

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: P317867

Luminaire Tested: **GAN-SA3A-827-U-T3R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P317867
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-10)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA3A-827-U-T3R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10694 lumens
Efficiency: N/A
Efficacy: 111.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B2 - U0 - G2

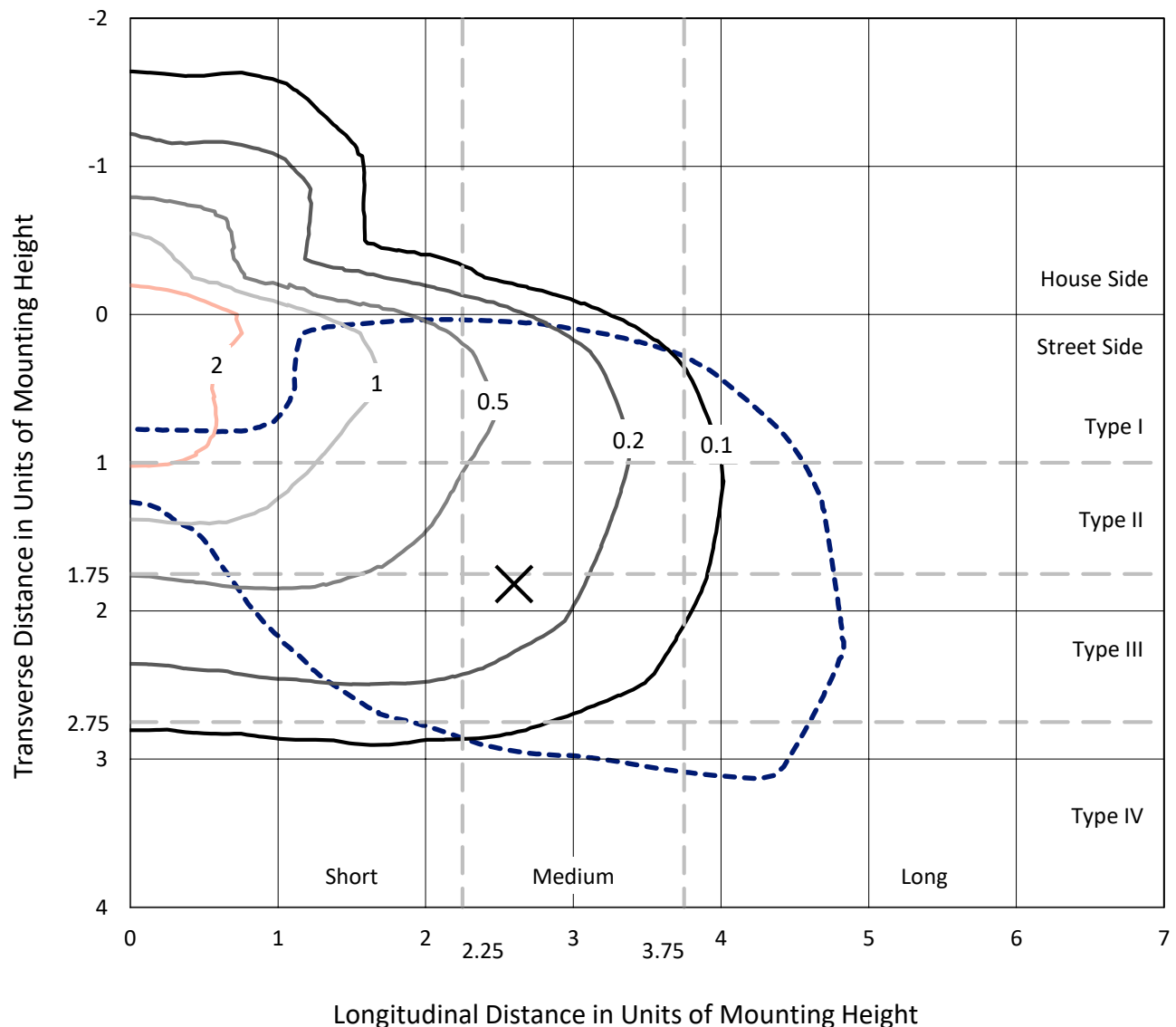
Input Watts (W): 96
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

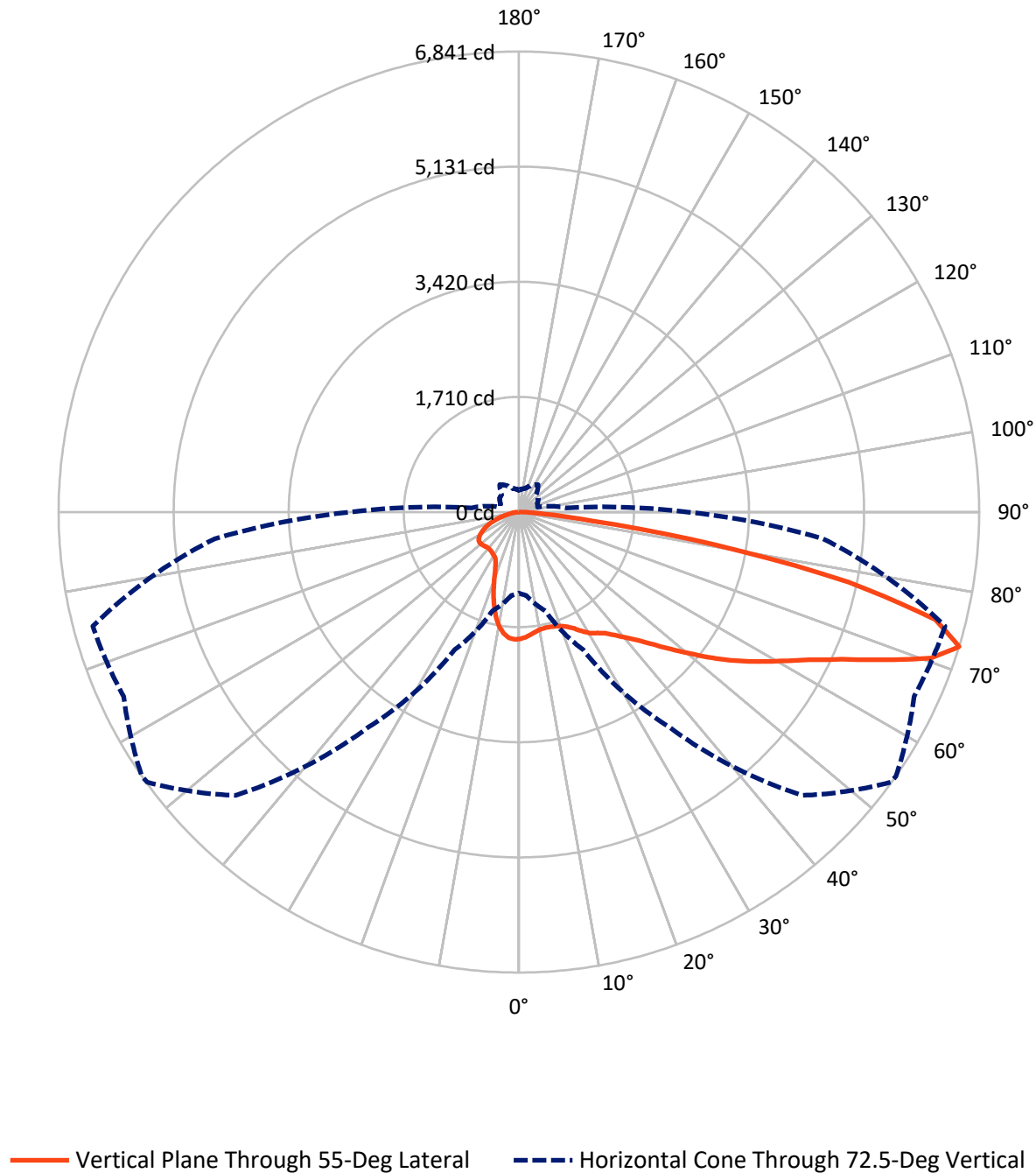
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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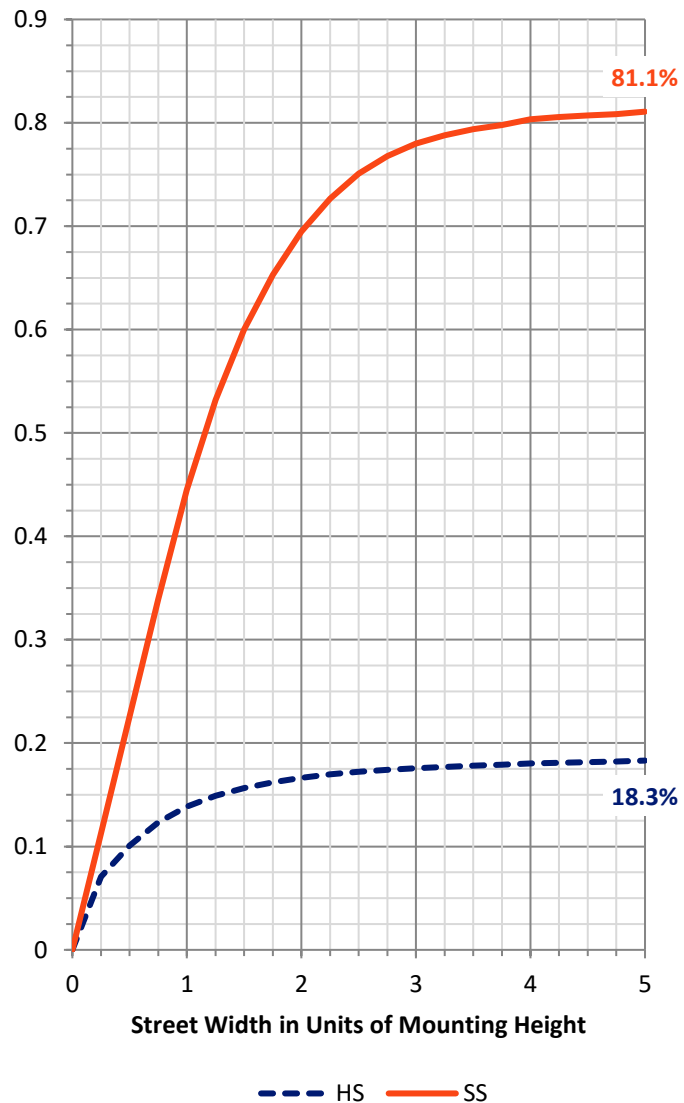
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1987.7	0.0	1987.7
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	8706.3	0.0	8706.3
	% Fixture	81.4	0.0	81.4
Total	Lumens	10694.0	0.0	10694.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	170.7	1.6
10°-20°	454.4	4.2
20°-30°	749.2	7.0
30°-40°	1108.3	10.4
40°-50°	1546.9	14.5
50°-60°	2014.1	18.8
60°-70°	2475.3	23.1
70°-80°	1940.3	18.1
80°-90°	234.8	2.2
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°	10694.0	100.0
0°-180°	10694.0	100.0

Coefficient of Utilization



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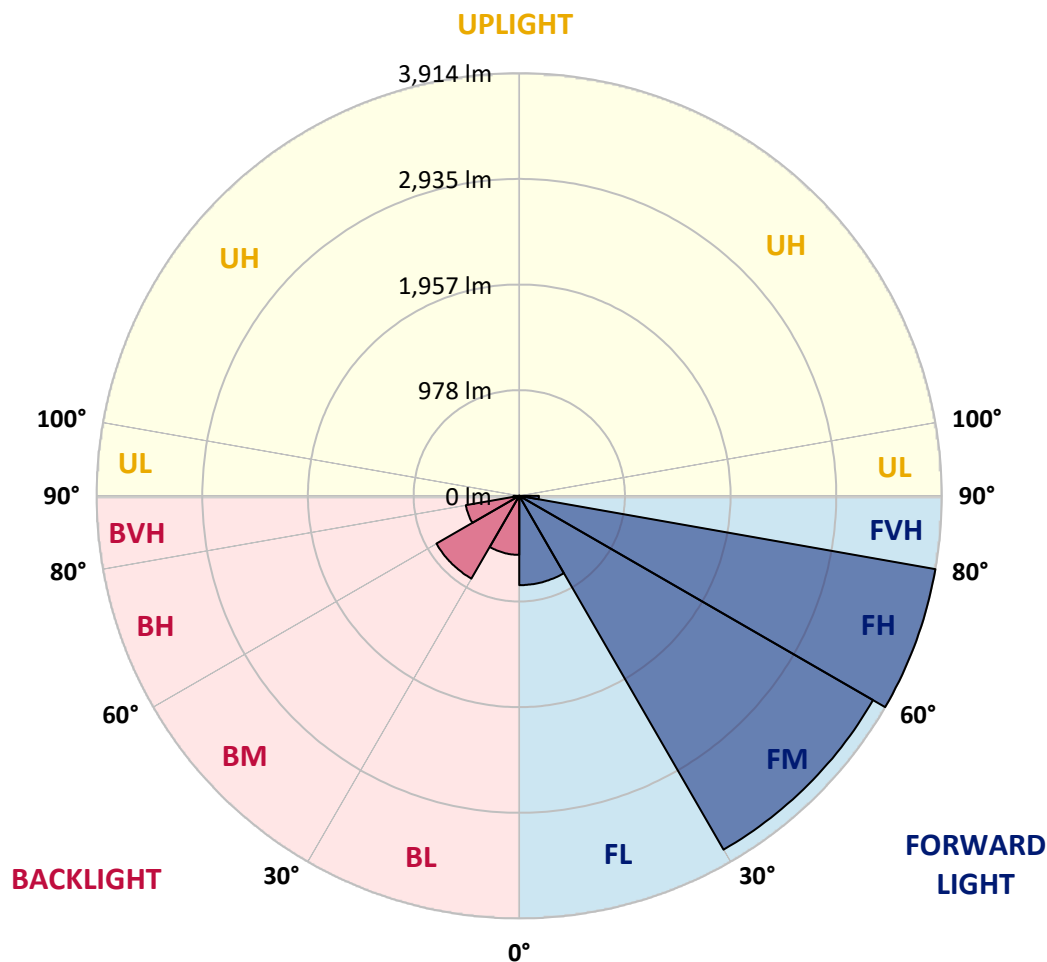
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	827.4	7.7			
FM	(30°-60°)	3783.7	35.4			
FH	(60°-80°)	3913.6	36.6			G2/5000
FVH	(80°-90°)	181.5	1.7			G2/225
BL	(0°-30°)	546.9	5.1	B2/1000		
BM	(30°-60°)	885.5	8.3	B1/1000		
BH	(60°-80°)	502.0	4.7	B2/1000		G2/1000
BVH	(80°-90°)	53.3	0.5			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	1886.2	1886.2	1886.2	1886.2	1886.2	1886.2	1886.2	1886.2	1886.2	1886.2	1886.2
2.5°	1824.8	1820.5	1825.9	1833.5	1841.8	1853.0	1859.5	1862.4	1873.5	1877.9	1887.3
5°	1740.3	1738.1	1747.1	1760.1	1778.6	1804.6	1825.5	1829.5	1859.1	1880.1	1899.2
7.5°	1678.9	1678.9	1689.3	1704.9	1725.5	1760.5	1790.1	1795.5	1845.7	1890.9	1926.3
10°	1630.1	1631.9	1644.2	1662.6	1686.8	1724.0	1763.4	1769.5	1842.1	1916.2	1972.5
12.5°	1597.6	1601.9	1613.1	1629.7	1659.7	1704.9	1754.7	1763.0	1849.7	1952.3	2028.1
15°	1618.2	1625.4	1626.5	1633.4	1650.0	1699.1	1759.8	1768.4	1866.0	1989.1	2091.4
17.5°	1708.5	1711.0	1699.8	1685.4	1677.4	1708.8	1774.9	1784.0	1885.5	2025.6	2152.0
20°	1845.7	1844.3	1820.1	1781.1	1740.6	1745.7	1799.9	1809.3	1911.8	2057.8	2212.7
22.5°	2019.1	2014.1	1976.9	1905.0	1836.0	1807.1	1843.6	1851.5	1951.6	2103.6	2277.7
25°	2229.3	2218.1	2169.0	2072.6	1971.1	1896.7	1909.3	1916.9	2009.4	2154.9	2337.3
27.5°	2451.1	2439.9	2377.4	2260.8	2125.7	2009.7	2000.0	2006.5	2075.1	2192.9	2381.4
30°	2683.0	2671.1	2614.0	2483.3	2289.7	2126.8	2084.5	2087.0	2121.3	2213.4	2417.5
32.5°	2916.0	2904.8	2840.8	2689.1	2467.7	2252.4	2145.5	2142.3	2149.1	2234.8	2458.3
35°	3152.2	3156.5	3081.8	2913.8	2664.9	2392.2	2217.8	2210.9	2195.7	2278.5	2516.1
37.5°	3405.0	3402.2	3305.4	3129.8	2871.2	2543.9	2321.4	2320.4	2268.0	2361.2	2606.8
40°	3574.1	3575.9	3517.0	3350.9	3079.6	2711.9	2454.4	2451.8	2383.2	2485.1	2725.6
42.5°	3640.2	3652.1	3667.3	3561.8	3297.8	2906.6	2612.9	2609.3	2543.9	2662.8	2865.4
45°	3644.9	3668.7	3762.6	3749.3	3518.8	3129.4	2815.6	2805.4	2758.5	2899.0	3032.3
47.5°	3604.4	3629.0	3785.0	3860.9	3716.4	3364.6	3052.5	3044.6	3004.1	3194.5	3212.9
50°	3515.9	3539.4	3738.8	3915.4	3878.9	3590.7	3325.6	3304.6	3283.0	3535.8	3419.5
52.5°	3350.1	3395.3	3677.0	3928.4	3976.1	3791.5	3612.7	3599.0	3610.9	3895.9	3626.5
55°	2957.5	3008.1	3517.7	3917.6	4048.0	3960.2	3899.9	3899.2	3960.9	4273.7	3848.6
57.5°	2737.5	2773.3	3193.4	3899.2	4133.2	4127.8	4184.2	4191.0	4311.3	4685.1	4081.2
60°	2613.3	2650.9	3029.0	3830.9	4265.4	4344.5	4474.2	4487.9	4667.4	5140.6	4361.1
62.5°	2500.2	2541.4	2927.2	3691.8	4421.1	4654.4	4821.7	4834.0	5044.5	5608.7	4631.7
65°	2307.0	2353.6	2778.0	3600.5	4562.7	5058.6	5263.4	5271.7	5477.6	6099.2	4838.6
67.5°	2033.9	2076.5	2496.6	3398.5	4667.4	5549.5	5850.7	5855.4	5907.1	6445.6	4944.5
70°	1715.0	1731.2	2095.7	2981.7	4543.5	6008.6	6494.4	6495.5	6298.6	6667.4	4927.1
72.5°	1205.0	1243.3	1521.4	2257.1	3904.6	5952.6	6828.5	6840.8	6480.7	6555.4	4533.4
75°	739.0	779.5	954.3	1367.9	2477.1	4681.5	6309.1	6394.3	6139.3	5845.0	3703.4
77.5°	494.1	509.3	622.7	797.5	1122.3	2693.5	4850.6	5010.9	5100.2	4262.5	2368.4
80°	275.6	304.5	412.9	495.6	499.2	1070.2	2908.4	2946.0	2837.6	1697.3	730.7
82.5°	145.9	161.8	275.6	291.1	272.3	358.3	1084.0	1085.0	906.6	455.1	217.1
85°	113.1	126.4	188.9	177.7	139.1	158.9	357.6	377.1	308.5	186.4	70.8
87.5°	56.3	70.1	128.2	112.7	54.5	45.5	127.9	136.5	121.7	73.0	25.6
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°	1886.2	1886.2	1886.2	1886.2	1886.2	1886.2	1886.2	1886.2	1886.2	1886.2	1886.2
2.5°	1890.9	1894.1	1898.1	1893.8	1892.3	1886.6	1876.8	1874.6	1869.6	1869.9	1872.8
5°	1907.5	1912.9	1910.8	1894.1	1874.3	1846.5	1817.6	1793.0	1776.7	1775.7	1774.6
7.5°	1939.3	1942.9	1925.9	1878.6	1823.0	1758.7	1698.0	1644.9	1612.8	1604.8	1603.0
10°	1989.1	1988.4	1941.8	1846.5	1735.6	1620.7	1523.2	1449.5	1406.5	1393.9	1390.6
12.5°	2044.8	2036.5	1947.2	1787.9	1612.0	1452.8	1329.2	1247.2	1202.4	1188.0	1184.4
15°	2102.2	2081.6	1933.9	1700.5	1460.3	1271.8	1142.1	1066.3	1042.1	1034.1	1032.7
17.5°	2155.6	2115.9	1895.6	1582.1	1287.3	1091.5	990.4	960.1	965.9	976.3	976.7
20°	2208.0	2139.0	1834.2	1432.5	1104.9	943.1	908.8	931.2	958.6	979.9	982.8
22.5°	2259.7	2155.3	1755.1	1259.9	941.7	859.7	883.9	924.7	956.1	979.2	983.2
25°	2303.0	2159.3	1646.0	1075.7	828.2	828.2	871.9	910.6	941.7	964.4	968.4
27.5°	2318.9	2132.5	1492.1	905.2	771.2	813.8	855.3	887.5	913.8	938.0	942.4
30°	2325.1	2083.0	1314.4	768.3	747.7	798.3	832.9	860.4	885.3	908.1	912.0
32.5°	2326.1	2023.4	1125.9	690.6	731.4	782.0	805.1	829.3	856.0	865.1	866.5
35°	2333.0	1953.0	927.2	650.9	716.3	766.8	785.3	802.6	759.2	762.5	765.4
37.5°	2352.9	1883.3	761.1	628.5	706.5	758.9	780.9	718.1	684.1	676.2	675.1
40°	2390.1	1808.9	637.9	610.4	702.9	762.9	753.1	670.4	611.9	568.2	561.7
42.5°	2441.7	1728.7	559.1	598.5	705.4	782.0	714.5	624.5	527.4	499.2	495.6
45°	2499.9	1644.5	516.5	590.2	714.1	796.8	706.5	563.5	488.0	466.7	464.9
47.5°	2556.2	1541.6	494.5	586.6	726.0	784.9	672.9	544.7	469.2	458.0	459.1
50°	2620.9	1448.8	481.1	582.6	736.5	777.3	635.0	534.9	462.0	475.7	490.1
52.5°	2675.4	1352.7	469.2	574.7	740.5	763.9	625.2	536.7	462.0	488.3	502.1
55°	2740.1	1280.1	455.5	558.1	732.9	726.0	618.4	547.6	467.4	450.8	452.2
57.5°	2823.5	1256.3	440.3	532.0	707.6	670.8	615.1	558.1	464.1	453.7	457.3
60°	2939.1	1281.5	434.2	498.1	668.2	627.4	615.5	552.6	441.4	423.3	423.7
62.5°	3049.3	1309.7	433.8	476.8	619.8	588.8	607.2	534.9	429.8	419.4	423.3
65°	3085.4	1281.2	416.5	452.9	565.3	542.5	592.0	516.2	421.2	405.3	404.5
67.5°	3037.0	1192.7	381.4	414.3	502.8	488.7	572.1	493.8	407.4	394.4	392.3
70°	2893.2	995.1	338.1	363.4	431.6	428.0	540.7	467.8	389.0	377.8	368.4
72.5°	2506.4	709.0	285.0	302.3	351.4	363.0	497.4	433.8	363.0	338.8	324.4
75°	2058.5	524.8	234.1	237.7	266.9	298.4	437.8	394.1	332.3	291.1	279.9
77.5°	1260.6	321.1	186.4	187.8	191.4	238.0	360.5	349.6	293.3	242.7	234.8
80°	408.2	175.2	134.7	141.6	130.8	174.5	278.8	297.6	251.8	203.0	194.3
82.5°	155.3	102.2	91.0	95.7	90.7	117.0	203.4	238.4	206.2	166.9	135.8
85°	75.1	57.8	53.8	60.3	56.0	60.0	130.0	175.5	156.4	108.7	101.1
87.5°	26.7	25.6	20.6	27.8	23.8	21.3	39.7	88.5	103.3	74.8	66.8
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)