

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: P322039

Luminaire Tested: **GAN-SA5B-827-U-T2-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322039
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-13)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA5B-827-U-T2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14937 lumens
Efficiency: N/A
Efficacy: 71.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G3

Input Watts (W): 210
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



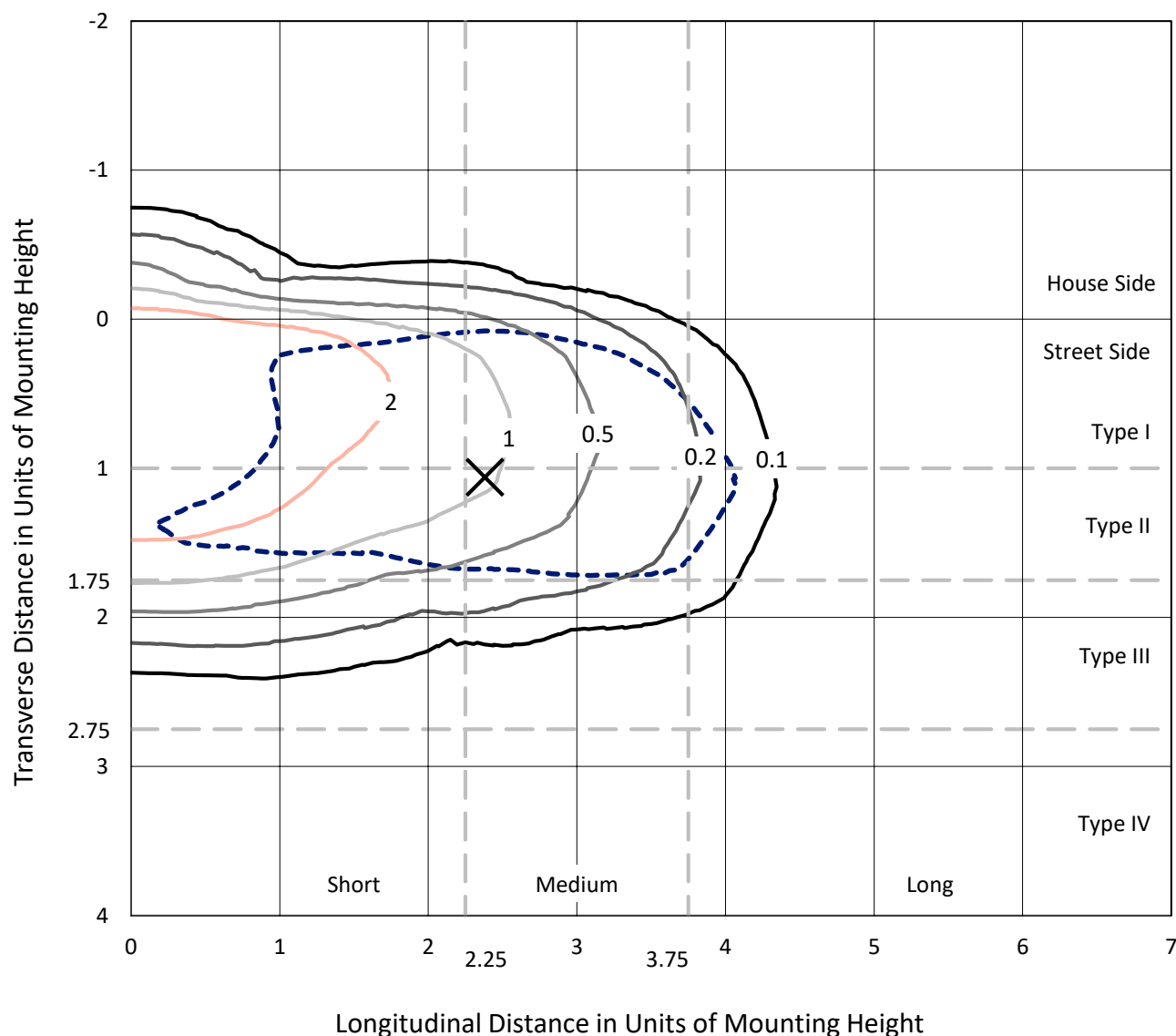
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

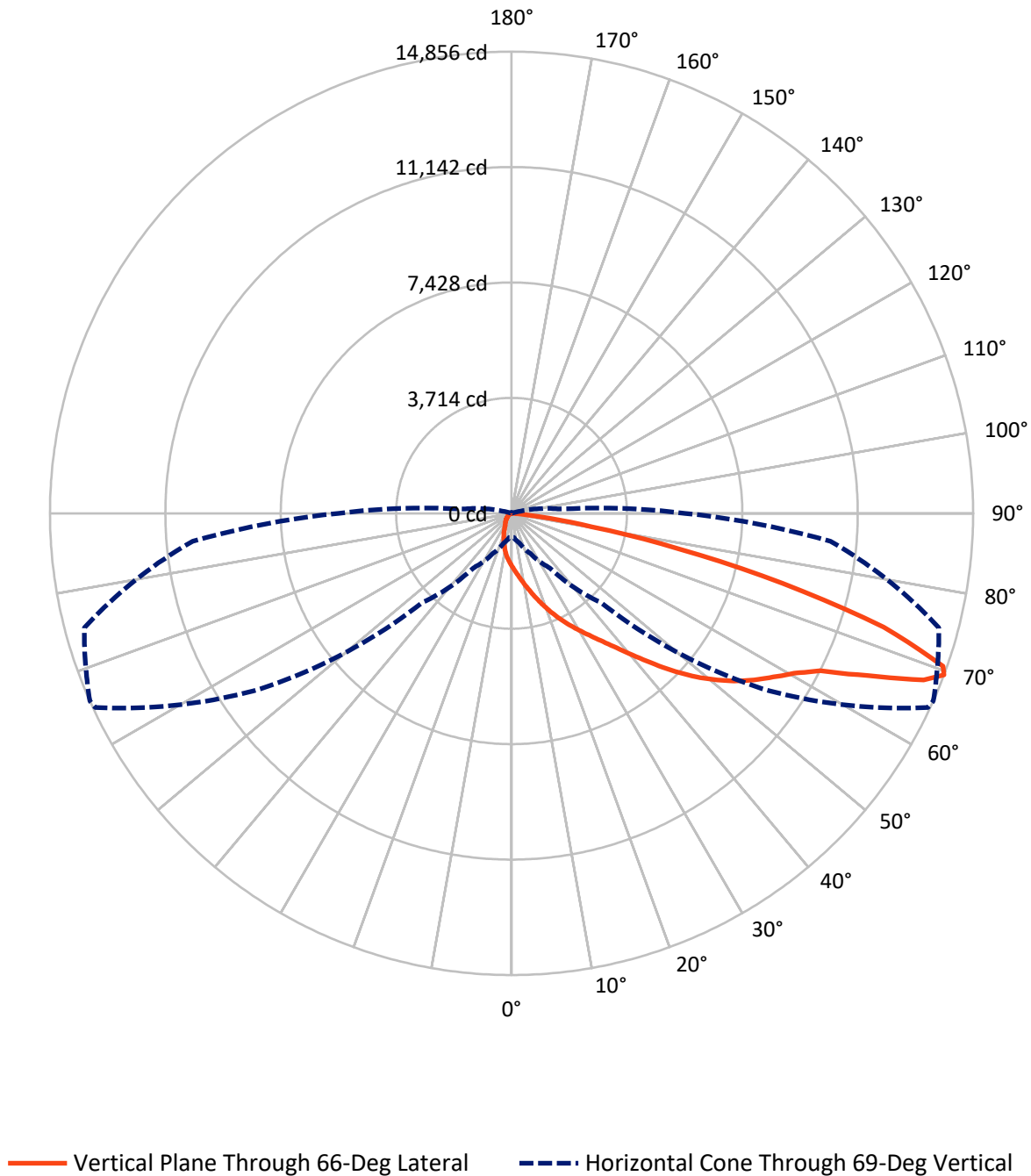
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.5 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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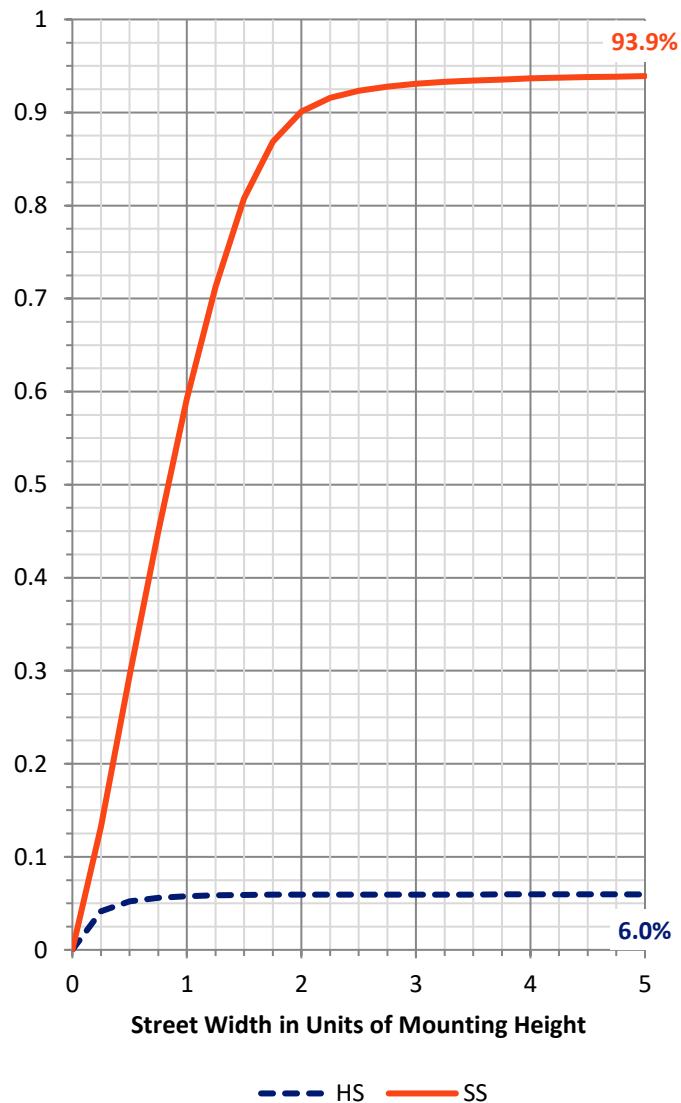
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	896.0	0.0	896.0
	% Fixture	6.0	0.0	6.0
Street Side	Lumens	14041.0	0.0	14041.0
	% Fixture	94.0	0.0	94.0
Total	Lumens	14937.0	0.0	14937.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	164.3	1.1
10°-20°	489.0	3.3
20°-30°	851.6	5.7
30°-40°	1494.1	10.0
40°-50°	2500.9	16.7
50°-60°	3676.1	24.6
60°-70°	3774.4	25.3
70°-80°	1863.3	12.5
80°-90°	123.2	0.8
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°	14937.0	100.0
0°-180°	14937.0	100.0

Coefficient of Utilization



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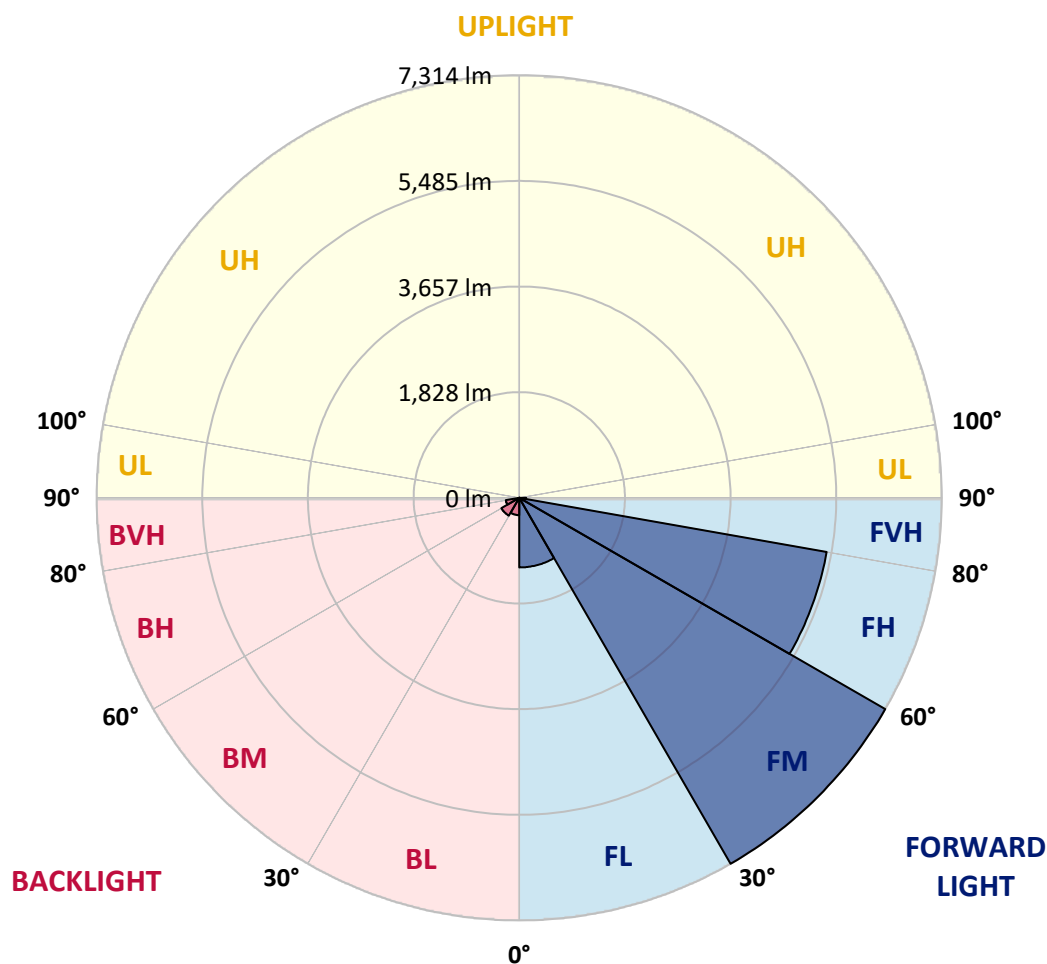
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1205.3	8.1			
FM	(30°-60°)	7313.9	49.0			
FH	(60°-80°)	5401.6	36.2			G3/7500
FVH	(80°-90°)	120.2	0.8			G2/225
BL	(0°-30°)	299.7	2.0	B1/500		
BM	(30°-60°)	357.2	2.4	B1/1000		
BH	(60°-80°)	236.1	1.6	B1/500		G1/500
BVH	(80°-90°)	3.0	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 II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	1699.9	1699.9	1699.9	1699.9	1699.9	1699.9	1699.9	1699.9	1699.9	1699.9	1699.9
2.5°	2000.7	1992.2	1988.6	1973.0	1946.1	1925.5	1885.8	1839.6	1831.1	1786.4	1731.8
5°	2260.4	2253.3	2248.3	2226.3	2198.6	2146.8	2074.5	1988.6	1972.3	1887.2	1777.9
7.5°	2441.3	2454.0	2454.0	2439.9	2405.1	2366.1	2277.4	2160.3	2139.7	2009.2	1839.6
10°	2547.0	2562.6	2574.6	2586.7	2581.7	2566.1	2482.4	2350.5	2325.6	2152.5	1911.3
12.5°	2556.9	2572.5	2606.6	2656.9	2705.9	2741.4	2688.9	2561.2	2532.8	2318.5	1996.4
15°	2501.6	2517.9	2570.4	2668.3	2786.8	2890.4	2907.4	2794.6	2765.5	2516.5	2102.9
17.5°	2405.1	2415.7	2490.9	2626.4	2812.3	3002.5	3105.3	3045.0	3018.1	2742.8	2221.3
20°	2333.4	2341.2	2407.2	2552.7	2796.7	3072.7	3292.6	3311.1	3282.7	2985.4	2349.7
22.5°	2456.2	2470.4	2472.5	2541.3	2754.1	3107.5	3457.2	3572.9	3551.6	3243.0	2476.0
25°	2791.7	2808.1	2754.1	2711.6	2790.3	3123.1	3598.4	3841.0	3824.0	3520.4	2603.0
27.5°	3235.2	3252.2	3182.7	3055.7	2979.8	3182.0	3724.0	4113.5	4112.8	3814.1	2740.0
30°	3670.8	3687.8	3616.9	3489.9	3315.3	3348.7	3832.5	4398.7	4402.9	4117.0	2885.4
32.5°	4127.7	4149.0	4075.9	3912.7	3730.4	3636.7	3985.1	4685.3	4709.4	4468.2	3049.3
35°	4647.0	4649.8	4547.0	4376.0	4166.0	4022.0	4229.8	5006.7	5064.2	4903.1	3257.2
37.5°	5156.4	5177.0	5092.5	4822.9	4630.0	4466.8	4593.8	5408.3	5489.8	5434.5	3528.9
40°	5533.8	5577.1	5565.0	5274.2	5091.1	4974.8	5045.7	5885.7	5989.3	6053.2	3871.6
42.5°	5770.8	5803.4	5858.8	5683.5	5517.5	5536.7	5579.2	6441.9	6569.6	6758.4	4265.3
45°	6042.5	6058.1	6104.2	6026.9	5914.8	6107.8	6145.4	7068.4	7202.5	7516.8	4702.3
47.5°	6374.5	6411.4	6424.2	6353.3	6302.2	6612.9	6691.0	7638.1	7826.1	8329.1	5164.9
50°	6797.4	6807.3	6829.3	6783.2	6732.1	7047.1	7180.5	8236.2	8407.2	9144.3	5621.1
52.5°	7211.0	7246.5	7323.1	7294.0	7273.4	7416.7	7616.8	8775.4	8966.2	9824.0	6076.6
55°	7330.2	7360.7	7625.3	7806.2	7973.7	7872.2	8034.0	9258.5	9465.0	10431.3	6515.0
57.5°	6854.1	6915.9	7374.2	7845.3	8539.8	8580.3	8607.2	9754.4	9939.6	10896.7	6971.2
60°	5650.9	5663.0	6415.0	7223.1	8446.2	9198.2	9444.4	10287.2	10442.6	11330.2	7517.5
62.5°	3594.2	3716.9	4542.0	5682.8	7455.8	9108.8	10456.8	11093.2	11150.0	11850.2	8300.7
65°	1711.9	1791.4	2385.9	3511.1	5400.4	7964.5	11155.6	12551.1	12576.7	12881.0	9347.2
67.5°	947.8	986.2	1269.2	1890.0	3157.1	5632.4	10873.3	14278.0	14302.1	13933.9	10265.3
69°	741.4	774.0	996.8	1424.6	2140.5	4048.2	9839.6	14783.8	14855.5	14235.4	10297.9
70°	629.3	661.2	858.5	1203.3	1721.2	3128.0	8758.3	14658.3	14734.2	14207.0	10054.5
72.5°	385.2	403.7	571.8	847.1	1153.6	1573.6	5401.2	12396.5	12524.9	13032.2	8641.3
75°	259.7	269.6	357.6	584.6	825.1	810.2	2805.9	8737.8	9015.9	10137.5	6382.3
77.5°	185.9	195.1	239.8	378.1	578.2	534.9	1270.7	5430.2	5489.8	6080.1	3480.6
80°	105.7	114.2	169.6	224.9	392.3	356.9	505.1	2593.8	2623.6	2607.3	1162.1
82.5°	55.3	62.4	92.9	148.3	251.9	233.4	210.0	868.4	872.6	725.8	254.7
85°	10.6	12.8	46.1	101.5	129.8	101.5	85.8	203.6	207.9	183.8	63.1
87.5°	0.0	0.7	18.4	22.7	25.5	26.3	27.7	39.7	42.6	57.5	17.0
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°	1699.9	1699.9	1699.9	1699.9	1699.9	1699.9	1699.9	1699.9	1699.9	1699.9	1699.9
2.5°	1707.7	1682.1	1633.2	1576.4	1532.4	1489.2	1455.1	1419.6	1406.9	1400.5	1399.8
5°	1724.7	1670.8	1567.2	1460.8	1373.5	1291.2	1232.3	1176.3	1150.0	1138.0	1133.0
7.5°	1753.1	1666.5	1499.8	1337.3	1211.8	1108.9	1027.3	966.3	935.8	923.0	918.0
10°	1786.4	1660.9	1421.1	1206.8	1046.5	940.0	859.2	798.9	765.5	751.3	744.2
12.5°	1825.5	1650.9	1330.2	1074.8	905.3	798.9	701.0	626.5	588.1	571.8	564.0
15°	1873.7	1641.0	1235.2	950.7	781.1	651.3	544.2	493.8	486.0	483.1	483.9
17.5°	1921.2	1625.4	1131.6	827.9	650.6	508.7	454.1	451.2	452.6	452.6	452.6
20°	1963.8	1589.9	1018.8	722.9	526.4	429.2	417.9	412.9	409.4	406.5	403.0
22.5°	1997.1	1542.4	910.2	618.7	429.9	393.0	375.3	359.7	346.9	338.4	334.2
25°	2019.8	1479.2	810.9	518.6	386.7	357.6	325.6	299.4	279.5	267.5	262.5
27.5°	2036.9	1411.1	722.2	434.2	356.9	316.4	274.6	243.3	222.8	212.1	207.9
30°	2048.9	1333.8	644.2	381.7	323.5	273.1	228.4	197.9	183.0	177.4	174.5
32.5°	2060.3	1247.9	570.4	356.9	292.3	233.4	191.6	168.1	158.9	151.8	149.7
35°	2088.7	1168.5	500.2	330.6	260.4	199.4	164.6	147.6	138.3	134.1	132.7
37.5°	2156.1	1109.6	432.8	303.7	228.4	172.4	144.0	132.0	123.4	119.2	117.8
40°	2264.6	1079.8	376.0	274.6	197.2	151.8	130.5	119.2	110.0	103.6	102.2
42.5°	2424.2	1084.1	336.3	245.5	172.4	135.5	117.8	104.3	94.4	88.7	87.3
45°	2617.9	1115.3	308.6	217.1	151.8	122.7	103.6	89.4	80.2	75.2	73.8
47.5°	2827.9	1165.7	285.9	191.6	135.5	110.7	89.4	74.5	66.7	62.4	61.7
50°	3049.3	1214.6	262.5	166.7	121.3	98.6	75.2	61.7	55.3	51.8	50.4
52.5°	3273.5	1271.4	241.2	144.0	109.3	84.4	62.4	50.4	45.4	42.6	41.1
55°	3514.7	1313.9	220.6	126.3	97.2	71.7	51.8	41.9	37.6	34.1	33.3
57.5°	3798.5	1379.9	199.4	109.3	83.0	59.6	42.6	33.3	29.8	26.3	25.5
60°	4181.6	1457.2	176.7	96.5	68.1	49.0	34.8	27.0	22.7	19.9	19.2
62.5°	4686.7	1543.1	148.3	84.4	55.3	39.7	27.7	21.3	16.3	12.8	12.8
65°	5327.4	1682.9	121.3	70.9	45.4	32.6	21.3	15.6	9.2	5.7	5.7
67.5°	5701.3	1707.0	97.9	58.2	36.9	27.7	17.7	10.6	2.8	0.7	0.0
69°	5581.4	1567.2	83.0	49.7	31.9	26.3	16.3	7.8	1.4	0.0	0.0
70°	5355.8	1433.1	73.1	44.0	29.1	24.8	15.6	5.7	1.4	0.0	0.0
72.5°	4425.6	1020.2	55.3	32.6	21.3	22.0	14.2	3.5	1.4	0.0	0.0
75°	3223.8	620.1	39.7	22.7	13.5	16.3	9.9	1.4	0.7	0.0	0.0
77.5°	1793.5	292.3	24.8	12.8	8.5	9.9	5.0	0.0	0.0	0.0	0.0
80°	582.5	79.5	11.4	7.1	5.0	5.7	2.1	0.0	0.0	0.0	0.0
82.5°	107.8	22.7	6.4	3.5	1.4	1.4	0.0	0.0	0.0	0.0	0.0
85°	23.4	9.2	3.5	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	7.8	2.8	0.7	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)