

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: P322718

Luminaire Tested: **GAN-SA4B-830-U-T4FT-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322718
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-17)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA4B-830-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13008 lumens
Efficiency: N/A
Efficacy: 76.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

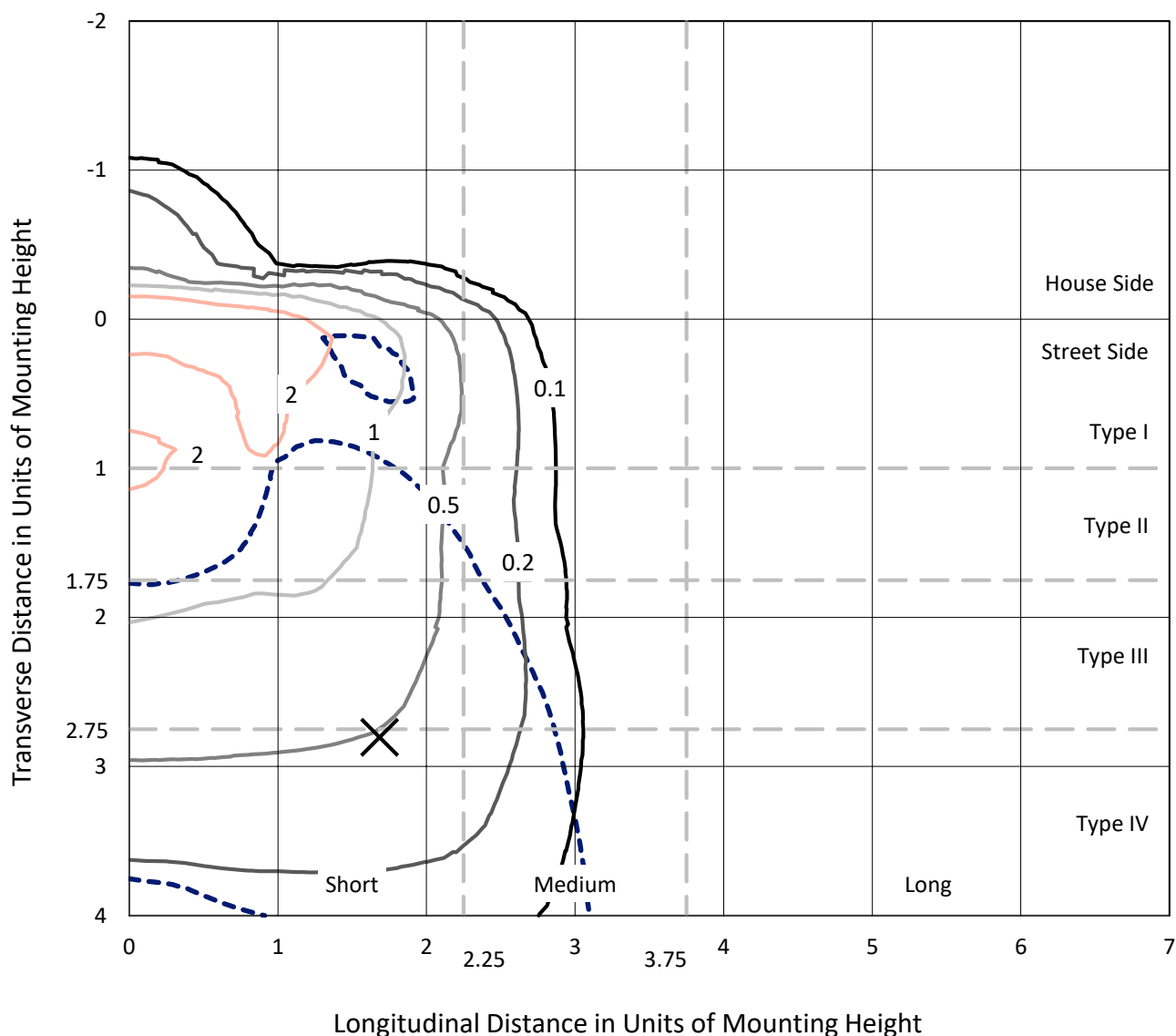
Input Watts (W): 171
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

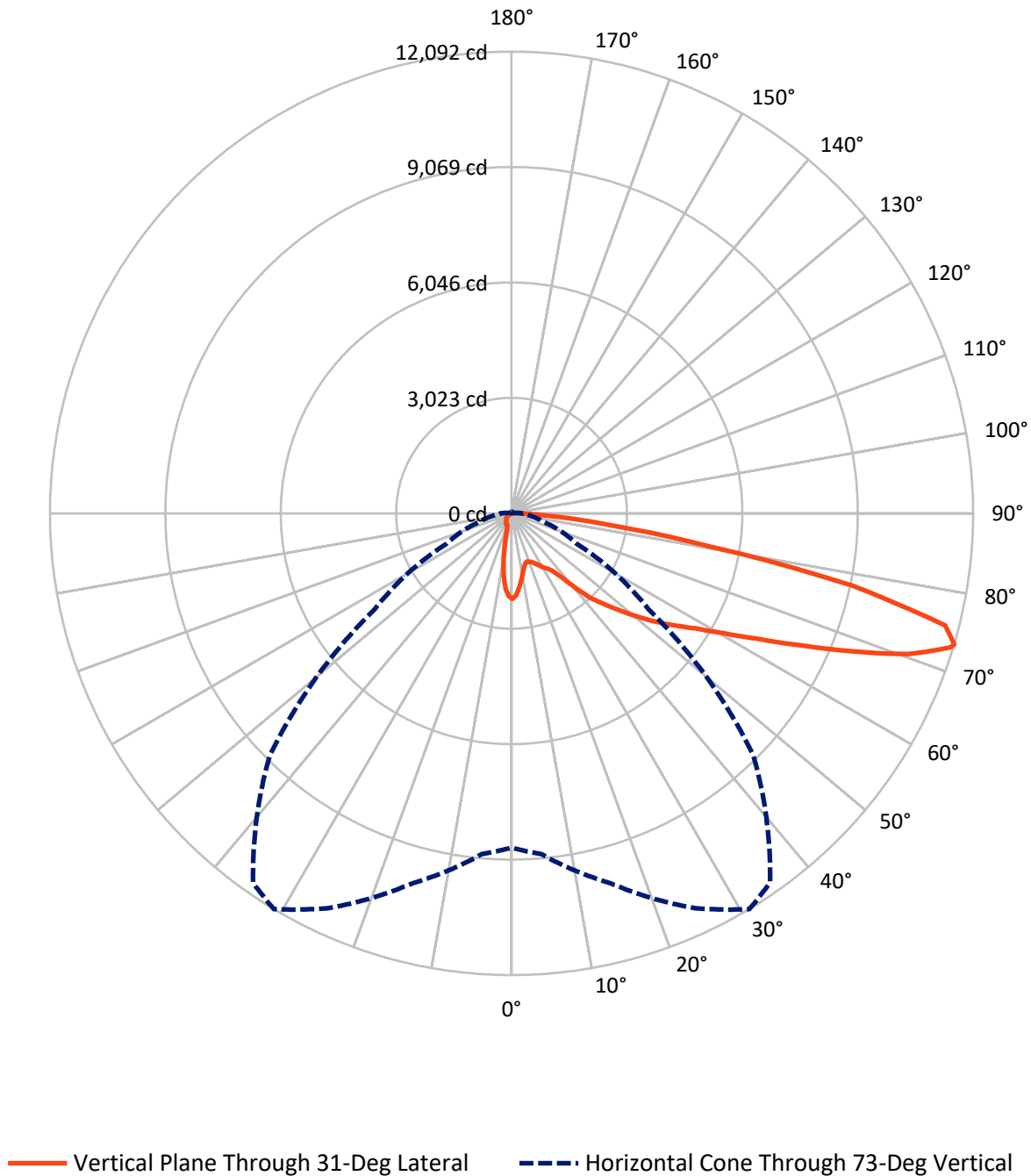
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.6 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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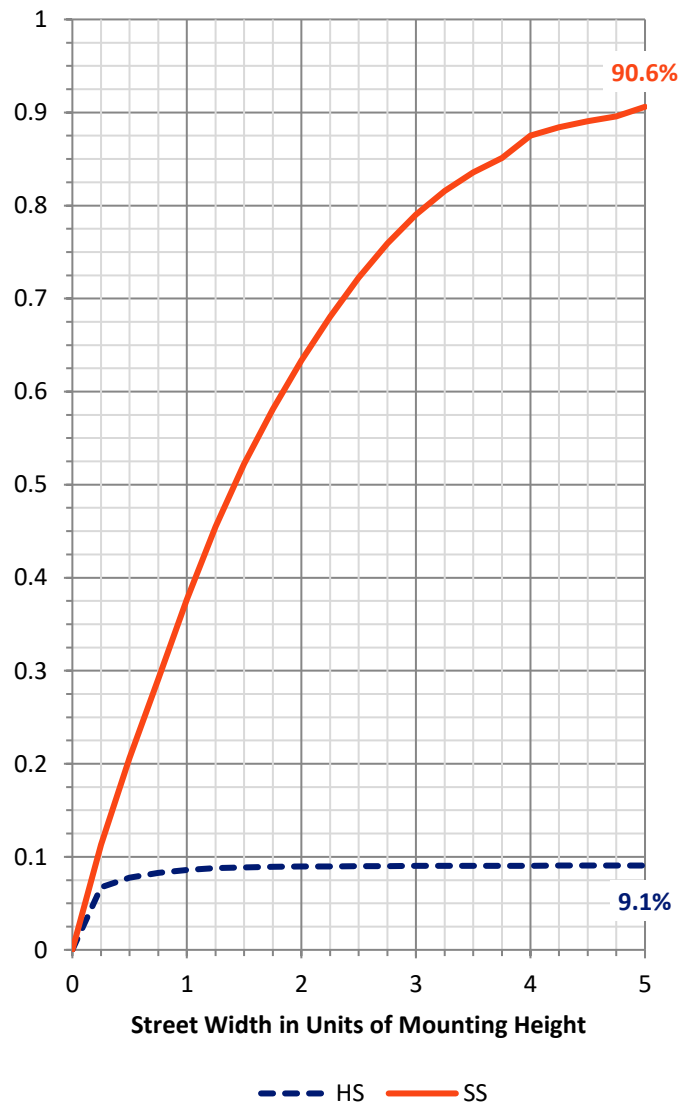
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1185.7	0.0	1185.7
	% Fixture	9.1	0.0	9.1
Street Side	Lumens	11822.3	0.0	11822.3
	% Fixture	90.9	0.0	90.9
Total	Lumens	13008.0	0.0	13008.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	185.6	1.4
10°-20°	402.9	3.1
20°-30°	603.7	4.6
30°-40°	960.5	7.4
40°-50°	1715.1	13.2
50°-60°	2661.4	20.5
60°-70°	3537.9	27.2
70°-80°	2661.3	20.5
80°-90°	279.6	2.1
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°	13008.0	100.0
0°-180°	13008.0	100.0

Coefficient of Utilization



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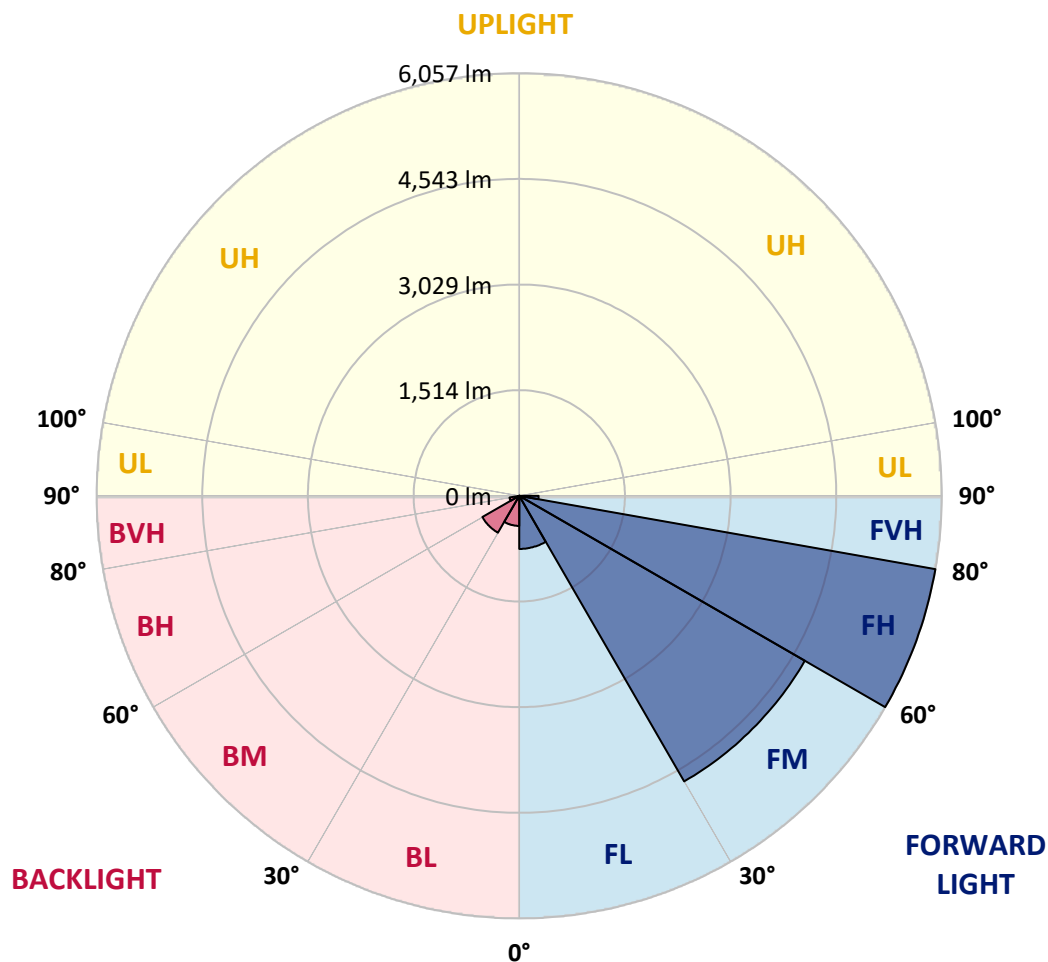
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	761.0	5.9			
FM	(30°-60°)	4726.7	36.3			
FH	(60°-80°)	6057.3	46.6			G3/7500
FVH	(80°-90°)	277.3	2.1			G3/500
BL	(0°-30°)	431.2	3.3	B1/500		
BM	(30°-60°)	610.3	4.7	B1/1000		
BH	(60°-80°)	141.9	1.1	B1/500		G1/500
BVH	(80°-90°)	2.4	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°	31°	35°	45°	55°	65°	75°	85°
0°	2238.1	2238.1	2238.1	2238.1	2238.1	2238.1	2238.1	2238.1	2238.1	2238.1	2238.1
2.5°	2120.9	2129.8	2139.4	2141.3	2157.2	2157.8	2180.8	2198.0	2215.1	2231.7	2237.4
5°	1903.2	1917.9	1935.1	1952.2	1986.0	1999.4	2055.4	2112.7	2167.4	2219.6	2245.1
7.5°	1670.9	1687.5	1711.6	1754.3	1791.8	1817.9	1906.4	2008.3	2110.1	2206.2	2261.6
10°	1458.9	1474.2	1499.7	1544.9	1602.8	1638.4	1757.5	1898.8	2048.4	2194.1	2286.4
12.5°	1324.0	1332.3	1346.3	1394.6	1446.8	1486.9	1627.0	1802.0	1997.4	2193.5	2326.5
15°	1299.2	1301.7	1290.3	1311.9	1352.6	1391.5	1533.4	1723.7	1958.6	2203.7	2378.7
17.5°	1338.6	1337.4	1299.2	1296.6	1329.1	1360.9	1487.6	1669.6	1931.2	2227.2	2446.2
20°	1398.5	1394.0	1327.8	1315.7	1350.1	1380.0	1484.4	1649.3	1921.1	2266.7	2528.3
22.5°	1478.0	1470.4	1366.6	1353.9	1390.8	1422.0	1523.9	1669.0	1930.0	2319.5	2623.8
25°	1576.7	1565.2	1433.5	1419.5	1457.0	1488.2	1594.5	1725.6	1956.7	2383.8	2744.7
27.5°	1688.1	1671.5	1540.4	1504.1	1546.8	1579.2	1688.7	1812.2	1998.7	2451.9	2893.0
30°	1793.1	1771.5	1653.1	1593.2	1645.4	1681.7	1790.6	1915.3	2066.2	2557.0	3096.1
32.5°	1898.8	1874.6	1753.7	1682.4	1729.5	1768.9	1895.6	2057.3	2192.9	2717.4	3366.0
35°	2141.9	2116.5	1968.2	1850.4	1849.8	1872.0	2042.6	2251.4	2360.3	2940.8	3688.1
37.5°	2551.2	2536.6	2395.3	2171.9	2112.0	2087.2	2243.1	2483.1	2600.9	3248.2	4051.5
40°	2999.3	2986.6	2828.1	2625.7	2534.7	2473.6	2530.9	2805.8	2940.8	3623.8	4422.6
42.5°	3505.4	3444.9	3162.3	3101.8	3020.4	2973.9	2922.3	3203.7	3358.4	4032.4	4790.6
45°	3965.0	3863.1	3496.5	3404.8	3386.4	3397.8	3426.5	3738.4	3828.1	4518.1	5157.2
47.5°	4238.7	4158.5	3877.1	3789.3	3784.2	3859.9	4076.4	4342.4	4296.0	4941.4	5479.9
50°	4499.0	4426.5	4192.8	4214.5	4238.0	4341.2	4814.1	4963.7	4723.1	5325.2	5775.9
52.5°	4709.7	4599.0	4476.7	4598.3	4714.2	4880.3	5575.4	5521.3	5026.1	5630.8	6029.2
55°	4831.3	4781.0	4840.2	4962.4	5180.1	5450.0	6294.0	5985.3	5247.6	5909.6	6197.9
57.5°	5276.9	5178.2	5296.0	5401.6	5685.5	6063.0	6909.6	6331.0	5407.4	6082.1	6236.8
60°	5816.0	5736.4	5805.8	5981.5	6364.7	6808.4	7485.0	6613.0	5490.7	6192.8	6136.2
62.5°	6674.1	6569.0	6525.7	6722.4	7230.4	7714.8	7921.7	6808.4	5472.3	6143.8	5791.2
65°	7823.6	7714.8	7521.3	7699.5	8345.6	8687.4	8409.9	6849.7	5345.0	5747.3	4919.1
67.5°	9001.2	8922.3	8756.8	9057.2	9640.3	9750.4	8926.1	6749.2	4935.0	4660.1	3475.5
70°	9779.1	9745.3	9852.9	10517.4	11037.5	11005.7	9399.7	6208.8	3846.6	2865.7	1719.3
72.5°	9218.3	9380.0	10174.4	11379.3	12014.6	11754.9	9156.5	4767.6	2198.6	1102.5	497.1
73°	8753.6	8960.5	10029.9	11411.8	12091.6	11807.1	8952.2	4376.2	1874.0	870.1	376.8
75°	6089.7	6343.7	8303.6	10628.2	11731.3	11249.5	7462.1	2678.5	868.2	385.7	152.1
77.5°	2956.7	3144.5	4572.2	7679.1	9123.4	8789.3	4645.4	998.1	392.1	241.2	70.0
80°	1103.7	1227.2	1984.7	3908.3	5272.4	5410.5	2043.3	377.5	261.0	194.1	35.6
82.5°	289.0	322.1	732.0	1742.8	2702.1	2828.1	644.2	190.3	191.0	159.8	21.6
85°	92.3	105.7	228.5	782.3	1273.1	1117.8	168.0	92.3	138.8	119.0	12.1
87.5°	11.5	14.6	72.6	184.0	280.7	156.0	26.1	27.4	59.2	66.2	7.0
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°	2238.1	2238.1	2238.1	2238.1	2238.1	2238.1	2238.1	2238.1	2238.1	2238.1	2238.1
2.5°	2243.1	2240.0	2240.6	2224.0	2213.2	2191.6	2169.3	2159.1	2148.3	2143.8	2148.3
5°	2254.6	2248.9	2232.3	2181.4	2127.3	2057.3	1991.7	1942.1	1879.7	1862.5	1880.3
7.5°	2272.4	2261.0	2212.6	2108.8	1988.5	1854.9	1704.6	1595.2	1505.4	1447.5	1468.5
10°	2298.5	2276.9	2179.5	2003.2	1788.0	1551.2	1338.0	1171.9	1054.1	1005.7	1003.8
12.5°	2342.4	2301.7	2138.8	1865.7	1543.0	1227.2	947.8	767.7	672.2	610.4	609.2
15°	2390.8	2331.0	2087.2	1700.8	1257.8	879.1	610.4	473.6	411.8	392.1	389.6
17.5°	2450.0	2364.7	2020.4	1497.8	959.3	582.4	398.5	359.0	356.5	354.5	354.5
20°	2524.5	2404.8	1934.4	1265.4	680.5	388.9	338.6	341.2	342.5	339.9	340.5
22.5°	2611.1	2445.6	1831.9	1015.9	460.2	325.3	324.0	327.2	328.5	327.2	327.8
25°	2711.6	2492.7	1707.2	754.3	332.3	308.7	311.9	316.4	319.5	319.5	319.5
27.5°	2836.4	2550.0	1557.0	526.4	287.1	291.5	300.4	308.7	313.2	314.4	314.4
30°	2998.7	2621.2	1376.8	360.9	261.0	268.6	285.2	301.1	309.4	310.6	311.3
32.5°	3203.7	2701.4	1168.0	266.7	238.7	244.4	262.3	289.0	304.9	307.4	307.4
35°	3438.6	2794.4	943.3	232.3	222.8	224.7	238.7	269.3	297.3	304.3	304.9
37.5°	3695.7	2886.0	717.4	217.1	209.4	209.4	219.6	245.7	278.8	300.4	303.0
40°	3935.7	2941.4	502.9	205.0	197.3	197.3	206.2	225.3	256.5	289.0	296.0
42.5°	4157.2	2960.5	350.1	193.5	185.9	187.8	195.4	210.7	234.2	266.7	273.1
45°	4385.1	2957.3	255.3	180.1	174.4	180.1	185.9	197.3	214.5	233.0	234.2
47.5°	4556.9	2930.6	202.4	167.4	163.6	171.2	176.3	184.0	193.5	192.2	192.2
50°	4718.0	2865.7	163.0	150.2	152.8	161.7	164.2	166.8	167.4	155.3	154.0
52.5°	4840.2	2764.5	130.5	131.8	141.9	150.9	148.3	144.5	138.1	123.5	120.9
55°	4880.9	2569.7	102.5	108.8	126.0	137.5	127.9	119.7	107.6	95.5	92.9
57.5°	4807.1	2318.3	83.4	84.7	106.3	115.8	105.0	95.5	82.1	71.9	70.0
60°	4650.5	2038.8	68.7	63.7	82.1	90.4	83.4	73.8	61.7	54.1	53.5
62.5°	4339.9	1740.9	56.7	49.6	62.4	69.4	64.9	57.9	47.7	42.6	42.0
65°	3686.8	1392.7	45.8	40.1	48.4	54.1	50.3	45.2	37.6	33.7	33.1
67.5°	2573.5	941.4	37.6	33.1	38.2	42.6	39.5	36.9	29.9	29.3	29.9
70°	1241.2	453.8	31.2	26.7	29.9	33.1	31.8	29.9	28.6	33.1	38.2
72.5°	355.8	152.1	24.8	22.3	24.2	26.1	27.4	26.7	31.2	40.1	46.5
73°	273.7	122.9	23.6	21.0	22.9	25.5	26.7	26.1	31.8	40.7	46.5
75°	117.1	59.2	17.8	17.2	19.1	22.3	23.6	23.6	31.8	41.4	44.6
77.5°	52.8	31.8	11.5	13.4	16.5	17.8	19.7	19.7	25.5	31.8	31.8
80°	29.9	17.2	8.9	10.2	12.1	12.1	12.1	10.8	11.5	12.7	14.0
82.5°	19.1	11.5	7.0	8.3	7.6	6.4	5.1	5.1	4.5	5.1	6.4
85°	10.8	6.4	6.4	5.1	3.2	2.5	3.2	2.5	0.6	0.0	0.6
87.5°	6.4	3.8	1.9	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)