

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: P321860

Luminaire Tested: **GAN-SA6D-727-U-T2-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321860
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-SA6D-727-U-T2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 2700K, 1200mA 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: 27608 lumens
Efficiency: N/A
Efficacy: 72.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G4

Input Watts (W): 382
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

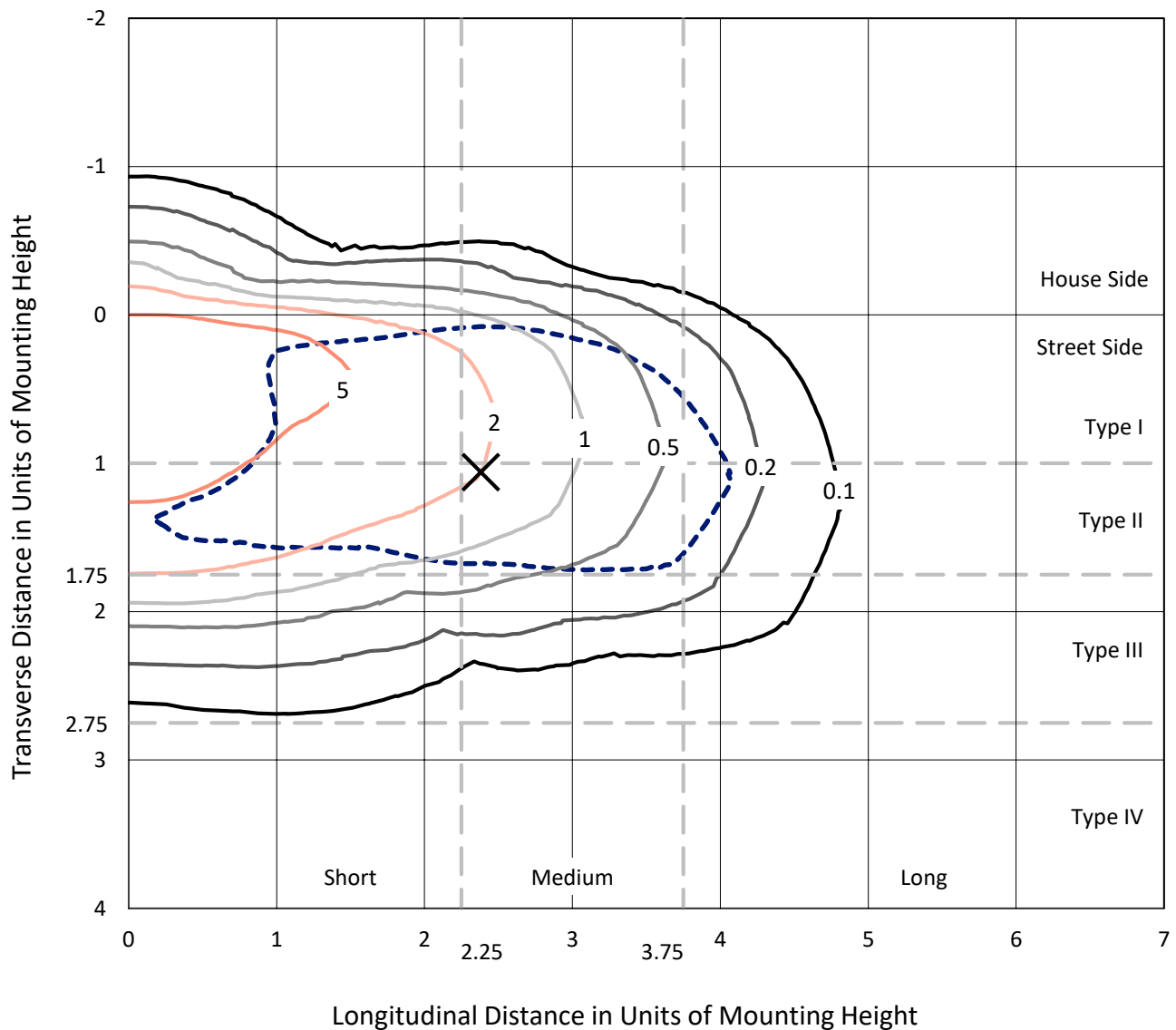


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Iso-Footcandle Lines of Horizontal Illumination

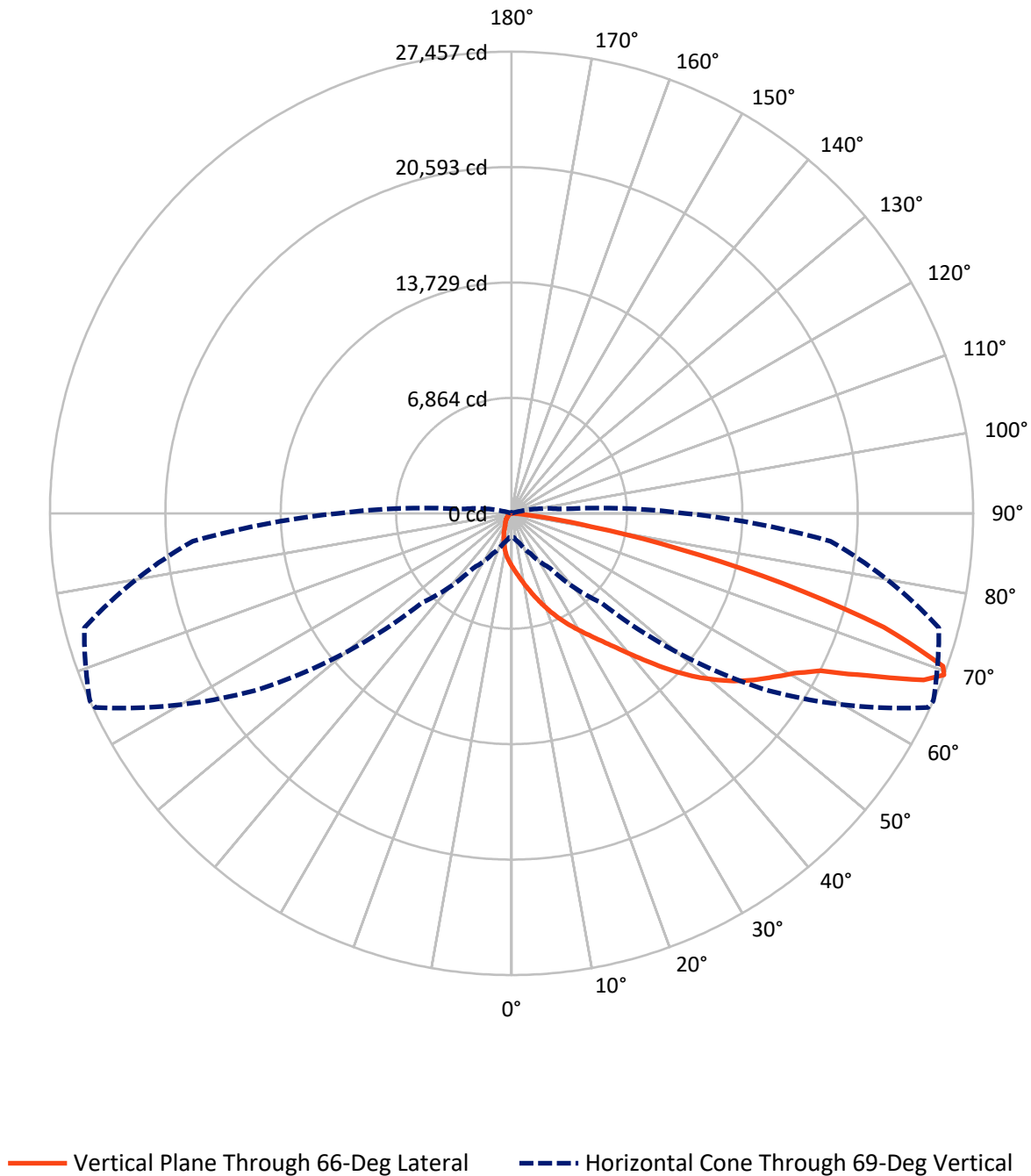
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.3 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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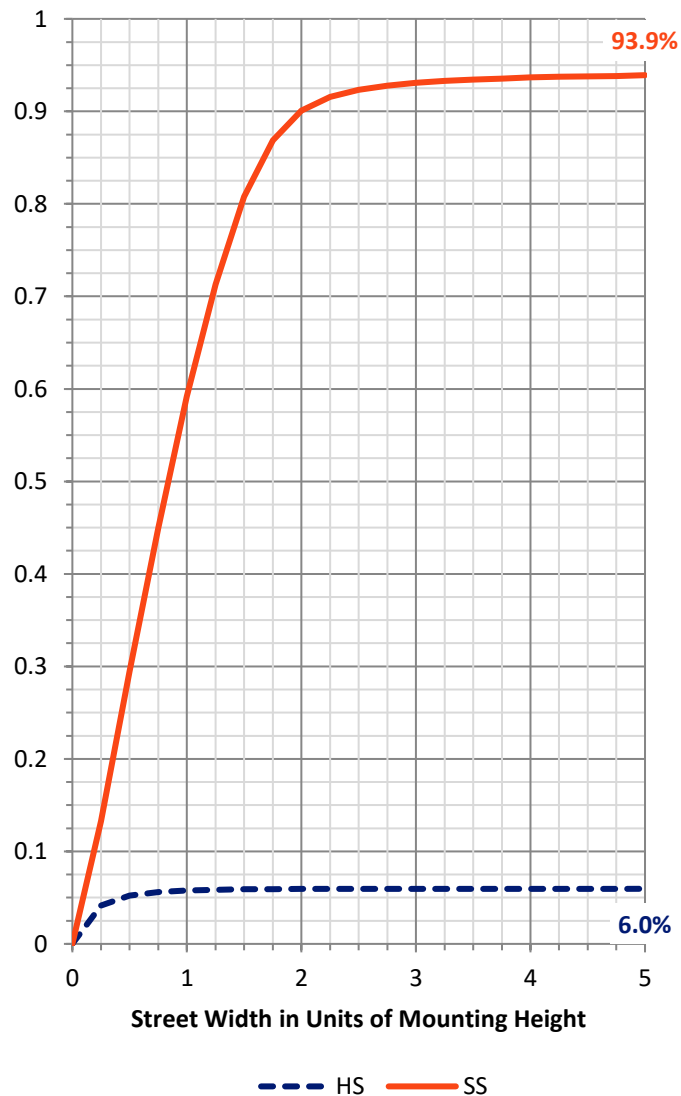
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1656.1	0.0	1656.1
	% Fixture	6.0	0.0	6.0
Street Side	Lumens	25951.9	0.0	25951.9
	% Fixture	94.0	0.0	94.0
Total	Lumens	27608.0	0.0	27608.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	303.7	1.1
10°-20°	903.9	3.3
20°-30°	1574.0	5.7
30°-40°	2761.6	10.0
40°-50°	4622.4	16.7
50°-60°	6794.5	24.6
60°-70°	6976.2	25.3
70°-80°	3444.0	12.5
80°-90°	227.7	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°	27608.0	100.0
0°-180°	27608.0	100.0

Coefficient of Utilization



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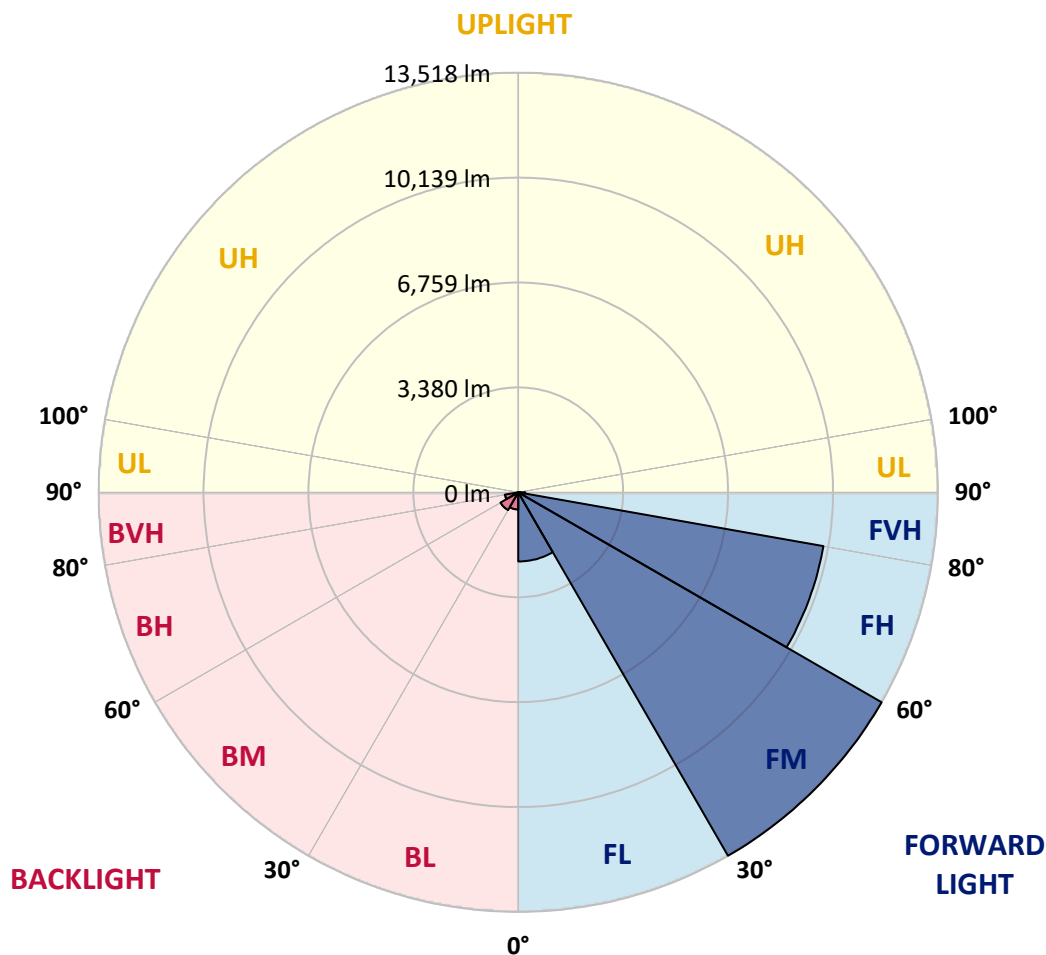
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2227.7	8.1			
FM	(30°-60°)	13518.2	49.0			
FH	(60°-80°)	9983.8	36.2			G4/12000
FVH	(80°-90°)	222.2	0.8			G2/225
BL	(0°-30°)	553.9	2.0	B2/1000		
BM	(30°-60°)	660.3	2.4	B1/1000		
BH	(60°-80°)	436.4	1.6	B1/500		G1/500
BVH	(80°-90°)	5.5	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	3141.9	3141.9	3141.9	3141.9	3141.9	3141.9	3141.9	3141.9	3141.9	3141.9	3141.9
2.5°	3697.9	3682.1	3675.6	3646.7	3596.9	3558.9	3485.4	3400.2	3384.5	3301.9	3200.9
5°	4177.8	4164.7	4155.5	4114.9	4063.7	3968.0	3834.2	3675.6	3645.4	3488.1	3286.1
7.5°	4512.2	4535.8	4535.8	4509.6	4445.3	4373.2	4209.3	3992.9	3954.9	3713.6	3400.2
10°	4707.6	4736.4	4758.7	4781.0	4771.8	4743.0	4588.2	4344.3	4298.4	3978.5	3532.6
12.5°	4725.9	4754.8	4817.7	4910.8	5001.3	5066.9	4969.8	4733.8	4681.3	4285.3	3690.0
15°	4623.7	4653.8	4750.8	4931.8	5150.8	5342.2	5373.7	5165.2	5111.5	4651.2	3886.7
17.5°	4445.3	4465.0	4604.0	4854.4	5198.0	5549.4	5739.6	5628.1	5578.3	5069.5	4105.7
20°	4312.9	4327.3	4449.2	4718.1	5169.2	5679.2	6085.8	6119.8	6067.4	5518.0	4343.0
22.5°	4539.7	4566.0	4569.9	4697.1	5090.5	5743.5	6390.0	6603.7	6564.4	5994.0	4576.4
25°	5160.0	5190.1	5090.5	5011.8	5157.3	5772.4	6650.9	7099.4	7067.9	6506.7	4811.2
27.5°	5979.5	6011.0	5882.5	5647.8	5507.5	5881.2	6883.0	7602.9	7601.6	7049.6	5064.2
30°	6784.7	6816.1	6685.0	6450.3	6127.7	6189.3	7083.7	8130.1	8137.9	7609.5	5333.1
32.5°	7629.2	7668.5	7533.4	7231.8	6894.8	6721.7	7365.6	8659.8	8704.4	8258.6	5636.0
35°	8589.0	8594.3	8404.1	8088.1	7700.0	7433.8	7818.0	9253.9	9360.1	9062.4	6020.2
37.5°	9530.5	9568.6	9412.5	8914.2	8557.6	8256.0	8490.7	9996.1	10146.9	10044.6	6522.4
40°	10228.2	10308.1	10285.9	9748.2	9409.9	9194.8	9326.0	10878.6	11070.0	11188.0	7155.8
42.5°	10666.1	10726.4	10828.7	10504.8	10198.0	10233.4	10312.1	11906.6	12142.7	12491.5	7883.5
45°	11168.4	11197.2	11282.4	11139.5	10932.3	11289.0	11358.5	13064.5	13312.3	13893.2	8691.3
47.5°	11782.0	11850.2	11873.8	11742.7	11648.3	12222.6	12366.9	14117.5	14465.0	15394.7	9546.3
50°	12563.6	12581.9	12622.6	12537.4	12442.9	13025.2	13271.7	15222.9	15538.9	16901.4	10389.4
52.5°	13328.1	13393.6	13535.3	13481.5	13443.5	13708.3	14078.1	16219.5	16572.2	18157.6	11231.3
55°	13548.4	13604.8	14093.9	14428.3	14737.7	14550.2	14849.2	17112.5	17494.1	19280.1	12041.7
57.5°	12668.5	12782.6	13629.7	14500.4	15784.1	15858.9	15908.7	18029.1	18371.3	20140.3	12884.9
60°	10444.5	10466.8	11856.8	13350.4	15611.0	17001.0	17456.0	19013.9	19301.1	20941.5	13894.6
62.5°	6643.1	6869.9	8395.0	10503.5	13780.5	16835.8	19327.3	20503.5	20608.4	21902.7	15342.2
65°	3164.2	3311.0	4409.9	6489.6	9981.6	14720.7	20618.9	23198.2	23245.4	23808.0	17276.4
67.5°	1751.9	1822.7	2345.9	3493.3	5835.3	10410.4	20097.0	26389.9	26434.5	25754.0	18973.2
69°	1370.3	1430.6	1842.4	2633.1	3956.2	7482.3	18186.4	27324.9	27457.3	26311.3	19033.5
70°	1163.1	1222.1	1586.7	2224.0	3181.2	5781.5	16188.0	27092.8	27233.1	26258.8	18583.8
72.5°	712.0	746.1	1056.9	1565.7	2132.2	2908.5	9982.9	22912.4	23149.7	24087.3	15971.7
75°	479.9	498.3	660.9	1080.5	1525.0	1497.5	5186.2	16150.0	16664.0	18737.2	11796.5
77.5°	343.6	360.6	443.2	698.9	1068.7	988.7	2348.5	10036.7	10146.9	11237.9	6433.2
80°	195.4	211.1	313.4	415.7	725.1	659.6	933.6	4794.1	4849.2	4819.0	2147.9
82.5°	102.3	115.4	171.8	274.1	465.5	431.4	388.1	1605.0	1612.9	1341.5	470.8
85°	19.7	23.6	85.2	187.5	240.0	187.5	158.7	376.3	384.2	339.6	116.7
87.5°	0.0	1.3	34.1	42.0	47.2	48.5	51.1	73.4	78.7	106.2	31.5
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°	3141.9	3141.9	3141.9	3141.9	3141.9	3141.9	3141.9	3141.9	3141.9	3141.9	3141.9
2.5°	3156.3	3109.1	3018.6	2913.7	2832.4	2752.4	2689.5	2623.9	2600.3	2588.5	2587.2
5°	3187.8	3088.1	2896.7	2700.0	2538.7	2386.6	2277.7	2174.1	2125.6	2103.3	2094.1
7.5°	3240.2	3080.2	2772.1	2471.8	2239.7	2049.6	1898.8	1786.0	1729.6	1706.0	1696.8
10°	3301.9	3069.8	2626.5	2230.5	1934.2	1737.5	1588.0	1476.5	1414.9	1388.7	1375.6
12.5°	3374.0	3051.4	2458.7	1986.6	1673.2	1476.5	1295.6	1157.9	1087.1	1056.9	1042.5
15°	3463.1	3033.0	2283.0	1757.1	1443.7	1203.8	1005.8	912.7	898.2	893.0	894.3
17.5°	3551.0	3004.2	2091.5	1530.3	1202.5	940.2	839.2	834.0	836.6	836.6	836.6
20°	3629.7	2938.6	1883.0	1336.2	973.0	793.3	772.4	763.2	756.6	751.4	744.8
22.5°	3691.3	2850.8	1682.4	1143.5	794.6	726.5	693.7	664.8	641.2	625.5	617.6
25°	3733.3	2734.1	1498.8	958.6	714.7	660.9	601.9	553.4	516.7	494.4	485.2
27.5°	3764.7	2608.2	1334.9	802.5	659.6	584.8	507.5	449.8	411.7	392.1	384.2
30°	3787.0	2465.2	1190.7	705.5	598.0	504.9	422.2	365.9	338.3	327.8	322.6
32.5°	3808.0	2306.6	1054.3	659.6	540.3	431.4	354.1	310.8	293.7	280.6	276.7
35°	3860.5	2159.7	924.5	611.1	481.2	368.5	304.2	272.8	255.7	247.8	245.2
37.5°	3985.0	2050.9	799.9	561.2	422.2	318.6	266.2	243.9	228.2	220.3	217.7
40°	4185.7	1995.8	695.0	507.5	364.5	280.6	241.3	220.3	203.3	191.5	188.8
42.5°	4480.7	2003.7	621.6	453.7	318.6	250.5	217.7	192.8	174.4	163.9	161.3
45°	4838.7	2061.4	570.4	401.3	280.6	226.9	191.5	165.2	148.2	139.0	136.4
47.5°	5226.8	2154.5	528.5	354.1	250.5	204.6	165.2	137.7	123.3	115.4	114.1
50°	5636.0	2244.9	485.2	308.2	224.2	182.3	139.0	114.1	102.3	95.7	93.1
52.5°	6050.3	2349.9	445.8	266.2	201.9	156.0	115.4	93.1	83.9	78.7	76.1
55°	6496.2	2428.5	407.8	233.4	179.6	132.4	95.7	77.4	69.5	62.9	61.6
57.5°	7020.7	2550.5	368.5	201.9	153.4	110.1	78.7	61.6	55.1	48.5	47.2
60°	7728.8	2693.4	326.5	178.3	125.9	90.5	64.3	49.8	42.0	36.7	35.4
62.5°	8662.5	2852.1	274.1	156.0	102.3	73.4	51.1	39.3	30.2	23.6	23.6
65°	9846.6	3110.4	224.2	131.1	83.9	60.3	39.3	28.8	17.0	10.5	10.5
67.5°	10537.6	3155.0	181.0	107.5	68.2	51.1	32.8	19.7	5.2	1.3	0.0
69°	10316.0	2896.7	153.4	91.8	59.0	48.5	30.2	14.4	2.6	0.0	0.0
70°	9899.0	2648.8	135.1	81.3	53.8	45.9	28.8	10.5	2.6	0.0	0.0
72.5°	8179.9	1885.7	102.3	60.3	39.3	40.7	26.2	6.6	2.6	0.0	0.0
75°	5958.6	1146.1	73.4	42.0	24.9	30.2	18.4	2.6	1.3	0.0	0.0
77.5°	3315.0	540.3	45.9	23.6	15.7	18.4	9.2	0.0	0.0	0.0	0.0
80°	1076.6	146.9	21.0	13.1	9.2	10.5	3.9	0.0	0.0	0.0	0.0
82.5°	199.3	42.0	11.8	6.6	2.6	2.6	0.0	0.0	0.0	0.0	0.0
85°	43.3	17.0	6.6	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	14.4	5.2	1.3	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)