

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: P321828

Luminaire Tested: **GAN-SA4A-727-U-T2-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321828
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-SA4A-727-U-T2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 2700K, 615mA 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: 11185 lumens
Efficiency: N/A
Efficacy: 86.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G2

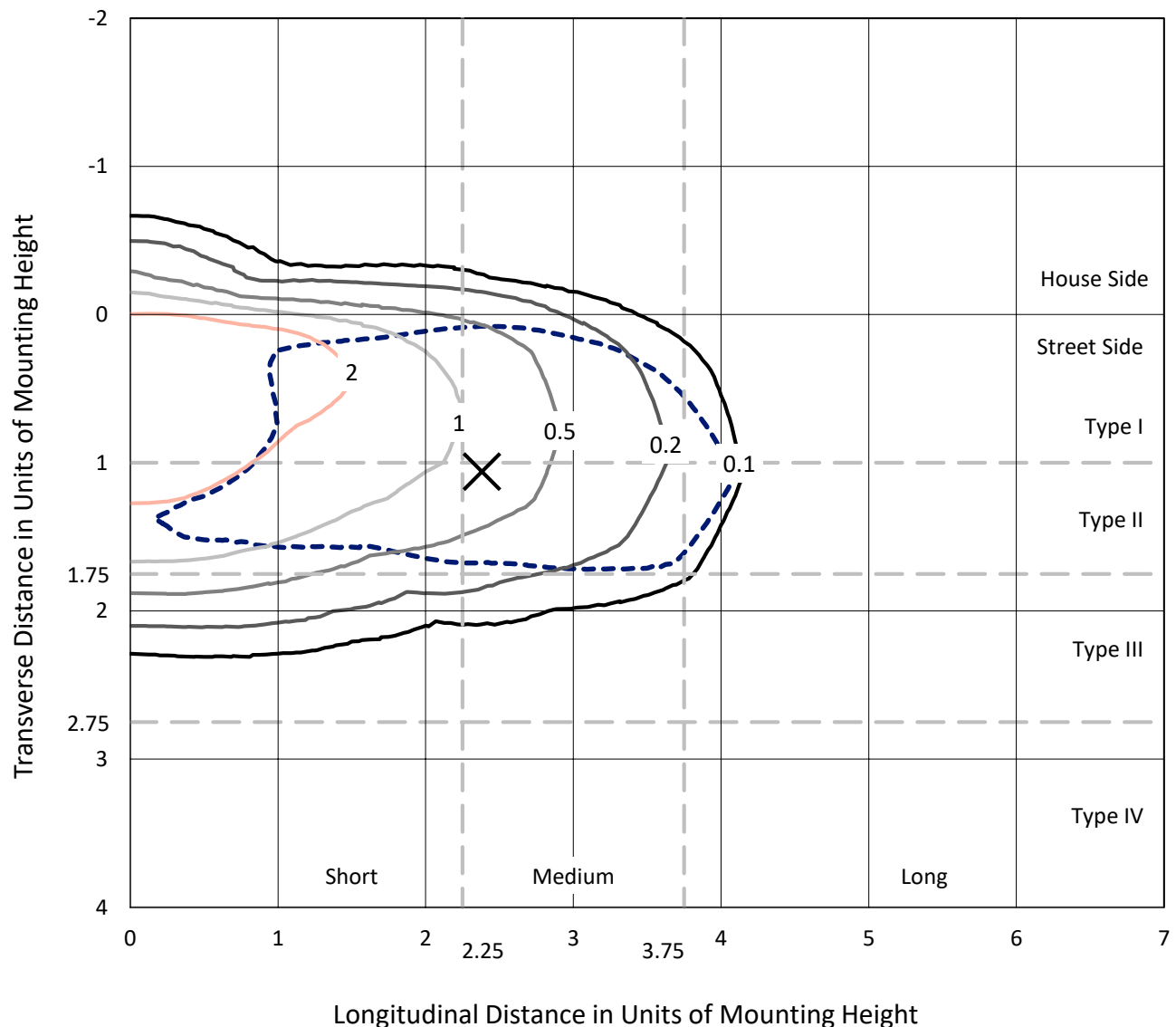
Input Watts (W): 129
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

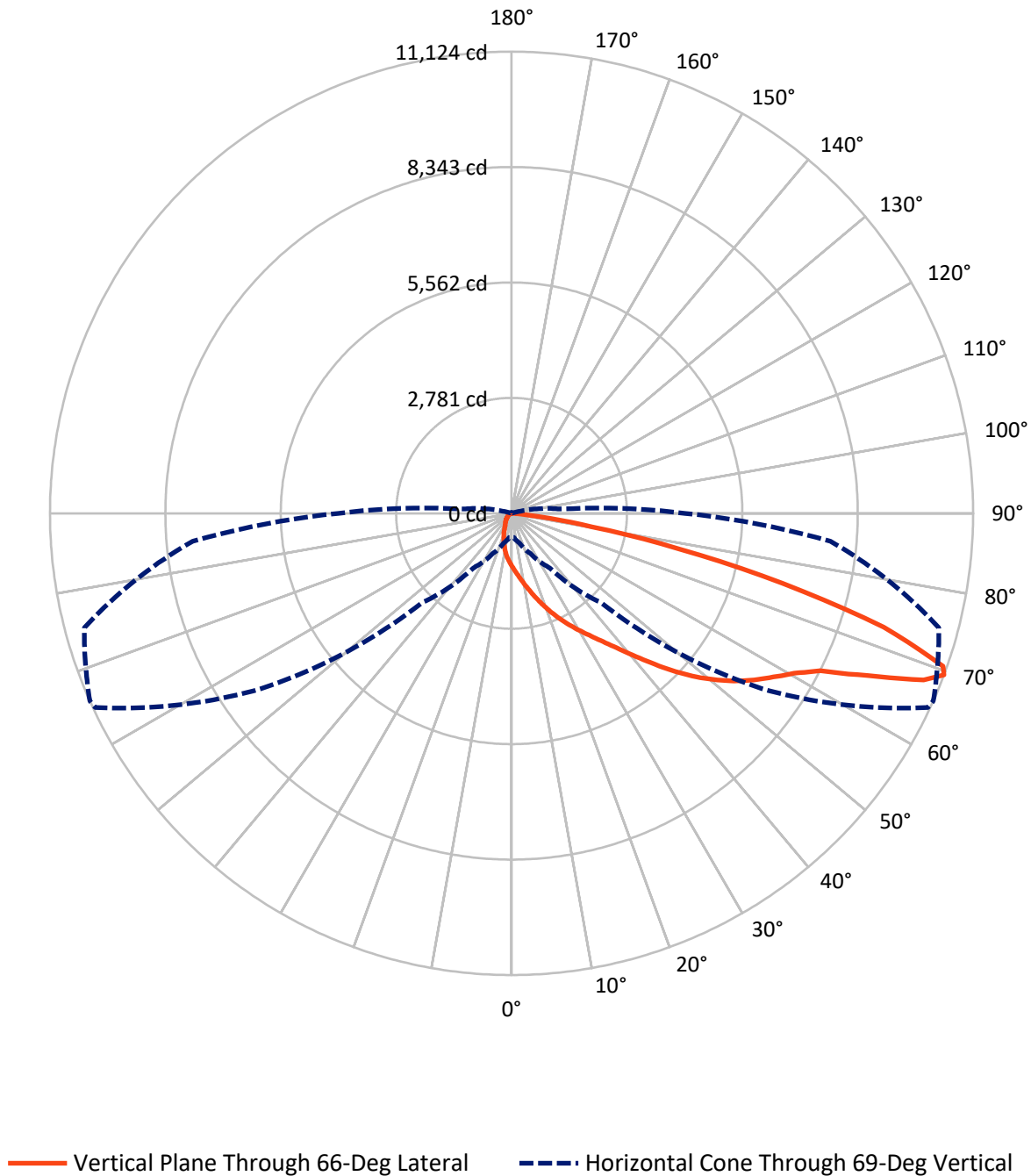
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.4 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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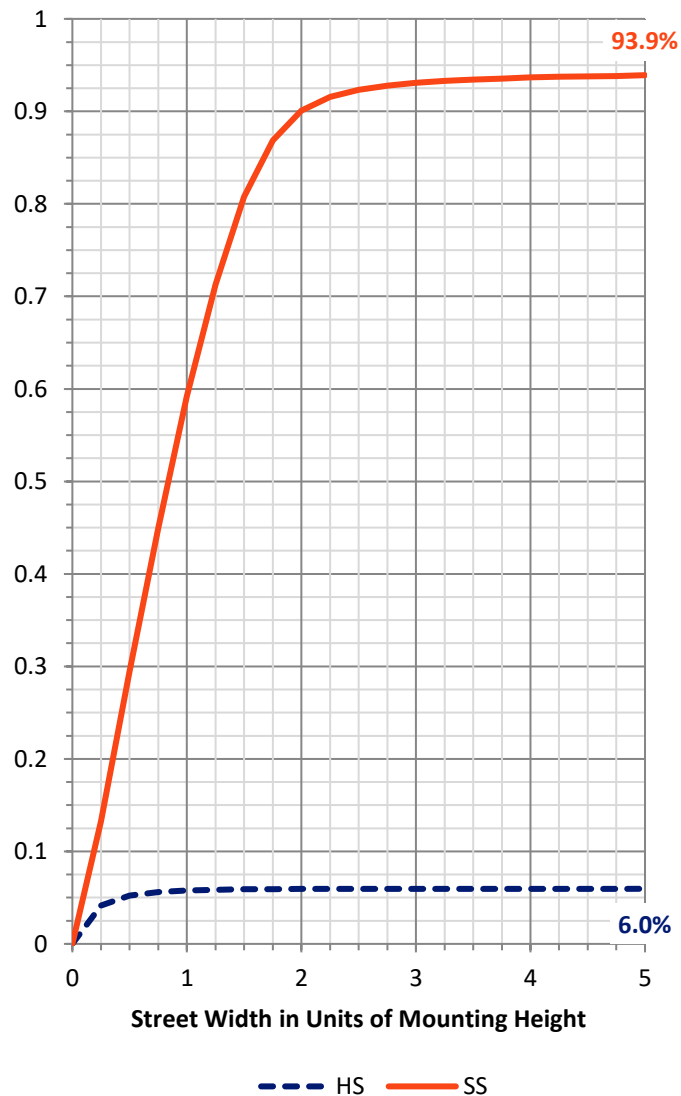
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	670.9	0.0	670.9
	% Fixture	6.0	0.0	6.0
Street Side	Lumens	10514.1	0.0	10514.1
	% Fixture	94.0	0.0	94.0
Total	Lumens	11185.0	0.0	11185.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	123.0	1.1
10°-20°	366.2	3.3
20°-30°	637.7	5.7
30°-40°	1118.8	10.0
40°-50°	1872.7	16.7
50°-60°	2752.7	24.6
60°-70°	2826.3	25.3
70°-80°	1395.3	12.5
80°-90°	92.3	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°	11185.0	100.0
0°-180°	11185.0	100.0

Coefficient of Utilization



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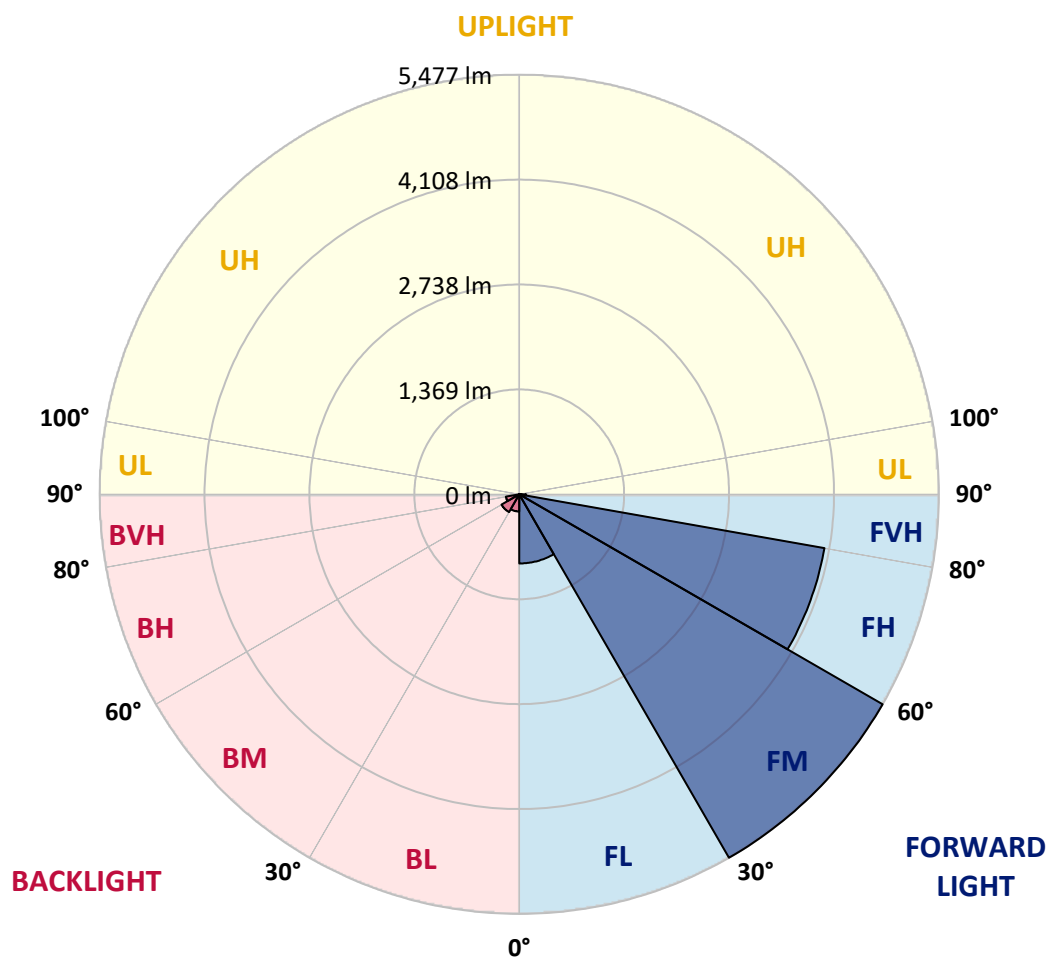
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	902.5	8.1			
FM	(30°-60°)	5476.7	49.0			
FH	(60°-80°)	4044.8	36.2			G2/5000
FVH	(80°-90°)	90.0	0.8			G1/100
BL	(0°-30°)	224.4	2.0	B1/500		
BM	(30°-60°)	267.5	2.4	B1/1000		
BH	(60°-80°)	176.8	1.6	B1/500		G1/500
BVH	(80°-90°)	2.2	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-G2

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	1272.9	1272.9	1272.9	1272.9	1272.9	1272.9	1272.9	1272.9	1272.9	1272.9	1272.9
2.5°	1498.1	1491.8	1489.1	1477.4	1457.2	1441.8	1412.1	1377.5	1371.2	1337.7	1296.8
5°	1692.6	1687.3	1683.5	1667.1	1646.4	1607.6	1553.4	1489.1	1476.9	1413.1	1331.3
7.5°	1828.1	1837.6	1837.6	1827.0	1801.0	1771.7	1705.3	1617.7	1602.3	1504.5	1377.5
10°	1907.2	1918.9	1927.9	1937.0	1933.2	1921.6	1858.9	1760.1	1741.5	1611.8	1431.2
12.5°	1914.6	1926.3	1951.8	1989.6	2026.2	2052.8	2013.5	1917.8	1896.6	1736.1	1495.0
15°	1873.2	1885.4	1924.7	1998.1	2086.8	2164.3	2177.1	2092.6	2070.8	1884.4	1574.6
17.5°	1801.0	1808.9	1865.2	1966.7	2105.9	2248.3	2325.3	2280.1	2260.0	2053.8	1663.4
20°	1747.3	1753.1	1802.6	1911.5	2094.2	2300.9	2465.6	2479.4	2458.1	2235.5	1759.5
22.5°	1839.2	1849.8	1851.4	1903.0	2062.3	2326.9	2588.8	2675.4	2659.5	2428.4	1854.1
25°	2090.5	2102.7	2062.3	2030.5	2089.4	2338.6	2694.5	2876.2	2863.5	2636.1	1949.2
27.5°	2422.5	2435.3	2383.2	2288.1	2231.3	2382.7	2788.6	3080.2	3079.7	2856.0	2051.7
30°	2748.7	2761.5	2708.3	2613.2	2482.6	2507.5	2869.8	3293.8	3297.0	3082.9	2160.6
32.5°	3090.8	3106.8	3052.1	2929.9	2793.3	2723.2	2984.1	3508.4	3526.5	3345.8	2283.3
35°	3479.7	3481.9	3404.8	3276.8	3119.5	3011.7	3167.3	3749.1	3792.1	3671.5	2439.0
37.5°	3861.2	3876.6	3813.4	3611.5	3467.0	3344.8	3439.9	4049.8	4110.9	4069.4	2642.5
40°	4143.8	4176.2	4167.2	3949.4	3812.3	3725.2	3778.3	4407.3	4484.9	4532.7	2899.1
42.5°	4321.2	4345.7	4387.1	4255.9	4131.6	4145.9	4177.8	4823.8	4919.4	5060.7	3193.9
45°	4524.7	4536.4	4570.9	4513.0	4429.1	4573.6	4601.7	5292.9	5393.3	5628.7	3521.2
47.5°	4773.3	4801.0	4810.5	4757.4	4719.1	4951.8	5010.3	5719.5	5860.3	6236.9	3867.5
50°	5090.0	5097.4	5113.9	5079.3	5041.1	5277.0	5376.8	6167.3	6295.4	6847.4	4209.1
52.5°	5399.7	5426.2	5483.6	5461.8	5446.4	5553.7	5703.6	6571.1	6714.0	7356.3	4550.2
55°	5488.9	5511.8	5709.9	5845.4	5970.8	5894.8	6015.9	6932.9	7087.5	7811.1	4878.5
57.5°	5132.5	5178.7	5521.9	5874.6	6394.7	6425.0	6445.2	7304.2	7442.9	8159.6	5220.1
60°	4231.5	4240.5	4803.6	5408.7	6324.6	6887.7	7072.1	7703.2	7819.6	8484.2	5629.2
62.5°	2691.3	2783.2	3401.1	4255.4	5583.0	6820.8	7830.2	8306.7	8349.2	8873.6	6215.7
65°	1281.9	1341.4	1786.6	2629.2	4043.9	5963.9	8353.5	9398.4	9417.6	9645.5	6999.3
67.5°	709.8	738.4	950.4	1415.3	2364.1	4217.6	8142.0	10691.5	10709.6	10433.9	7686.7
69°	555.2	579.6	746.4	1066.8	1602.8	3031.3	7368.0	11070.3	11124.0	10659.6	7711.2
70°	471.2	495.1	642.8	901.0	1288.8	2342.3	6558.4	10976.3	11033.1	10638.4	7529.0
72.5°	288.5	302.3	428.2	634.3	863.8	1178.3	4044.5	9282.6	9378.8	9758.6	6470.7
75°	194.4	201.9	267.8	437.8	617.9	606.7	2101.1	6542.9	6751.2	7591.1	4779.2
77.5°	139.2	146.1	179.6	283.2	433.0	400.6	951.5	4066.2	4110.9	4552.9	2606.3
80°	79.2	85.5	127.0	168.4	293.8	267.2	378.3	1942.3	1964.6	1952.4	870.2
82.5°	41.4	46.8	69.6	111.0	188.6	174.8	157.3	650.3	653.4	543.5	190.7
85°	8.0	9.6	34.5	76.0	97.2	76.0	64.3	152.5	155.7	137.6	47.3
87.5°	0.0	0.5	13.8	17.0	19.1	19.7	20.7	29.8	31.9	43.0	12.8
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°	1272.9	1272.9	1272.9	1272.9	1272.9	1272.9	1272.9	1272.9	1272.9	1272.9	1272.9
2.5°	1278.7	1259.6	1223.0	1180.5	1147.5	1115.1	1089.6	1063.0	1053.5	1048.7	1048.2
5°	1291.5	1251.1	1173.5	1093.9	1028.5	966.9	922.8	880.8	861.2	852.1	848.4
7.5°	1312.7	1247.9	1123.1	1001.4	907.4	830.4	769.3	723.6	700.7	691.2	687.4
10°	1337.7	1243.7	1064.1	903.7	783.6	703.9	643.4	598.2	573.2	562.6	557.3
12.5°	1366.9	1236.2	996.1	804.9	677.9	598.2	524.9	469.1	440.4	428.2	422.3
15°	1403.0	1228.8	924.9	711.9	584.9	487.7	407.5	369.8	363.9	361.8	362.3
17.5°	1438.6	1217.1	847.4	620.0	487.2	380.9	340.0	337.9	338.9	338.9	338.9
20°	1470.5	1190.5	762.9	541.3	394.2	321.4	312.9	309.2	306.5	304.4	301.8
22.5°	1495.5	1155.0	681.6	463.3	321.9	294.3	281.0	269.3	259.8	253.4	250.2
25°	1512.5	1107.7	607.2	388.3	289.5	267.8	243.8	224.2	209.3	200.3	196.6
27.5°	1525.2	1056.7	540.8	325.1	267.2	236.9	205.6	182.2	166.8	158.8	155.7
30°	1534.3	998.8	482.4	285.8	242.3	204.5	171.1	148.2	137.1	132.8	130.7
32.5°	1542.8	934.5	427.1	267.2	218.9	174.8	143.4	125.9	119.0	113.7	112.1
35°	1564.0	875.0	374.5	247.6	195.0	149.3	123.3	110.5	103.6	100.4	99.3
37.5°	1614.5	830.9	324.1	227.4	171.1	129.1	107.8	98.8	92.4	89.3	88.2
40°	1695.8	808.6	281.6	205.6	147.7	113.7	97.8	89.3	82.3	77.6	76.5
42.5°	1815.3	811.8	251.8	183.8	129.1	101.5	88.2	78.1	70.7	66.4	65.3
45°	1960.3	835.1	231.1	162.6	113.7	91.9	77.6	66.9	60.0	56.3	55.3
47.5°	2117.6	872.9	214.1	143.4	101.5	82.9	66.9	55.8	49.9	46.8	46.2
50°	2283.3	909.5	196.6	124.8	90.8	73.8	56.3	46.2	41.4	38.8	37.7
52.5°	2451.2	952.0	180.6	107.8	81.8	63.2	46.8	37.7	34.0	31.9	30.8
55°	2631.8	983.9	165.2	94.6	72.8	53.7	38.8	31.3	28.2	25.5	25.0
57.5°	2844.3	1033.3	149.3	81.8	62.2	44.6	31.9	25.0	22.3	19.7	19.1
60°	3131.2	1091.2	132.3	72.3	51.0	36.7	26.0	20.2	17.0	14.9	14.3
62.5°	3509.5	1155.5	111.0	63.2	41.4	29.8	20.7	15.9	12.2	9.6	9.6
65°	3989.2	1260.1	90.8	53.1	34.0	24.4	15.9	11.7	6.9	4.3	4.3
67.5°	4269.2	1278.2	73.3	43.6	27.6	20.7	13.3	8.0	2.1	0.5	0.0
69°	4179.4	1173.5	62.2	37.2	23.9	19.7	12.2	5.8	1.1	0.0	0.0
70°	4010.5	1073.1	54.7	32.9	21.8	18.6	11.7	4.3	1.1	0.0	0.0
72.5°	3314.0	763.9	41.4	24.4	15.9	16.5	10.6	2.7	1.1	0.0	0.0
75°	2414.0	464.3	29.8	17.0	10.1	12.2	7.4	1.1	0.5	0.0	0.0
77.5°	1343.0	218.9	18.6	9.6	6.4	7.4	3.7	0.0	0.0	0.0	0.0
80°	436.2	59.5	8.5	5.3	3.7	4.3	1.6	0.0	0.0	0.0	0.0
82.5°	80.8	17.0	4.8	2.7	1.1	1.1	0.0	0.0	0.0	0.0	0.0
85°	17.5	6.9	2.7	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	5.8	2.1	0.5	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)