

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: P532630

Luminaire Tested: **GLAN-SA8A-730-U-SLL-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P532630
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-24)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA8A-730-U-SLL-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR LEFT OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25047 lumens
Efficiency: N/A
Efficacy: 102.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

Input Watts (W): 244
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

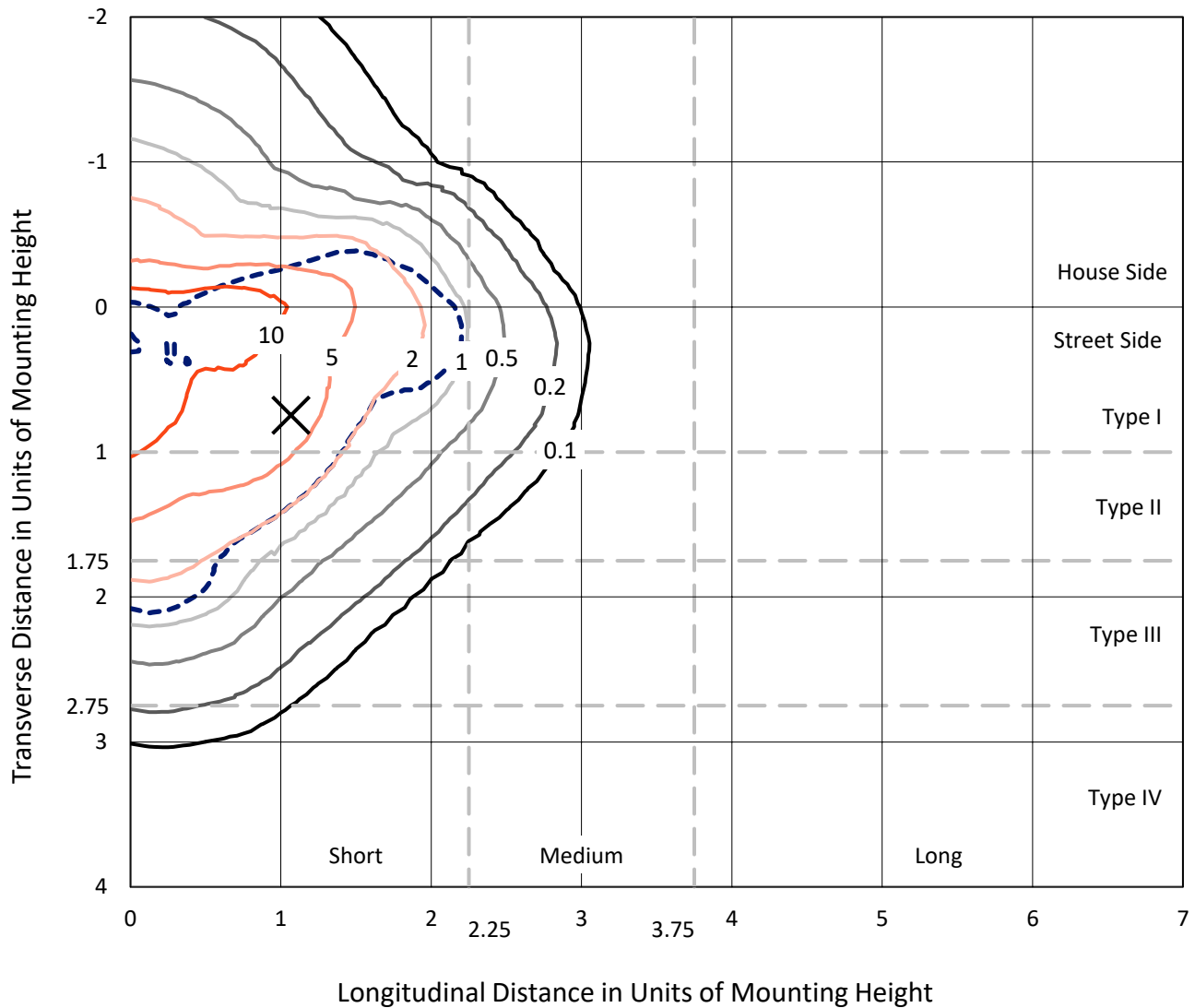


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

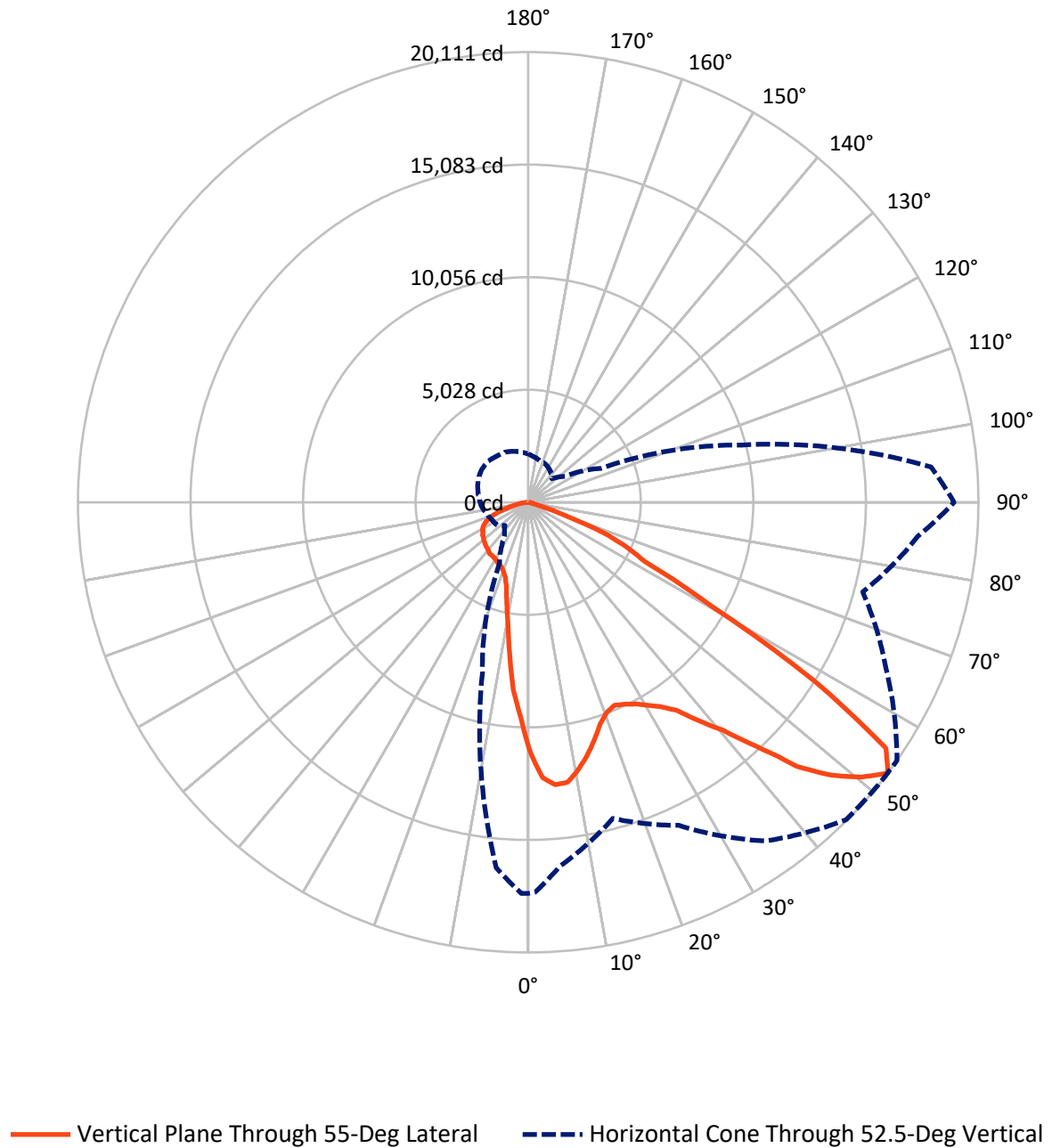


Based on 25 foot mounting height. Maximum calculated value = 19 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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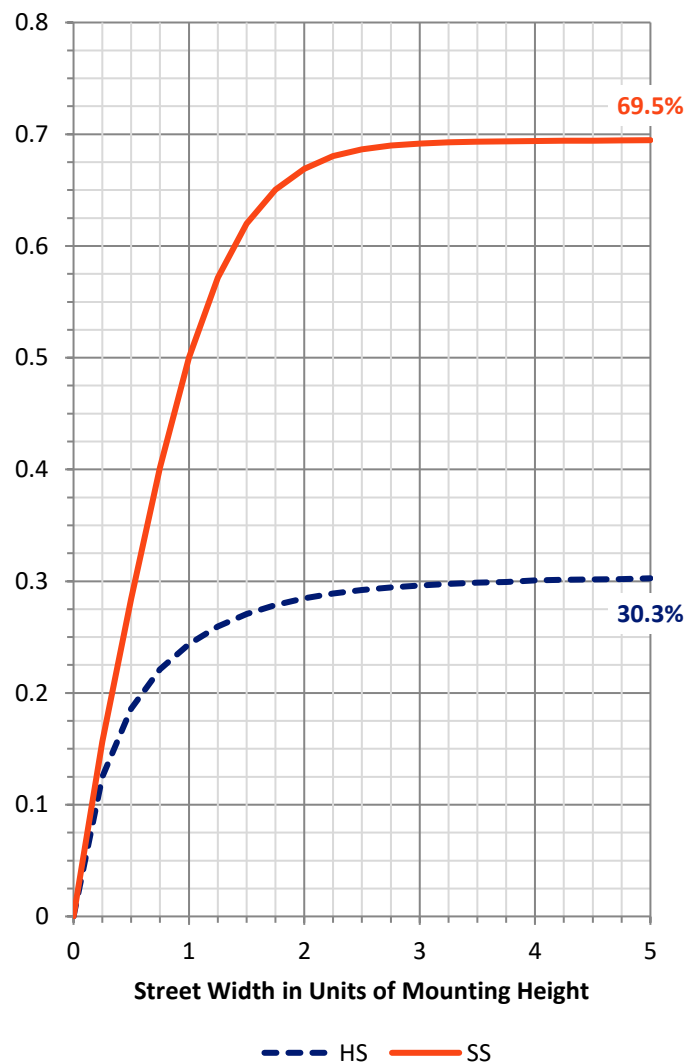
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7640.7	0.0	7640.7
	% Fixture	30.5	0.0	30.5
Street Side	Lumens	17406.3	0.0	17406.3
	% Fixture	69.5	0.0	69.5
Total	Lumens	25047.0	0.0	25047.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	853.6	3.4
10°-20°	1840.4	7.3
20°-30°	2790.7	11.1
30°-40°	4032.2	16.1
40°-50°	5388.1	21.5
50°-60°	6014.3	24.0
60°-70°	3299.1	13.2
70°-80°	713.3	2.8
80°-90°	115.4	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°	25047.0	100.0
0°-180°	25047.0	100.0

Coefficient of Utilization



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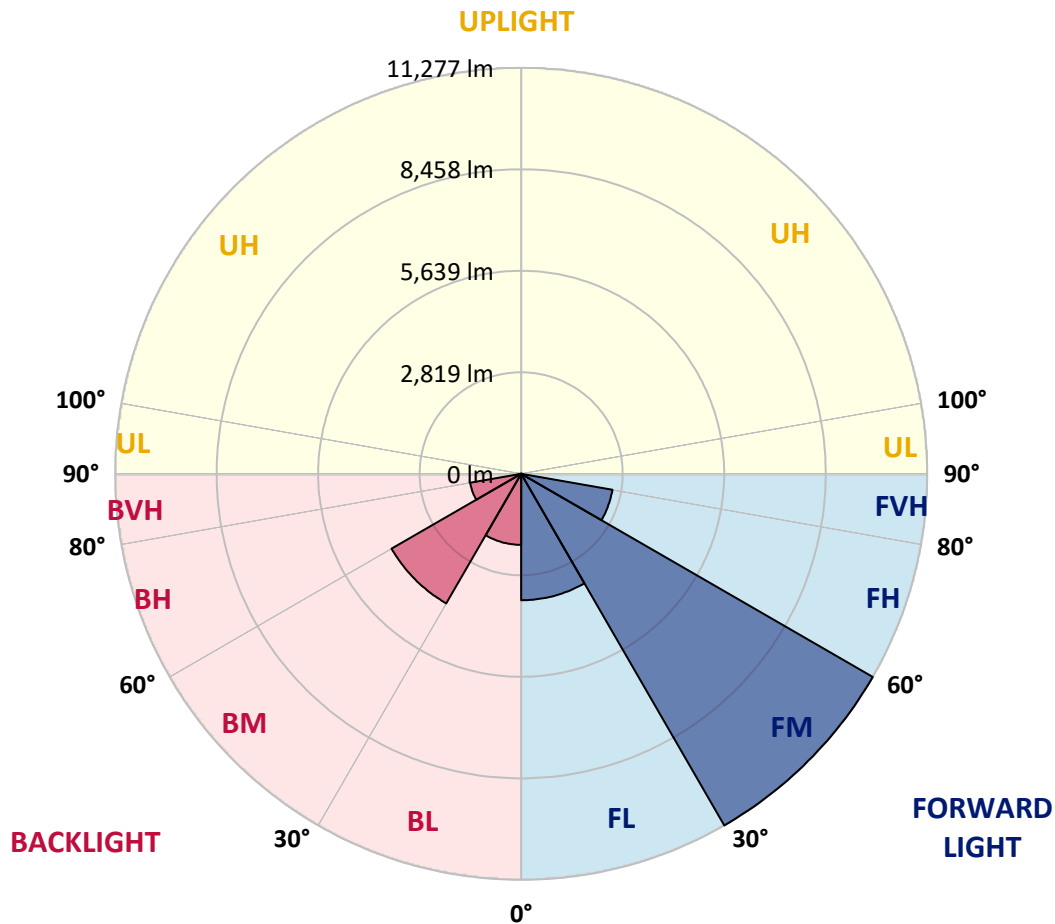
CATALOG NUMBER: GLAN-SA8A-730-U-SLL-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3512.0	14.0			
FM	(30°-60°)	11277.3	45.0			
FH	(60°-80°)	2574.2	10.3			G2/5000
FVH	(80°-90°)	42.7	0.2			G1/100
BL	(0°-30°)	1972.7	7.9	B3/2500		
BM	(30°-60°)	4157.2	16.6	B3/5000		
BH	(60°-80°)	1438.2	5.7	B3/2500		G3/2500
BVH	(80°-90°)	72.7	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	11172.9	11172.9	11172.9	11172.9	11172.9	11172.9	11172.9	11172.9	11172.9	11172.9	11172.9
2.5°	11725.1	11659.3	11717.8	11995.8	12156.7	12266.4	12335.9	12324.9	12061.6	11805.6	11805.6
5°	11381.4	11297.2	11417.9	12047.0	12679.7	12734.5	12826.0	12676.0	12288.4	11820.2	11235.1
7.5°	10386.6	10448.8	10649.9	11476.5	12299.3	12712.6	12822.3	12632.1	12003.1	11129.0	10269.6
10°	9527.1	9673.4	10137.9	11030.3	11787.3	12324.9	12445.6	12178.6	11681.3	10609.7	9841.7
12.5°	9230.9	9139.5	9655.1	10547.5	11271.6	11560.6	11615.4	11633.7	11297.2	10346.4	9410.1
15°	9194.3	9252.8	9655.1	10331.7	10777.9	10792.5	10884.0	11026.6	11070.5	10525.6	9611.3
17.5°	9721.0	9651.5	10064.8	10602.4	10390.2	10178.1	10200.1	10404.9	10766.9	10679.2	10244.0
20°	10500.0	10657.2	10982.7	10927.9	10357.3	9819.7	9823.4	10017.2	10730.4	11315.5	11125.4
22.5°	11794.6	11948.2	12189.6	11527.7	10357.3	9713.7	9589.3	9852.6	10964.4	12072.6	12120.1
25°	12975.9	13257.5	13323.4	12544.4	10876.7	9812.4	9731.9	9991.6	11198.5	12811.3	13261.2
27.5°	14051.2	14153.6	14442.5	13199.0	11165.6	9878.2	9870.9	10203.7	11494.7	13180.7	14281.6
30°	14899.6	14888.7	15053.2	13612.3	11626.4	10247.6	9892.9	10521.9	11882.4	13791.5	15225.1
32.5°	15477.5	15601.8	15949.3	14186.5	11820.2	10598.7	10320.8	10894.9	12354.2	14080.4	15890.8
35°	16494.2	16710.0	16271.1	14504.7	12434.7	10946.1	10620.7	11403.3	12588.3	14394.9	16706.3
37.5°	17452.4	17287.8	16841.6	14676.5	12833.3	11589.8	11286.3	12387.1	13316.0	15078.8	17247.6
40°	18066.8	18063.2	17269.5	14815.5	13114.9	12573.6	12555.3	13385.5	14208.4	15510.4	17854.7
42.5°	18333.8	18589.8	17445.1	14800.9	13707.4	13765.9	14135.3	14877.7	14841.1	15598.2	17840.1
44°	18699.5	18853.1	17748.6	14833.8	14102.4	14570.5	15440.9	15912.7	15393.4	15550.6	17821.8
45°	18684.9	18695.9	17317.1	14877.7	14438.8	15243.4	16022.4	16819.7	15879.8	15448.2	18063.2
47.5°	18257.0	18132.6	16951.4	14552.2	15488.5	17020.8	17741.3	18224.1	16479.6	15228.8	17763.3
50°	17412.2	17269.5	16062.6	14413.2	15707.9	18125.3	19120.1	19295.7	17024.5	15013.0	17467.0
52.5°	17470.7	17430.5	16315.0	14621.7	15927.3	18472.8	20067.3	20111.2	17642.6	15466.5	17470.7
55°	18516.7	18377.7	17039.1	14881.4	15766.4	18066.8	19463.9	19387.1	17434.1	15192.2	17792.5
57.5°	16944.0	17035.5	16037.0	13853.7	13798.8	14687.5	15301.9	15111.8	14548.5	13711.0	16552.7
60°	13670.8	13930.5	14025.6	11586.2	10412.2	9955.0	9772.2	9435.7	9530.8	11264.3	14541.2
62.5°	11725.1	11710.5	12306.6	10503.6	6820.8	5866.2	5778.5	5855.3	6952.4	11088.8	14241.3
65°	9296.7	9545.4	9728.3	8901.7	5398.1	4355.8	4352.1	4838.5	6016.2	9267.5	11498.4
67.5°	5902.8	6228.3	6455.0	5694.3	3609.7	3101.3	3017.2	3602.4	4169.3	6078.3	6923.2
70°	3328.1	3481.7	3584.1	3284.2	2296.8	1609.2	1514.1	1653.1	2519.8	3935.2	4103.4
72.5°	1283.7	1353.2	1492.2	1503.1	866.8	519.3	420.6	504.7	1060.6	1558.0	1484.8
75°	197.5	212.1	299.9	358.4	248.7	190.2	201.1	208.5	296.2	402.3	336.5
77.5°	95.1	95.1	91.4	106.1	124.3	135.3	146.3	160.9	175.5	193.8	186.5
80°	62.2	62.2	62.2	73.1	91.4	109.7	124.3	131.7	139.0	153.6	146.3
82.5°	40.2	40.2	40.2	54.9	73.1	91.4	98.7	117.0	131.7	153.6	142.6
85°	21.9	21.9	21.9	36.6	54.9	76.8	73.1	58.5	32.9	3.7	7.3
87.5°	7.3	7.3	7.3	7.3	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°	11172.9	11172.9	11172.9	11172.9	11172.9	11172.9	11172.9	11172.9	11172.9	11172.9	11172.9
2.5°	11498.4	11330.2	11315.5	10971.8	10664.5	10514.6	10393.9	10057.4	10130.6	9936.7	9933.1
5°	10942.5	10598.7	10042.8	9585.7	9128.5	9037.1	8638.4	8291.0	8302.0	8053.3	8097.2
7.5°	9944.1	9706.3	9029.8	8312.9	7705.8	7274.3	6897.6	6670.8	6381.9	6283.2	6232.0
10°	9311.4	9018.8	8258.1	7358.4	6678.1	6447.7	6085.7	5884.5	5588.3	5442.0	5339.6
12.5°	9033.4	8605.5	7654.6	6740.3	6286.8	6049.1	5741.9	5376.2	5025.1	4889.7	4703.2
15°	9062.7	8550.7	7479.1	6491.6	5946.7	5485.9	5211.6	4805.6	4447.2	4209.5	4074.2
17.5°	9505.2	8883.5	7559.5	6301.4	5518.8	4940.9	4403.3	3964.5	3679.2	3500.0	3456.1
20°	10551.2	9706.3	7694.9	5994.2	5090.9	4370.4	3708.5	3251.3	3031.9	3028.2	3031.9
22.5°	11421.6	10584.1	7969.1	5811.4	4663.0	3639.0	2980.7	2834.4	2790.5	2881.9	2892.9
25°	12595.6	11571.5	8440.9	5716.3	4268.0	3101.3	2695.4	2640.5	2636.9	2753.9	2757.6
27.5°	13798.8	12434.7	8722.5	5438.3	3865.7	2823.4	2523.5	2512.5	2571.0	2695.4	2684.4
30°	14618.0	13158.8	9230.9	5105.5	3390.3	2578.4	2454.0	2468.6	2549.1	2644.2	2658.8
32.5°	15572.6	13872.0	9362.6	4922.7	3097.7	2373.6	2285.8	2318.7	2421.1	2571.0	2651.5
35°	16666.1	14376.7	9563.7	4674.0	2988.0	2216.3	2172.4	2209.0	2333.3	2432.1	2519.8
37.5°	17474.3	15269.0	9600.3	4480.1	2867.3	2128.5	2059.0	2179.7	2252.9	2391.8	2435.7
40°	18074.1	15916.4	9695.4	4359.4	2772.2	2015.1	2015.1	2095.6	2194.4	2322.4	2410.1
42.5°	18458.1	16388.1	9764.9	4249.7	2589.3	1982.2	1963.9	2044.4	2176.1	2300.4	2340.6
44°	18692.2	16589.3	9695.4	4147.3	2538.1	1942.0	1942.0	2011.5	2113.9	2260.2	2307.7
45°	18750.7	16841.6	9541.8	4143.7	2476.0	1894.5	1887.1	2018.8	2088.3	2267.5	2296.8
47.5°	18977.5	17152.5	9560.1	4026.6	2326.0	1781.1	1909.1	1967.6	2029.8	2187.0	2285.8
50°	18970.2	17346.3	9519.8	3854.7	2216.3	1653.1	1865.2	1931.0	1993.2	2154.1	2194.4
52.5°	19021.4	18070.5	9889.2	3580.4	2018.8	1488.5	1718.9	1865.2	1942.0	2077.3	2161.4
55°	18995.8	18483.7	10254.9	3375.6	1740.9	1389.8	1594.6	1766.5	1876.2	2018.8	2059.0
57.5°	17350.0	16336.9	9490.6	2991.6	1441.0	1272.7	1419.0	1664.0	1803.0	1949.3	2000.5
60°	14175.5	12591.9	7826.5	2201.7	1184.9	1170.3	1320.3	1631.1	1689.6	1817.7	1905.4
62.5°	13100.3	11044.9	6206.4	1682.3	1013.1	1071.6	1217.9	1473.9	1565.3	1722.6	1803.0
65°	10251.3	7336.4	3843.8	1137.4	892.4	961.9	1100.8	1291.0	1441.0	1587.2	1682.3
67.5°	6071.0	4008.3	1901.8	797.3	779.0	852.1	994.8	1137.4	1309.3	1470.2	1517.8
70°	3306.2	1971.3	811.9	607.1	662.0	727.8	866.8	965.5	1130.1	1254.4	1334.9
72.5°	1060.6	599.8	406.0	449.8	504.7	581.5	665.6	786.3	903.3	976.5	1042.3
75°	256.0	252.4	288.9	314.5	365.7	424.2	493.7	555.9	647.3	716.8	775.3
77.5°	179.2	193.8	223.1	259.7	278.0	299.9	343.8	391.3	431.6	482.8	519.3
80°	139.0	149.9	171.9	190.2	208.5	226.7	248.7	267.0	292.6	325.5	343.8
82.5°	131.7	139.0	160.9	171.9	164.6	160.9	175.5	182.9	186.5	197.5	208.5
85°	11.0	0.0	7.3	25.6	62.2	91.4	98.7	98.7	95.1	102.4	102.4
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.7	14.6	11.0
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°	11172.9	11172.9	11172.9	11172.9	11172.9	11172.9	11172.9	11172.9	11172.9	11172.9	11172.9
2.5°	9889.2	9764.9	9812.4	9870.9	9786.8	9593.0	9644.2	9622.2	9819.7	9805.1	10002.6
5°	8291.0	8097.2	8119.1	8404.4	8312.9	8411.7	8214.2	8188.6	8225.2	8243.4	8276.4
7.5°	6345.3	6319.7	6539.2	6780.5	6893.9	6776.9	6583.1	6539.2	6498.9	6418.5	6601.3
10°	5178.7	5186.0	5171.4	5354.2	5482.2	5456.6	5339.6	5325.0	5248.2	5218.9	5321.3
12.5°	4622.8	4524.0	4476.5	4418.0	4516.7	4582.5	4531.3	4494.8	4498.4	4535.0	4549.6
15°	4085.1	4023.0	3920.6	3854.7	3902.3	3869.4	3851.1	3924.2	3905.9	3898.6	3986.4
17.5°	3481.7	3532.9	3525.6	3452.4	3514.6	3489.0	3485.4	3434.2	3364.7	3313.5	3342.7
20°	3083.1	3178.2	3251.3	3255.0	3287.9	3284.2	3229.4	3072.1	3020.9	3009.9	3017.2
22.5°	2940.4	2991.6	3079.4	3203.8	3203.8	3145.2	3079.4	2896.5	2849.0	2797.8	2775.9
25°	2827.1	2925.8	3039.2	3053.8	3112.3	3057.5	2951.4	2860.0	2761.2	2691.7	2691.7
27.5°	2768.5	2878.3	2962.4	2988.0	3068.4	3024.5	2914.8	2797.8	2680.8	2677.1	2614.9
30°	2742.9	2845.3	2900.2	2962.4	2998.9	2929.5	2896.5	2772.2	2655.2	2625.9	2523.5
32.5°	2666.1	2812.4	2914.8	2900.2	2929.5	2900.2	2852.7	2750.3	2618.6	2552.8	2541.8
35°	2578.4	2724.7	2834.4	2911.2	2929.5	2867.3	2838.0	2699.1	2519.8	2486.9	2373.6
37.5°	2530.8	2618.6	2753.9	2878.3	2903.9	2870.9	2772.2	2629.6	2450.4	2413.8	2315.0
40°	2472.3	2585.7	2691.7	2794.1	2870.9	2790.5	2677.1	2538.1	2457.7	2348.0	2318.7
42.5°	2428.4	2556.4	2644.2	2757.6	2845.3	2739.3	2607.6	2512.5	2399.2	2326.0	2241.9
44°	2413.8	2530.8	2589.3	2728.3	2801.5	2721.0	2611.3	2512.5	2380.9	2315.0	2241.9
45°	2362.6	2523.5	2585.7	2710.0	2772.2	2706.4	2567.4	2468.6	2373.6	2293.1	2216.3
47.5°	2311.4	2421.1	2527.2	2625.9	2669.8	2647.8	2530.8	2410.1	2296.8	2249.2	2176.1
50°	2296.8	2406.5	2505.2	2596.6	2647.8	2604.0	2497.9	2380.9	2249.2	2172.4	2110.2
52.5°	2223.6	2358.9	2468.6	2497.9	2563.7	2538.1	2457.7	2329.7	2205.3	2139.5	2088.3
55°	2117.5	2260.2	2410.1	2446.7	2541.8	2501.6	2380.9	2260.2	2154.1	2055.4	1989.5
57.5°	2077.3	2216.3	2362.6	2410.1	2468.6	2402.8	2373.6	2245.6	2077.3	2026.1	1923.7
60°	1974.9	2150.5	2271.2	2380.9	2384.5	2366.2	2315.0	2168.7	2029.8	1934.7	1861.5
62.5°	1894.5	2059.0	2154.1	2256.5	2318.7	2267.5	2216.3	2081.0	1931.0	1825.0	1740.9
65°	1777.4	1927.4	2007.8	2070.0	2139.5	2132.2	2044.4	1945.7	1788.4	1704.3	1623.8
67.5°	1598.2	1729.9	1839.6	1898.1	1942.0	1931.0	1865.2	1795.7	1634.8	1550.7	1492.2
70°	1382.4	1517.8	1587.2	1620.2	1664.0	1686.0	1634.8	1601.9	1459.2	1349.5	1294.7
72.5°	1111.8	1199.6	1302.0	1331.2	1349.5	1364.2	1364.2	1334.9	1188.6	1144.7	1049.6
75°	819.2	888.7	965.5	965.5	998.4	1002.1	1009.4	991.1	881.4	822.9	800.9
77.5°	555.9	607.1	669.3	694.9	716.8	713.2	709.5	658.3	599.8	574.2	552.2
80°	362.1	413.3	442.5	475.4	497.4	493.7	501.0	464.5	438.9	395.0	402.3
82.5°	215.8	256.0	285.3	325.5	325.5	336.5	336.5	325.5	299.9	278.0	278.0
85°	102.4	135.3	153.6	179.2	193.8	197.5	175.5	149.9	124.3	113.4	124.3
87.5°	18.3	25.6	36.6	32.9	40.2	36.6	36.6	36.6	36.6	29.3	32.9
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°	11172.9	11172.9	11172.9	11172.9	11172.9	11172.9	11172.9	11172.9	11172.9	11172.9
2.5°	9929.4	10112.3	10240.3	10452.4	10818.1	11110.7	11410.6	11633.7	11659.3	11725.1
5°	8397.0	8495.8	8821.3	9245.5	9545.4	10039.2	10357.3	10935.2	11151.0	11381.4
7.5°	6557.4	6718.4	7153.6	7438.8	8097.2	8715.2	9355.2	10068.4	10353.7	10386.6
10°	5529.8	5763.8	6060.1	6517.2	6875.6	7563.2	8360.5	9154.1	9472.3	9527.1
12.5°	4856.8	5156.7	5551.7	5880.9	6224.6	6824.4	7588.8	8568.9	8982.2	9230.9
15°	4209.5	4520.4	4955.6	5412.7	5716.3	6433.1	7332.8	8437.3	8974.9	9194.3
17.5°	3543.9	3832.8	4191.2	4684.9	5295.7	6100.3	7292.6	8876.1	9465.0	9721.0
20°	2973.3	3134.3	3551.2	4059.5	4823.9	5760.2	7307.2	9523.5	10386.6	10500.0
22.5°	2750.3	2786.8	2951.4	3419.5	4257.0	5412.7	7566.9	10441.4	11421.6	11794.6
25°	2578.4	2571.0	2614.9	2929.5	3843.8	5277.4	7822.9	11286.3	12570.0	12975.9
27.5°	2483.3	2410.1	2413.8	2710.0	3551.2	5058.0	8152.0	12255.4	13872.0	14051.2
30°	2435.7	2421.1	2377.2	2497.9	3233.0	4728.8	8206.9	13210.0	14640.0	14899.6
32.5°	2406.5	2263.8	2209.0	2252.9	2933.1	4370.4	8411.7	13839.0	15590.9	15477.5
35°	2260.2	2132.2	2095.6	2139.5	2721.0	4169.3	8276.4	14387.6	16304.0	16494.2
37.5°	2205.3	2091.9	2018.8	1982.2	2523.5	4001.0	8206.9	15232.4	16995.2	17452.4
40°	2154.1	2033.4	1945.7	1909.1	2369.9	3777.9	8184.9	15883.4	17792.5	18066.8
42.5°	2095.6	2018.8	1920.1	1854.2	2183.4	3554.8	7932.6	16084.6	18037.6	18333.8
44°	2077.3	1960.3	1857.9	1835.9	2110.2	3441.5	7881.4	16267.4	18249.7	18699.5
45°	2059.0	1949.3	1832.3	1803.0	2084.6	3379.3	7811.9	16311.3	18600.8	18684.9
47.5°	2007.8	1938.3	1825.0	1744.5	2029.8	3244.0	7603.4	16062.6	18242.4	18257.0
50°	1967.6	1887.1	1770.1	1612.8	1956.6	3130.6	7698.5	15971.2	17379.3	17412.2
52.5°	1923.7	1803.0	1737.2	1466.6	1835.9	3035.5	7899.7	16384.5	17478.0	17470.7
55°	1872.5	1740.9	1579.9	1342.2	1634.8	2914.8	8386.1	17200.0	18392.3	18516.7
57.5°	1792.1	1678.7	1448.3	1232.5	1404.4	2684.4	8228.8	15638.4	16922.1	16944.0
60°	1686.0	1579.9	1313.0	1148.4	1152.0	2117.5	7358.4	12186.0	13352.6	13670.8
62.5°	1583.6	1525.1	1199.6	1027.7	980.1	1686.0	6221.0	10126.9	11461.8	11725.1
65°	1462.9	1320.3	1100.8	936.3	841.2	1181.3	4407.0	7566.9	8942.0	9296.7
67.5°	1309.3	1155.7	969.2	822.9	720.5	790.0	2274.8	4300.9	5694.3	5902.8
70°	1144.7	1002.1	815.6	694.9	581.5	544.9	1002.1	2051.7	3112.3	3328.1
72.5°	939.9	808.3	651.0	548.6	435.2	376.7	336.5	548.6	1104.5	1283.7
75°	680.2	588.8	490.1	391.3	307.2	241.4	197.5	164.6	182.9	197.5
77.5°	501.0	427.9	362.1	278.0	215.8	171.9	135.3	102.4	98.7	95.1
80°	391.3	347.4	288.9	223.1	168.2	128.0	95.1	69.5	62.2	62.2
82.5°	307.2	285.3	237.7	182.9	139.0	102.4	69.5	47.5	40.2	40.2
85°	117.0	117.0	171.9	149.9	106.1	73.1	47.5	25.6	21.9	21.9
87.5°	29.3	29.3	29.3	29.3	25.6	21.9	21.9	11.0	7.3	7.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)