

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: P319276

Luminaire Tested: **GAN-SA2B-727-U-SL2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319276
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-20)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA2B-727-U-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9578 lumens
Efficiency: N/A
Efficacy: 112.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G3

Input Watts (W): 85
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

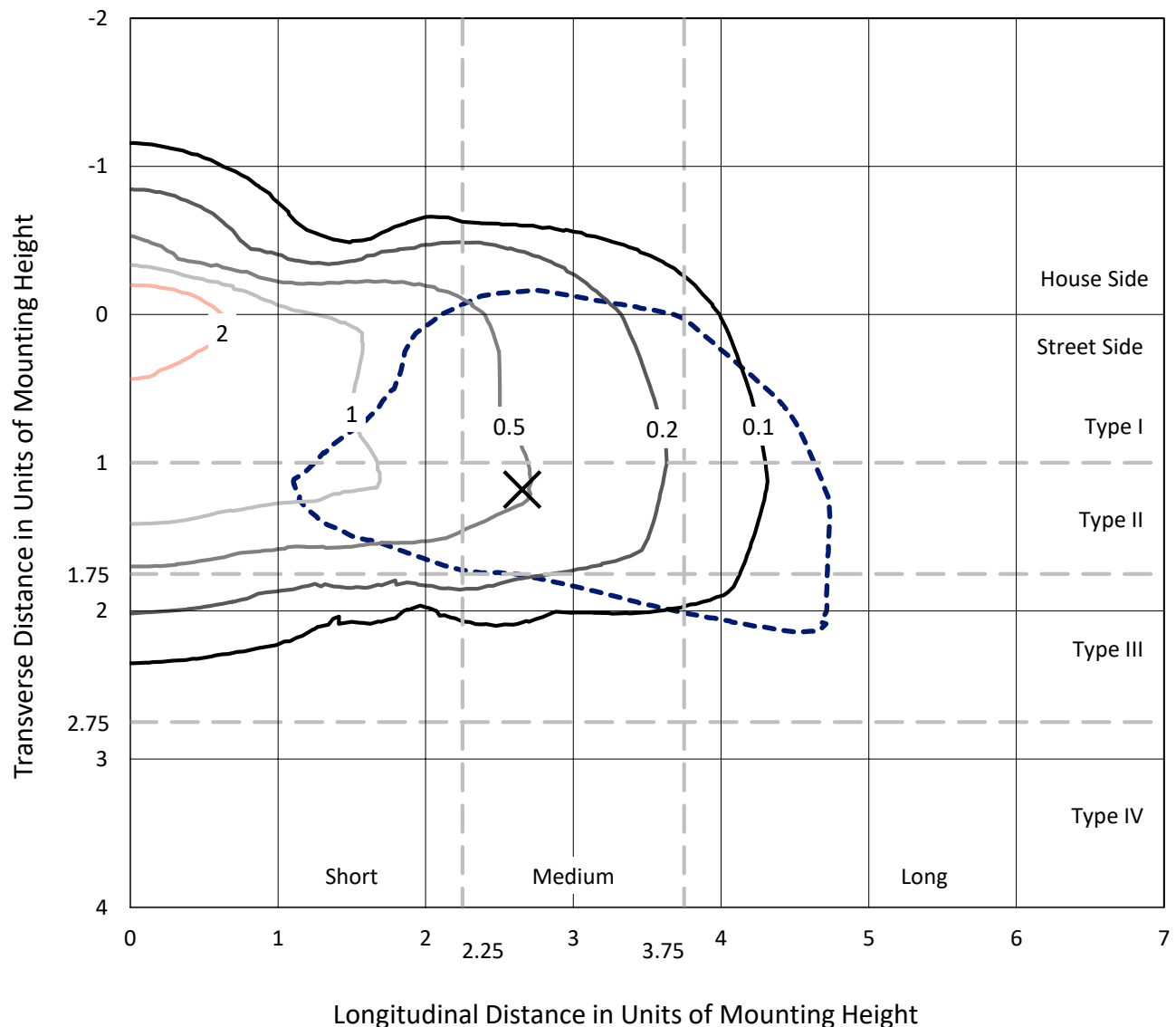


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Iso-Footcandle Lines of Horizontal Illumination

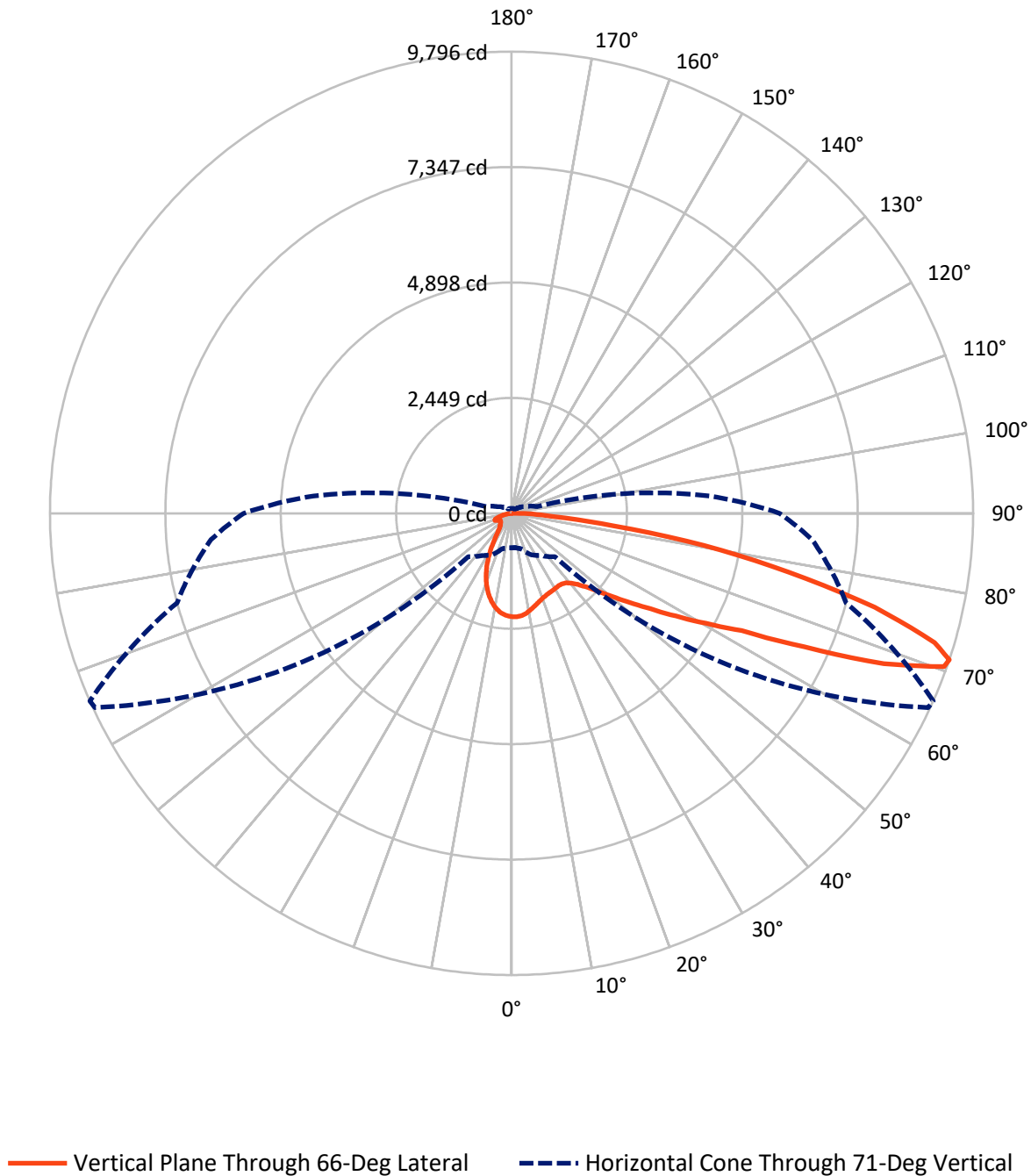
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.5 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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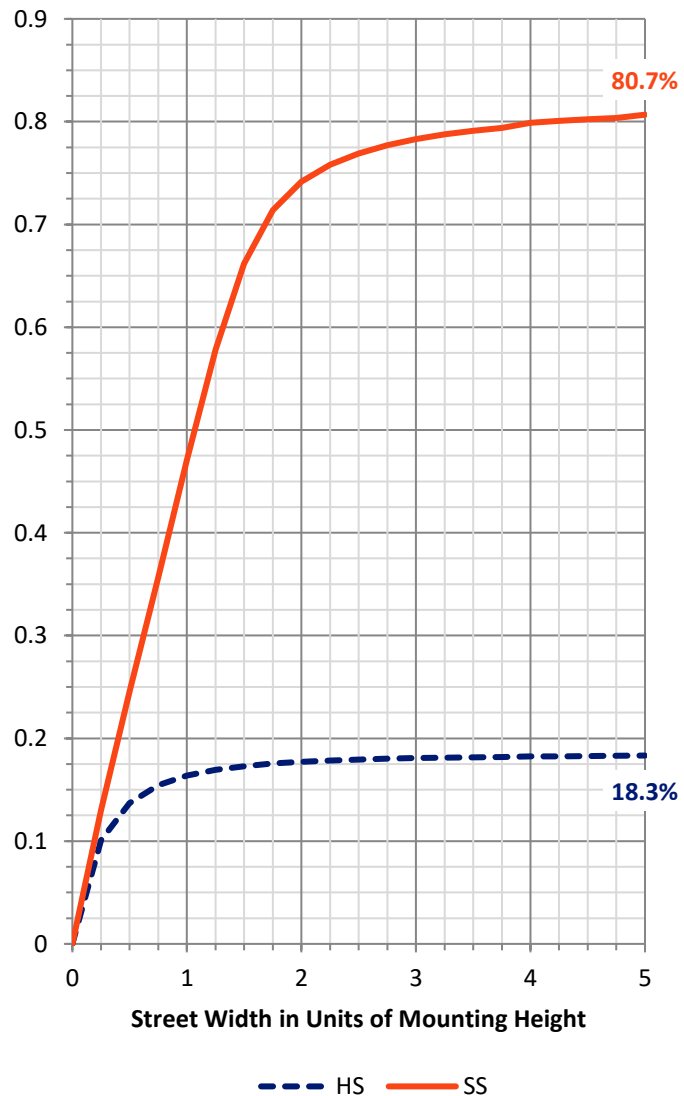
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1775.1	0.0	1775.1
	% Fixture	18.5	0.0	18.5
Street Side	Lumens	7802.9	0.0	7802.9
	% Fixture	81.5	0.0	81.5
Total	Lumens	9578.0	0.0	9578.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	193.1	2.0
10°-20°	463.2	4.8
20°-30°	622.2	6.5
30°-40°	818.5	8.5
40°-50°	1190.7	12.4
50°-60°	1860.1	19.4
60°-70°	2330.0	24.3
70°-80°	1777.3	18.6
80°-90°	322.7	3.4
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°	9578.0	100.0
0°-180°	9578.0	100.0

Coefficient of Utilization



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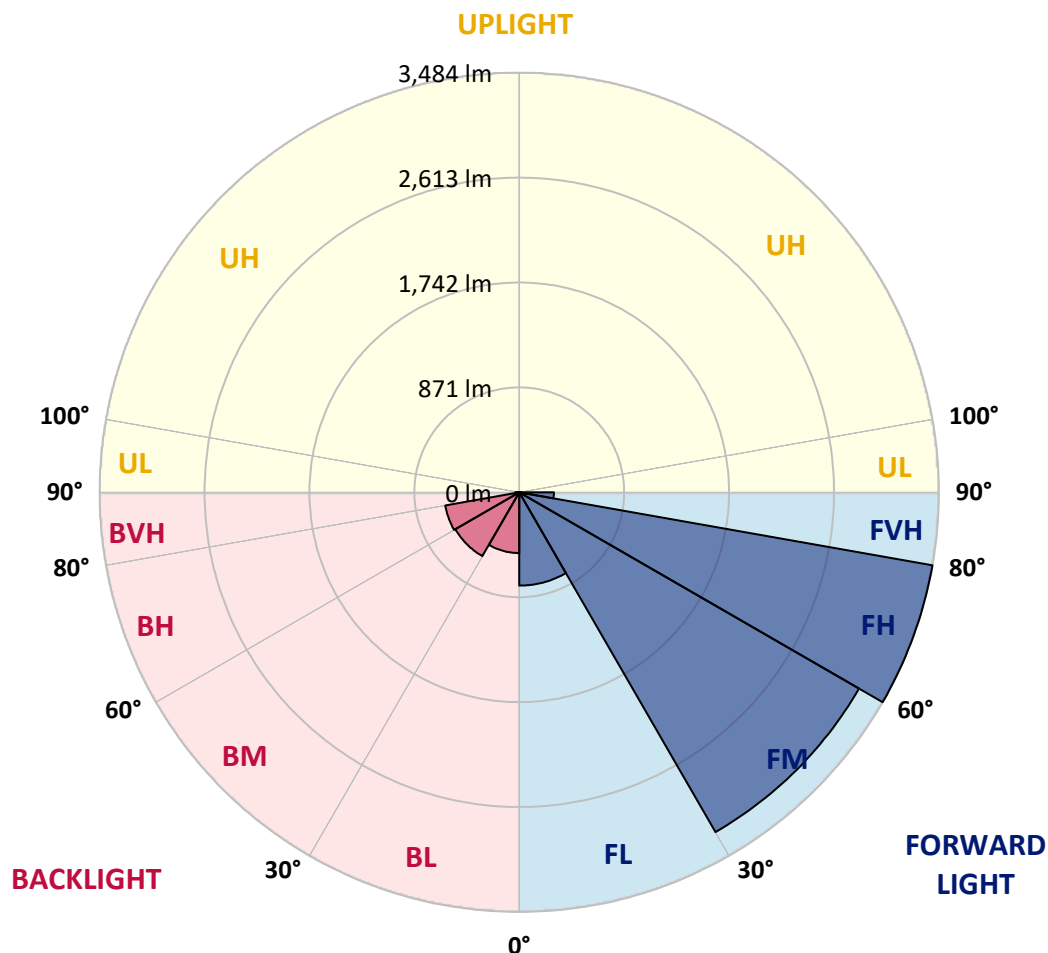
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	774.5	8.1			
FM	(30°-60°)	3257.0	34.0			
FH	(60°-80°)	3483.6	36.4			G2/5000
FVH	(80°-90°)	287.8	3.0			G3/500
BL	(0°-30°)	504.1	5.3	B2/1000		
BM	(30°-60°)	612.3	6.4	B1/1000		
BH	(60°-80°)	623.7	6.5	B2/1000		G2/1000
BVH	(80°-90°)	34.9	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	2194.1	2194.1	2194.1	2194.1	2194.1	2194.1	2194.1	2194.1	2194.1	2194.1	2194.1
2.5°	2153.5	2150.2	2160.1	2170.3	2174.3	2180.9	2190.8	2196.4	2196.1	2197.1	2193.8
5°	2010.6	2006.3	2026.1	2042.3	2073.4	2108.5	2151.1	2181.6	2182.2	2199.4	2204.1
7.5°	1875.3	1872.4	1895.2	1921.3	1957.4	2010.9	2080.0	2145.5	2149.5	2196.1	2212.3
10°	1766.9	1766.2	1788.4	1816.8	1858.8	1918.7	1998.0	2093.9	2099.9	2180.2	2213.6
12.5°	1682.2	1683.5	1702.7	1735.1	1779.4	1841.9	1927.9	2036.1	2045.7	2155.1	2206.0
15°	1619.7	1625.0	1640.6	1673.3	1716.9	1780.4	1868.7	1982.5	1997.0	2127.0	2201.7
17.5°	1584.0	1590.0	1600.9	1628.0	1669.0	1730.2	1813.8	1938.5	1951.7	2105.5	2202.1
20°	1573.4	1578.4	1584.7	1601.2	1635.9	1691.5	1770.5	1898.8	1913.0	2088.3	2205.4
22.5°	1594.3	1597.9	1598.6	1597.2	1618.4	1663.7	1739.1	1869.7	1884.9	2077.1	2207.7
25°	1638.9	1643.9	1640.2	1628.0	1621.0	1648.8	1722.9	1850.5	1865.8	2068.8	2203.1
27.5°	1706.0	1706.7	1703.7	1687.8	1655.1	1650.5	1717.9	1839.3	1853.9	2059.2	2193.5
30°	1797.3	1801.6	1796.3	1774.8	1721.2	1676.9	1723.9	1828.4	1841.6	2047.0	2177.9
32.5°	1904.1	1914.7	1914.4	1891.9	1815.2	1736.1	1748.4	1821.8	1832.0	2034.1	2159.1
35°	2014.9	2029.5	2056.6	2047.0	1952.1	1829.7	1795.3	1832.4	1839.3	2032.4	2145.9
37.5°	2130.0	2144.5	2200.4	2226.2	2115.1	1963.6	1869.4	1869.7	1873.0	2052.6	2144.9
40°	2250.4	2265.9	2349.9	2417.0	2326.4	2133.3	1988.8	1947.8	1944.1	2102.2	2164.4
42.5°	2419.0	2432.9	2533.8	2619.4	2560.9	2350.6	2153.8	2068.1	2060.5	2199.4	2226.9
45°	2632.3	2644.2	2751.3	2842.9	2812.9	2598.6	2361.1	2233.8	2232.5	2361.5	2353.5
47.5°	2885.9	2895.2	2991.4	3080.1	3091.0	2884.0	2621.7	2489.4	2467.9	2583.7	2549.6
50°	3150.2	3160.4	3225.9	3321.1	3402.1	3265.9	2957.0	2802.6	2773.8	2877.0	2827.4
52.5°	3325.1	3338.7	3395.5	3516.2	3752.0	3684.6	3353.5	3182.2	3138.6	3232.5	3194.5
55°	3247.1	3277.5	3364.4	3557.9	4031.8	4324.1	3842.6	3625.0	3575.8	3653.8	3631.3
57.5°	2892.2	2933.9	3052.6	3351.2	4071.1	4887.6	4582.1	4146.5	4111.8	4089.3	4099.6
60°	2243.7	2283.8	2430.9	2820.1	3797.0	5299.0	5694.8	4789.4	4739.1	4526.5	4535.8
62.5°	1588.0	1567.8	1668.7	1953.4	3085.3	5347.3	6961.0	5649.2	5483.8	4988.1	4947.5
65°	1211.0	1206.4	1251.7	1342.3	1868.7	4769.6	7715.4	7094.3	6836.0	5531.1	5435.2
67.5°	995.0	986.8	1031.4	1163.4	1203.4	3077.1	7731.9	8770.9	8517.3	6207.1	5999.4
70°	818.1	808.9	850.5	1020.8	1112.1	1560.5	6507.3	9752.7	9739.2	7062.9	6425.3
71°	733.5	726.9	776.8	965.9	1092.6	1300.6	5618.4	9755.4	9796.1	7352.6	6400.2
72.5°	597.2	599.5	652.5	859.8	1078.1	1148.5	4129.3	9300.7	9386.7	7628.7	6171.7
75°	396.8	398.8	468.3	661.4	1045.3	1123.7	2269.5	7804.3	7962.4	7463.4	5631.7
77.5°	266.5	265.9	313.2	453.7	910.7	1123.7	1330.7	5837.0	6010.6	5938.5	4341.6
80°	183.5	182.2	215.6	313.2	689.5	1137.2	1028.8	4090.6	4143.2	3207.0	1764.6
82.5°	112.4	113.4	140.9	221.2	469.3	1023.5	971.2	2230.5	2173.3	899.5	440.8
85°	64.5	64.2	89.9	149.8	301.3	863.8	947.1	960.0	880.6	270.8	159.4
87.5°	23.1	24.8	48.3	83.0	172.6	601.5	803.6	499.3	450.1	122.4	72.1
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°	2194.1	2194.1	2194.1	2194.1	2194.1	2194.1	2194.1	2194.1	2194.1	2194.1	2194.1
2.5°	2191.5	2193.5	2191.2	2177.9	2166.7	2148.5	2138.2	2124.0	2119.7	2117.7	2123.0
5°	2199.8	2200.4	2180.9	2146.2	2107.2	2061.2	2028.1	1987.5	1968.3	1960.0	1965.3
7.5°	2207.4	2204.4	2161.7	2095.3	2023.2	1943.1	1872.0	1806.9	1768.9	1753.3	1754.6
10°	2208.4	2195.8	2127.3	2024.5	1912.7	1795.3	1686.2	1585.7	1522.2	1480.8	1493.4
12.5°	2198.1	2176.9	2076.7	1932.9	1777.8	1617.7	1470.3	1319.5	1228.8	1186.8	1188.2
15°	2190.2	2151.8	2014.6	1825.1	1616.7	1404.8	1203.4	1026.1	929.6	886.6	866.4
17.5°	2183.6	2124.7	1942.5	1703.7	1426.6	1157.7	915.7	757.6	704.7	692.1	686.8
20°	2174.3	2095.9	1862.1	1563.2	1210.0	881.3	668.7	590.6	590.9	605.5	607.5
22.5°	2161.4	2063.2	1776.5	1405.4	977.5	641.9	524.1	501.7	524.5	552.3	557.2
25°	2142.2	2024.5	1681.2	1231.2	745.4	493.4	447.8	446.8	474.5	503.6	507.9
27.5°	2115.1	1973.9	1575.4	1044.0	549.3	419.3	401.1	408.1	428.6	449.7	451.4
30°	2078.7	1915.0	1458.7	846.6	430.6	373.4	371.4	377.6	390.2	405.1	406.4
32.5°	2038.7	1855.2	1334.0	655.4	368.7	348.5	350.5	353.5	359.5	365.4	366.7
35°	2002.3	1794.0	1206.4	498.0	339.3	332.3	331.0	330.4	331.0	329.0	329.4
37.5°	1978.9	1743.4	1073.4	396.5	322.4	318.1	314.2	309.2	303.6	300.3	300.9
40°	1970.3	1705.7	938.8	342.6	308.5	305.6	298.0	287.4	280.8	278.8	278.8
42.5°	1993.4	1686.2	808.9	315.5	297.0	292.0	279.4	267.2	262.2	261.9	261.6
45°	2064.2	1694.1	685.2	300.6	286.4	276.8	260.3	250.0	246.7	247.4	247.0
47.5°	2191.2	1744.1	579.4	290.7	275.8	263.2	244.7	236.4	232.5	232.5	232.8
50°	2407.1	1860.8	495.0	282.4	266.9	250.7	233.5	223.2	217.9	217.6	217.6
52.5°	2721.6	2069.8	442.5	275.5	256.9	239.4	222.2	209.3	203.0	201.7	201.1
55°	3115.8	2369.4	427.9	270.8	243.7	227.2	208.7	195.8	188.8	185.8	185.5
57.5°	3556.6	2733.8	456.7	265.2	230.2	212.6	193.8	181.5	174.3	170.6	170.3
60°	4002.7	3131.6	574.1	257.3	218.9	196.8	178.6	167.3	160.1	156.1	155.4
62.5°	4449.4	3551.0	813.8	256.6	211.0	181.5	163.0	153.4	146.5	142.2	141.2
65°	4953.4	4010.0	1086.3	274.1	208.3	167.7	147.2	139.6	133.6	129.6	129.3
67.5°	5532.1	4528.2	1060.2	310.2	217.3	155.1	132.3	126.3	122.0	118.7	118.4
70°	5803.6	4447.1	659.1	335.7	229.8	142.9	118.1	113.8	110.5	108.1	107.1
71°	5689.9	4222.6	552.6	332.7	228.5	137.6	112.4	109.1	105.8	103.8	102.8
72.5°	5379.7	3850.9	461.0	309.5	213.6	128.0	105.2	101.9	98.9	96.6	95.9
75°	4827.4	3439.2	369.1	247.4	170.3	108.1	92.3	88.6	86.3	85.0	83.7
77.5°	3548.6	2454.4	285.4	195.4	125.3	88.3	78.7	76.1	73.7	71.8	70.8
80°	1359.5	950.7	192.1	145.8	91.9	69.8	63.5	62.2	59.9	58.5	58.5
82.5°	366.1	284.1	102.5	88.3	61.5	50.9	48.6	48.0	46.0	43.3	43.7
85°	148.1	125.3	57.5	48.6	37.7	30.1	32.7	33.1	30.8	27.4	27.8
87.5°	65.1	53.2	32.1	21.5	16.5	11.6	14.9	14.9	13.6	11.2	10.3
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)