571.4	3822.0
52.5°	32173.9	32092.5	29623.8	16177.8	6215.5	3464.9	2619.0	3076.4	3333.3	3508.7	3753.1
55°	32675.2	32318.0	31397.0	16948.5	5858.3	3101.5	2437.3	2819.5	3195.5	3352.1	3602.7
57.5°	29392.0	29147.6	28402.0	15820.7	5256.8	2625.3	2211.8	2556.4	3007.5	3251.9	3508.7
60°	24454.7	24072.5	22161.5	13446.0	3878.4	2042.6	2073.9	2349.6	2957.4	3051.4	3352.1
62.5°	23057.4	22111.3	19511.1	10820.7	2976.2	1754.4	1860.9	2161.6	2694.2	2850.9	3151.6
65°	18295.6	17593.8	13959.8	7813.2	1992.5	1522.5	1698.0	1948.6	2324.5	2631.6	2907.2
67.5°	11453.5	10783.1	7449.8	3696.7	1391.0	1303.2	1516.3	1779.4	2086.4	2362.1	2669.1
70°	5983.7	5250.6	3439.8	1334.6	958.6	1065.2	1265.7	1516.3	1817.0	2042.6	2280.7
72.5°	2230.6	1810.8	1121.5	576.4	664.2	814.5	1027.6	1209.3	1422.3	1698.0	1829.6
75°	344.6	294.5	288.2	350.9	451.1	589.0	733.1	914.8	1102.7	1278.2	1365.9
77.5°	162.9	156.6	175.4	231.8	300.7	419.8	532.6	708.0	858.4	971.2	1021.3
80°	106.5	100.2	112.8	156.6	225.6	313.3	426.1	545.1	683.0	776.9	764.4
82.5°	62.7	68.9	68.9	106.5	156.6	225.6	307.0	413.5	507.5	589.0	538.8
85°	37.6	31.3	31.3	62.7	106.5	181.7	256.9	175.4	181.7	181.7	206.8
87.5°	12.5	12.5	12.5	6.3	12.5	12.5	18.8	31.3	37.6	43.9	56.4
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	19185.3	19185.3	19185.3	19185.3	19185.3	19185.3	19185.3	19185.3	19185.3	19185.3	19185.3
2.5°	16547.5	16741.7	16672.8	16428.4	16616.4	16647.7	16522.4	16954.7	17036.2	16904.6	16942.2
5°	13414.7	13464.8	13577.6	13815.7	13984.8	14185.3	14185.3	14197.9	14028.7	14454.8	14329.4
7.5°	10451.0	10482.4	10613.9	11121.5	11265.6	11647.8	11810.7	11697.9	11359.5	11215.4	11334.5
10°	9022.5	8840.8	8796.9	8859.6	9185.4	9348.3	9486.1	9448.5	9392.1	9279.4	9154.1
12.5°	8070.1	7938.5	7832.0	7681.6	7700.4	7857.1	7963.6	7875.9	7900.9	7926.0	7963.6
15°	7036.3	6942.3	6885.9	6660.3	6635.3	6741.8	6779.4	6829.5	6923.5	6929.8	6885.9
17.5°	5939.8	5858.3	5983.7	6109.0	6021.3	6027.5	6096.4	6140.3	6115.2	6002.5	5946.1
20°	5187.9	5275.6	5401.0	5520.0	5614.0	5670.4	5695.4	5626.5	5545.1	5313.2	5307.0
22.5°	4968.6	5081.4	5187.9	5369.6	5457.3	5601.5	5469.9	5313.2	5200.5	5087.7	4956.1
25°	4805.7	4899.7	5112.7	5181.7	5350.8	5469.9	5375.9	5219.3	5025.0	4862.1	4761.9
27.5°	4686.7	4793.2	4931.0	5119.0	5250.6	5319.5	5225.5	5162.9	4962.4	4768.1	4624.0
30°	4611.5	4724.3	4974.9	5131.5	5244.3	5300.7	5137.8	5062.6	4918.5	4755.6	4630.3
32.5°	4561.4	4661.6	4874.6	5075.1	5150.3	5150.3	5175.4	5087.7	4887.2	4611.5	4505.0
35°	4398.5	4536.3	4711.7	4943.6	5081.4	5162.9	5037.5	4937.3	4805.7	4523.8	4329.5
37.5°	4304.5	4398.5	4624.0	4843.3	4962.4	5050.1	5000.0	4824.5	4649.1	4417.3	4260.6
40°	4204.2	4354.6	4555.1	4761.9	4893.4	4981.2	4943.6	4736.8	4523.8	4304.5	4198.0
42.5°	4135.3	4235.6	4442.3	4674.1	4830.8	5000.0	4887.2	4630.3	4479.9	4179.2	4060.1
45°	4078.9	4241.8	4461.1	4555.1	4718.0	4893.4	4692.9	4536.3	4360.9	4141.6	4041.3
47.5°	4010.0	4160.4	4304.5	4555.1	4630.3	4711.7	4674.1	4423.5	4273.1	4035.1	3966.1
50°	3984.9	4041.3	4304.5	4442.3	4548.8	4630.3	4530.0	4342.1	4198.0	3953.6	3803.2
52.5°	3884.7	3991.2	4160.4	4342.1	4473.6	4573.9	4411.0	4291.9	4097.7	3840.8	3746.8
55°	3759.4	3822.0	4122.8	4310.7	4379.7	4448.6	4385.9	4191.7	3991.2	3728.0	3634.1
57.5°	3596.5	3740.6	3984.9	4248.1	4335.8	4373.4	4273.1	4116.5	3865.9	3634.1	3483.7
60°	3427.3	3577.7	3847.1	4060.1	4147.8	4285.7	4135.3	4041.3	3753.1	3496.2	3333.3
62.5°	3258.1	3427.3	3627.8	3897.2	3972.4	4028.8	3991.2	3859.6	3627.8	3339.6	3139.1
65°	3057.6	3182.9	3433.6	3571.4	3621.5	3753.1	3621.5	3571.4	3364.6	3088.9	2919.8
67.5°	2756.9	2863.4	3082.7	3214.3	3251.9	3308.2	3302.0	3245.6	3013.8	2825.8	2675.4
70°	2412.3	2506.2	2644.1	2800.7	2819.5	2888.4	2825.8	2813.3	2662.9	2406.0	2324.5
72.5°	1936.1	2023.8	2205.5	2274.4	2280.7	2305.7	2274.4	2230.6	2193.0	1923.5	1842.1
75°	1484.9	1535.1	1622.8	1685.4	1685.4	1716.8	1698.0	1654.1	1553.9	1384.7	1303.2
77.5°	1033.8	1084.0	1196.7	1234.3	1228.1	1240.6	1184.2	1140.3	990.0	902.2	833.3
80°	751.9	783.2	839.6	864.7	870.9	889.7	820.8	783.2	695.5	595.2	563.9
82.5°	545.1	563.9	570.2	601.5	601.5	570.2	551.4	513.8	451.1	388.5	363.4
85°	225.6	231.8	238.1	275.7	282.0	338.3	313.3	294.5	256.9	219.3	200.5
87.5°	56.4	62.7	81.5	68.9	81.5	81.5	87.7	100.2	100.2	81.5	81.5
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°	19185.3	19185.3	19185.3	19185.3	19185.3	19185.3	19185.3	19185.3	19185.3	19185.3	19185.3
2.5°	17086.3	17136.4	17775.5	17857.0	18170.3	18489.8	19135.2	19598.8	19974.8	20219.1	20288.0
5°	14461.0	14780.6	15075.1	15551.2	15983.6	16597.6	17305.6	18182.8	19285.5	19849.5	20075.0
7.5°	11322.0	11697.9	12124.0	12587.6	13220.4	14323.2	15269.3	16284.3	17694.1	18276.8	19160.2
10°	9241.8	9661.6	10225.5	10582.6	11347.0	12399.6	13502.4	14674.1	16021.2	16860.8	17882.0
12.5°	8170.4	8515.0	9035.0	9786.9	10357.1	11040.0	11860.8	13339.5	15269.3	16065.0	16766.8
15°	6986.2	7368.4	7969.9	8803.2	9486.1	10300.7	11221.7	12832.0	14887.1	16115.1	16710.4
17.5°	6008.7	6284.4	6917.2	7637.8	8421.0	9310.7	10632.7	12806.9	15288.1	16860.8	17831.9
20°	5332.0	5369.6	5714.2	6328.3	7393.4	8552.6	10269.3	12681.6	16572.5	18145.2	19373.3
22.5°	4906.0	4868.4	4874.6	5394.7	6140.3	7806.9	9699.2	13107.7	18032.4	20187.8	21014.9
25°	4692.9	4592.7	4530.0	4642.8	5319.5	6923.5	9266.8	13671.6	19605.1	21873.2	22888.3
27.5°	4580.2	4404.7	4279.4	4298.2	4793.2	6478.6	8997.4	13915.9	21165.2	24222.8	24580.0
30°	4536.3	4317.0	4135.3	4072.6	4398.5	5858.3	8421.0	14335.7	22562.5	25513.6	25820.6
32.5°	4379.7	4110.2	3934.8	3878.4	4010.0	5313.2	8007.4	14636.5	23796.8	26917.1	26810.5
35°	4198.0	3972.4	3753.1	3646.6	3740.6	4962.4	7675.4	14492.4	25250.4	28007.3	27950.9
37.5°	4179.2	3884.7	3703.0	3527.5	3521.3	4530.0	7224.2	14630.2	26177.7	29962.1	29191.5
40°	4016.3	3828.3	3590.2	3446.1	3364.6	4310.7	6785.7	14304.4	27537.4	30751.6	29993.5
42.5°	4022.5	3740.6	3533.8	3364.6	3283.2	3991.2	6484.9	14216.7	28013.5	32036.1	30369.4
45°	3922.3	3646.6	3471.1	3270.6	3226.8	3746.8	6196.7	13809.4	28853.1	32098.7	29899.5
47.5°	3822.0	3577.7	3389.7	3151.6	3051.4	3659.1	5971.1	13471.1	28414.5	31509.7	29247.9
50°	3753.1	3471.1	3295.7	3126.5	2844.6	3508.7	5676.6	13389.6	27800.5	30714.0	28038.6
52.5°	3634.1	3383.4	3201.7	3070.1	2619.0	3370.9	5563.9	13865.8	28552.4	30118.8	27687.7
55°	3521.3	3264.4	3032.6	2775.7	2431.1	3007.5	5250.6	14310.7	29648.9	31491.0	29279.2
57.5°	3402.2	3157.9	2907.2	2600.2	2249.4	2631.6	4924.8	14392.1	27593.7	29103.8	27794.2
60°	3245.6	2932.3	2744.3	2343.3	2055.1	2180.4	3903.5	12687.9	21403.3	24304.3	24348.2
62.5°	3070.1	2731.8	2568.9	2099.0	1854.6	1879.7	3182.9	10664.1	17362.0	20118.9	21315.6
65°	2838.3	2512.5	2318.3	1942.3	1710.5	1629.1	2330.8	7813.2	13189.1	16321.9	17681.5
67.5°	2537.6	2230.6	1986.2	1691.7	1528.8	1397.2	1591.5	4398.5	7788.2	10958.6	11372.1
70°	2218.0	1954.9	1698.0	1453.6	1271.9	1177.9	1165.4	1948.6	3721.8	5895.9	6710.5
72.5°	1748.1	1560.1	1353.4	1171.7	1052.6	914.8	833.3	808.3	1259.4	2399.7	3314.5
75°	1253.1	1096.5	977.4	858.4	770.7	695.5	632.8	576.4	526.3	601.5	827.1
77.5°	789.5	733.1	639.1	607.8	557.6	538.8	513.8	482.5	444.9	419.8	419.8
80°	532.6	495.0	463.7	457.4	438.6	432.3	438.6	407.3	369.7	338.3	350.9
82.5°	357.1	350.9	344.6	338.3	344.6	350.9	363.4	357.1	325.8	307.0	313.3
85°	213.0	225.6	238.1	250.6	275.7	244.4	200.5	169.2	150.4	137.8	131.6
87.5°	81.5	112.8	100.2	94.0	100.2	94.0	87.7	81.5	68.9	62.7	62.7
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°	19185.3	19185.3	19185.3	19185.3	19185.3	19185.3	19185.3	19185.3	19185.3	19185.3
2.5°	20745.4	20870.7	20977.3	20952.2	20732.9	20438.4	20319.4	19711.6	19586.3	19504.8
5°	21027.4	21754.2	21910.8	21816.9	21246.7	20526.1	19824.4	18934.7	18414.6	18395.8
7.5°	20507.3	21403.3	21685.3	21898.3	21140.2	19887.0	18684.0	17349.5	17023.7	17048.7
10°	19185.3	20613.9	21309.3	21528.6	20657.7	19573.8	17907.1	16553.7	15858.3	15845.7
12.5°	18452.2	19573.8	19768.0	20075.0	19818.1	18721.6	17456.0	15939.7	15263.0	15250.5
15°	17800.6	18539.9	18596.3	19028.7	19166.5	18427.2	17575.0	15958.5	15413.4	15357.0
17.5°	18370.8	17857.0	17644.0	17700.3	18107.6	18377.0	18264.3	17023.7	16466.0	16152.7
20°	18753.0	17606.4	16961.0	17023.7	17506.1	18489.8	19291.8	18565.0	17681.5	17719.1
22.5°	19774.3	17644.0	16635.2	16566.3	17330.7	19078.8	20450.9	20513.6	19661.5	19454.7
25°	21303.1	18076.3	16534.9	16516.1	17249.2	19711.6	21804.3	22819.3	21948.4	21566.2
27.5°	22531.1	18753.0	16848.2	16910.9	17506.1	20225.4	22957.2	24304.3	23640.1	23170.2
30°	23608.8	19454.7	17286.8	16998.6	18195.3	20494.8	23452.2	25996.0	25463.4	25075.0
32.5°	24053.7	20450.9	17982.3	17506.1	18765.5	20820.6	24479.7	27637.6	27180.2	26221.6
35°	24805.5	21008.6	18358.2	18320.6	19761.7	21603.8	24962.2	28721.6	28533.6	27681.5
37.5°	25407.0	21572.5	19692.8	19279.3	21127.6	22919.6	25739.1	30219.0	29786.7	29385.7
40°	25870.7	22581.3	20939.7	21484.8	22806.8	24116.3	26453.4	30313.0	31559.9	30394.5
42.5°	25444.6	23483.5	22988.5	24291.8	25544.9	25482.2	26534.9	31039.8	31973.4	31365.6
45°	25338.1	25012.3	26227.8	27412.0	27700.3	26616.3	25952.2	30237.8	31848.1	31578.7
47.5°	25081.2	26516.1	28633.8	30563.6	30125.0	27374.4	25256.7	30093.7	31923.3	31440.8
50°	24993.5	26841.9	30413.3	32293.0	32029.8	28032.3	24930.9	29166.4	31390.7	31346.8
52.5°	24987.3	27512.3	31152.6	33232.8	33395.7	29072.4	25375.7	29636.3	31804.2	32173.9
55°	25269.2	27299.3	31058.6	32712.7	32650.1	28608.8	25425.8	29949.6	32311.7	32675.2
57.5°	23834.4	24454.7	25632.6	26942.1	26603.8	23696.5	22706.6	27687.7	29655.1	29392.0
60°	20582.5	18640.2	17311.9	17249.2	16591.3	15682.8	18583.8	24711.6	24711.6	24454.7
62.5°	18026.2	12236.7	10513.7	10025.0	10494.9	11541.3	17925.9	24034.9	23351.9	23057.4
65°	15764.3	9342.0	7600.2	7462.3	8276.9	9855.8	16209.1	20476.0	19273.0	18295.6
67.5°	10144.0	6842.0	5651.6	5407.2	6390.9	7236.8	10789.4	12593.9	11835.7	11453.5
70°	6541.3	4454.8	3145.3	2951.1	3333.3	4461.1	6892.2	7343.3	6240.5	5983.7
72.5°	3095.2	1923.5	1102.7	908.5	1021.3	1704.2	2725.5	2932.3	2437.3	2230.6
75°	983.7	708.0	451.1	388.5	369.7	438.6	626.6	482.5	350.9	344.6
77.5°	438.6	419.8	357.1	300.7	263.2	219.3	181.7	150.4	156.6	162.9
80°	363.4	332.1	294.5	263.2	219.3	169.2	131.6	100.2	100.2	106.5
82.5°	319.5	288.2	256.9	219.3	188.0	137.8	100.2	68.9	62.7	62.7
85°	137.8	162.9	175.4	188.0	150.4	112.8	68.9	43.9	37.6	37.6
87.5°	56.4	50.1	43.9	37.6	31.3	31.3	25.1	18.8	12.5	12.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)