

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: P323008

Luminaire Tested: **GAN-SA4C-827-U-T4W-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P323008
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-19)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA4C-827-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15202 lumens
Efficiency: N/A
Efficacy: 67.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

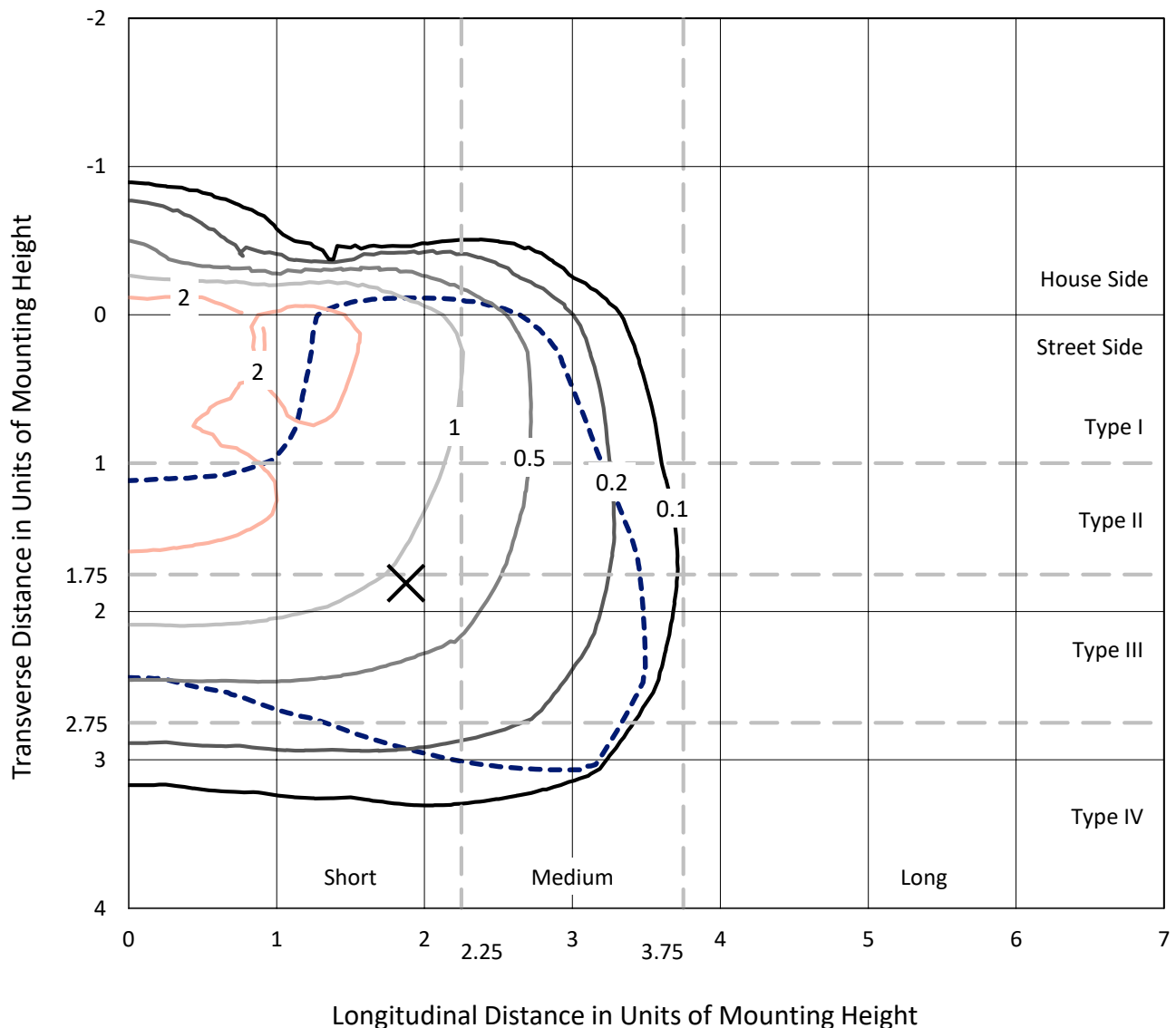
Input Watts (W): 225
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

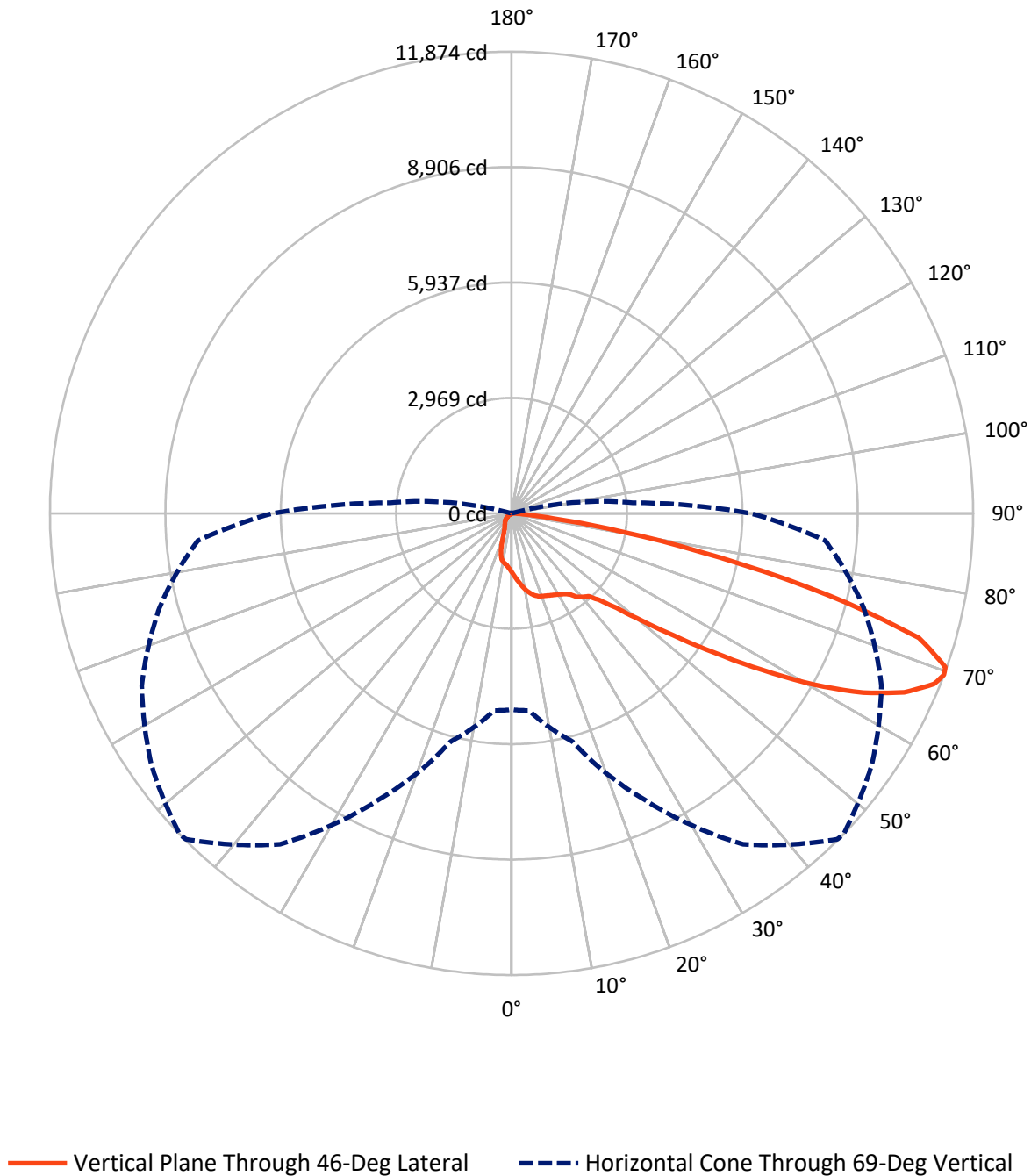
× Max cd
- - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



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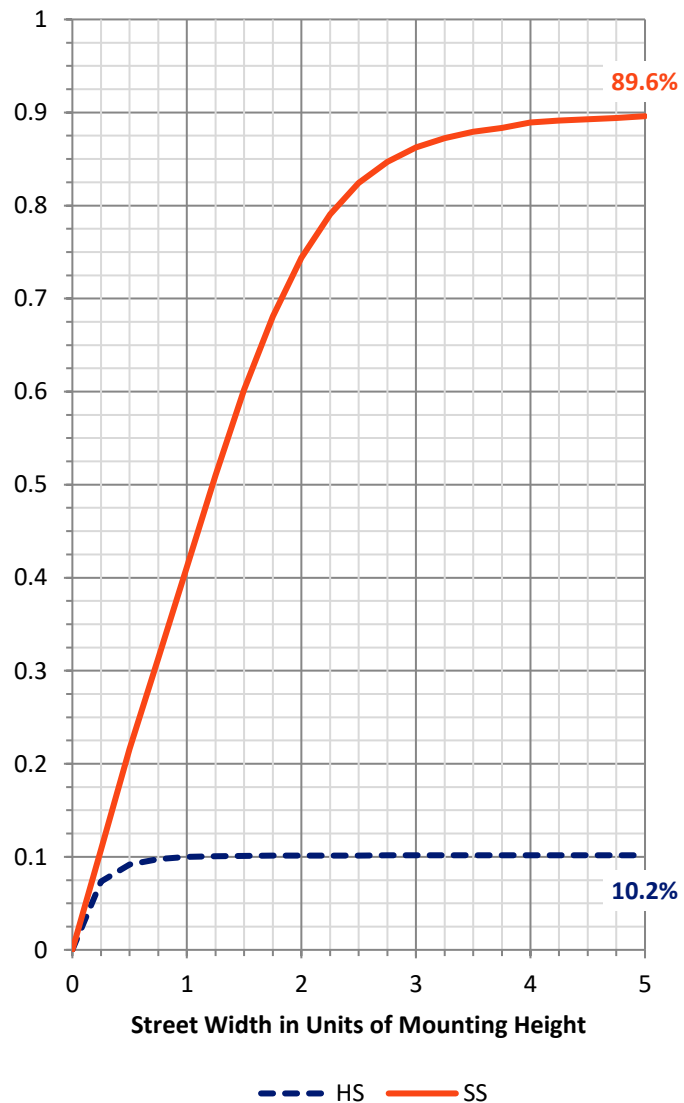
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1560.1	0.0	1560.1
	% Fixture	10.3	0.0	10.3
Street Side	Lumens	13641.9	0.0	13641.9
	% Fixture	89.7	0.0	89.7
Total	Lumens	15202.0	0.0	15202.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	151.6	1.0
10°-20°	459.9	3.0
20°-30°	723.3	4.8
30°-40°	1037.3	6.8
40°-50°	1792.8	11.8
50°-60°	3541.8	23.3
60°-70°	4950.0	32.6
70°-80°	2391.4	15.7
80°-90°	153.7	1.0
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°	15202.0	100.0
0°-180°	15202.0	100.0

Coefficient of Utilization



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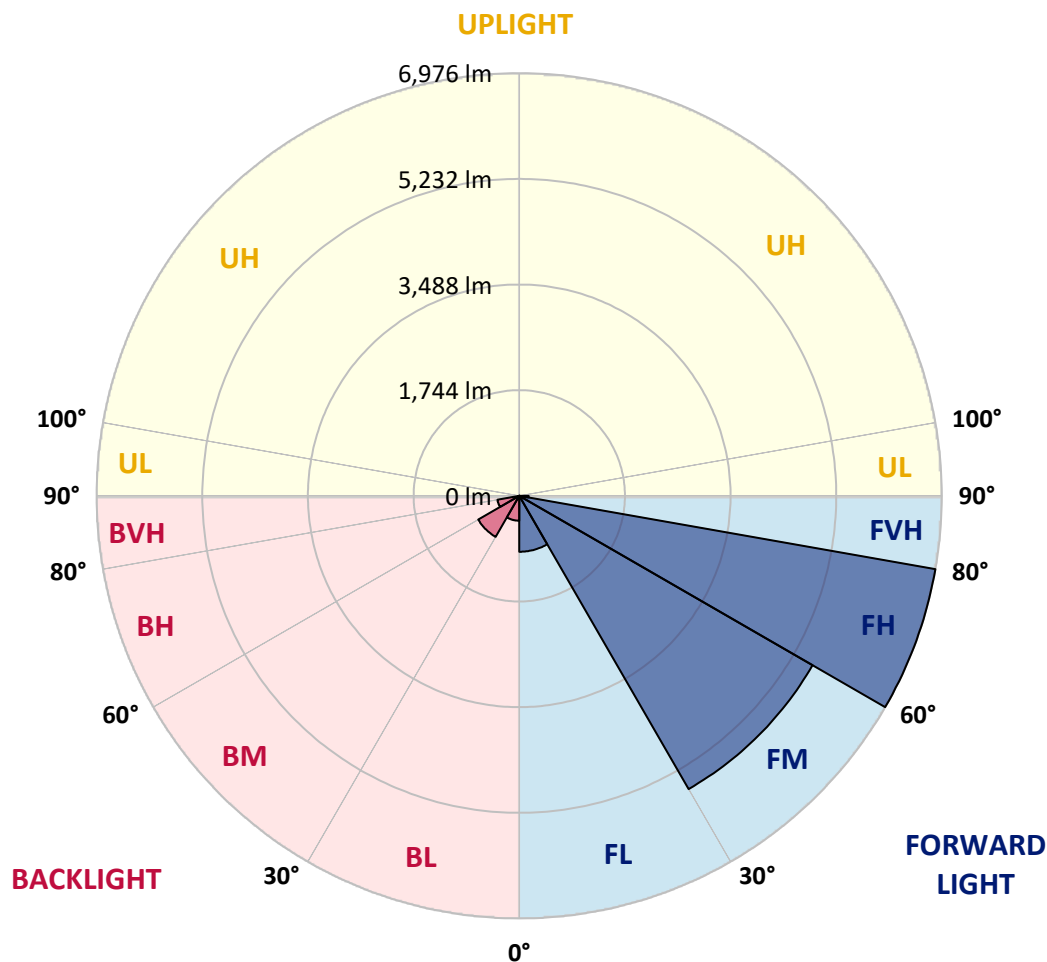
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	923.7	6.1			
FM	(30°-60°)	5590.1	36.8			
FH	(60°-80°)	6975.6	45.9			G3/7500
FVH	(80°-90°)	152.4	1.0			G2/225
BL	(0°-30°)	411.2	2.7	B1/500		
BM	(30°-60°)	781.8	5.1	B1/1000		
BH	(60°-80°)	365.8	2.4	B1/500		G1/500
BVH	(80°-90°)	1.3	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-G3

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	1523.2	1523.2	1523.2	1523.2	1523.2	1523.2	1523.2	1523.2	1523.2	1523.2	1523.2
2.5°	1692.1	1690.0	1680.0	1675.7	1651.5	1637.2	1631.5	1613.7	1588.0	1562.4	1533.9
5°	1884.6	1883.8	1865.3	1847.5	1801.9	1759.1	1751.3	1709.9	1652.2	1598.0	1543.9
7.5°	2081.3	2072.0	2053.5	2019.3	1953.0	1884.6	1878.1	1819.7	1737.7	1659.3	1581.6
10°	2248.1	2242.4	2218.1	2166.1	2088.4	2010.7	2002.9	1930.9	1838.2	1742.0	1642.9
12.5°	2377.8	2373.5	2341.4	2276.6	2193.9	2113.4	2102.7	2038.5	1939.4	1831.8	1714.9
15°	2456.9	2454.8	2415.6	2346.4	2265.2	2195.3	2186.1	2129.7	2037.8	1925.2	1793.3
17.5°	2475.4	2476.2	2435.5	2365.7	2298.7	2248.8	2241.7	2198.9	2121.9	2010.0	1871.7
20°	2434.1	2442.7	2406.3	2345.7	2304.4	2278.0	2272.3	2246.6	2181.8	2076.3	1934.5
22.5°	2375.7	2379.9	2355.0	2314.4	2297.2	2302.2	2299.4	2285.1	2230.2	2133.3	1996.5
25°	2340.0	2340.0	2325.0	2290.8	2302.2	2332.9	2333.6	2330.7	2287.3	2203.2	2072.0
27.5°	2338.6	2334.3	2317.2	2291.5	2322.9	2370.0	2372.8	2392.0	2365.0	2288.0	2166.1
30°	2395.6	2390.6	2354.3	2320.8	2360.7	2411.3	2418.4	2460.5	2446.9	2379.9	2270.9
32.5°	2528.9	2511.1	2430.5	2375.7	2405.6	2466.2	2475.4	2542.4	2563.8	2493.3	2372.1
35°	2711.4	2655.1	2538.9	2479.7	2482.6	2546.0	2554.6	2652.9	2716.4	2597.3	2450.5
37.5°	2963.0	2935.2	2746.3	2588.1	2600.9	2697.1	2722.1	2829.0	2811.2	2654.3	2539.6
40°	3514.7	3471.2	3270.2	2891.7	2714.2	2819.7	2827.5	2884.6	2886.0	2783.4	2724.9
42.5°	4265.9	4248.1	4036.4	3442.7	2937.3	2901.7	2915.9	3012.2	3119.8	3055.6	3052.8
45°	5097.7	5088.4	4863.9	4174.0	3388.5	3170.4	3188.2	3317.2	3523.2	3537.5	3628.0
47.5°	5767.0	5762.7	5633.7	4990.1	4079.2	3625.8	3631.5	3768.4	4130.5	4309.4	4454.1
50°	6377.1	6397.8	6295.9	5873.2	5020.0	4339.3	4325.8	4417.0	4998.6	5291.6	5471.2
52.5°	7225.3	7254.5	6968.7	6697.2	6007.2	5224.6	5213.9	5309.4	6042.1	6261.7	6293.7
55°	7974.4	7924.5	7698.6	7620.2	7211.1	6318.0	6315.1	6399.2	7051.4	7144.8	7203.9
57.5°	8305.2	8285.9	8395.0	8574.6	8472.0	7610.2	7603.8	7539.7	7954.5	7964.5	8146.2
60°	8514.0	8537.5	8871.8	9425.6	9681.5	9000.8	8959.5	8568.2	8816.9	8794.8	8989.4
62.5°	8357.2	8403.5	9005.1	9928.1	10586.7	10214.7	10156.2	9510.5	9553.9	9477.7	9658.7
65°	7524.7	7596.7	8582.4	9833.3	11035.8	11163.4	11104.2	10342.3	10139.1	10013.7	9913.2
67.5°	6109.8	6152.6	7181.8	9008.7	10833.3	11729.3	11717.2	11071.4	10581.0	9923.1	9143.4
69°	5049.2	5091.3	6082.0	8140.5	10387.9	11850.5	11874.0	11305.2	10496.9	9372.9	8101.3
70°	4276.6	4321.5	5244.5	7396.4	9871.1	11794.2	11836.2	11283.1	10256.0	8735.7	7186.8
72.5°	2243.1	2281.6	3228.8	5095.6	8047.1	10829.8	10957.4	10329.4	8693.6	6344.3	4249.5
75°	704.9	727.0	1260.9	2663.6	5509.7	8420.6	8449.9	8102.7	6173.3	3489.7	1769.8
77.5°	268.7	262.3	419.8	981.5	2785.5	5302.3	5481.2	5063.5	3239.5	1233.8	408.4
80°	144.7	145.4	218.1	406.3	1191.7	2724.9	2876.0	2454.1	1151.1	384.9	94.1
82.5°	62.7	65.6	122.6	215.3	547.4	1005.0	1080.6	899.5	439.8	258.7	34.9
85°	13.5	15.0	59.2	116.9	223.1	282.3	295.8	291.5	280.1	201.0	13.5
87.5°	0.0	0.0	26.4	42.1	56.3	64.1	56.3	73.4	154.7	135.4	7.1
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°	1523.2	1523.2	1523.2	1523.2	1523.2	1523.2	1523.2	1523.2	1523.2	1523.2	1523.2
2.5°	1524.6	1511.8	1489.7	1465.4	1448.3	1430.5	1416.3	1409.9	1402.7	1397.7	1404.2
5°	1521.8	1496.8	1454.0	1412.7	1382.8	1358.5	1338.6	1330.7	1322.9	1317.2	1316.5
7.5°	1546.7	1511.8	1446.2	1385.6	1339.3	1306.5	1279.4	1268.0	1258.7	1254.5	1250.9
10°	1594.5	1549.6	1461.9	1382.8	1322.9	1267.3	1208.9	1163.9	1134.7	1121.2	1116.2
12.5°	1656.5	1600.2	1491.8	1397.7	1310.8	1203.9	1079.8	972.9	903.8	881.0	867.4
15°	1729.2	1659.3	1531.0	1417.0	1266.6	1071.3	861.0	721.3	657.2	644.3	630.1
17.5°	1799.0	1722.0	1578.1	1420.5	1169.7	856.0	630.8	536.0	511.1	519.6	521.7
20°	1860.3	1784.1	1624.4	1389.2	993.6	642.2	488.2	464.7	474.0	490.4	493.2
22.5°	1922.3	1843.9	1667.2	1306.5	768.4	487.5	439.8	445.5	454.7	471.1	474.0
25°	1997.9	1916.6	1707.1	1154.7	576.6	414.8	417.7	426.2	435.5	450.5	451.9
27.5°	2084.8	2008.6	1733.4	957.2	427.7	381.3	390.6	403.4	412.7	426.9	429.8
30°	2200.3	2129.7	1742.0	752.7	358.5	351.4	355.7	371.4	384.9	397.7	399.9
32.5°	2308.7	2249.5	1713.5	568.1	332.1	323.6	323.6	332.9	348.5	360.7	363.5
35°	2408.4	2370.0	1622.3	415.5	312.2	297.9	290.8	290.8	300.8	310.8	313.6
37.5°	2540.3	2538.9	1474.7	331.4	292.9	276.6	261.6	250.2	246.6	248.8	250.2
40°	2766.2	2768.4	1282.3	297.2	276.6	254.5	231.6	211.0	191.7	185.3	184.6
42.5°	3119.1	3087.0	1080.6	280.8	262.3	231.6	197.4	169.6	139.7	130.4	129.7
45°	3679.3	3489.0	866.7	265.9	247.3	206.0	163.2	125.4	101.2	94.1	94.1
47.5°	4495.4	4017.2	671.4	249.5	227.4	176.8	123.3	90.5	74.1	70.6	71.3
50°	5339.3	4534.6	514.6	228.8	203.1	146.1	91.2	65.6	56.3	56.3	57.0
52.5°	6087.7	4913.8	401.3	206.7	173.2	114.8	69.1	51.3	47.0	46.3	47.0
55°	6788.4	5158.3	307.2	181.0	137.6	85.5	52.7	42.1	39.2	37.8	37.1
57.5°	7464.1	5279.5	230.2	146.1	99.8	62.0	42.1	35.6	32.8	30.6	29.9
60°	7913.9	5181.1	158.2	107.6	69.1	44.9	34.9	30.6	27.1	24.9	24.2
62.5°	8167.6	4912.4	101.9	77.7	49.2	33.5	27.8	25.7	20.7	18.5	18.5
65°	8065.0	4469.1	71.3	55.6	35.6	24.9	20.7	20.7	15.0	12.1	11.4
67.5°	7146.9	3775.5	54.2	41.3	25.7	18.5	15.7	17.8	9.3	5.7	5.7
69°	6149.0	3129.0	46.3	34.2	21.4	15.0	13.5	16.4	6.4	4.3	3.6
70°	5344.3	2699.2	42.1	29.9	17.8	12.8	12.1	15.7	6.4	3.6	2.9
72.5°	3197.5	1505.4	32.1	21.4	11.4	10.0	10.0	17.8	6.4	3.6	2.9
75°	1292.2	530.3	23.5	15.0	8.6	8.6	12.1	22.8	5.7	2.9	2.1
77.5°	292.9	116.2	13.5	9.3	5.7	8.6	14.3	17.8	3.6	1.4	0.0
80°	71.3	28.5	8.6	5.7	3.6	6.4	10.7	10.0	0.7	0.0	0.0
82.5°	23.5	10.0	3.6	2.9	0.7	2.1	5.0	2.9	0.0	0.0	0.0
85°	10.0	5.7	1.4	0.7	0.0	0.0	0.7	0.0	0.0	0.0	0.0
87.5°	6.4	2.1	0.0	0.0	0.0	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)