

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: P321448

Luminaire Tested: **GAN-SA4C-830-U-T2R-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321448
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-9)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA4C-830-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18301 lumens
Efficiency: N/A
Efficacy: 81.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G2

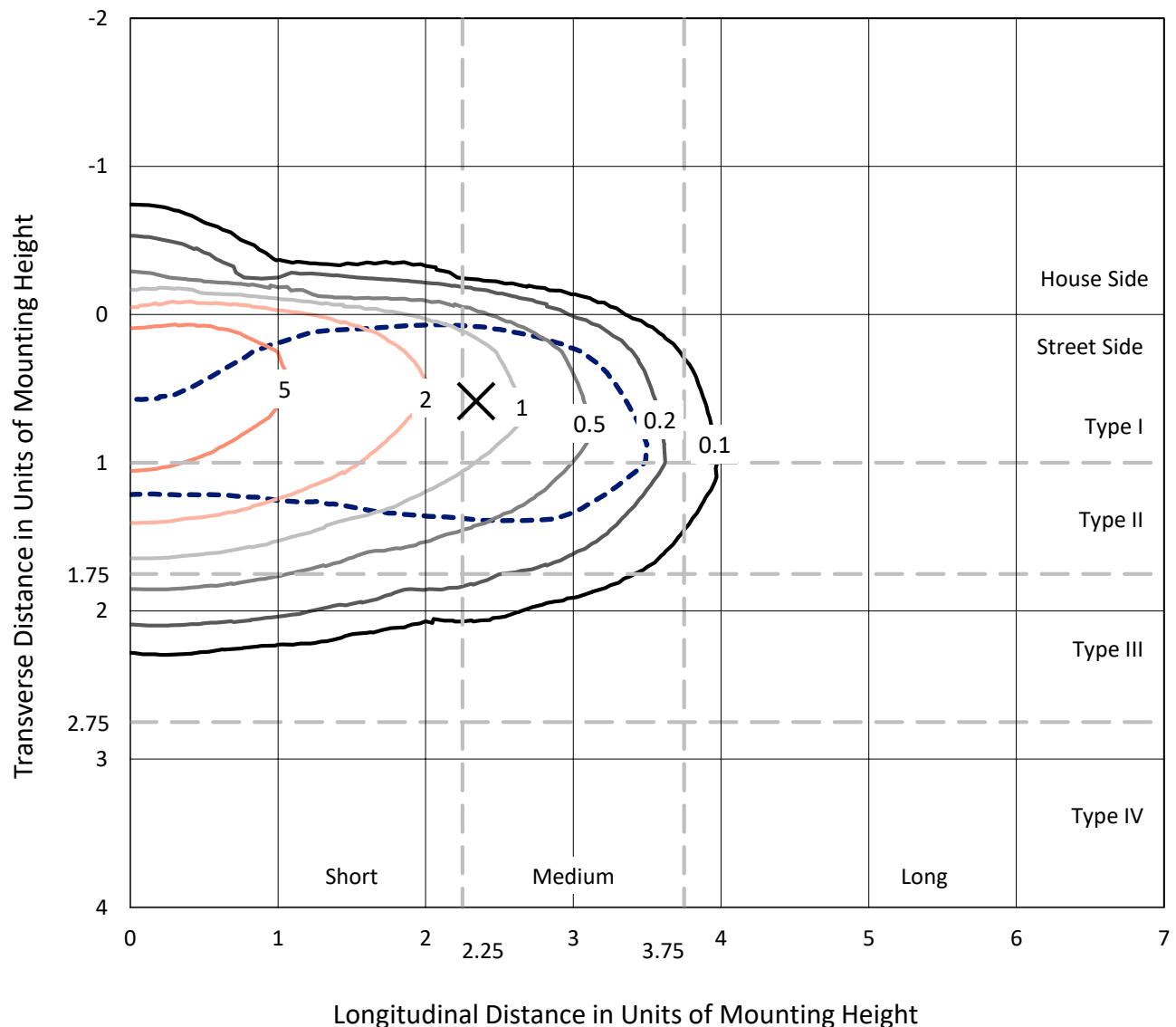
Input Watts (W): 225
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

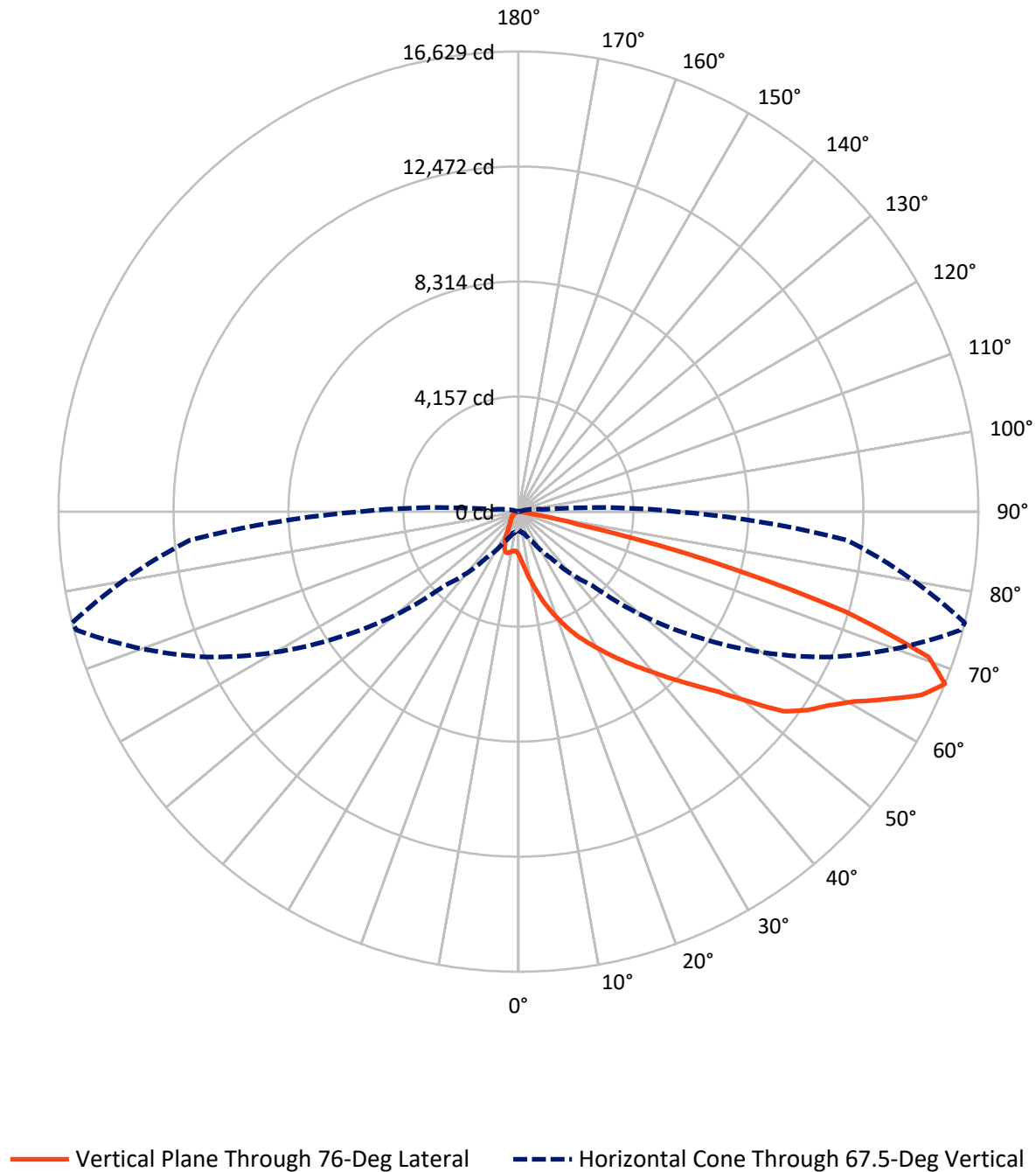
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.7 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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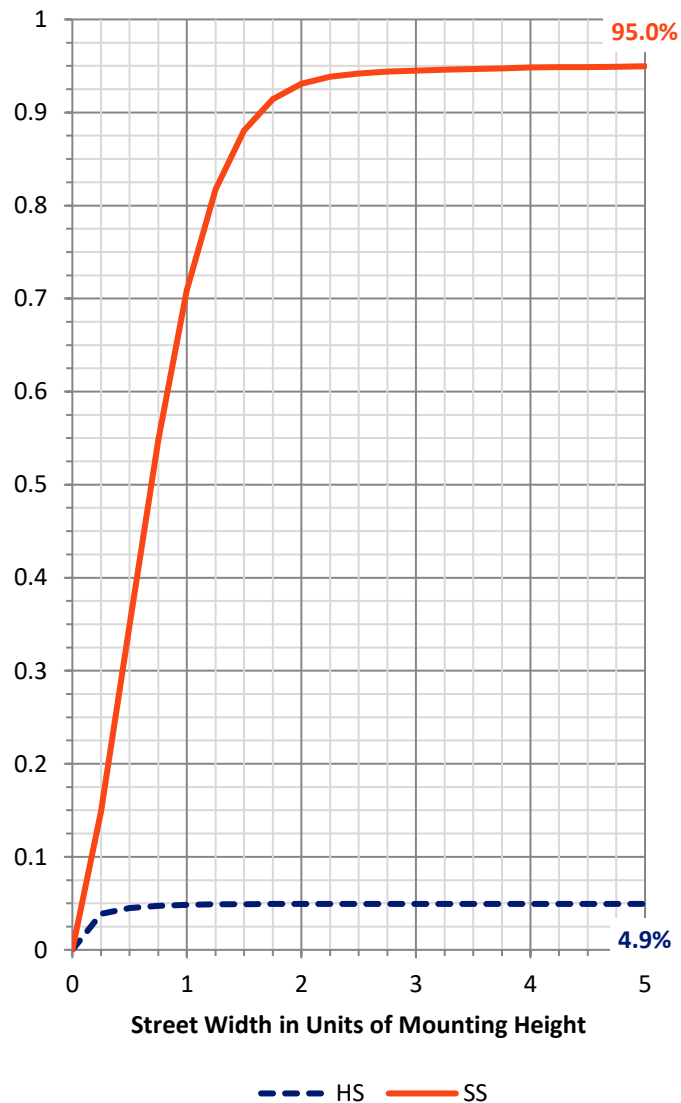
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	908.8	0.0	908.8
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	17392.2	0.0	17392.2
	% Fixture	95.0	0.0	95.0
Total	Lumens	18301.0	0.0	18301.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	193.0	1.1
10°-20°	765.3	4.2
20°-30°	1557.1	8.5
30°-40°	2702.5	14.8
40°-50°	3818.3	20.9
50°-60°	4330.2	23.7
60°-70°	3591.5	19.6
70°-80°	1300.9	7.1
80°-90°	42.2	0.2
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°	18301.0	100.0
0°-180°	18301.0	100.0

Coefficient of Utilization



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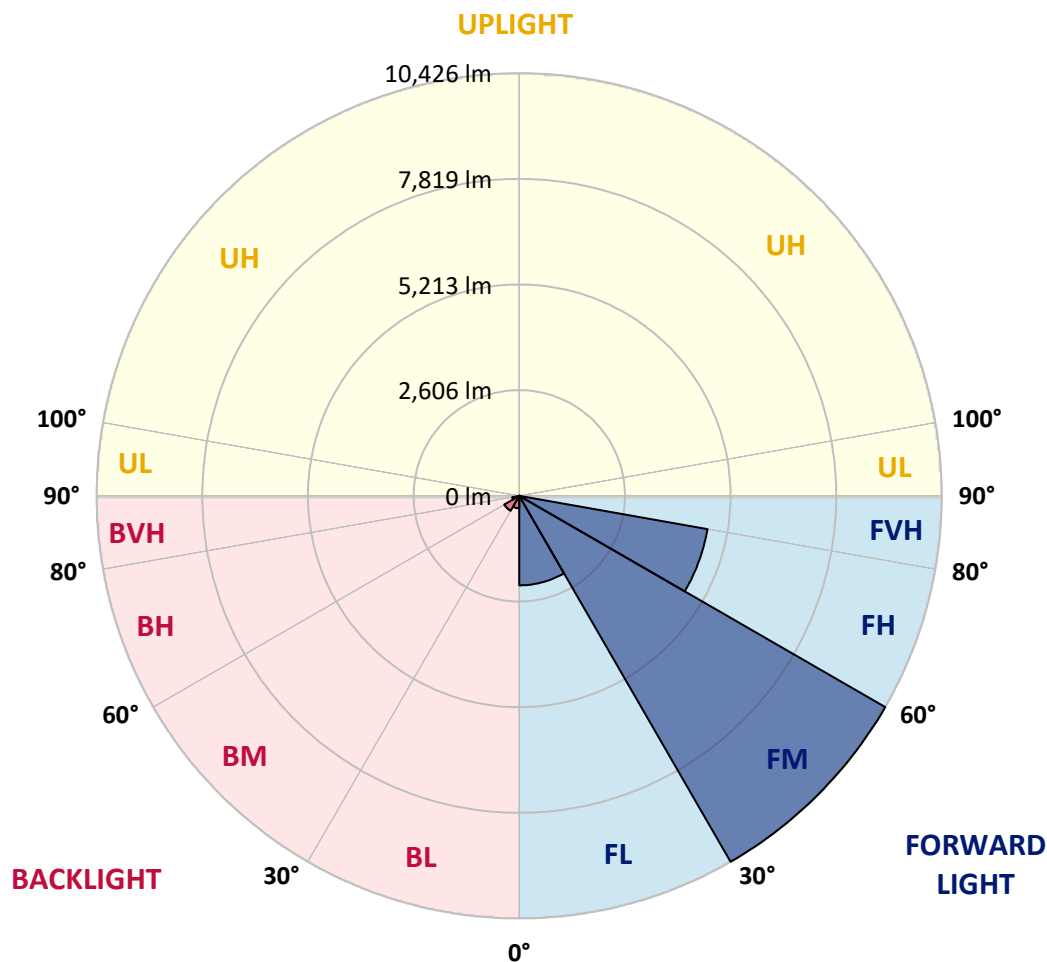
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2208.9	12.1			
FM	(30°-60°)	10425.7	57.0			
FH	(60°-80°)	4716.8	25.8			G2/5000
FVH	(80°-90°)	40.9	0.2			G1/100
BL	(0°-30°)	306.5	1.7	B1/500		
BM	(30°-60°)	425.3	2.3	B1/1000		
BH	(60°-80°)	175.6	1.0	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-G2

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1552.5	1552.5	1552.5	1552.5	1552.5	1552.5	1552.5	1552.5	1552.5	1552.5	1552.5
2.5°	2317.5	2265.3	2277.4	2243.7	2182.7	2057.6	1951.0	1850.0	1732.1	1728.1	1631.0
5°	3125.0	3080.9	3075.2	3007.1	2896.4	2683.9	2477.0	2241.3	1978.3	1959.0	1752.9
7.5°	3857.9	3822.6	3809.8	3728.8	3522.7	3315.8	3046.4	2700.0	2288.6	2253.3	1917.3
10°	4420.8	4404.0	4407.2	4349.4	4173.0	3980.6	3626.9	3185.1	2640.6	2586.1	2114.6
12.5°	4847.4	4851.4	4880.3	4845.0	4746.4	4603.6	4225.9	3702.3	3030.3	2955.8	2339.9
15°	5161.0	5181.0	5233.9	5278.0	5270.8	5147.3	4800.9	4227.6	3444.1	3361.5	2590.9
17.5°	5363.8	5386.3	5463.3	5561.1	5650.9	5622.0	5355.8	4734.3	3862.7	3767.3	2859.5
20°	5541.8	5568.3	5650.9	5780.0	5947.6	5983.7	5808.9	5225.9	4280.5	4164.2	3137.0
22.5°	5927.6	5926.8	5977.3	6052.6	6212.2	6305.2	6194.6	5682.2	4693.4	4572.4	3420.1
25°	6625.2	6598.7	6581.1	6521.8	6557.0	6614.8	6553.0	6108.8	5108.8	4986.1	3707.1
27.5°	7454.3	7470.4	7327.7	7168.1	7044.6	6985.2	6884.2	6504.1	5508.2	5373.5	3987.8
30°	8329.2	8334.0	8165.6	7961.9	7690.1	7464.8	7290.0	6881.8	5918.7	5772.0	4260.4
32.5°	9118.3	9087.0	8920.2	8642.7	8299.5	8046.1	7682.9	7303.6	6353.4	6211.4	4563.5
35°	9743.7	9706.9	9504.0	9251.4	8895.3	8640.3	8203.3	7724.6	6810.4	6671.7	4867.5
37.5°	10200.8	10157.5	9949.0	9689.2	9382.1	9233.7	8807.1	8182.5	7309.2	7160.1	5187.4
40°	10359.6	10321.9	10191.2	10001.1	9754.2	9720.5	9447.8	8709.3	7852.1	7693.3	5549.9
42.5°	10265.0	10228.1	10181.6	10117.4	10014.8	10046.9	10052.5	9309.9	8455.1	8298.7	5950.0
45°	9889.7	9856.8	9904.9	9998.7	10126.2	10285.0	10604.2	9955.4	9128.7	8961.9	6412.7
47.5°	9337.2	9313.1	9446.2	9680.4	10053.3	10491.1	11108.6	10633.8	9884.9	9730.1	6990.1
50°	8551.3	8547.3	8813.5	9241.0	9814.3	10590.5	11629.8	11405.3	10935.3	10772.6	7792.7
52.5°	7327.7	7335.7	7859.3	8543.3	9394.9	10523.2	11965.0	12396.4	12157.4	11988.2	8488.0
55°	6162.5	6210.6	6581.9	7568.2	8751.8	10273.0	12080.4	12859.1	12831.8	12671.4	8874.5
57.5°	5021.4	5108.8	5466.5	6387.8	7812.8	9696.4	12017.1	13059.5	13333.8	13211.1	9384.5
60°	3784.9	3825.0	4237.2	5098.4	6607.6	8644.4	11557.6	13168.6	14020.2	13935.2	10124.6
62.5°	2408.1	2508.3	2874.0	3704.7	5144.9	7183.3	10783.0	13167.0	14879.0	14925.5	11079.7
65°	1268.6	1385.7	1579.7	2295.8	3535.5	5551.5	9617.8	13043.5	15932.7	15997.7	11826.2
67.5°	684.0	717.7	820.3	1191.6	2050.4	3760.9	7905.8	12434.1	16542.9	16628.7	11930.5
70°	500.4	518.8	557.3	659.2	1032.0	2184.3	5768.8	11052.4	15756.3	15724.2	10600.2
72.5°	384.1	413.0	441.8	482.7	593.4	1165.9	3591.7	8654.8	12572.0	12360.3	7923.5
75°	303.1	307.9	348.8	385.7	445.0	664.0	1595.0	5040.7	7673.3	7172.1	4108.9
77.5°	242.2	245.4	269.4	301.5	357.6	436.2	494.0	1983.1	2449.8	2185.9	891.7
80°	143.5	151.6	200.5	232.5	296.7	275.0	180.4	430.6	382.5	346.4	150.0
82.5°	80.2	86.6	113.1	183.6	206.9	131.5	89.8	116.3	89.8	87.4	42.5
85°	0.0	4.0	73.0	113.9	84.2	28.9	37.7	38.5	26.5	24.9	16.8
87.5°	0.0	0.0	22.5	21.7	3.2	4.8	8.8	12.8	10.4	10.4	8.8
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°	1552.5	1552.5	1552.5	1552.5	1552.5	1552.5	1552.5	1552.5	1552.5	1552.5	1552.5
2.5°	1582.9	1539.6	1457.8	1377.6	1310.3	1255.0	1205.2	1185.2	1169.2	1166.7	1153.9
5°	1653.5	1566.1	1409.7	1281.4	1195.6	1134.7	1082.5	1050.5	1025.6	1016.0	1007.2
7.5°	1760.1	1627.8	1403.3	1255.8	1153.1	1050.5	954.2	850.0	785.0	760.2	745.8
10°	1890.0	1709.6	1427.4	1248.5	1068.9	852.4	692.8	560.5	506.8	489.2	484.3
12.5°	2041.6	1811.5	1469.1	1203.6	889.3	605.4	477.9	433.0	421.0	415.4	415.4
15°	2215.6	1922.9	1498.7	1073.7	657.5	457.9	413.8	392.9	380.1	372.9	373.7
17.5°	2393.6	2032.0	1484.3	885.3	485.1	407.4	374.5	352.0	334.4	327.2	325.6
20°	2573.3	2133.0	1404.1	659.2	410.6	369.7	332.8	307.9	290.3	283.1	281.5
22.5°	2759.3	2218.8	1263.0	483.5	368.9	328.0	291.9	267.0	250.2	243.8	240.6
25°	2940.5	2288.6	1065.7	391.3	329.6	288.7	254.2	230.9	215.7	209.3	208.5
27.5°	3109.7	2332.7	837.2	345.6	295.1	253.4	222.1	201.3	188.4	183.6	182.8
30°	3262.1	2336.7	619.1	311.9	264.6	222.9	194.1	175.6	164.4	159.6	158.0
32.5°	3416.0	2303.0	450.7	281.5	236.6	196.5	168.4	154.0	145.9	141.9	141.9
35°	3561.2	2225.2	351.2	255.0	209.3	170.8	148.3	137.9	133.1	129.1	129.1
37.5°	3703.1	2113.8	298.3	231.7	183.6	149.2	130.7	124.3	120.3	116.3	116.3
40°	3847.5	1973.4	271.0	210.1	162.8	132.3	116.3	110.7	106.7	103.4	102.6
42.5°	4024.7	1811.5	253.4	190.0	144.3	117.1	102.6	96.2	93.0	89.8	88.2
45°	4230.0	1671.9	239.0	170.0	129.1	104.2	89.0	82.6	77.8	73.8	73.0
47.5°	4525.9	1570.9	219.7	148.3	114.7	90.6	77.0	69.8	62.5	58.5	57.7
50°	4903.5	1487.5	194.9	129.1	100.2	77.0	64.2	55.3	48.9	44.9	44.9
52.5°	5091.2	1378.4	172.4	112.3	84.2	65.0	52.1	41.7	38.5	34.5	34.5
55°	5166.6	1295.0	150.0	95.4	69.8	53.7	40.9	32.1	29.7	27.3	26.5
57.5°	5378.3	1271.0	130.7	81.0	57.7	42.5	31.3	24.1	22.5	19.2	19.2
60°	5719.1	1283.0	113.1	69.0	46.5	32.9	23.3	18.4	16.8	13.6	13.6
62.5°	6087.1	1267.8	95.4	59.3	36.1	24.1	16.0	13.6	13.6	8.0	7.2
65°	6157.7	1129.1	81.8	48.9	28.1	17.6	10.4	8.8	12.0	1.6	0.0
67.5°	5715.1	875.7	70.6	37.7	20.8	13.6	8.0	4.0	10.4	0.0	0.0
70°	4570.0	556.5	56.9	27.3	16.0	11.2	6.4	1.6	8.0	0.0	0.0
72.5°	3231.6	323.2	44.9	19.2	13.6	8.8	4.8	0.0	4.8	0.0	0.0
75°	1634.2	172.4	28.1	14.4	10.4	6.4	3.2	0.0	0.8	0.0	0.0
77.5°	353.6	80.2	17.6	10.4	7.2	4.0	1.6	0.0	0.0	0.0	0.0
80°	77.0	35.3	11.2	6.4	4.0	2.4	0.0	0.0	0.0	0.0	0.0
82.5°	28.1	18.4	5.6	3.2	1.6	0.0	0.0	0.0	0.0	0.0	0.0
85°	15.2	9.6	3.2	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	8.0	3.2	0.8	0.8	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)