

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: P319907

Luminaire Tested: **GAN-SA3A-727-U-SL4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319907
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-SA3A-727-U-SL4
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 2700K, 615mA 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: 11306 lumens
Efficiency: N/A
Efficacy: 117.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

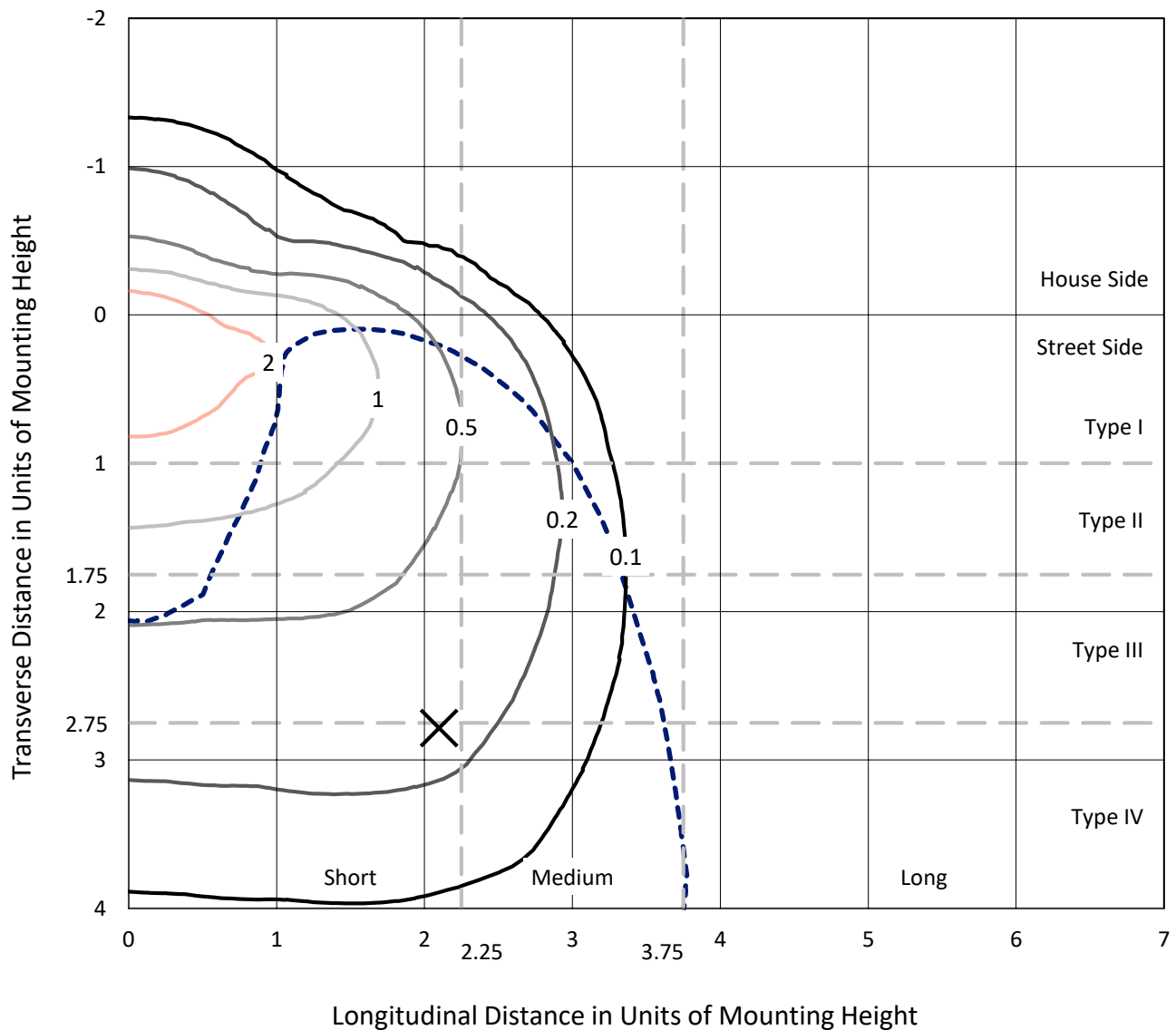
Input Watts (W): 96
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

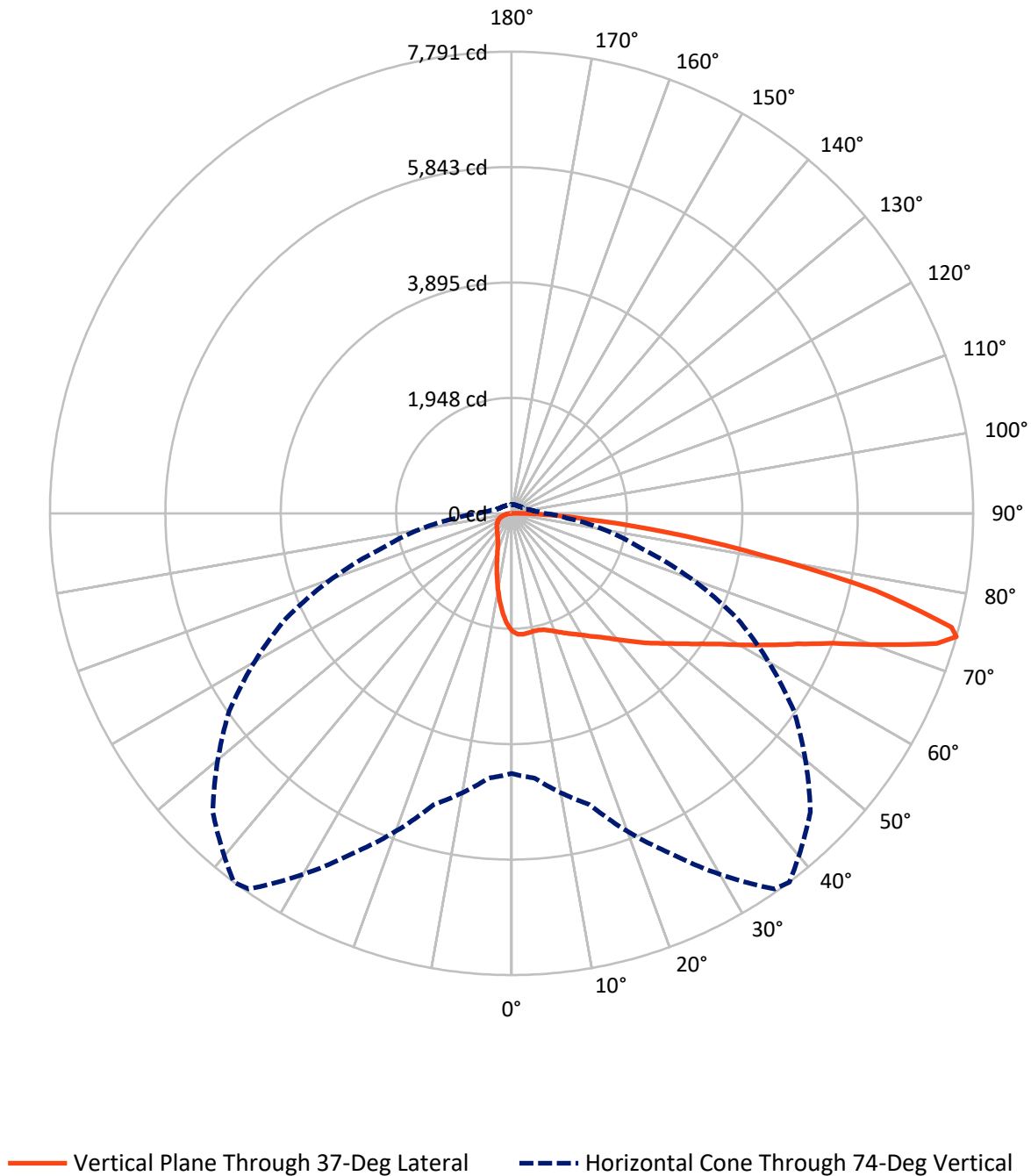
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.2 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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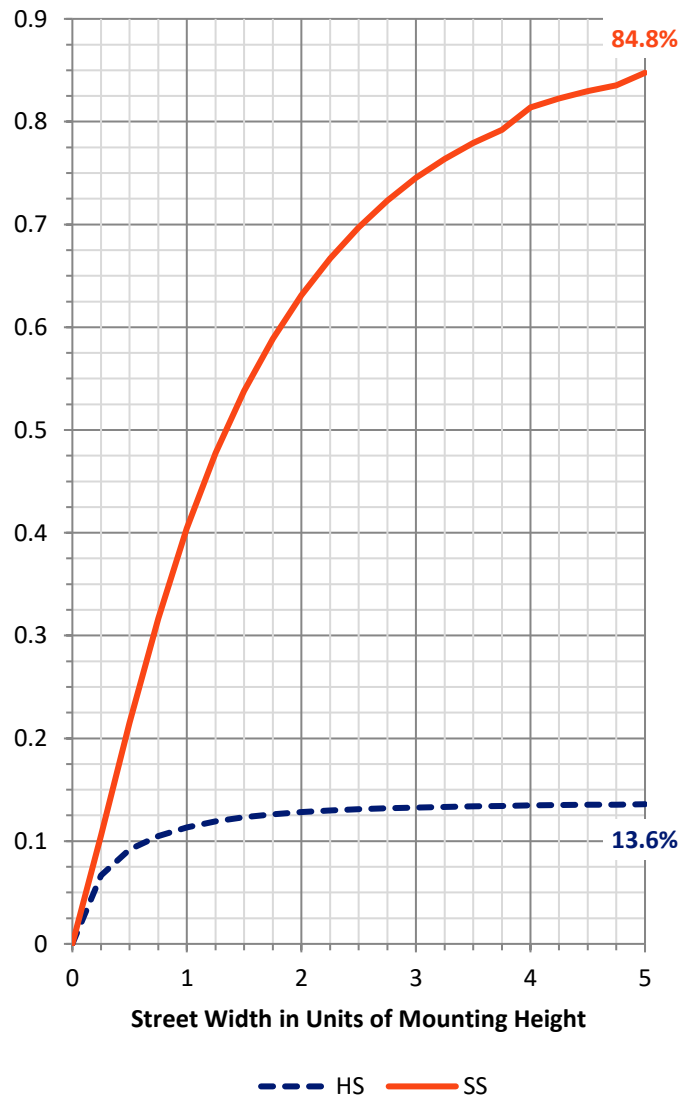
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1555.6	0.0	1555.6
	% Fixture	13.8	0.0	13.8
Street Side	Lumens	9750.4	0.0	9750.4
	% Fixture	86.2	0.0	86.2
Total	Lumens	11306.0	0.0	11306.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	175.4	1.6
10°-20°	449.7	4.0
20°-30°	692.8	6.1
30°-40°	1007.5	8.9
40°-50°	1482.8	13.1
50°-60°	2082.4	18.4
60°-70°	2635.7	23.3
70°-80°	2320.8	20.5
80°-90°	458.9	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°	11306.0	100.0
0°-180°	11306.0	100.0

Coefficient of Utilization



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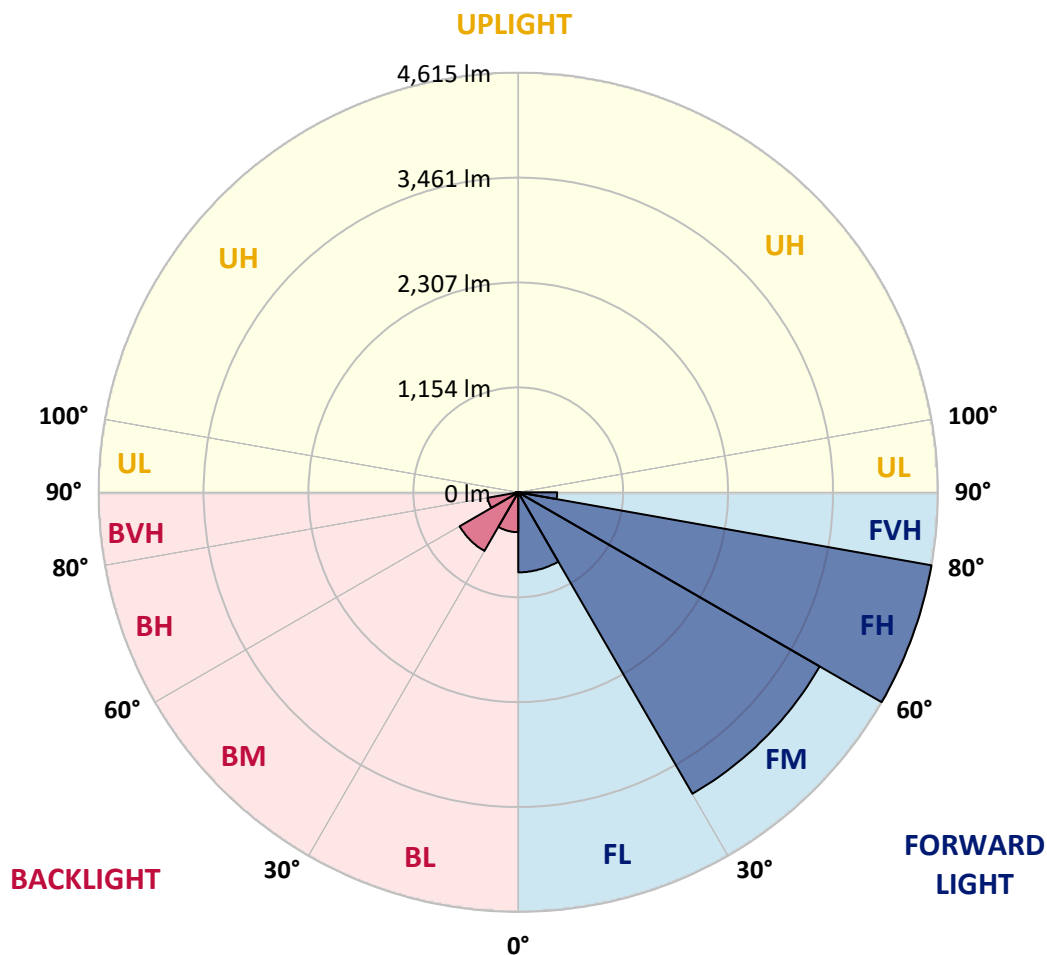
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	879.7	7.8			
FM	(30°-60°)	3828.3	33.9			
FH	(60°-80°)	4614.5	40.8			G2/5000
FVH	(80°-90°)	427.8	3.8			G3/500
BL	(0°-30°)	438.2	3.9	B1/500		
BM	(30°-60°)	744.4	6.6	B1/1000		
BH	(60°-80°)	341.9	3.0	B1/500		G1/500
BVH	(80°-90°)	31.1	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°	1992.1	1992.1	1992.1	1992.1	1992.1	1992.1	1992.1	1992.1	1992.1	1992.1	1992.1
2.5°	2060.2	2060.6	2060.2	2057.0	2049.4	2043.1	2037.9	2030.3	2013.6	2000.8	1981.7
5°	2079.7	2077.3	2075.7	2069.7	2057.8	2050.6	2040.7	2026.3	1998.8	1973.4	1942.3
7.5°	2070.5	2067.7	2064.2	2057.0	2043.4	2037.5	2023.5	2004.8	1971.8	1938.3	1893.7
10°	2042.3	2041.5	2039.9	2038.3	2026.7	2021.9	2009.2	1989.3	1956.6	1916.0	1863.8
12.5°	2010.8	2012.8	2019.2	2027.5	2022.3	2020.0	2012.0	1998.4	1965.0	1921.2	1858.3
15°	1990.9	1996.5	2013.6	2035.5	2039.9	2039.1	2037.1	2028.3	1992.9	1944.3	1871.0
17.5°	1984.1	1993.3	2025.9	2062.2	2074.9	2077.7	2078.5	2063.4	2023.9	1972.6	1884.1
20°	1996.5	2008.0	2055.8	2105.6	2125.9	2127.5	2123.9	2097.6	2053.4	1996.9	1891.3
22.5°	2033.9	2044.2	2104.0	2160.1	2183.2	2185.6	2174.9	2135.0	2084.5	2025.5	1901.3
25°	2106.0	2118.7	2178.5	2234.6	2246.6	2247.0	2231.4	2182.0	2125.1	2065.8	1922.8
27.5°	2200.0	2212.7	2266.5	2321.4	2315.1	2311.5	2290.4	2241.0	2178.1	2121.1	1961.0
30°	2304.7	2318.6	2369.6	2408.6	2393.5	2386.3	2369.2	2305.5	2251.7	2196.8	2019.6
32.5°	2413.0	2425.8	2470.4	2497.1	2477.9	2474.8	2448.9	2390.7	2347.7	2312.3	2114.3
35°	2524.1	2533.3	2577.1	2592.2	2566.8	2566.0	2558.8	2505.4	2478.3	2495.1	2252.1
37.5°	2637.6	2640.0	2677.5	2678.3	2670.7	2673.9	2681.5	2648.0	2655.6	2707.7	2431.3
40°	2738.8	2745.2	2772.3	2780.6	2793.8	2804.9	2842.7	2820.8	2879.4	2971.8	2654.4
42.5°	2813.7	2826.0	2869.4	2890.9	2933.5	2951.1	3004.4	3024.7	3142.6	3281.2	2919.6
45°	2877.0	2896.1	2965.8	3010.0	3082.1	3112.8	3189.2	3257.3	3440.1	3617.0	3198.8
47.5°	2945.5	2969.8	3057.0	3141.4	3239.4	3274.1	3413.0	3515.0	3757.5	3954.7	3462.0
50°	3046.3	3065.0	3150.2	3282.8	3405.1	3449.7	3642.0	3788.2	4080.1	4276.5	3690.2
52.5°	3186.8	3179.7	3251.8	3437.7	3601.8	3656.8	3886.6	4078.9	4407.1	4567.6	3883.0
55°	3328.2	3316.3	3366.9	3599.8	3831.2	3889.0	4155.8	4370.9	4718.1	4829.6	4030.7
57.5°	3485.5	3462.8	3505.4	3782.6	4092.5	4161.4	4457.3	4681.1	5024.0	5041.5	4124.7
60°	3647.6	3617.0	3664.7	4009.2	4424.2	4505.5	4810.1	4983.8	5312.3	5211.2	4155.0
62.5°	3789.4	3767.9	3841.6	4262.1	4798.2	4887.4	5156.6	5305.6	5596.7	5281.7	4045.9
65°	3913.3	3916.8	4044.3	4546.5	5215.2	5310.3	5554.1	5702.2	5820.5	5239.8	3790.6
67.5°	4061.0	4081.3	4298.8	4920.8	5740.1	5844.4	6132.3	6134.7	5945.6	4994.5	3288.0
70°	4276.5	4318.3	4648.8	5440.2	6486.4	6629.8	6852.0	6388.8	5769.9	4329.4	2587.1
72.5°	4467.6	4545.7	5021.2	6034.4	7396.0	7504.7	7272.9	6242.3	5035.9	3244.6	1611.7
74°	4390.0	4486.7	5088.9	6327.1	7738.5	7790.7	7130.8	5814.5	4198.8	2247.0	936.7
75°	4222.7	4327.8	4990.1	6324.3	7695.1	7666.0	6787.5	5325.9	3458.1	1532.5	623.3
77.5°	3407.9	3519.0	4204.8	5420.3	6309.6	6282.1	5214.0	3572.7	1514.6	502.6	316.6
80°	1981.3	2066.1	2610.2	3442.1	4254.6	4304.3	3429.0	1767.9	595.8	282.4	214.7
82.5°	880.1	938.7	1260.9	1757.1	2567.6	2631.7	1795.7	926.3	368.0	171.6	129.0
85°	577.5	620.9	765.4	836.7	1222.6	1266.5	878.9	721.2	242.9	94.4	94.8
87.5°	415.4	457.2	568.7	496.6	561.1	531.3	478.3	667.5	97.6	53.8	31.9
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1992.1	1992.1	1992.1	1992.1	1992.1	1992.1	1992.1	1992.1	1992.1	1992.1	1992.1
2.5°	1973.4	1967.0	1952.6	1925.6	1910.4	1897.7	1876.6	1864.2	1858.7	1858.3	1860.6
5°	1924.4	1909.6	1872.6	1827.2	1791.0	1757.9	1716.9	1692.2	1674.7	1664.3	1667.1
7.5°	1867.4	1844.3	1786.2	1713.7	1655.5	1591.4	1528.1	1490.3	1460.8	1438.9	1442.9
10°	1828.4	1796.5	1711.7	1607.4	1510.6	1417.4	1330.2	1278.0	1236.6	1204.7	1207.1
12.5°	1815.2	1772.2	1654.8	1515.4	1379.6	1252.1	1138.2	1058.2	1015.6	979.3	982.1
15°	1817.2	1759.5	1607.0	1432.5	1261.7	1101.2	963.0	869.4	811.6	786.6	787.0
17.5°	1818.8	1744.8	1556.8	1343.7	1145.0	960.2	810.1	715.3	660.7	637.6	638.0
20°	1813.7	1720.9	1494.7	1241.8	1023.1	830.8	685.4	604.9	563.5	545.6	545.6
22.5°	1806.9	1692.6	1424.6	1139.4	902.8	718.5	596.2	534.9	511.0	499.0	498.6
25°	1810.1	1671.5	1352.9	1034.3	792.1	628.8	536.8	496.2	480.3	472.7	472.3
27.5°	1827.2	1661.5	1286.8	929.5	695.4	561.5	497.0	468.3	458.0	453.2	453.2
30°	1858.3	1661.5	1217.9	840.3	614.9	511.8	466.4	446.8	439.7	436.5	436.5
32.5°	1912.4	1670.7	1151.4	751.9	550.8	472.7	440.9	427.7	422.2	420.6	420.6
35°	2005.6	1701.7	1086.4	668.3	499.0	440.9	416.6	409.0	405.0	404.6	405.8
37.5°	2136.6	1765.1	1025.5	606.5	462.4	415.0	396.3	390.3	387.9	389.9	391.5
40°	2301.5	1851.1	970.2	550.8	434.5	394.3	377.5	373.6	372.4	375.2	377.5
42.5°	2500.6	1967.4	924.7	510.6	413.0	376.7	361.6	356.8	355.6	358.8	362.0
45°	2716.1	2092.4	892.9	480.7	396.3	363.6	347.7	342.5	340.1	341.7	345.3
47.5°	2912.0	2210.7	880.1	459.6	380.3	352.5	335.3	329.0	325.0	324.2	327.0
50°	3077.3	2298.7	886.1	446.8	367.6	340.1	323.4	316.2	310.2	306.7	308.6
52.5°	3197.6	2354.1	891.7	441.3	357.6	326.6	310.2	303.5	295.5	289.5	289.5
55°	3284.8	2366.8	879.3	436.9	350.1	311.8	295.5	289.1	281.2	274.4	273.6
57.5°	3319.1	2331.0	833.5	430.5	344.9	297.9	280.0	275.2	268.4	260.5	260.1
60°	3272.9	2220.3	745.1	417.0	338.1	286.3	264.4	261.3	258.1	250.5	250.1
62.5°	3087.3	1977.3	630.8	389.5	324.6	274.0	250.1	251.7	252.1	246.9	246.1
65°	2750.7	1643.6	519.3	353.7	304.3	259.3	235.4	242.9	247.3	246.5	245.3
67.5°	2261.7	1279.2	440.1	315.8	277.6	239.0	219.4	228.2	231.8	234.6	233.8
70°	1678.6	902.0	364.0	276.0	245.3	215.1	198.7	203.1	200.7	203.9	205.1
72.5°	935.9	541.2	296.7	236.2	211.9	187.2	175.6	174.8	169.7	169.7	169.7
74°	561.5	397.1	260.9	211.5	191.6	168.9	158.9	155.3	150.5	150.9	150.5
75°	451.6	341.3	239.4	195.1	177.2	158.1	148.2	143.4	139.8	139.8	139.4
77.5°	285.2	259.3	192.8	155.3	141.8	130.2	123.5	117.1	117.1	116.7	116.3
80°	215.5	206.3	150.1	117.5	108.7	100.0	95.6	92.8	92.8	94.0	93.6
82.5°	147.8	155.3	105.5	82.0	77.7	71.3	70.5	70.9	69.7	68.1	67.7
85°	107.9	116.7	71.3	51.8	47.4	43.4	46.6	48.2	46.2	42.6	41.0
87.5°	41.4	76.5	38.2	21.5	19.9	17.1	19.9	20.7	22.3	17.5	17.9
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)