

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: P319926

Luminaire Tested: **GAN-SA2C-727-U-SL4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319926
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-24)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA2C-727-U-SL4
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11501 lumens
Efficiency: N/A
Efficacy: 101.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

Input Watts (W): 113
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

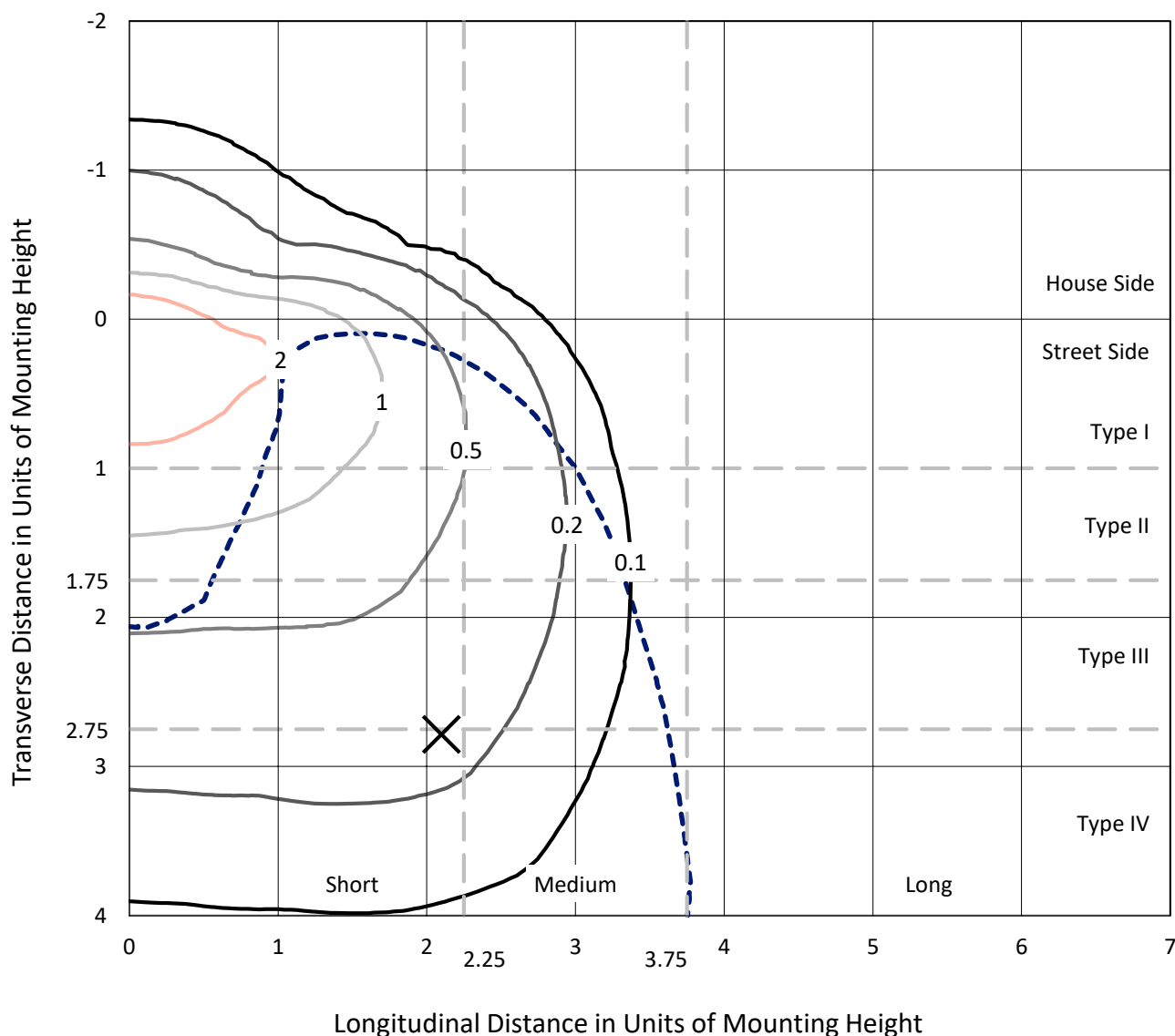


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

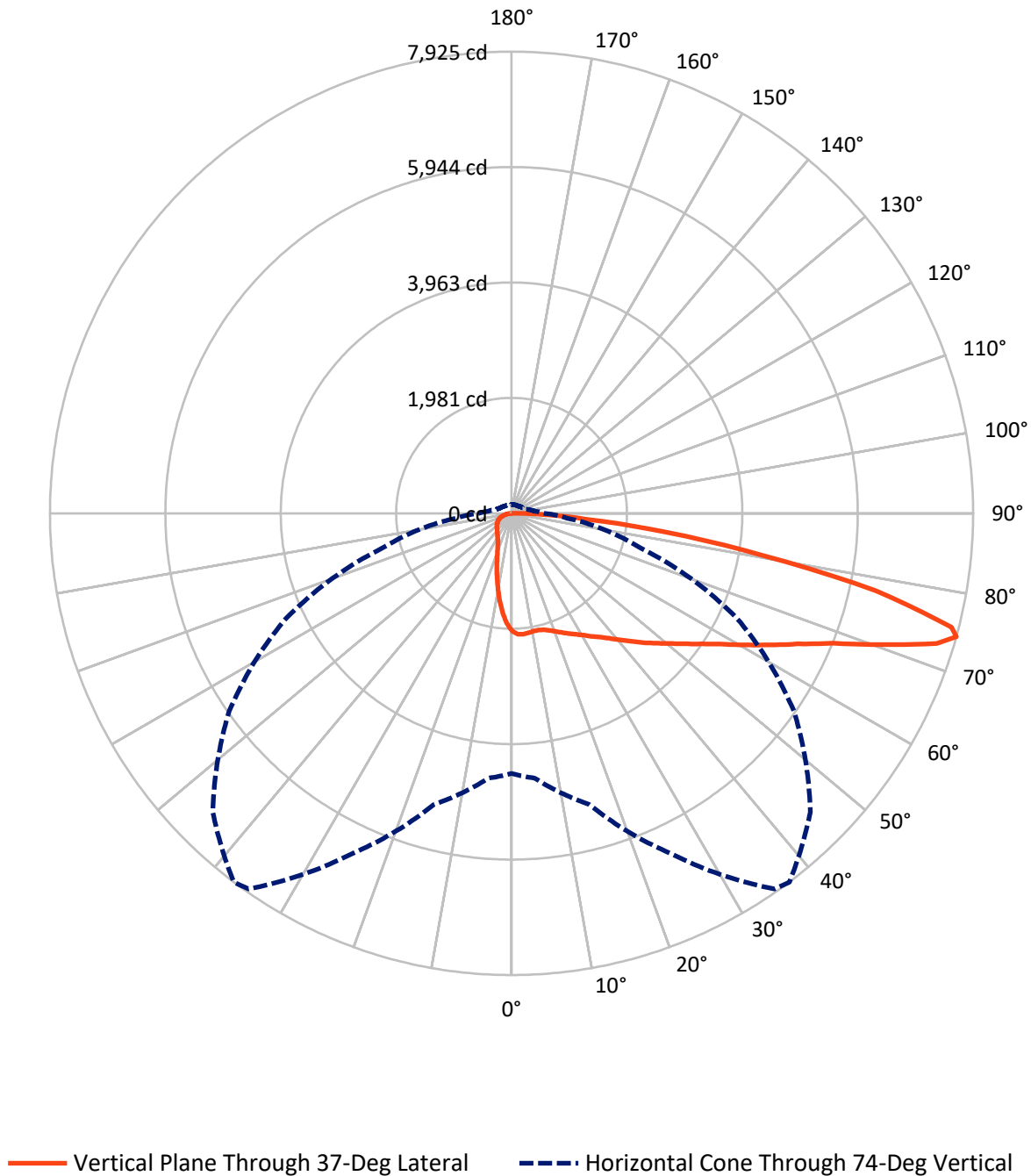
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.3 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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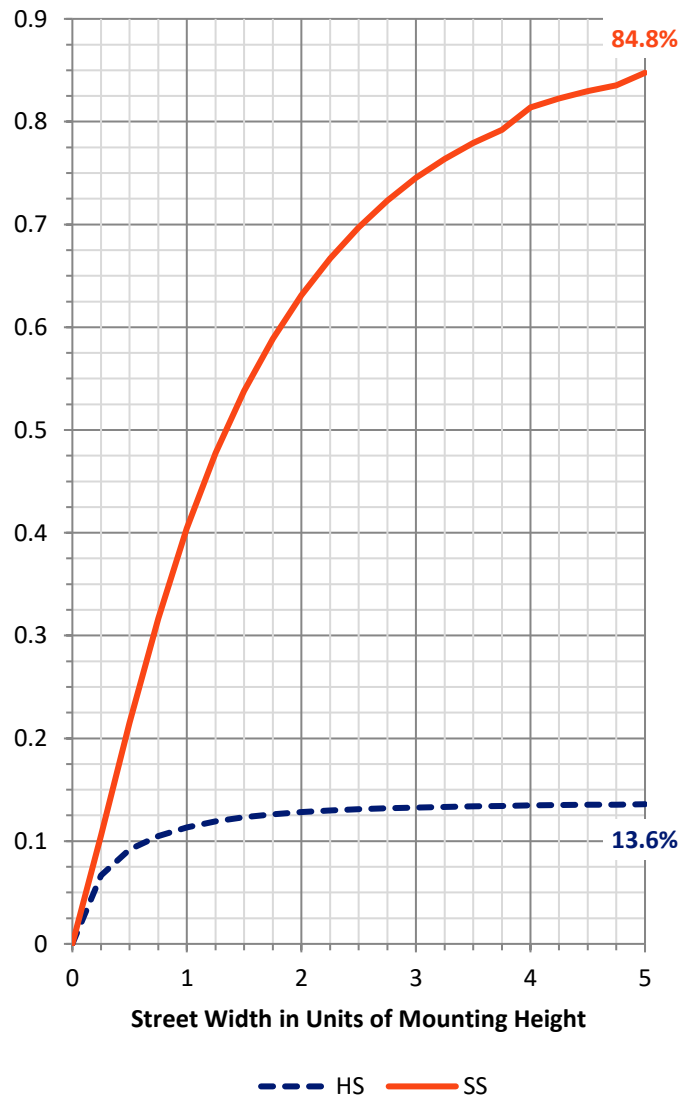
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1582.5	0.0	1582.5
	% Fixture	13.8	0.0	13.8
Street Side	Lumens	9918.5	0.0	9918.5
	% Fixture	86.2	0.0	86.2
Total	Lumens	11501.0	0.0	11501.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	178.5	1.6
10°-20°	457.4	4.0
20°-30°	704.8	6.1
30°-40°	1024.9	8.9
40°-50°	1508.4	13.1
50°-60°	2118.3	18.4
60°-70°	2681.1	23.3
70°-80°	2360.8	20.5
80°-90°	466.8	4.1
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°	11501.0	100.0
0°-180°	11501.0	100.0

Coefficient of Utilization



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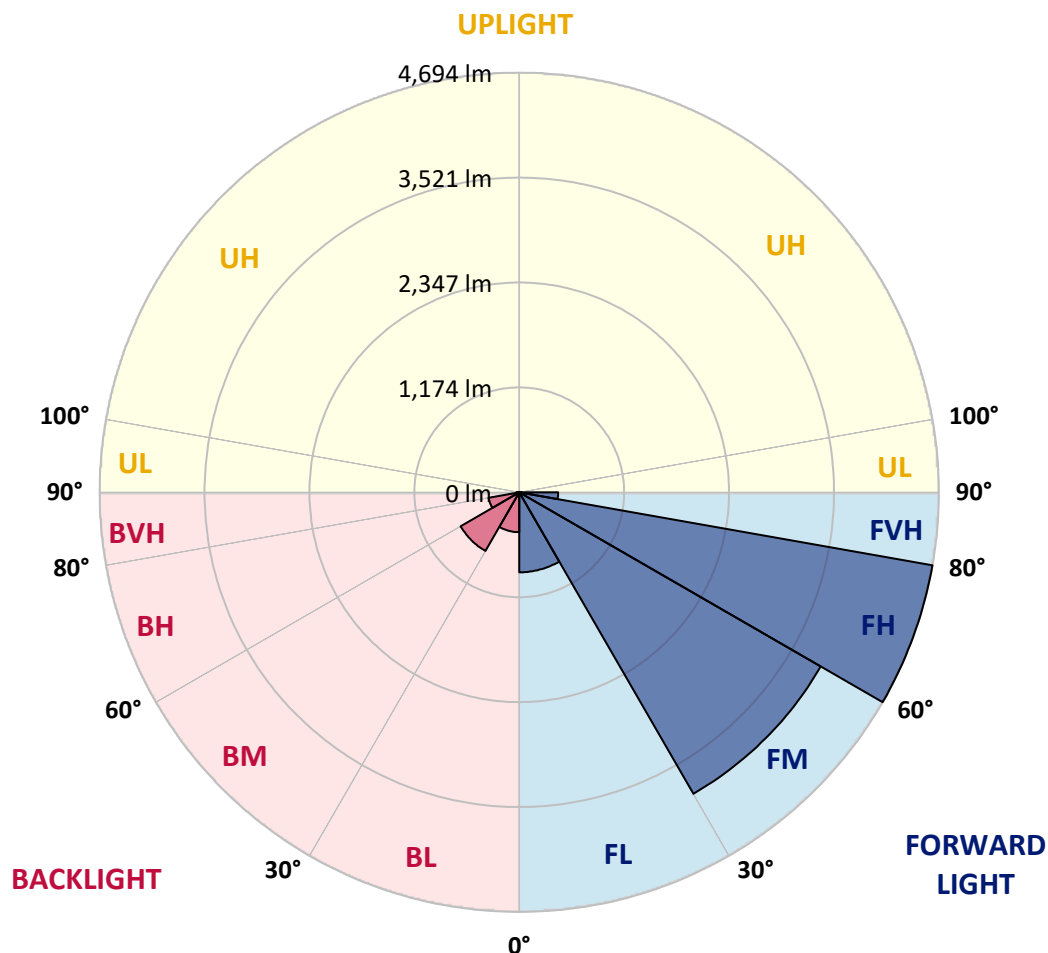
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	894.9	7.8			
FM	(30°-60°)	3894.3	33.9			
FH	(60°-80°)	4694.1	40.8			G2/5000
FVH	(80°-90°)	435.2	3.8			G3/500
BL	(0°-30°)	445.7	3.9	B1/500		
BM	(30°-60°)	757.3	6.6	B1/1000		
BH	(60°-80°)	347.8	3.0	B1/500		G1/500
BVH	(80°-90°)	31.6	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	37°	45°	55°	65°	75°	85°
0°	2026.4	2026.4	2026.4	2026.4	2026.4	2026.4	2026.4	2026.4	2026.4	2026.4	2026.4
2.5°	2095.7	2096.1	2095.7	2092.5	2084.8	2078.3	2073.0	2065.3	2048.3	2035.3	2015.9
5°	2115.6	2113.1	2111.5	2105.4	2093.3	2086.0	2075.9	2061.3	2033.3	2007.4	1975.8
7.5°	2106.2	2103.4	2099.8	2092.5	2078.7	2072.6	2058.4	2039.4	2005.8	1971.7	1926.4
10°	2077.5	2076.7	2075.0	2073.4	2061.7	2056.8	2043.9	2023.6	1990.4	1949.1	1896.0
12.5°	2045.5	2047.5	2054.0	2062.5	2057.2	2054.8	2046.7	2032.9	1998.9	1954.3	1890.3
15°	2025.2	2030.9	2048.3	2070.6	2075.0	2074.2	2072.2	2063.3	2027.2	1977.8	1903.3
17.5°	2018.3	2027.6	2060.9	2097.7	2110.7	2113.5	2114.3	2098.9	2058.8	2006.6	1916.6
20°	2030.9	2042.6	2091.3	2141.9	2162.6	2164.2	2160.5	2133.8	2088.8	2031.3	1923.9
22.5°	2069.0	2079.5	2140.3	2197.4	2220.9	2223.3	2212.4	2171.9	2120.4	2060.5	1934.1
25°	2142.3	2155.3	2216.0	2273.2	2285.3	2285.7	2269.9	2219.7	2161.7	2101.4	1955.9
27.5°	2237.9	2250.9	2305.6	2361.5	2355.0	2351.3	2329.9	2279.6	2215.6	2157.7	1994.8
30°	2344.5	2358.6	2410.5	2450.2	2434.8	2427.5	2410.1	2345.3	2290.6	2234.7	2054.4
32.5°	2454.6	2467.6	2513.0	2540.1	2520.7	2517.4	2491.1	2432.0	2388.2	2352.2	2150.8
35°	2567.7	2577.0	2621.6	2637.0	2611.0	2610.2	2602.9	2548.6	2521.1	2538.1	2291.0
37.5°	2683.1	2685.6	2723.7	2724.5	2716.8	2720.0	2727.7	2693.7	2701.4	2754.4	2473.3
40°	2786.0	2792.5	2820.1	2828.6	2841.9	2853.3	2891.8	2869.5	2929.0	3023.0	2700.2
42.5°	2862.2	2874.8	2918.9	2940.8	2984.1	3002.0	3056.3	3076.9	3196.8	3337.8	2970.0
45°	2926.6	2946.1	3017.0	3061.9	3135.3	3166.5	3244.2	3313.5	3499.5	3679.3	3254.0
47.5°	2996.3	3021.0	3109.7	3195.6	3295.3	3330.5	3471.9	3575.6	3822.3	4022.9	3521.7
50°	3098.8	3117.8	3204.5	3339.4	3463.8	3509.2	3704.9	3853.5	4150.5	4350.2	3753.9
52.5°	3241.8	3234.5	3307.8	3497.0	3663.9	3719.9	3953.6	4149.3	4483.1	4646.4	3950.0
55°	3385.6	3373.5	3424.9	3661.9	3897.3	3956.0	4227.5	4446.2	4799.5	4912.9	4100.3
57.5°	3545.6	3522.6	3565.9	3847.9	4163.1	4233.1	4534.2	4761.8	5110.6	5128.5	4195.9
60°	3710.5	3679.3	3728.0	4078.4	4500.5	4583.2	4893.1	5069.7	5404.0	5301.1	4226.7
62.5°	3854.8	3832.9	3907.8	4335.6	4880.9	4971.7	5245.5	5397.1	5693.2	5372.8	4115.7
65°	3980.8	3984.4	4114.0	4624.9	5305.1	5401.9	5649.9	5800.6	5920.9	5330.2	3856.0
67.5°	4131.1	4151.7	4372.9	5005.7	5839.1	5945.2	6238.1	6240.5	6048.1	5080.7	3344.7
70°	4350.2	4392.8	4729.0	5534.0	6598.3	6744.1	6970.2	6499.0	5869.4	4404.1	2631.7
72.5°	4544.7	4624.1	5107.8	6138.4	7523.6	7634.2	7398.4	6349.9	5122.8	3300.5	1639.5
74°	4465.7	4564.1	5176.7	6436.2	7872.0	7925.0	7253.8	5914.8	4271.2	2285.7	952.9
75°	4295.5	4402.5	5076.2	6433.4	7827.8	7798.2	6904.5	5417.7	3517.7	1558.9	634.0
77.5°	3466.6	3579.7	4277.3	5513.7	6418.4	6390.4	5303.9	3634.4	1540.7	511.3	322.1
80°	2015.5	2101.8	2655.2	3501.5	4327.9	4378.6	3488.1	1798.3	606.1	287.2	218.4
82.5°	895.3	954.9	1282.6	1787.4	2611.8	2677.1	1826.7	942.3	374.3	174.6	131.3
85°	587.4	631.6	778.6	851.2	1243.7	1288.3	894.1	733.7	247.1	96.0	96.4
87.5°	422.5	465.1	578.5	505.2	570.8	540.4	486.6	679.0	99.3	54.7	32.4
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°	2026.4	2026.4	2026.4	2026.4	2026.4	2026.4	2026.4	2026.4	2026.4	2026.4	2026.4
2.5°	2007.4	2000.9	1986.3	1958.8	1943.4	1930.4	1908.9	1896.4	1890.7	1890.3	1892.7
5°	1957.6	1942.6	1904.9	1858.7	1821.8	1788.2	1746.5	1721.4	1703.5	1693.0	1695.9
7.5°	1899.6	1876.1	1817.0	1743.2	1684.1	1618.9	1554.5	1516.0	1486.0	1463.7	1467.8
10°	1859.9	1827.5	1741.2	1635.1	1536.6	1441.8	1353.1	1300.0	1257.9	1225.5	1227.9
12.5°	1846.6	1802.8	1683.3	1541.5	1403.4	1273.7	1157.8	1076.4	1033.1	996.2	999.0
15°	1848.6	1789.8	1634.7	1457.2	1283.4	1120.2	979.6	884.4	825.6	800.1	800.5
17.5°	1850.2	1774.8	1583.6	1366.9	1164.7	976.8	824.0	727.6	672.1	648.6	649.0
20°	1844.9	1750.5	1520.4	1263.2	1040.8	845.1	697.2	615.4	573.3	555.0	555.0
22.5°	1838.0	1721.8	1449.1	1159.1	918.4	730.8	606.5	544.1	519.8	507.6	507.2
25°	1841.3	1700.3	1376.2	1052.1	805.8	639.7	546.1	504.8	488.6	480.9	480.5
27.5°	1858.7	1690.2	1309.0	945.6	707.3	571.2	505.6	476.4	465.9	461.0	461.0
30°	1890.3	1690.2	1238.9	854.8	625.5	520.6	474.4	454.5	447.3	444.0	444.0
32.5°	1945.4	1699.5	1171.2	764.9	560.3	480.9	448.5	435.1	429.4	427.8	427.8
35°	2040.2	1731.1	1105.2	679.8	507.6	448.5	423.8	416.1	412.0	411.6	412.8
37.5°	2173.5	1795.5	1043.2	617.0	470.3	422.1	403.1	397.0	394.6	396.6	398.2
40°	2341.2	1883.0	986.9	560.3	442.0	401.1	384.1	380.0	378.8	381.6	384.1
42.5°	2543.8	2001.3	940.7	519.4	420.1	383.2	367.9	363.0	361.8	365.0	368.3
45°	2762.9	2128.5	908.3	489.0	403.1	369.9	353.7	348.4	346.0	347.6	351.2
47.5°	2962.3	2248.8	895.3	467.5	386.9	358.5	341.1	334.6	330.6	329.8	332.6
50°	3130.4	2338.4	901.4	454.5	373.9	346.0	329.0	321.7	315.6	311.9	314.0
52.5°	3252.7	2394.7	907.1	448.9	363.8	332.2	315.6	308.7	300.6	294.5	294.5
55°	3341.5	2407.7	894.5	444.4	356.1	317.2	300.6	294.1	286.0	279.1	278.3
57.5°	3376.3	2371.2	847.9	437.9	350.8	303.0	284.8	279.9	273.1	265.0	264.5
60°	3329.3	2258.6	758.0	424.2	344.0	291.3	269.0	265.8	262.5	254.8	254.4
62.5°	3140.5	2011.4	641.7	396.2	330.2	278.7	254.4	256.0	256.4	251.2	250.4
65°	2798.2	1671.9	528.3	359.8	309.5	263.7	239.4	247.1	251.6	250.8	249.6
67.5°	2300.7	1301.3	447.7	321.3	282.4	243.1	223.2	232.1	235.8	238.6	237.8
70°	1707.6	917.6	370.3	280.8	249.6	218.8	202.2	206.6	204.2	207.4	208.6
72.5°	952.0	550.6	301.8	240.2	215.5	190.4	178.7	177.8	172.6	172.6	172.6
74°	571.2	403.9	265.4	215.1	194.9	171.8	161.6	158.0	153.1	153.5	153.1
75°	459.4	347.2	243.5	198.5	180.3	160.8	150.7	145.8	142.2	142.2	141.8
77.5°	290.1	263.7	196.1	158.0	144.2	132.5	125.6	119.1	119.1	118.7	118.3
80°	219.2	209.9	152.7	119.5	110.6	101.7	97.2	94.4	94.4	95.6	95.2
82.5°	150.3	158.0	107.4	83.5	79.0	72.5	71.7	72.1	70.9	69.3	68.9
85°	109.8	118.7	72.5	52.7	48.2	44.2	47.4	49.0	47.0	43.3	41.7
87.5°	42.1	77.8	38.9	21.9	20.3	17.4	20.3	21.1	22.7	17.8	18.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)