

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: P323766

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P323766
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-25)
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-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9822 lumens
Efficiency: N/A
Efficacy: 86.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

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

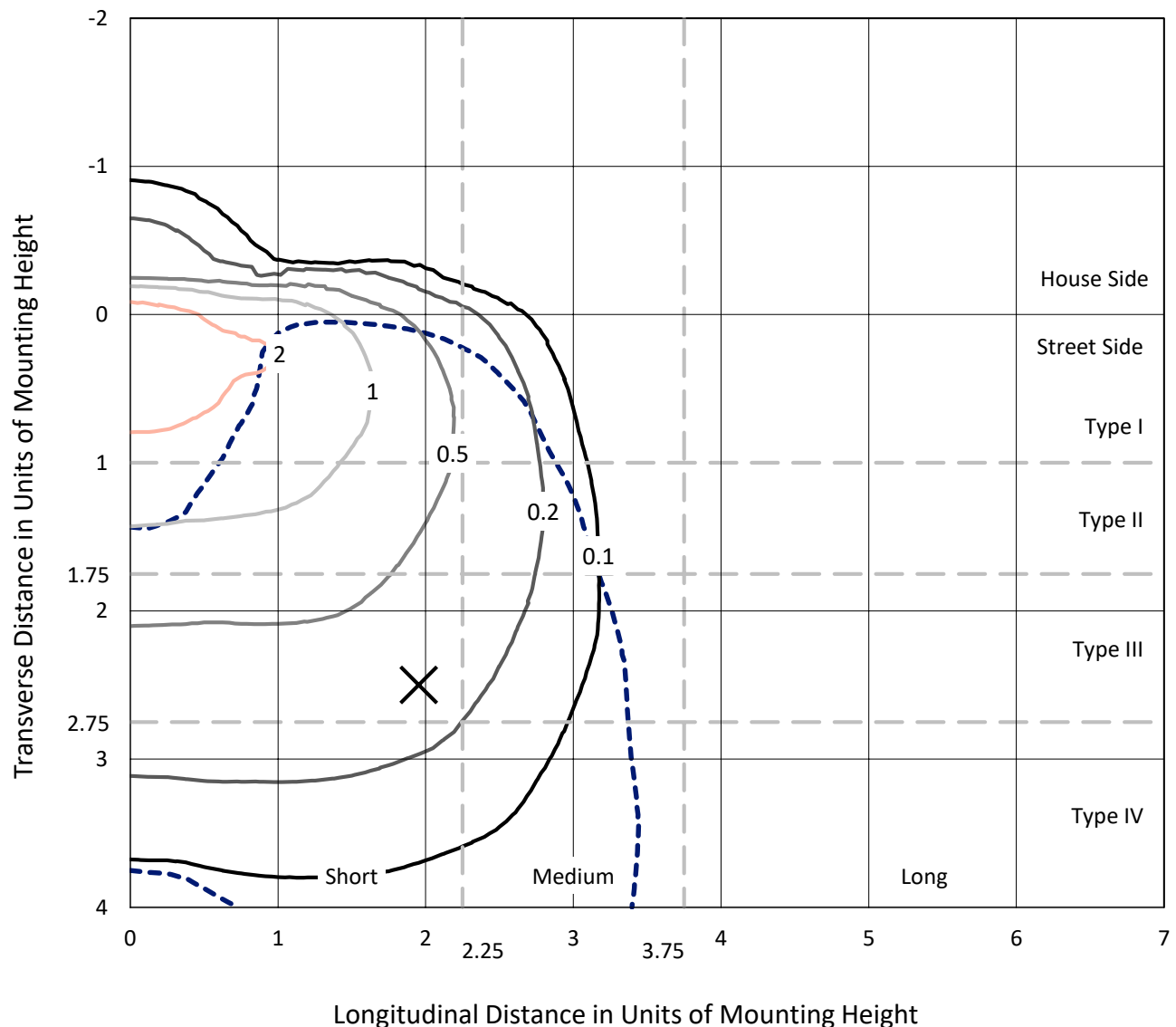


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Iso-Footcandle Lines of Horizontal Illumination

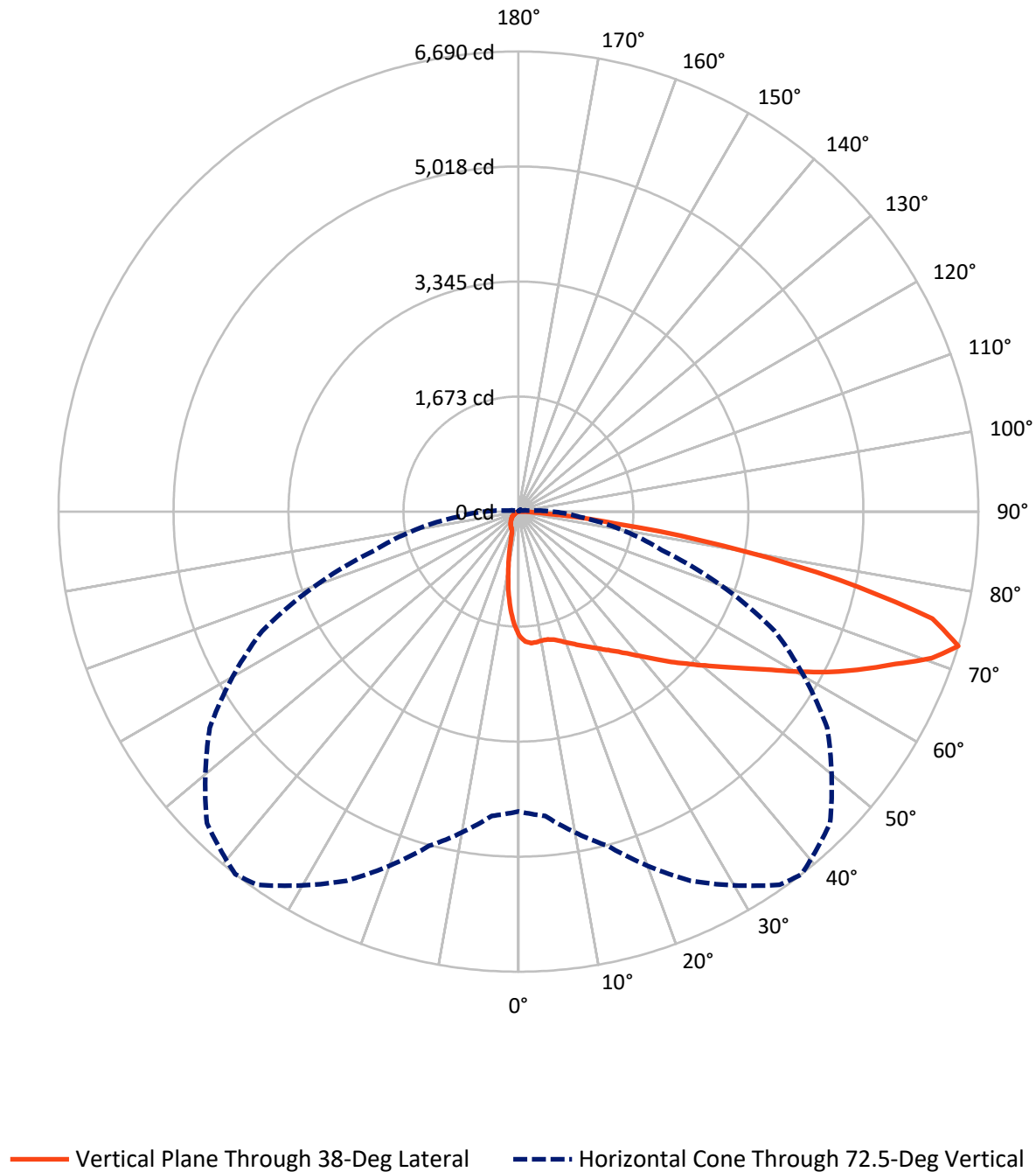
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.1 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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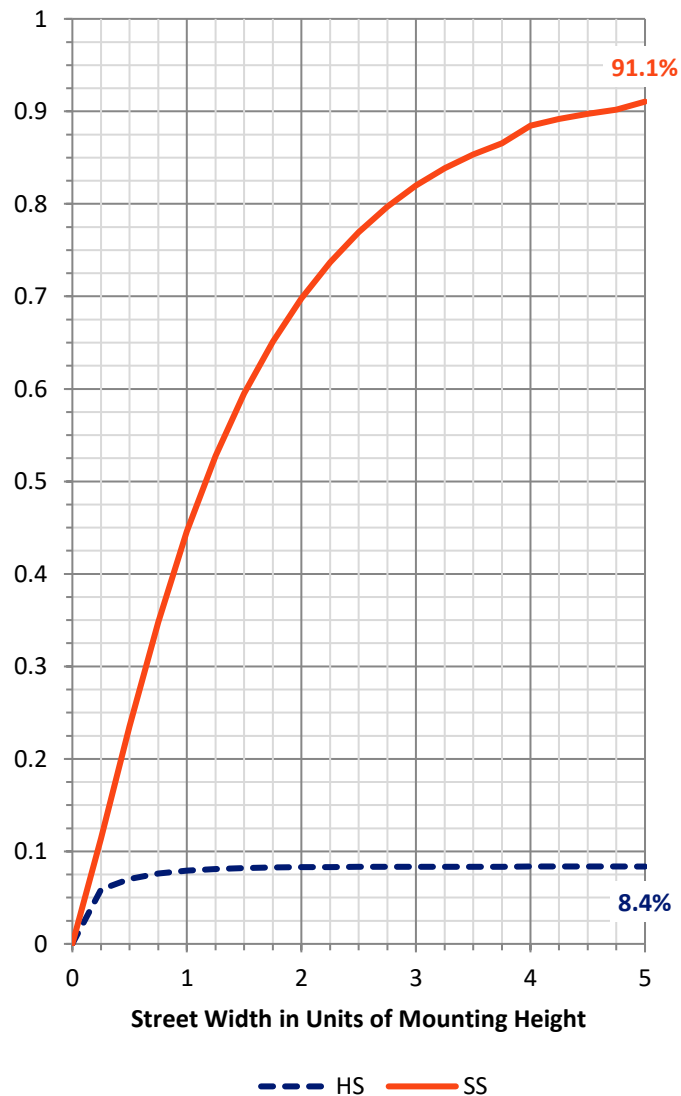
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	826.6	0.0	826.6
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	8995.4	0.0	8995.4
	% Fixture	91.6	0.0	91.6
Total	Lumens	9822.0	0.0	9822.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	153.9	1.6
10°-20°	376.4	3.8
20°-30°	598.6	6.1
30°-40°	900.0	9.2
40°-50°	1373.0	14.0
50°-60°	1940.5	19.8
60°-70°	2434.0	24.8
70°-80°	1820.0	18.5
80°-90°	225.7	2.3
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°	9822.0	100.0
0°-180°	9822.0	100.0

Coefficient of Utilization



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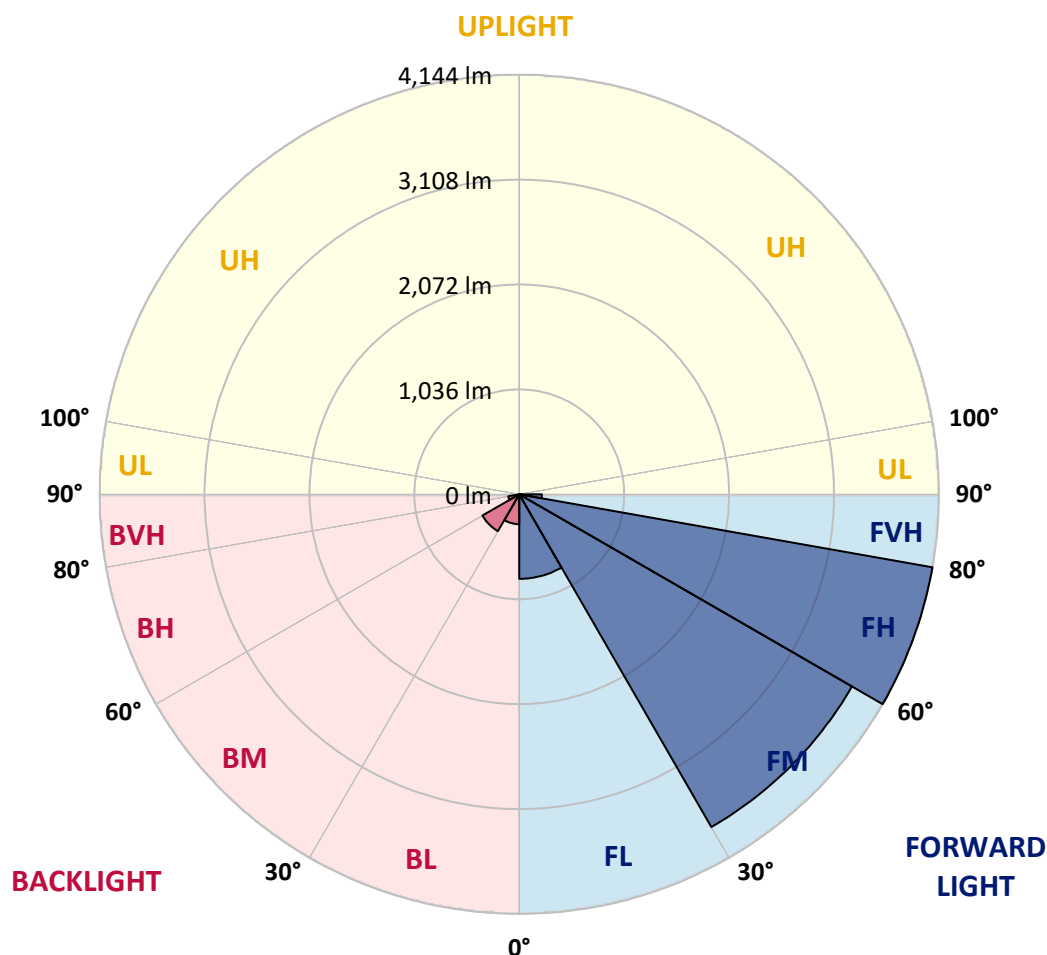
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	834.6	8.5			
FM	(30°-60°)	3793.7	38.6			
FH	(60°-80°)	4143.6	42.2			G2/5000
FVH	(80°-90°)	223.6	2.3			G2/225
BL	(0°-30°)	294.3	3.0	B1/500		
BM	(30°-60°)	419.7	4.3	B1/1000		
BH	(60°-80°)	110.4	1.1	B1/500		G1/500
BVH	(80°-90°)	2.1	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	1806.2	1806.2	1806.2	1806.2	1806.2	1806.2	1806.2	1806.2	1806.2	1806.2	1806.2
2.5°	1917.2	1917.6	1913.1	1905.8	1896.4	1891.5	1883.3	1870.3	1856.4	1831.5	1804.6
5°	1956.3	1956.3	1950.6	1940.8	1925.8	1921.3	1905.8	1885.0	1856.4	1816.0	1770.7
7.5°	1952.3	1953.1	1945.3	1935.1	1920.0	1916.0	1897.2	1873.9	1838.5	1789.5	1731.6
10°	1931.1	1933.1	1927.0	1922.1	1908.2	1903.7	1886.2	1862.9	1827.4	1775.2	1708.7
12.5°	1909.4	1911.5	1913.5	1918.0	1909.4	1907.8	1893.9	1874.4	1840.5	1786.2	1711.2
15°	1895.6	1899.6	1914.3	1931.9	1933.9	1932.3	1923.3	1904.9	1870.7	1814.4	1728.7
17.5°	1895.6	1902.1	1932.7	1966.1	1978.0	1979.2	1971.4	1945.7	1904.9	1844.6	1745.0
20°	1911.5	1920.4	1968.2	2015.5	2035.1	2035.1	2020.0	1984.1	1936.4	1871.9	1756.1
22.5°	1952.3	1964.1	2024.1	2078.7	2099.5	2095.0	2074.6	2022.4	1969.0	1902.9	1769.9
25°	2032.6	2041.6	2104.0	2159.1	2171.7	2161.5	2135.8	2068.9	2010.6	1944.9	1795.2
27.5°	2136.2	2137.5	2201.9	2248.4	2240.7	2233.7	2201.5	2127.3	2070.6	2004.9	1838.9
30°	2250.0	2250.0	2306.7	2342.2	2318.6	2312.9	2280.6	2197.8	2147.2	2086.5	1900.9
32.5°	2360.2	2365.1	2411.2	2433.6	2407.1	2401.4	2370.0	2287.2	2249.2	2210.9	1997.5
35°	2466.6	2470.3	2514.0	2526.2	2500.9	2502.5	2480.1	2409.9	2395.7	2390.8	2143.2
37.5°	2569.8	2570.7	2615.1	2622.9	2610.2	2624.1	2626.1	2564.1	2590.6	2630.2	2348.3
40°	2664.1	2664.9	2708.9	2728.9	2750.5	2768.5	2784.4	2751.4	2839.1	2930.8	2592.7
42.5°	2739.5	2748.1	2804.0	2841.9	2899.0	2933.3	2976.5	2974.9	3134.8	3272.7	2888.0
45°	2806.0	2820.7	2898.6	2965.1	3063.0	3117.7	3185.4	3238.4	3467.7	3653.3	3187.0
47.5°	2893.7	2907.6	2996.5	3105.4	3236.0	3307.8	3419.9	3534.6	3833.6	4026.9	3479.1
50°	3017.3	3011.2	3098.9	3255.1	3422.8	3517.0	3676.9	3848.6	4196.6	4352.4	3650.8
52.5°	3149.1	3146.6	3211.5	3417.9	3643.1	3753.2	3964.5	4173.3	4543.7	4576.8	3729.5
55°	3312.2	3294.7	3349.4	3603.5	3904.5	4022.8	4271.7	4494.8	4820.3	4703.2	3769.1
57.5°	3483.2	3454.2	3506.4	3810.3	4199.5	4339.4	4611.9	4808.1	5004.3	4789.7	3768.7
60°	3659.8	3625.5	3687.5	4068.9	4565.8	4727.7	4980.6	5019.8	5176.0	4833.3	3741.0
62.5°	3807.4	3787.1	3879.2	4345.5	4974.9	5134.0	5259.2	5212.3	5320.8	4867.2	3676.1
65°	3963.7	3964.9	4113.8	4668.1	5409.7	5517.0	5527.6	5461.9	5442.0	4860.3	3456.6
67.5°	4175.0	4194.6	4443.0	5106.2	5832.7	5915.5	5914.7	5732.4	5530.5	4584.5	2970.0
70°	4398.5	4444.6	4822.3	5607.6	6294.5	6378.5	6335.3	5904.5	5207.4	3707.1	2102.0
72.5°	4361.0	4440.9	5033.2	5923.7	6626.1	6690.2	6409.1	5481.5	4115.8	2154.6	895.0
75°	3364.5	3457.1	4615.1	5610.4	6278.2	6220.7	5506.8	4265.5	2249.2	601.3	201.5
77.5°	1777.3	1826.6	3048.7	4274.1	4895.3	4775.0	3879.2	2366.3	685.7	148.9	90.6
80°	930.9	942.3	1328.6	2425.0	3021.4	3022.2	2299.0	1039.4	282.7	76.3	60.8
82.5°	498.5	508.3	702.0	1120.5	1583.1	1435.0	880.3	571.9	164.4	43.2	58.3
85°	119.9	122.0	398.1	511.9	622.5	444.6	261.5	480.1	44.5	25.3	47.3
87.5°	46.1	46.9	147.7	221.5	158.7	102.8	122.4	179.1	5.7	9.8	7.3
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°	1806.2	1806.2	1806.2	1806.2	1806.2	1806.2	1806.2	1806.2	1806.2	1806.2	1806.2
2.5°	1788.3	1777.7	1751.6	1718.5	1689.2	1668.0	1636.1	1615.3	1601.5	1601.1	1595.8
5°	1743.0	1721.4	1665.1	1598.2	1537.4	1482.8	1418.3	1367.3	1329.4	1323.3	1310.2
7.5°	1694.5	1659.0	1572.5	1468.1	1366.1	1262.5	1142.2	1067.5	1003.5	972.9	969.6
10°	1664.7	1614.9	1492.1	1341.2	1181.3	1012.8	855.4	746.5	667.8	645.3	628.6
12.5°	1658.6	1592.9	1430.1	1222.1	993.7	771.0	596.8	480.9	418.1	398.1	392.8
15°	1664.7	1582.7	1377.9	1104.2	803.6	547.0	400.6	333.3	309.6	303.9	303.5
17.5°	1668.4	1570.5	1318.8	973.3	619.2	390.8	306.7	287.2	283.5	283.1	283.9
20°	1668.0	1551.7	1248.2	827.2	460.5	307.2	277.4	273.3	272.5	272.9	272.5
22.5°	1665.1	1529.7	1170.7	676.7	347.9	274.5	264.7	262.3	261.9	261.9	261.9
25°	1670.4	1512.1	1085.5	532.7	286.8	259.4	253.3	251.3	250.9	250.9	250.0
27.5°	1689.6	1502.3	992.0	410.0	259.0	246.0	241.1	240.7	239.4	239.0	239.9
30°	1720.6	1502.3	889.7	319.0	242.3	232.1	228.4	227.6	227.2	226.8	227.2
32.5°	1775.2	1513.8	777.9	265.1	226.4	216.6	214.2	215.4	214.2	214.2	214.2
35°	1873.9	1548.0	660.8	231.3	209.7	201.5	199.1	200.7	199.9	199.9	199.5
37.5°	2017.9	1611.7	542.9	210.9	195.0	186.4	183.2	185.6	184.8	184.8	184.4
40°	2193.3	1704.3	430.8	195.4	180.7	171.7	168.9	170.1	168.1	168.1	168.9
42.5°	2409.9	1821.7	332.9	180.3	166.4	157.9	156.2	155.0	151.3	149.3	149.7
45°	2650.6	1944.1	259.4	165.6	153.0	146.0	143.6	140.3	134.2	130.1	130.5
47.5°	2865.6	2038.3	210.9	151.3	140.7	135.4	131.8	125.6	116.7	111.8	112.2
50°	2978.6	2052.6	179.5	137.1	129.3	124.0	118.7	109.3	98.7	93.4	93.0
52.5°	3007.5	1985.7	156.2	124.0	117.9	111.8	104.8	92.2	80.4	74.6	73.8
55°	3018.1	1883.7	135.4	111.8	105.6	98.7	89.7	75.5	64.5	58.7	58.3
57.5°	2983.1	1731.6	119.1	100.8	93.4	84.8	73.8	60.4	49.8	45.3	45.3
60°	2905.1	1525.6	106.5	88.9	80.8	71.0	59.6	46.9	37.1	33.4	33.4
62.5°	2749.7	1258.8	94.6	76.7	68.9	58.7	48.1	35.5	26.1	24.1	24.5
65°	2456.4	954.9	82.8	65.7	58.7	48.5	37.5	25.3	17.5	17.5	18.4
67.5°	2003.3	663.3	70.6	55.9	50.6	39.6	28.6	17.5	12.2	13.9	15.5
70°	1326.1	372.0	60.4	46.1	43.2	31.4	21.2	11.8	9.8	13.1	15.9
72.5°	500.5	144.8	50.6	37.1	37.5	24.1	15.1	9.0	9.0	14.3	18.8
75°	139.5	71.0	36.3	27.3	29.4	17.5	11.0	7.8	8.6	16.3	22.0
77.5°	82.0	52.2	23.7	15.9	20.0	12.2	7.3	6.1	7.3	13.9	21.2
80°	66.1	27.7	13.9	8.2	11.0	6.9	4.9	3.7	2.0	5.3	11.0
82.5°	66.1	16.7	6.5	5.7	5.7	3.7	2.4	1.6	0.4	0.0	2.9
85°	44.5	6.9	4.1	3.7	2.9	1.2	0.8	0.4	0.0	0.0	0.0
87.5°	7.3	2.9	1.6	0.8	0.4	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

(END OF REPORT)