

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: P317375

Luminaire Tested: **GAN-SA1D-727-U-T2R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P317375
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-8)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA1D-727-U-T2R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 2700K, 1200mA LIGHTSQUARE WITH 16 LEDS AND TYPE II ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7078 lumens
Efficiency: N/A
Efficacy: 105.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

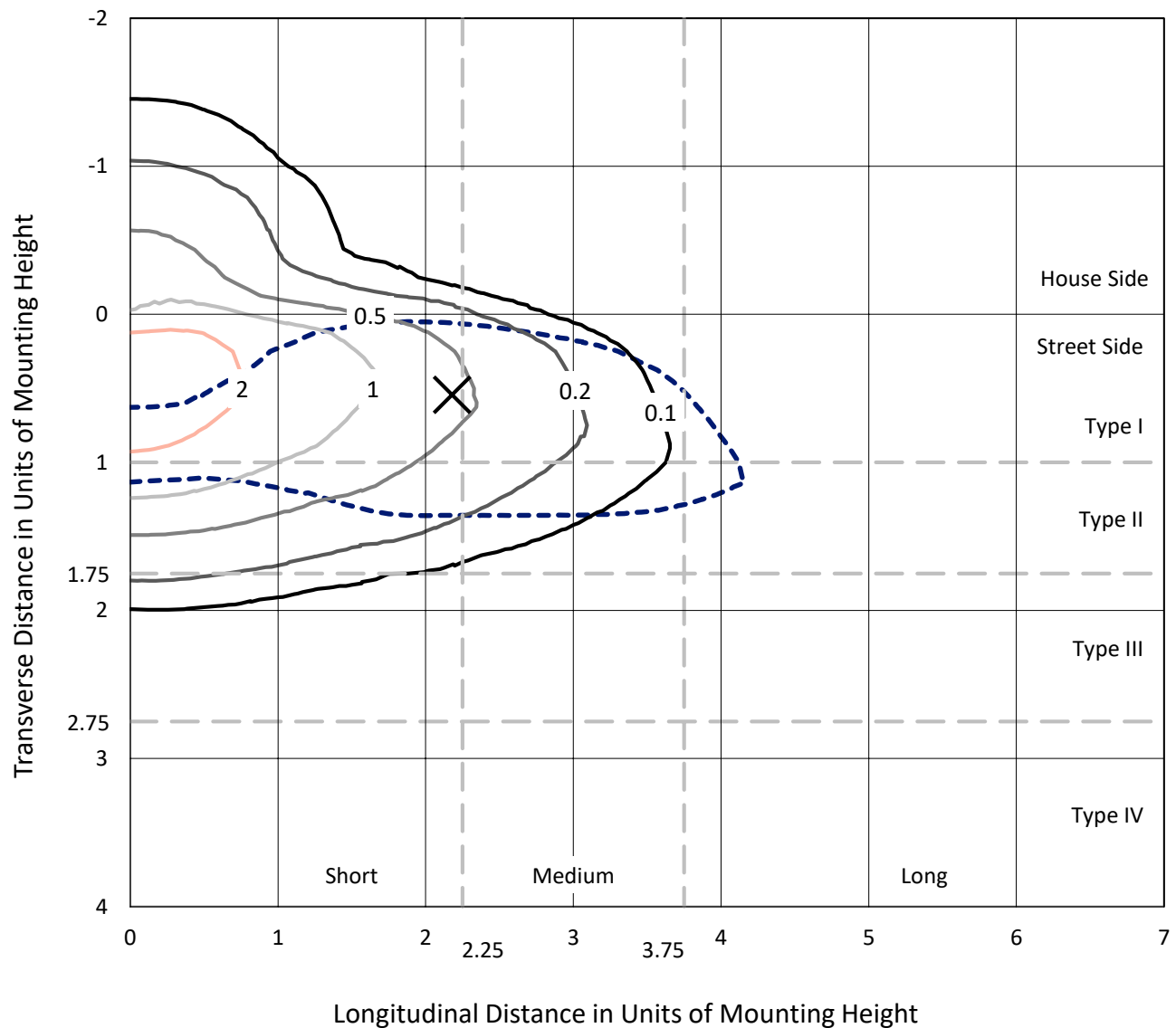
Input Watts (W): 67
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

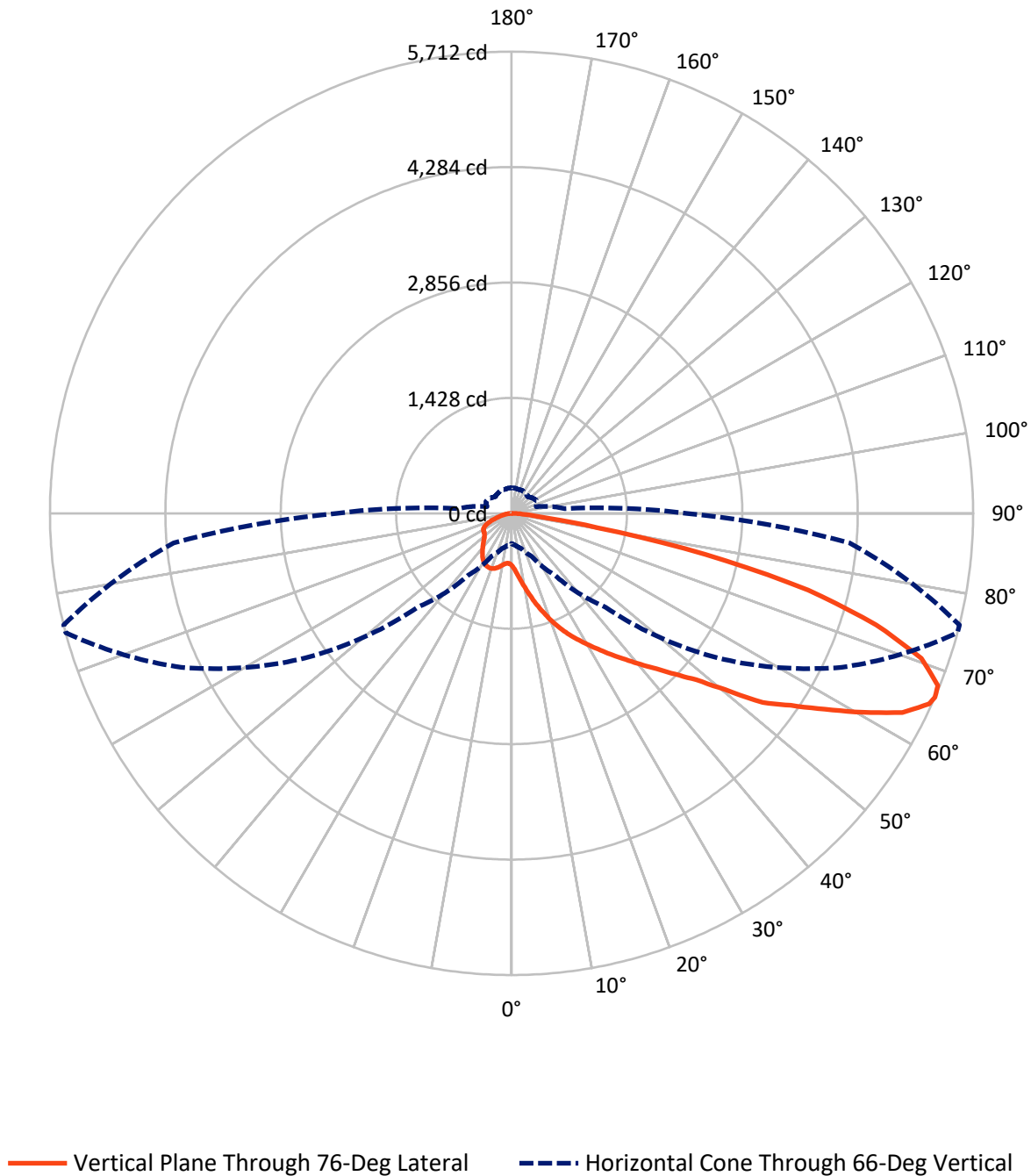
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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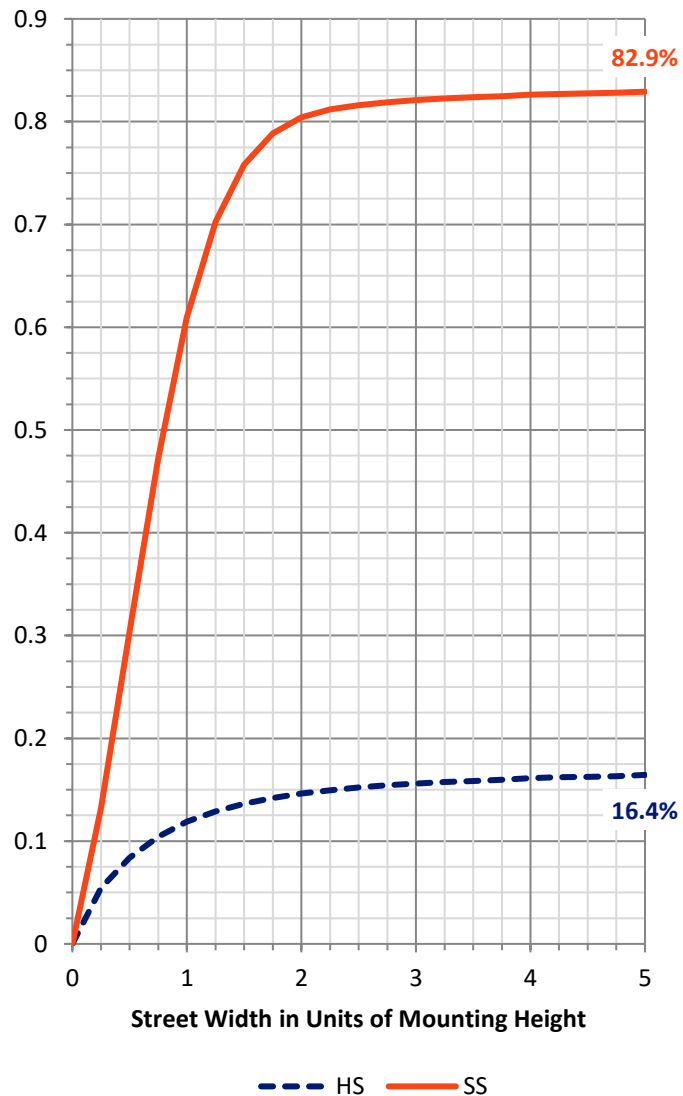
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1191.0	0.0	1191.0
	% Fixture	16.8	0.0	16.8
Street Side	Lumens	5887.0	0.0	5887.0
	% Fixture	83.2	0.0	83.2
Total	Lumens	7078.0	0.0	7078.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	78.2	1.1
10°-20°	308.7	4.4
20°-30°	599.8	8.5
30°-40°	979.0	13.8
40°-50°	1337.6	18.9
50°-60°	1558.0	22.0
60°-70°	1396.8	19.7
70°-80°	705.9	10.0
80°-90°	114.0	1.6
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°	7078.0	100.0
0°-180°	7078.0	100.0

Coefficient of Utilization



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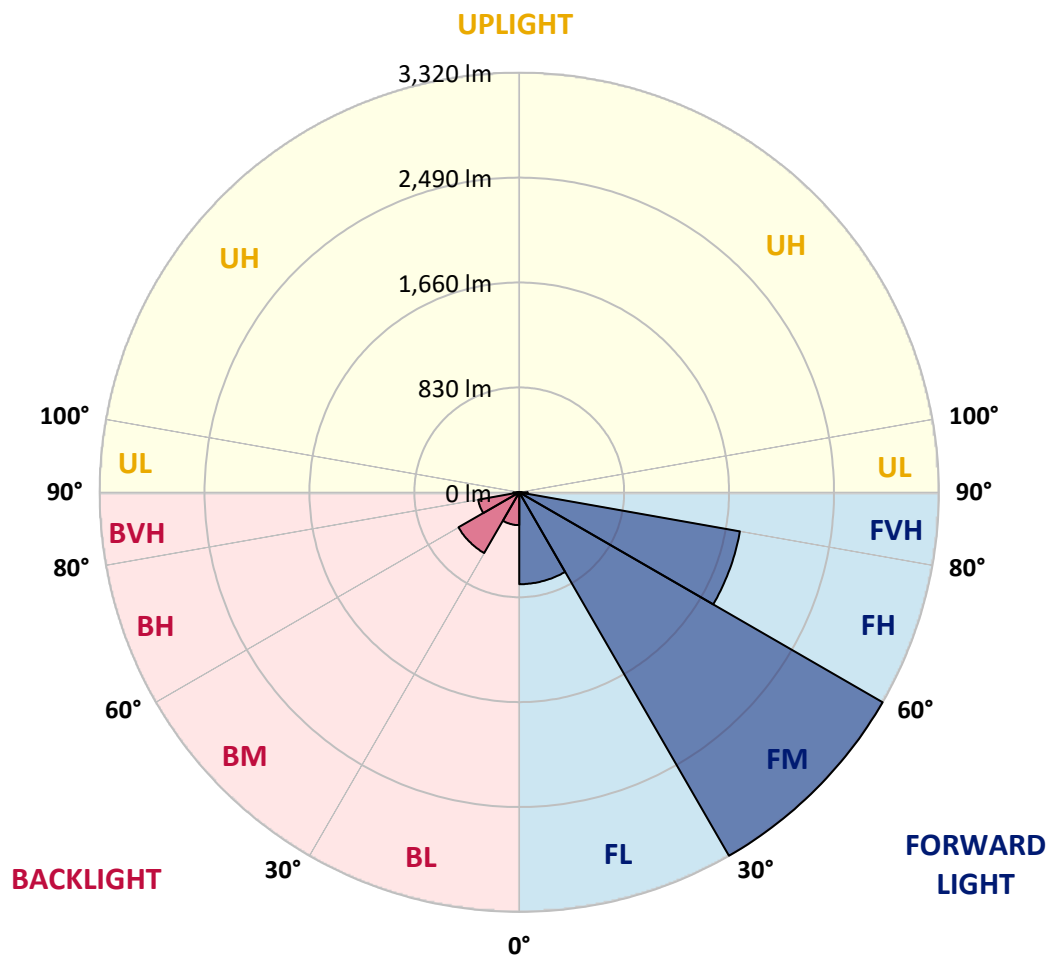
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	726.9	10.3			
FM	(30°-60°)	3320.1	46.9			
FH	(60°-80°)	1772.7	25.0			G1/1800
FVH	(80°-90°)	67.3	1.0			G1/100
BL	(0°-30°)	259.8	3.7	B1/500		
BM	(30°-60°)	554.6	7.8	B1/1000		
BH	(60°-80°)	330.0	4.7	B1/500		G1/500
BVH	(80°-90°)	46.7	0.7			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	646.4	646.4	646.4	646.4	646.4	646.4	646.4	646.4	646.4	646.4	646.4
2.5°	858.1	845.1	843.9	824.9	820.6	784.3	757.6	729.8	698.0	691.8	666.8
5°	1102.2	1101.0	1084.4	1053.4	1029.2	967.2	905.9	841.0	769.9	758.4	702.1
7.5°	1321.8	1319.9	1307.2	1273.8	1238.7	1162.5	1075.1	975.6	860.2	843.2	749.9
10°	1488.6	1487.9	1483.6	1459.0	1429.2	1356.2	1259.6	1123.8	965.2	941.9	809.8
12.5°	1617.4	1618.8	1621.7	1613.1	1598.9	1536.7	1437.7	1281.0	1077.2	1054.2	876.3
15°	1704.6	1708.9	1723.8	1736.1	1743.5	1705.3	1609.5	1441.7	1202.7	1175.0	950.1
17.5°	1748.6	1753.4	1779.1	1816.1	1850.2	1846.4	1770.2	1595.0	1323.0	1296.4	1029.4
20°	1786.6	1790.2	1819.0	1863.5	1923.8	1950.4	1907.7	1742.6	1455.0	1423.2	1113.5
22.5°	1896.6	1901.2	1909.8	1935.1	1988.4	2037.4	2016.8	1882.2	1575.8	1546.3	1193.3
25°	2109.0	2114.6	2095.8	2074.4	2084.5	2118.6	2122.5	2009.5	1698.4	1665.0	1279.1
27.5°	2364.9	2372.9	2340.9	2285.9	2237.8	2224.6	2220.0	2113.8	1815.4	1776.7	1363.9
30°	2615.6	2629.3	2587.7	2516.3	2428.1	2366.1	2320.2	2216.0	1930.7	1893.7	1443.9
32.5°	2860.4	2854.9	2794.6	2724.9	2621.6	2544.0	2432.9	2325.5	2060.5	2018.0	1523.4
35°	3028.1	3030.1	2974.1	2891.4	2792.9	2733.3	2583.8	2443.8	2192.9	2153.7	1613.8
37.5°	3170.9	3162.0	3098.5	3021.4	2936.6	2911.1	2760.5	2574.0	2336.3	2293.6	1709.9
40°	3218.4	3208.1	3166.5	3111.0	3043.0	3040.9	2955.3	2721.5	2498.5	2456.2	1818.3
42.5°	3189.6	3176.4	3159.3	3144.2	3123.3	3132.9	3138.4	2894.5	2676.8	2629.5	1943.7
45°	3083.2	3063.2	3075.2	3108.2	3153.6	3207.9	3303.8	3086.0	2876.5	2836.9	2091.0
47.5°	2919.5	2901.5	2939.0	3009.4	3132.9	3270.4	3460.2	3297.5	3114.9	3075.5	2300.8
50°	2689.3	2694.6	2748.2	2876.3	3063.0	3299.2	3652.9	3577.4	3461.4	3424.6	2587.0
52.5°	2311.6	2312.6	2463.5	2673.7	2939.0	3284.3	3759.8	3935.2	3934.5	3890.1	2859.5
55°	1960.8	1982.2	2101.6	2381.0	2738.1	3224.7	3834.6	4109.2	4245.2	4193.1	3113.4
57.5°	1618.1	1630.6	1743.8	2024.4	2451.4	3065.9	3911.2	4318.0	4603.2	4570.3	3429.2
60°	1228.4	1247.6	1364.6	1623.9	2084.8	2784.0	3918.4	4536.0	5031.2	4998.0	3781.7
62.5°	797.3	830.4	940.0	1182.9	1641.2	2378.6	3751.2	4678.5	5436.8	5425.0	4094.5
65°	458.2	483.2	559.4	746.8	1132.2	1869.7	3353.5	4623.7	5686.5	5679.7	4211.6
66°	374.4	390.0	448.4	583.7	934.2	1641.9	3122.3	4508.1	5711.2	5711.5	4198.1
67.5°	299.4	306.4	332.6	417.9	689.4	1301.4	2709.3	4253.1	5680.5	5688.9	4111.4
70°	247.7	251.3	259.5	280.2	376.3	784.8	1923.0	3590.7	5371.7	5378.2	3772.8
72.5°	222.3	224.4	227.6	230.4	265.5	438.5	1174.5	2872.4	4709.7	4718.1	3256.9
75°	201.4	202.6	202.1	202.3	222.7	279.5	607.0	2144.6	3808.1	3791.3	2494.9
77.5°	176.9	178.1	175.7	176.1	197.0	214.8	302.0	1501.3	2569.9	2451.2	1405.7
80°	149.5	150.4	149.5	151.1	171.6	162.2	175.7	844.6	1136.3	1074.8	499.8
82.5°	112.9	117.0	119.9	126.6	141.3	115.3	117.5	329.0	346.0	329.4	153.3
85°	49.5	60.3	90.3	96.8	106.2	69.2	77.1	134.1	140.8	136.5	55.7
87.5°	13.0	14.2	44.7	56.2	58.9	31.2	40.1	61.0	64.4	61.0	18.5
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°	646.4	646.4	646.4	646.4	646.4	646.4	646.4	646.4	646.4	646.4	646.4
2.5°	653.6	641.8	620.7	601.9	587.8	578.1	568.5	563.7	560.8	558.0	558.4
5°	674.5	650.7	614.4	588.7	574.3	565.2	560.4	558.4	557.2	554.3	554.3
7.5°	706.0	672.3	622.4	595.9	584.6	577.7	574.8	573.8	572.4	569.0	569.5
10°	745.6	698.5	638.9	613.2	602.9	595.2	591.1	589.7	587.0	583.2	583.7
12.5°	792.2	731.0	660.8	633.9	621.4	611.1	604.3	600.2	595.7	590.6	590.9
15°	843.2	766.3	684.3	652.4	635.3	620.9	610.1	603.1	595.9	589.7	589.4
17.5°	894.8	800.4	702.4	662.5	639.4	620.4	605.8	595.0	586.1	578.4	577.7
20°	950.6	831.2	712.5	661.5	631.7	609.1	589.7	576.2	566.4	558.7	557.5
22.5°	1007.3	860.0	714.1	651.7	614.7	587.0	566.6	551.7	541.6	533.7	530.8
25°	1059.2	882.3	707.2	632.7	590.9	561.1	541.1	526.0	517.8	508.5	505.6
27.5°	1106.5	898.0	693.2	608.4	564.2	534.9	516.1	503.2	494.3	487.1	484.7
30°	1149.1	906.4	670.4	579.6	536.8	510.1	494.3	485.4	477.7	468.6	466.9
32.5°	1189.4	906.4	641.1	548.1	509.7	488.3	478.9	473.4	464.7	455.8	453.4
35°	1229.8	900.8	606.5	515.2	484.7	472.7	472.2	465.7	452.5	440.5	437.3
37.5°	1272.3	889.6	567.6	484.4	464.2	465.7	469.8	455.4	436.6	419.5	415.0
40°	1320.4	873.9	527.2	457.8	447.2	462.6	463.3	440.5	403.9	388.3	384.2
42.5°	1376.9	858.3	489.7	434.2	433.7	453.2	451.0	408.3	386.4	378.5	376.3
45°	1451.1	849.4	454.1	411.9	423.2	438.0	430.1	390.5	381.3	376.8	374.9
47.5°	1568.1	854.0	421.5	394.1	412.6	422.9	391.2	383.3	376.8	371.2	369.3
50°	1714.7	851.3	395.0	381.8	400.6	407.1	373.7	373.9	370.5	364.3	361.4
52.5°	1825.0	830.7	378.0	374.9	390.0	378.9	362.6	364.8	363.1	353.9	350.8
55°	1931.5	812.9	369.3	372.2	382.3	343.9	349.6	354.9	353.2	344.3	342.9
57.5°	2063.9	809.5	364.0	372.9	375.8	326.3	337.1	344.1	342.9	339.0	338.3
60°	2226.0	810.5	359.2	374.1	368.6	313.3	325.4	334.2	335.0	334.2	333.8
62.5°	2315.2	784.3	347.2	370.8	355.9	302.0	313.1	326.1	326.3	327.8	327.5
65°	2239.5	706.0	324.9	359.0	334.5	292.7	302.5	316.7	313.1	319.6	319.6
66°	2166.0	660.8	313.8	351.3	325.4	289.1	299.2	311.9	307.3	316.2	316.2
67.5°	2015.8	584.6	293.9	335.0	312.4	284.0	295.3	304.0	297.7	310.9	310.0
70°	1741.4	452.2	253.7	298.0	291.0	276.6	290.0	288.1	279.0	299.2	295.3
72.5°	1468.2	343.6	203.8	249.4	258.6	267.2	282.6	267.9	256.4	270.6	262.2
75°	1139.2	258.3	161.0	193.9	218.4	252.5	273.7	244.6	228.0	226.6	222.0
77.5°	615.9	177.3	127.6	148.0	173.5	234.3	267.7	219.6	194.6	188.9	185.3
80°	243.9	115.3	92.8	112.2	121.3	207.9	253.3	190.6	160.5	154.7	149.2
82.5°	100.7	68.2	59.8	75.2	79.1	177.8	227.3	156.2	124.0	171.6	182.1
85°	43.3	37.5	35.6	38.9	44.7	124.7	180.9	119.2	133.8	119.4	94.9
87.5°	13.0	15.9	15.1	14.9	16.3	29.8	96.4	66.3	98.3	37.2	27.9
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)