

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: P322628

Luminaire Tested: **GAN-SA4A-760-U-T4FT-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322628
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-SA4A-760-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 5700K, 615mA 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: 13350 lumens
Efficiency: N/A
Efficacy: 103.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

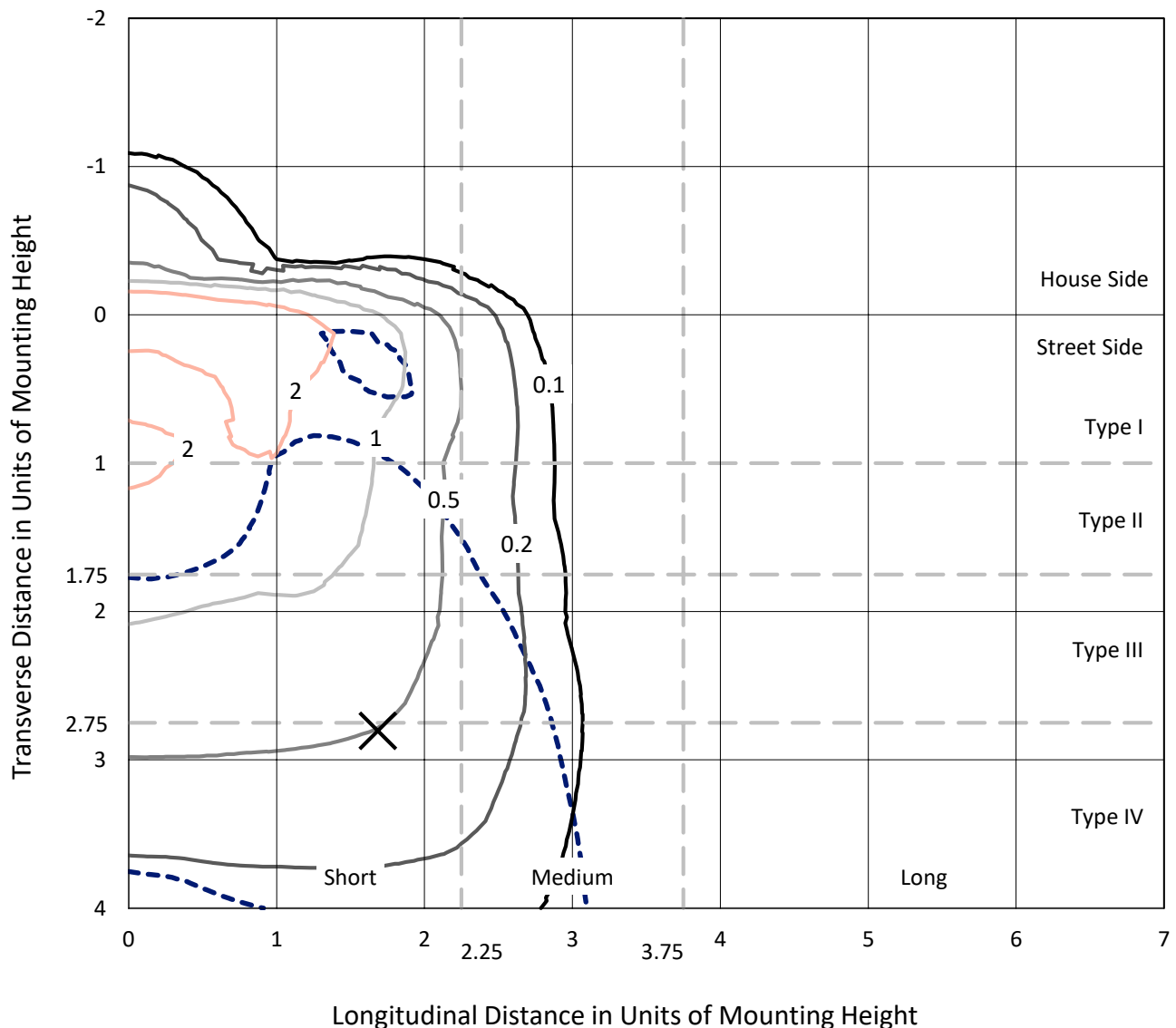
Input Watts (W): 129
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

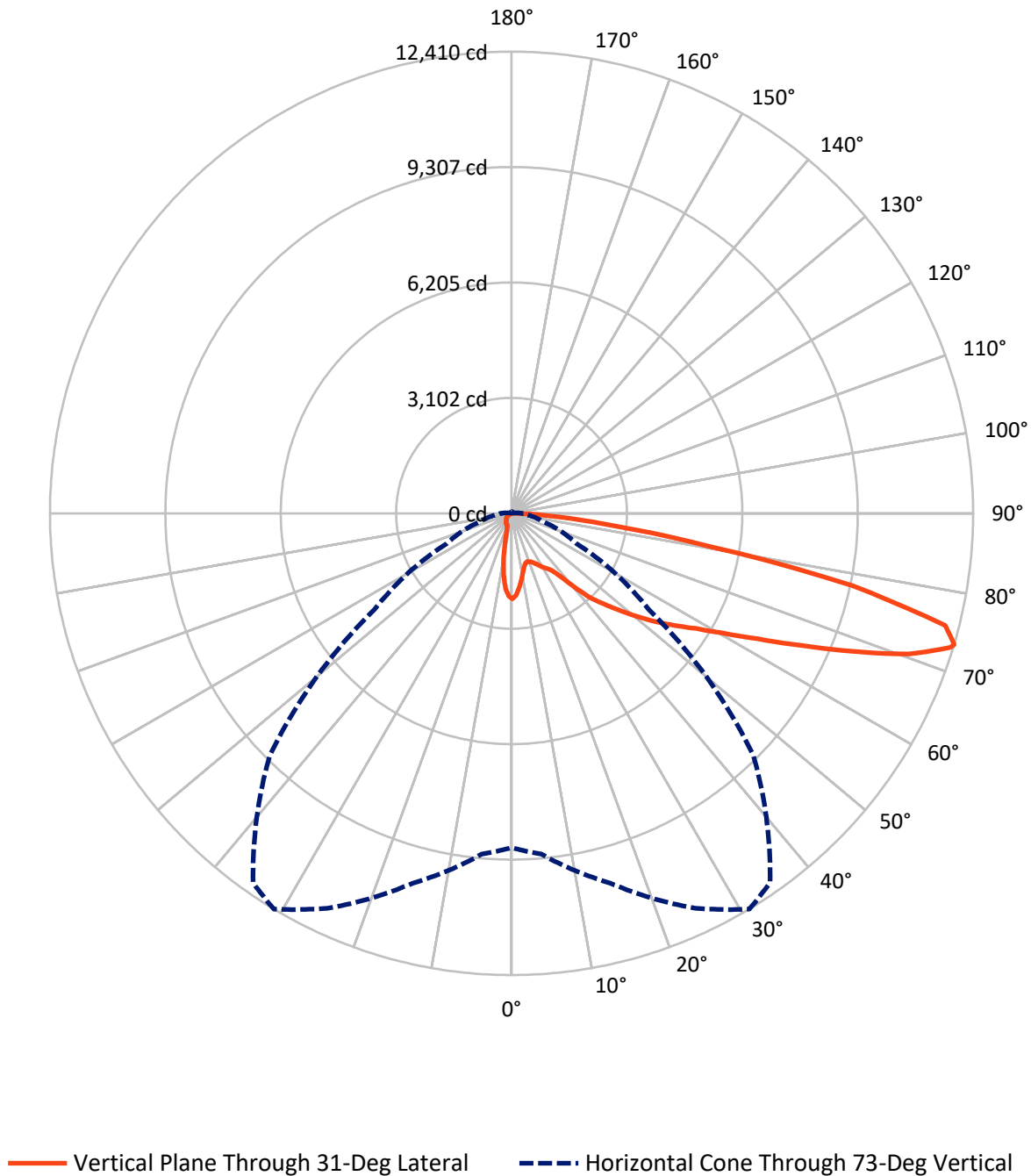
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.7 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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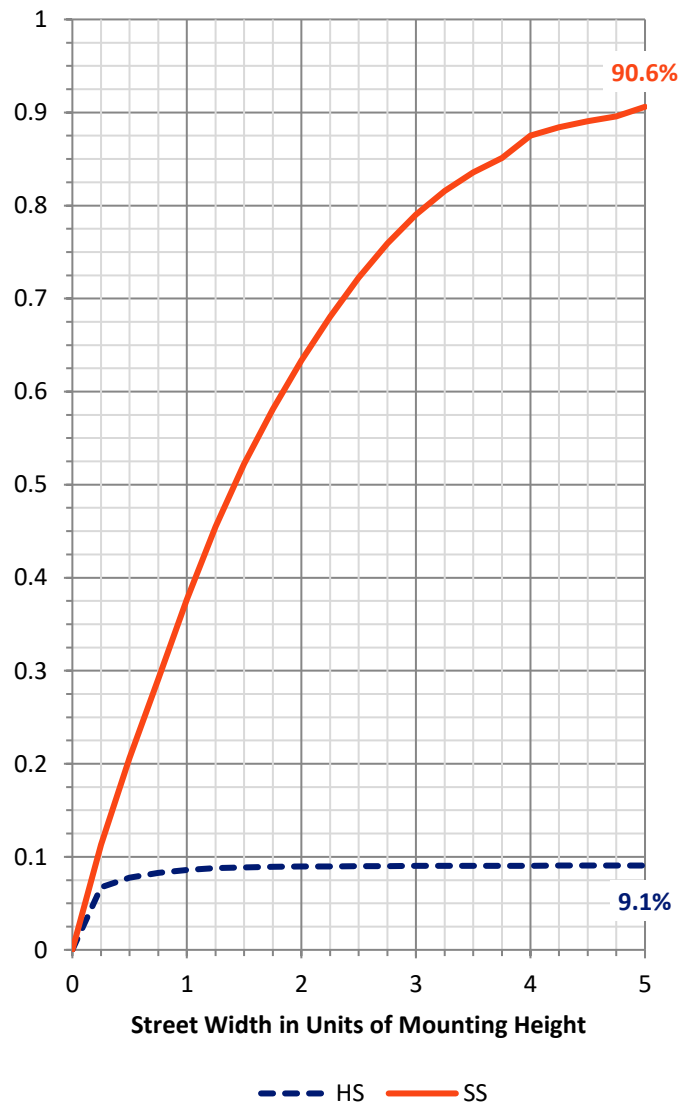
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1216.9	0.0	1216.9
	% Fixture	9.1	0.0	9.1
Street Side	Lumens	12133.1	0.0	12133.1
	% Fixture	90.9	0.0	90.9
Total	Lumens	13350.0	0.0	13350.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	190.4	1.4
10°-20°	413.5	3.1
20°-30°	619.6	4.6
30°-40°	985.7	7.4
40°-50°	1760.2	13.2
50°-60°	2731.4	20.5
60°-70°	3631.0	27.2
70°-80°	2731.2	20.5
80°-90°	287.0	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°	13350.0	100.0
0°-180°	13350.0	100.0

Coefficient of Utilization



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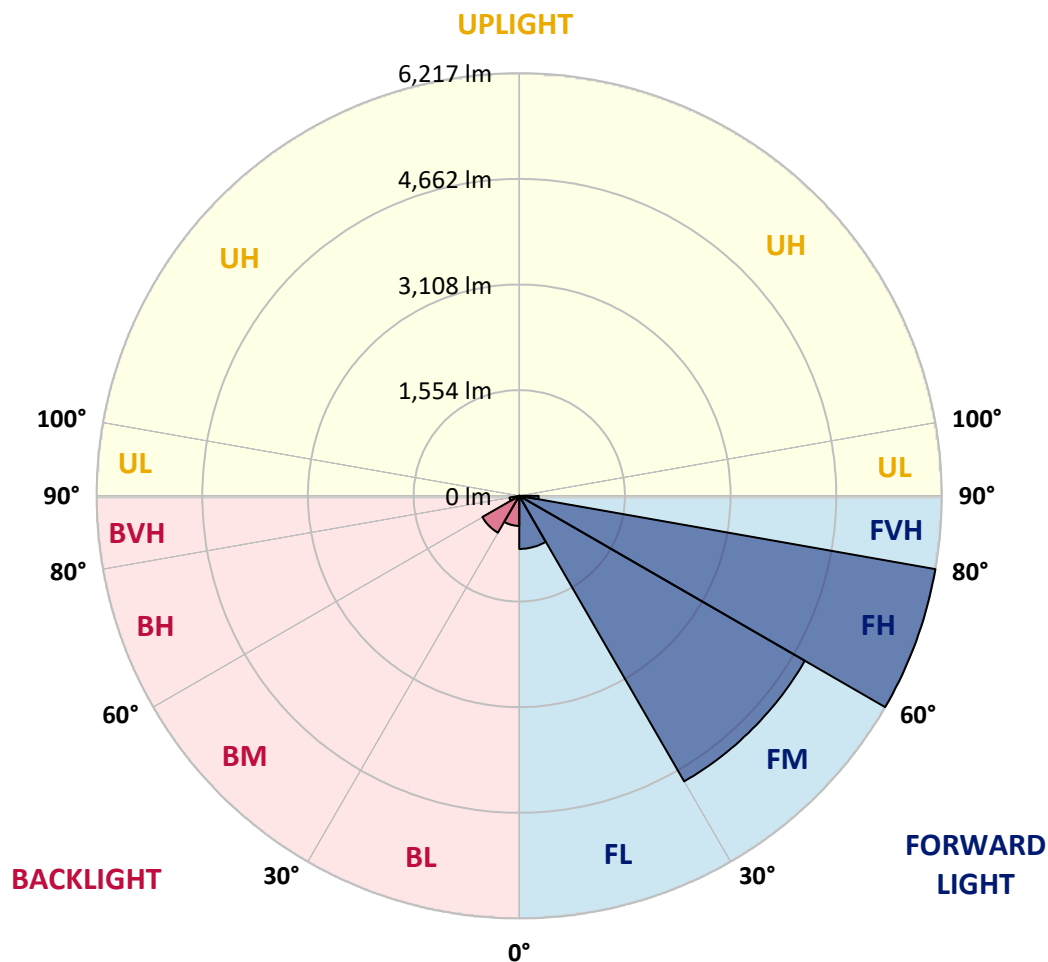
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	781.0	5.9			
FM	(30°-60°)	4850.9	36.3			
FH	(60°-80°)	6216.6	46.6			G3/7500
FVH	(80°-90°)	284.6	2.1			G3/500
BL	(0°-30°)	442.5	3.3	B1/500		
BM	(30°-60°)	626.4	4.7	B1/1000		
BH	(60°-80°)	145.6	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°	2296.9	2296.9	2296.9	2296.9	2296.9	2296.9	2296.9	2296.9	2296.9	2296.9	2296.9
2.5°	2176.7	2185.8	2195.6	2197.6	2213.9	2214.6	2238.1	2255.7	2273.4	2290.4	2296.2
5°	1953.3	1968.3	1985.9	2003.6	2038.2	2051.9	2109.4	2168.2	2224.4	2278.0	2304.1
7.5°	1714.8	1731.8	1756.6	1800.4	1839.0	1865.7	1956.5	2061.1	2165.6	2264.2	2321.1
10°	1497.3	1513.0	1539.1	1585.5	1644.9	1681.5	1803.7	1948.7	2102.2	2251.8	2346.5
12.5°	1358.8	1367.3	1381.7	1431.3	1484.9	1526.0	1669.8	1849.4	2050.0	2251.2	2387.7
15°	1333.3	1335.9	1324.2	1346.4	1388.2	1428.0	1573.7	1769.1	2010.1	2261.6	2441.3
17.5°	1373.8	1372.5	1333.3	1330.7	1364.0	1396.7	1526.7	1713.5	1982.0	2285.8	2510.5
20°	1435.2	1430.7	1362.7	1350.3	1385.6	1416.3	1523.4	1692.6	1971.6	2326.3	2594.8
22.5°	1516.9	1509.1	1402.6	1389.5	1427.4	1459.4	1563.9	1712.9	1980.7	2380.5	2692.8
25°	1618.1	1606.4	1471.2	1456.8	1495.3	1527.3	1636.4	1771.0	2008.1	2446.5	2816.9
27.5°	1732.5	1715.5	1580.9	1543.7	1587.4	1620.8	1733.1	1859.9	2051.3	2516.4	2969.1
30°	1840.3	1818.0	1696.5	1635.1	1688.7	1725.9	1837.6	1965.7	2120.5	2624.2	3177.5
32.5°	1948.7	1923.9	1799.8	1726.6	1774.9	1815.4	1945.4	2111.4	2250.5	2788.8	3454.5
35°	2198.3	2172.1	2019.9	1899.1	1898.4	1921.3	2096.3	2310.6	2422.3	3018.1	3785.0
37.5°	2618.3	2603.3	2458.3	2229.0	2167.5	2142.1	2302.1	2548.4	2669.3	3333.6	4158.1
40°	3078.2	3065.1	2902.5	2694.7	2601.3	2538.6	2597.4	2879.6	3018.1	3719.1	4538.9
42.5°	3597.6	3535.5	3245.4	3183.4	3099.8	3052.1	2999.2	3287.9	3446.6	4138.5	4916.5
45°	4069.2	3964.7	3588.4	3494.3	3475.4	3487.2	3516.5	3836.7	3928.8	4636.9	5292.8
47.5°	4350.1	4267.8	3979.1	3888.9	3883.7	3961.4	4183.5	4456.6	4408.9	5071.3	5624.0
50°	4617.3	4542.8	4303.1	4325.3	4349.5	4455.3	4940.7	5094.2	4847.3	5465.3	5927.8
52.5°	4833.5	4719.9	4594.4	4719.2	4838.1	5008.6	5722.0	5666.5	5158.2	5778.8	6187.8
55°	4958.3	4906.7	4967.5	5092.9	5316.3	5593.3	6459.5	6142.7	5385.6	6065.0	6360.9
57.5°	5415.6	5314.3	5435.2	5543.6	5835.0	6222.4	7091.2	6497.4	5549.5	6242.0	6400.7
60°	5968.9	5887.3	5958.5	6138.8	6532.0	6987.4	7681.8	6786.8	5635.1	6355.7	6297.5
62.5°	6849.5	6741.7	6697.3	6899.2	7420.5	7917.6	8129.9	6987.4	5616.2	6305.4	5943.4
65°	8029.3	7917.6	7719.0	7901.9	8565.0	8915.8	8631.0	7029.8	5485.5	5898.4	5048.5
67.5°	9237.9	9156.9	8987.0	9295.4	9893.8	10006.8	9160.8	6926.6	5064.8	4782.6	3566.9
70°	10036.2	10001.6	10112.0	10794.0	11327.7	11295.0	9646.8	6372.0	3947.7	2941.0	1764.5
72.5°	9460.6	9626.6	10441.9	11678.5	12330.5	12063.9	9397.3	4893.0	2256.4	1131.5	510.2
73°	8983.8	9196.1	10293.6	11711.8	12409.5	12117.5	9187.6	4491.2	1923.2	893.0	386.7
75°	6249.8	6510.5	8521.9	10907.6	12039.8	11545.2	7658.3	2749.0	891.1	395.9	156.1
77.5°	3034.4	3227.2	4692.4	7881.0	9363.3	9020.3	4767.6	1024.3	402.4	247.6	71.9
80°	1132.8	1259.5	2036.9	4011.1	5411.0	5552.8	2097.0	387.4	267.8	199.2	36.6
82.5°	296.6	330.6	751.3	1788.7	2773.1	2902.5	661.1	195.3	196.0	164.0	22.2
85°	94.7	108.4	234.5	802.9	1306.5	1147.1	172.5	94.7	142.4	122.2	12.4
87.5°	11.8	15.0	74.5	188.8	288.1	160.1	26.8	28.1	60.8	67.9	7.2
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°	2296.9	2296.9	2296.9	2296.9	2296.9	2296.9	2296.9	2296.9	2296.9	2296.9	2296.9
2.5°	2302.1	2298.9	2299.5	2282.5	2271.4	2249.2	2226.3	2215.9	2204.8	2200.2	2204.8
5°	2313.9	2308.0	2291.0	2238.8	2183.2	2111.4	2044.1	1993.1	1929.1	1911.5	1929.8
7.5°	2332.2	2320.4	2270.8	2164.3	2040.8	1903.6	1749.5	1637.1	1545.0	1485.5	1507.1
10°	2359.0	2336.7	2236.8	2055.8	1835.0	1592.0	1373.2	1202.7	1081.8	1032.2	1030.2
12.5°	2404.0	2362.2	2195.0	1914.7	1583.5	1259.5	972.7	787.8	689.9	626.5	625.2
15°	2453.7	2392.3	2142.1	1745.5	1290.9	902.2	626.5	486.0	422.7	402.4	399.8
17.5°	2514.4	2426.9	2073.5	1537.1	984.5	597.7	408.9	368.4	365.8	363.9	363.9
20°	2590.9	2468.1	1985.3	1298.7	698.3	399.1	347.5	350.2	351.5	348.8	349.5
22.5°	2679.7	2509.9	1880.1	1042.6	472.3	333.8	332.5	335.8	337.1	335.8	336.4
25°	2782.9	2558.2	1752.1	774.1	341.0	316.8	320.1	324.7	327.9	327.9	327.9
27.5°	2911.0	2617.0	1597.9	540.3	294.6	299.2	308.3	316.8	321.4	322.7	322.7
30°	3077.6	2690.2	1413.0	370.4	267.8	275.7	292.7	309.0	317.5	318.8	319.4
32.5°	3287.9	2772.5	1198.7	273.7	245.0	250.9	269.1	296.6	312.9	315.5	315.5
35°	3529.0	2867.9	968.1	238.4	228.6	230.6	245.0	276.3	305.1	312.3	312.9
37.5°	3792.9	2961.9	736.2	222.8	214.9	214.9	225.4	252.2	286.1	308.3	311.0
40°	4039.2	3018.8	516.1	210.4	202.5	202.5	211.7	231.3	263.3	296.6	303.8
42.5°	4266.5	3038.4	359.3	198.6	190.8	192.7	200.6	216.2	240.4	273.7	280.3
45°	4500.4	3035.1	262.0	184.9	179.0	184.9	190.8	202.5	220.2	239.1	240.4
47.5°	4676.8	3007.7	207.7	171.8	167.9	175.7	181.0	188.8	198.6	197.3	197.3
50°	4842.0	2941.0	167.2	154.2	156.8	165.9	168.5	171.2	171.8	159.4	158.1
52.5°	4967.5	2837.1	133.9	135.2	145.7	154.8	152.2	148.3	141.8	126.7	124.1
55°	5009.3	2637.2	105.2	111.7	129.3	141.1	131.3	122.8	110.4	98.0	95.4
57.5°	4933.5	2379.2	85.6	86.9	109.1	118.9	107.8	98.0	84.3	73.8	71.9
60°	4772.8	2092.4	70.6	65.3	84.3	92.8	85.6	75.8	63.4	55.5	54.9
62.5°	4454.0	1786.7	58.1	51.0	64.0	71.2	66.6	59.4	49.0	43.8	43.1
65°	3783.7	1429.4	47.0	41.2	49.6	55.5	51.6	46.4	38.5	34.6	34.0
67.5°	2641.2	966.2	38.5	34.0	39.2	43.8	40.5	37.9	30.7	30.1	30.7
70°	1273.9	465.8	32.0	27.4	30.7	34.0	32.7	30.7	29.4	34.0	39.2
72.5°	365.2	156.1	25.5	22.9	24.8	26.8	28.1	27.4	32.0	41.2	47.7
73°	280.9	126.1	24.2	21.6	23.5	26.1	27.4	26.8	32.7	41.8	47.7
75°	120.2	60.8	18.3	17.6	19.6	22.9	24.2	24.2	32.7	42.5	45.7
77.5°	54.2	32.7	11.8	13.7	17.0	18.3	20.3	20.3	26.1	32.7	32.7
80°	30.7	17.6	9.1	10.5	12.4	12.4	12.4	11.1	11.8	13.1	14.4
82.5°	19.6	11.8	7.2	8.5	7.8	6.5	5.2	5.2	4.6	5.2	6.5
85°	11.1	6.5	6.5	5.2	3.3	2.6	3.3	2.6	0.7	0.0	0.7
87.5°	6.5	3.9	2.0	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)