

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: P322041

Luminaire Tested: **GAN-SA7B-827-U-T2-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322041
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-SA7B-827-U-T2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 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: 21138 lumens
Efficiency: N/A
Efficacy: 71.7 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G4

Input Watts (W): 295
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

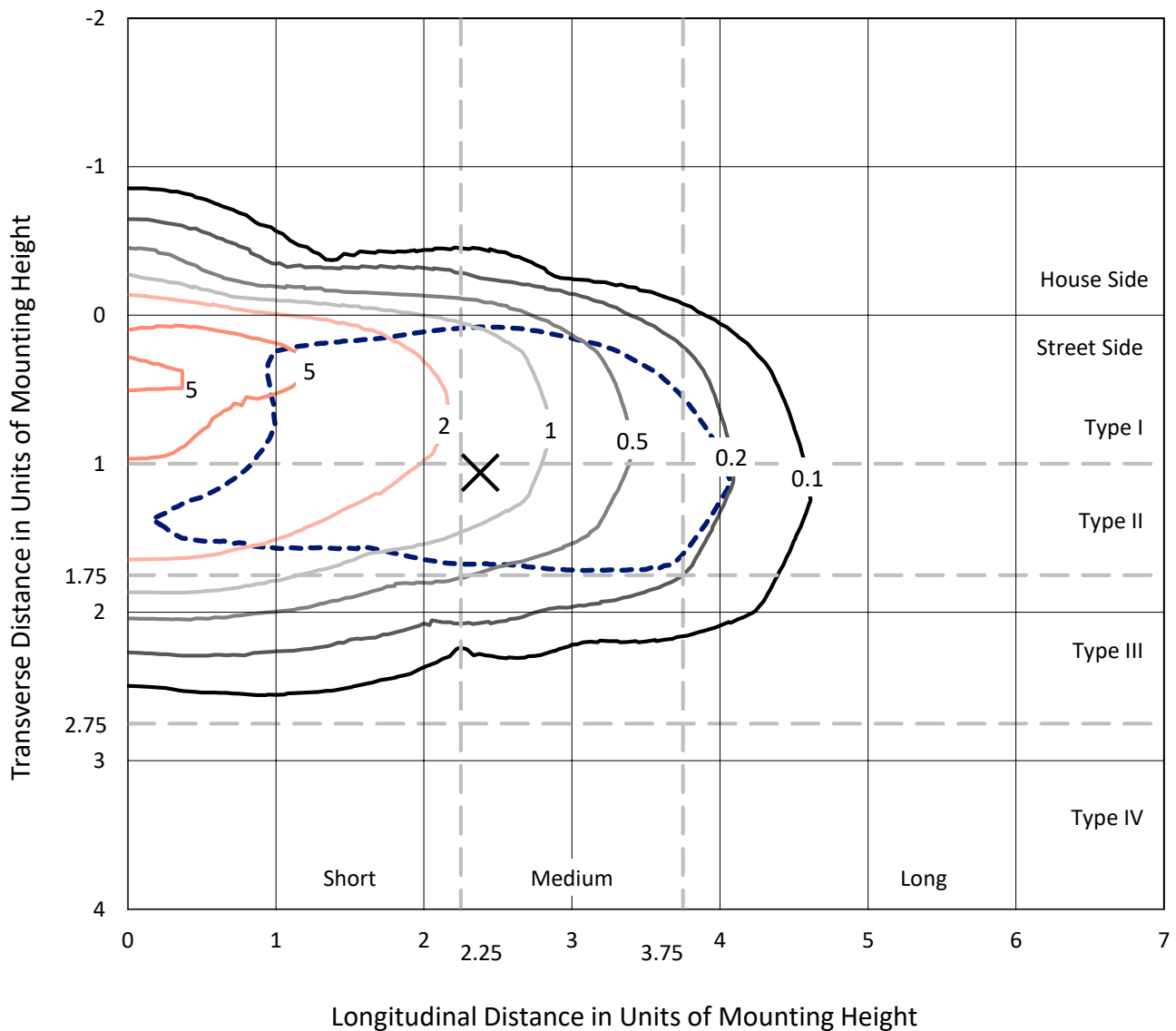


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Iso-Footcandle Lines of Horizontal Illumination

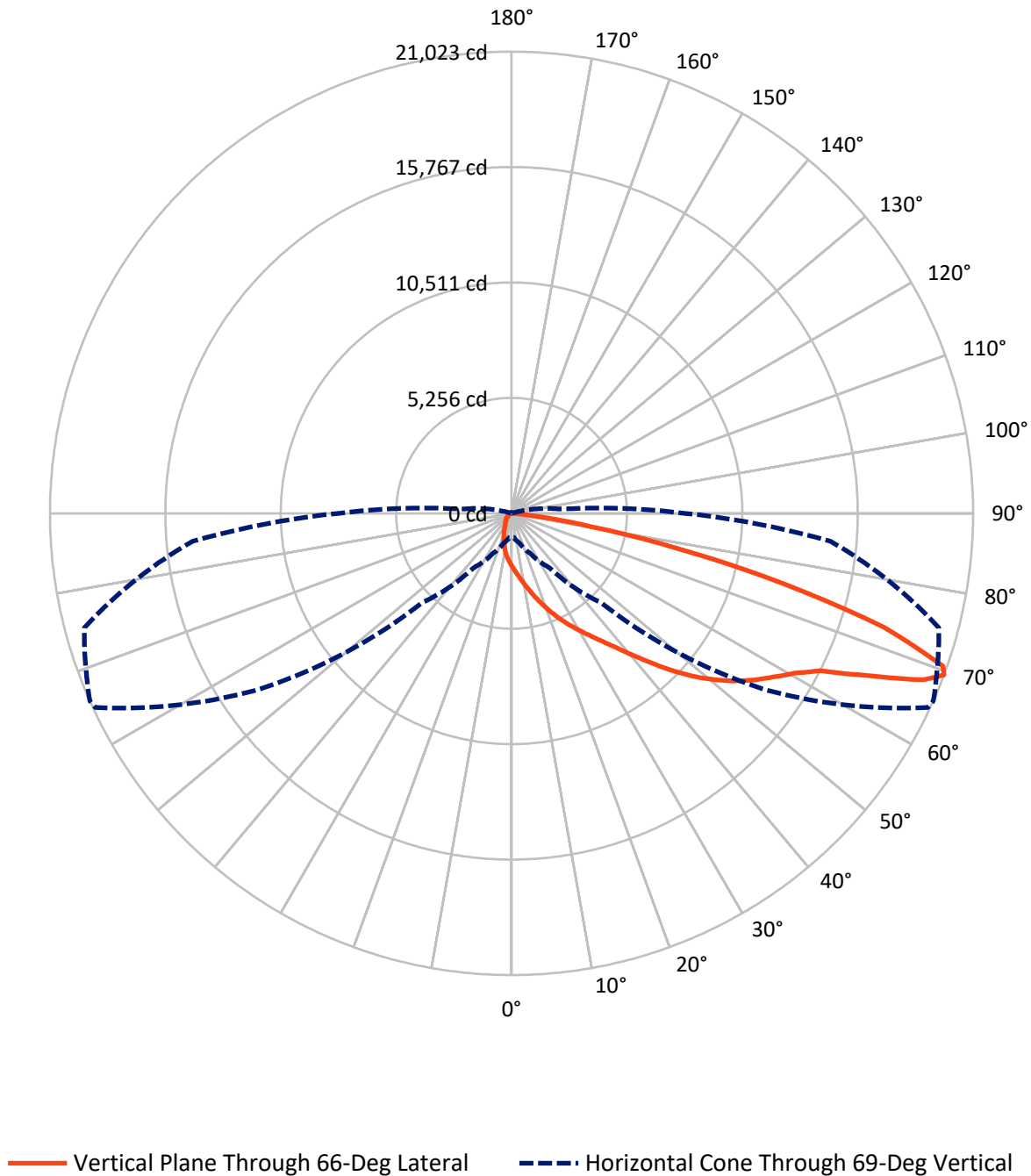
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.4 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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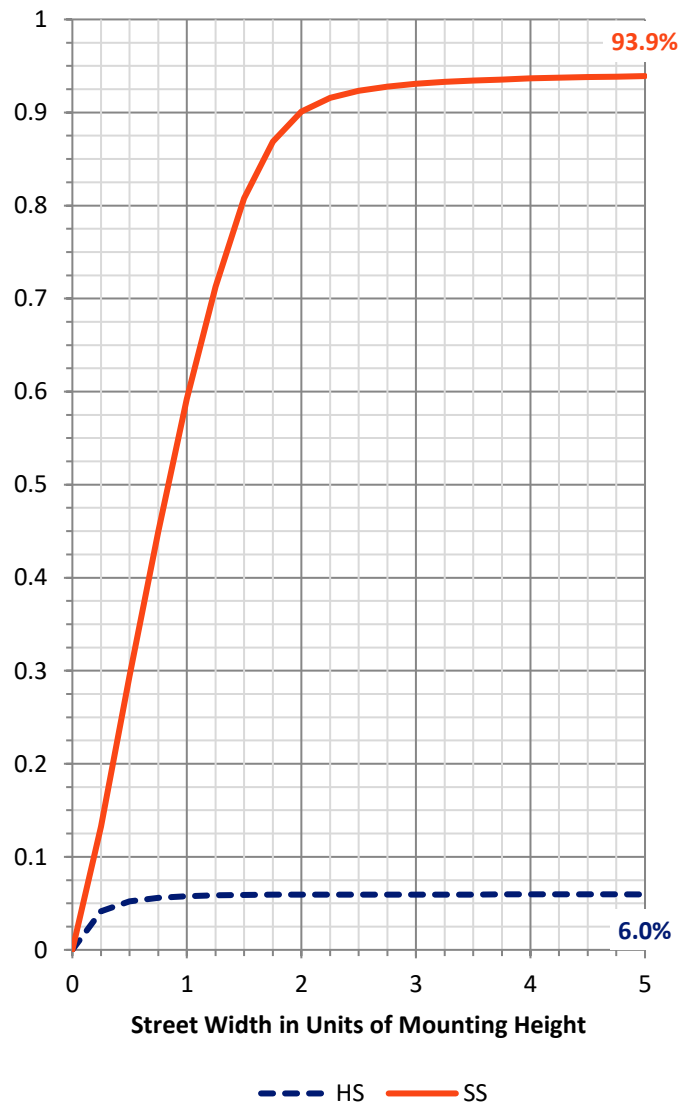
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1268.0	0.0	1268.0
	% Fixture	6.0	0.0	6.0
Street Side	Lumens	19870.0	0.0	19870.0
	% Fixture	94.0	0.0	94.0
Total	Lumens	21138.0	0.0	21138.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	232.5	1.1
10°-20°	692.1	3.3
20°-30°	1205.1	5.7
30°-40°	2114.4	10.0
40°-50°	3539.1	16.7
50°-60°	5202.2	24.6
60°-70°	5341.3	25.3
70°-80°	2636.9	12.5
80°-90°	174.3	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°	21138.0	100.0
0°-180°	21138.0	100.0

Coefficient of Utilization



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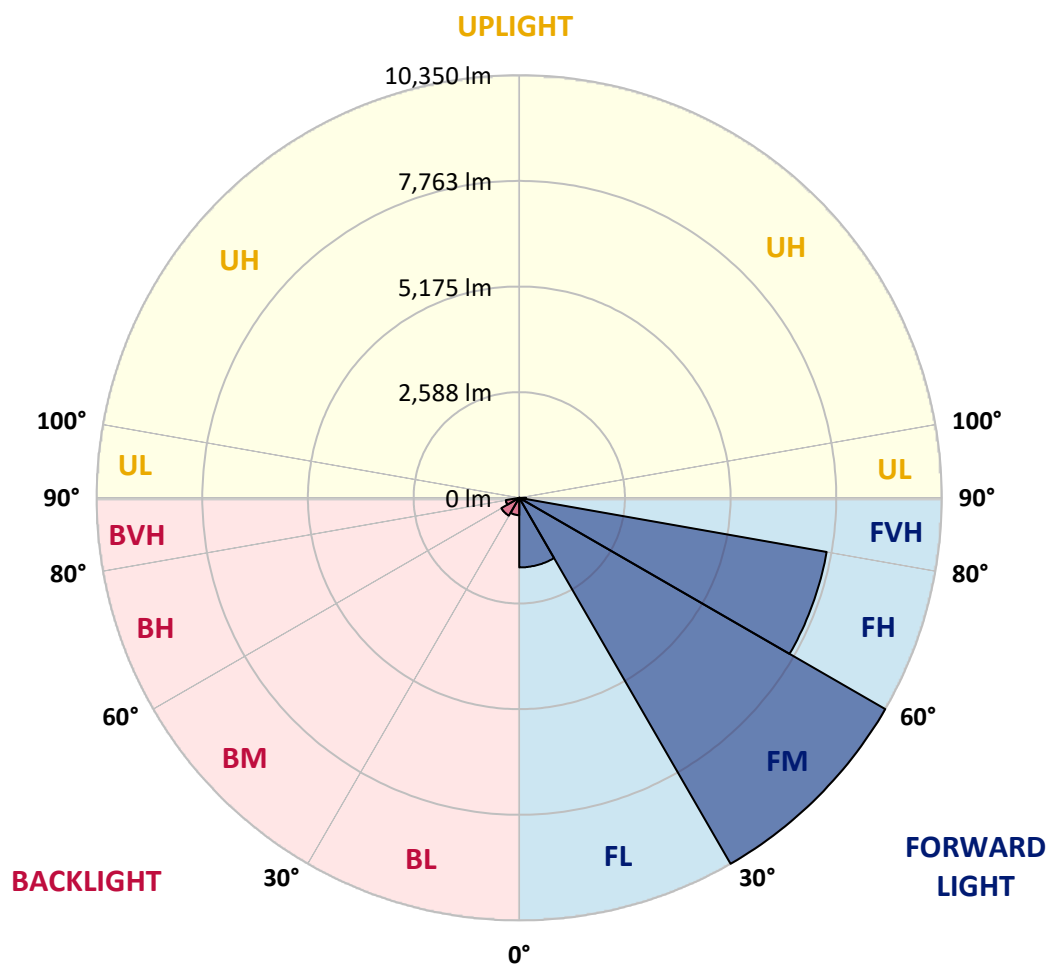
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1705.6	8.1			
FM	(30°-60°)	10350.2	49.0			
FH	(60°-80°)	7644.1	36.2			G4/12000
FVH	(80°-90°)	170.1	0.8			G2/225
BL	(0°-30°)	424.1	2.0	B1/500		
BM	(30°-60°)	505.5	2.4	B1/1000		
BH	(60°-80°)	334.2	1.6	B1/500		G1/500
BVH	(80°-90°)	4.2	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-G4

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	2405.6	2405.6	2405.6	2405.6	2405.6	2405.6	2405.6	2405.6	2405.6	2405.6	2405.6
2.5°	2831.3	2819.2	2814.2	2792.1	2754.0	2724.8	2668.6	2603.4	2591.3	2528.1	2450.8
5°	3198.7	3188.7	3181.7	3150.5	3111.4	3038.1	2935.7	2814.2	2791.1	2670.6	2516.0
7.5°	3454.7	3472.8	3472.8	3452.7	3403.5	3348.3	3222.8	3057.2	3028.0	2843.3	2603.4
10°	3604.3	3626.4	3643.5	3660.6	3653.5	3631.5	3513.0	3326.2	3291.1	3046.1	2704.8
12.5°	3618.4	3640.5	3688.7	3760.0	3829.2	3879.4	3805.1	3624.4	3584.3	3281.1	2825.2
15°	3540.1	3563.2	3637.5	3776.0	3943.7	4090.3	4114.4	3954.7	3913.6	3561.2	2975.8
17.5°	3403.5	3418.6	3525.0	3716.8	3979.8	4248.9	4394.5	4309.1	4271.0	3881.4	3143.5
20°	3302.1	3313.2	3406.6	3612.4	3957.7	4348.3	4659.5	4685.6	4645.5	4224.8	3325.2
22.5°	3475.8	3495.9	3498.9	3596.3	3897.5	4397.5	4892.5	5056.1	5026.0	4589.3	3503.9
25°	3950.7	3973.8	3897.5	3837.3	3948.7	4419.6	5092.3	5435.6	5411.5	4981.8	3683.7
27.5°	4578.2	4602.3	4503.9	4324.2	4216.8	4502.9	5270.0	5821.2	5820.2	5397.5	3877.4
30°	5194.7	5218.8	5118.4	4938.7	4691.7	4738.9	5423.6	6224.8	6230.8	5826.2	4083.2
32.5°	5841.2	5871.4	5768.0	5537.0	5279.0	5146.5	5639.4	6630.4	6664.5	6323.2	4315.2
35°	6576.2	6580.2	6434.6	6192.6	5895.5	5691.6	5985.8	7085.2	7166.5	6938.6	4609.3
37.5°	7297.0	7326.2	7206.7	6825.2	6552.1	6321.2	6500.9	7653.5	7768.9	7690.6	4993.9
40°	7831.2	7892.4	7875.3	7463.7	7204.7	7040.0	7140.4	8329.1	8475.7	8566.1	5478.8
42.5°	8166.5	8212.7	8291.0	8043.0	7808.1	7835.2	7895.4	9116.3	9297.0	9564.1	6036.0
45°	8551.0	8573.1	8638.4	8528.9	8370.3	8643.4	8696.6	10002.8	10192.6	10637.3	6654.5
47.5°	9020.9	9073.1	9091.2	8990.8	8918.5	9358.2	9468.7	10809.0	11075.1	11786.9	7309.1
50°	9619.3	9633.3	9664.5	9599.2	9526.9	9972.7	10161.4	11655.4	11897.3	12940.5	7954.7
52.5°	10204.6	10254.8	10363.2	10322.1	10293.0	10495.8	10778.9	12418.4	12688.5	13902.3	8599.2
55°	10373.3	10416.4	10790.9	11047.0	11283.9	11140.3	11369.2	13102.1	13394.3	14761.7	9219.7
57.5°	9699.6	9786.9	10435.5	11102.2	12085.1	12142.3	12180.5	13803.9	14066.0	15420.4	9865.3
60°	7996.8	8013.9	9078.1	10221.7	11952.6	13016.8	13365.2	14557.9	14777.8	16033.8	10638.3
62.5°	5086.2	5259.9	6427.6	8042.0	10551.0	12890.3	14797.9	15698.5	15778.8	16769.7	11746.7
65°	2422.6	2535.1	3376.4	4968.8	7642.4	11270.8	15786.8	17761.7	17797.8	18228.5	13227.6
67.5°	1341.3	1395.6	1796.1	2674.6	4467.8	7970.7	15387.2	20205.4	20239.5	19718.5	14526.8
69°	1049.2	1095.4	1410.6	2016.0	3029.1	5728.8	13924.4	20921.2	21022.7	20145.2	14573.0
70°	890.5	935.7	1214.8	1702.8	2435.7	4426.6	12394.3	20743.5	20851.0	20105.0	14228.6
72.5°	545.2	571.3	809.2	1198.8	1632.5	2226.9	7643.4	17542.8	17724.5	18442.4	12228.7
75°	367.5	381.5	506.0	827.3	1167.6	1146.6	3970.8	12365.2	12758.8	14346.1	9031.9
77.5°	263.0	276.1	339.4	535.1	818.3	757.0	1798.2	7684.6	7768.9	8604.2	4925.6
80°	149.6	161.6	240.0	318.3	555.2	505.0	714.8	3670.6	3712.8	3689.7	1644.5
82.5°	78.3	88.4	131.5	209.8	356.4	330.3	297.2	1228.9	1234.9	1027.1	360.4
85°	15.1	18.1	65.3	143.6	183.7	143.6	121.5	288.1	294.2	260.0	89.4
87.5°	0.0	1.0	26.1	32.1	36.1	37.1	39.2	56.2	60.2	81.3	24.1
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°	2405.6	2405.6	2405.6	2405.6	2405.6	2405.6	2405.6	2405.6	2405.6	2405.6	2405.6
2.5°	2416.6	2380.5	2311.2	2230.9	2168.6	2107.4	2059.2	2009.0	1990.9	1981.9	1980.9
5°	2440.7	2364.4	2217.8	2067.2	1943.7	1827.3	1743.9	1664.6	1627.5	1610.4	1603.4
7.5°	2480.9	2358.4	2122.4	1892.5	1714.8	1569.2	1453.8	1367.4	1324.3	1306.2	1299.2
10°	2528.1	2350.4	2011.0	1707.8	1480.9	1330.3	1215.8	1130.5	1083.3	1063.2	1053.2
12.5°	2583.3	2336.3	1882.5	1521.1	1281.1	1130.5	991.9	886.5	832.3	809.2	798.2
15°	2651.6	2322.2	1748.0	1345.4	1105.4	921.7	770.1	698.8	687.7	683.7	684.7
17.5°	2718.8	2300.2	1601.4	1171.7	920.7	719.9	642.6	638.5	640.5	640.5	640.5
20°	2779.1	2250.0	1441.7	1023.1	745.0	607.4	591.4	584.3	579.3	575.3	570.3
22.5°	2826.2	2182.7	1288.1	875.5	608.4	556.2	531.1	509.0	491.0	478.9	472.9
25°	2858.4	2093.3	1147.6	733.9	547.2	506.0	460.8	423.7	395.6	378.5	371.5
27.5°	2882.5	1996.9	1022.1	614.4	505.0	447.8	388.5	344.4	315.3	300.2	294.2
30°	2899.5	1887.5	911.6	540.1	457.8	386.5	323.3	280.1	259.0	251.0	247.0
32.5°	2915.6	1766.0	807.2	505.0	413.6	330.3	271.1	237.9	224.9	214.9	211.8
35°	2955.8	1653.6	707.8	467.9	368.5	282.1	232.9	208.8	195.8	189.8	187.7
37.5°	3051.1	1570.2	612.4	429.7	323.3	244.0	203.8	186.7	174.7	168.7	166.7
40°	3204.8	1528.1	532.1	388.5	279.1	214.9	184.7	168.7	155.6	146.6	144.6
42.5°	3430.7	1534.1	475.9	347.4	244.0	191.8	166.7	147.6	133.5	125.5	123.5
45°	3704.7	1578.3	436.7	307.2	214.9	173.7	146.6	126.5	113.5	106.4	104.4
47.5°	4001.9	1649.6	404.6	271.1	191.8	156.6	126.5	105.4	94.4	88.4	87.3
50°	4315.2	1718.8	371.5	235.9	171.7	139.6	106.4	87.3	78.3	73.3	71.3
52.5°	4632.4	1799.2	341.4	203.8	154.6	119.5	88.4	71.3	64.3	60.2	58.2
55°	4973.8	1859.4	312.2	178.7	137.5	101.4	73.3	59.2	53.2	48.2	47.2
57.5°	5375.4	1952.8	282.1	154.6	117.5	84.3	60.2	47.2	42.2	37.1	36.1
60°	5917.5	2062.2	250.0	136.5	96.4	69.3	49.2	38.2	32.1	28.1	27.1
62.5°	6632.4	2183.7	209.8	119.5	78.3	56.2	39.2	30.1	23.1	18.1	18.1
65°	7539.0	2381.5	171.7	100.4	64.3	46.2	30.1	22.1	13.1	8.0	8.0
67.5°	8068.1	2415.6	138.6	82.3	52.2	39.2	25.1	15.1	4.0	1.0	0.0
69°	7898.4	2217.8	117.5	70.3	45.2	37.1	23.1	11.0	2.0	0.0	0.0
70°	7579.2	2028.1	103.4	62.2	41.2	35.1	22.1	8.0	2.0	0.0	0.0
72.5°	6262.9	1443.7	78.3	46.2	30.1	31.1	20.1	5.0	2.0	0.0	0.0
75°	4562.2	877.5	56.2	32.1	19.1	23.1	14.1	2.0	1.0	0.0	0.0
77.5°	2538.1	413.6	35.1	18.1	12.0	14.1	7.0	0.0	0.0	0.0	0.0
80°	824.3	112.4	16.1	10.0	7.0	8.0	3.0	0.0	0.0	0.0	0.0
82.5°	152.6	32.1	9.0	5.0	2.0	2.0	0.0	0.0	0.0	0.0	0.0
85°	33.1	13.1	5.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	11.0	4.0	1.0	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)