

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: P321429

Luminaire Tested: **GAN-SA5A-830-U-T2R-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321429
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-SA5A-830-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3000K, 615mA 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: 14940 lumens
Efficiency: N/A
Efficacy: 92.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G2

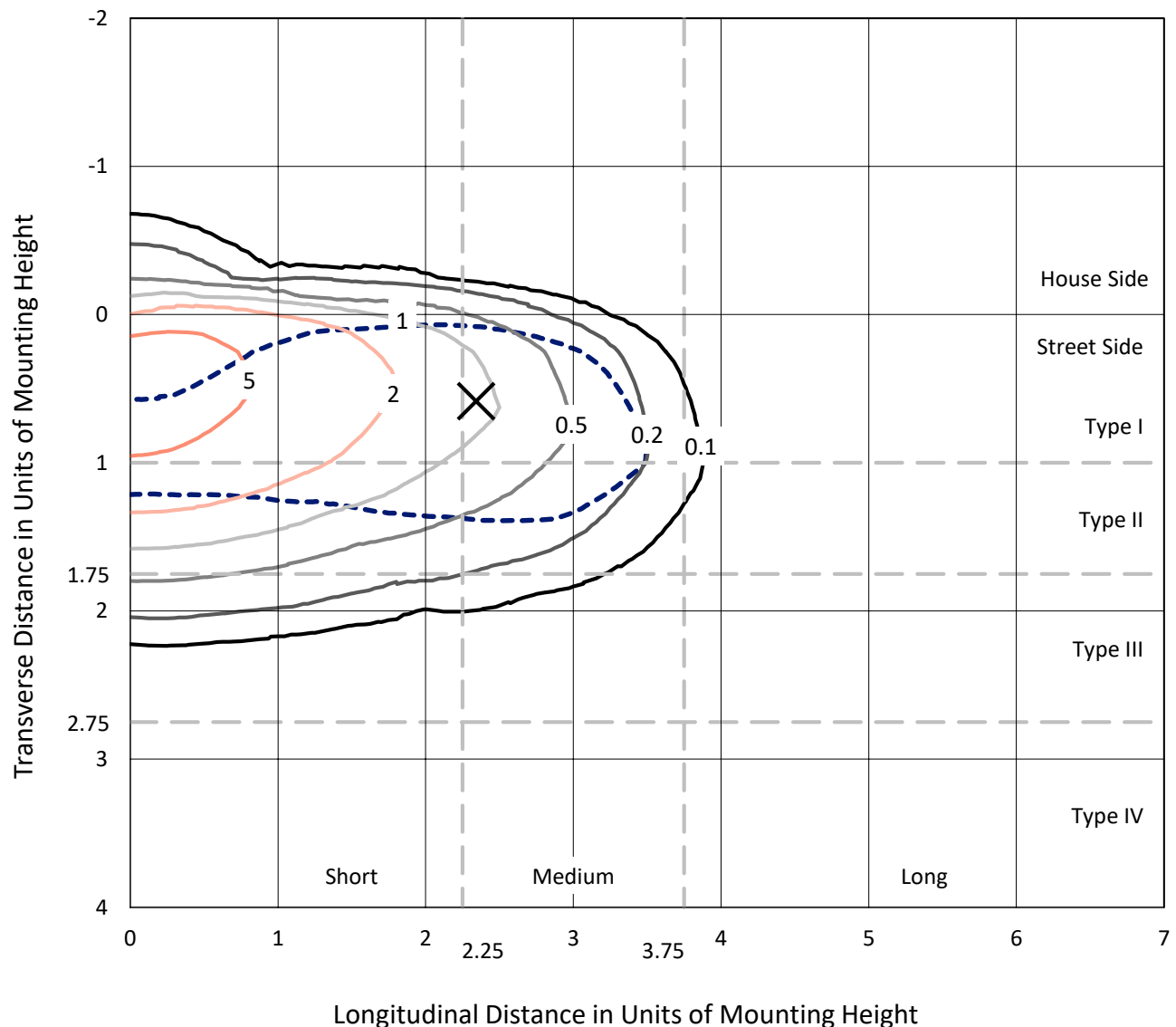
Input Watts (W): 162
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

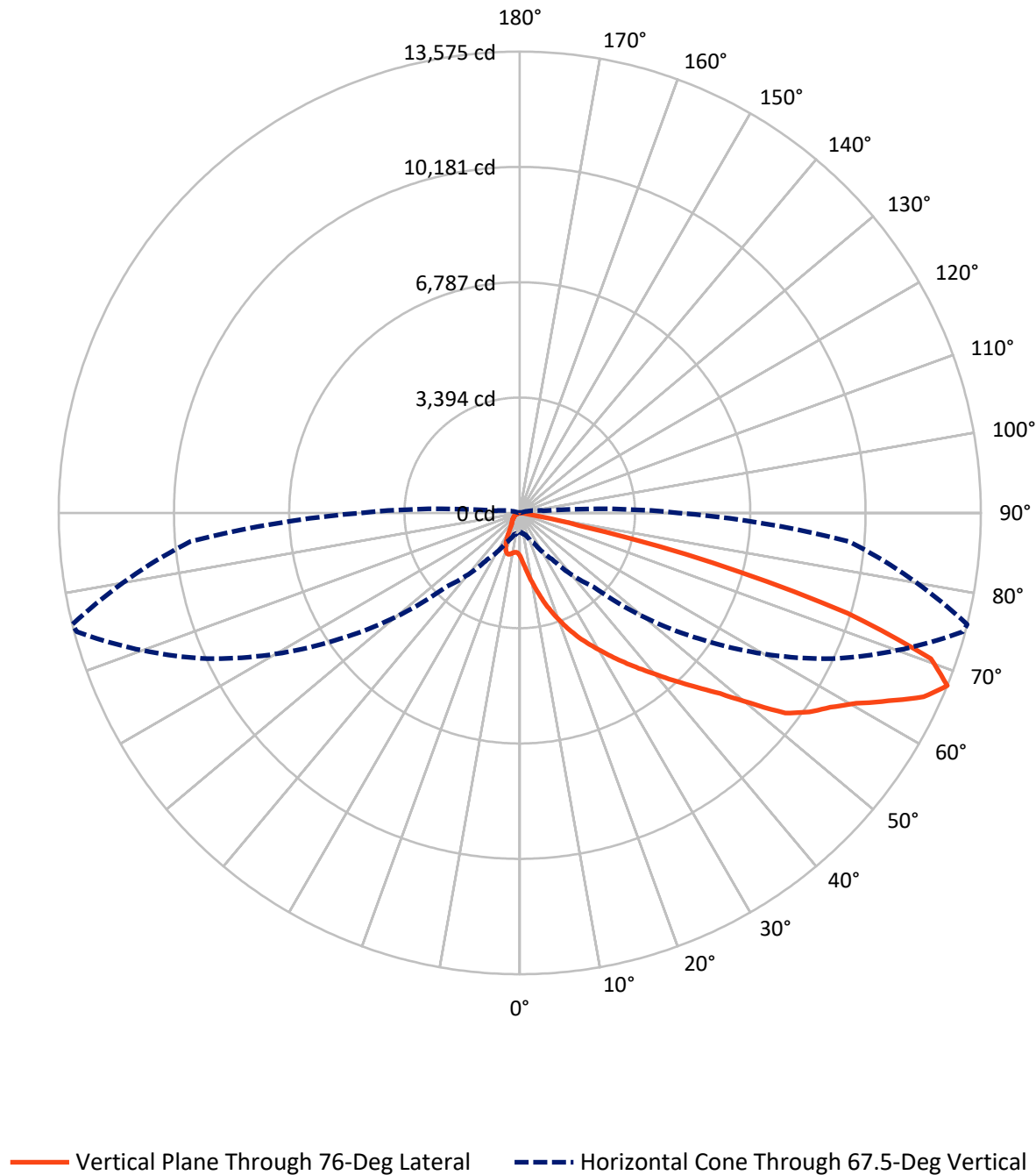
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.1 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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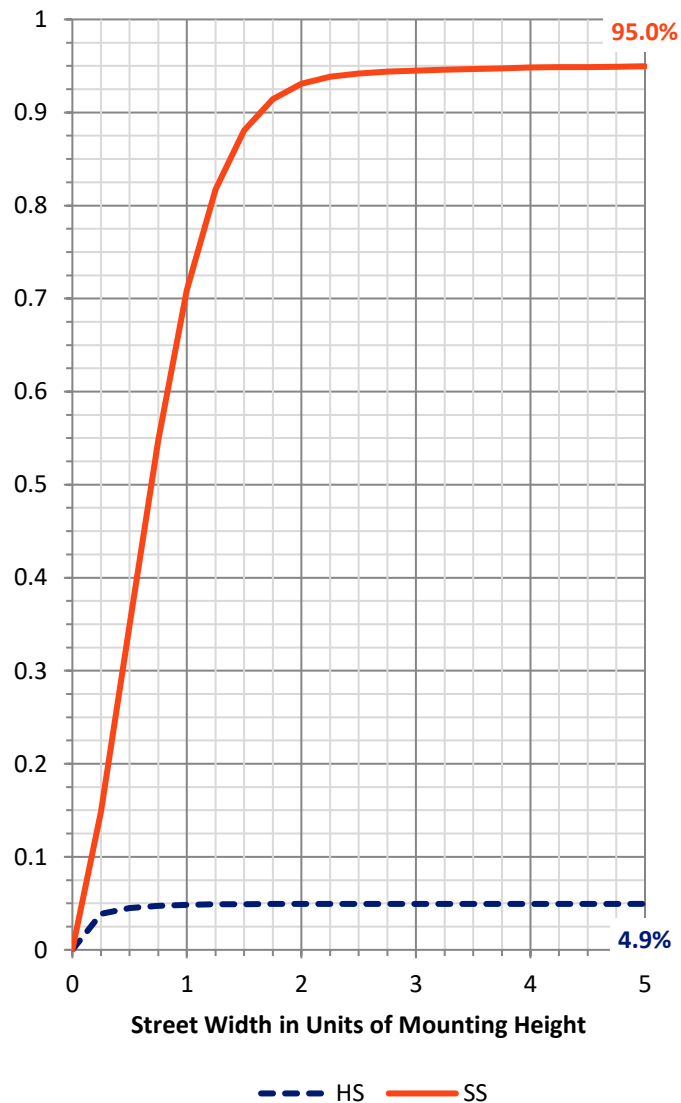
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	741.9	0.0	741.9
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	14198.1	0.0	14198.1
	% Fixture	95.0	0.0	95.0
Total	Lumens	14940.0	0.0	14940.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	157.6	1.1
10°-20°	624.7	4.2
20°-30°	1271.1	8.5
30°-40°	2206.2	14.8
40°-50°	3117.1	20.9
50°-60°	3534.9	23.7
60°-70°	2931.9	19.6
70°-80°	1062.0	7.1
80°-90°	34.4	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°	14940.0	100.0
0°-180°	14940.0	100.0

Coefficient of Utilization



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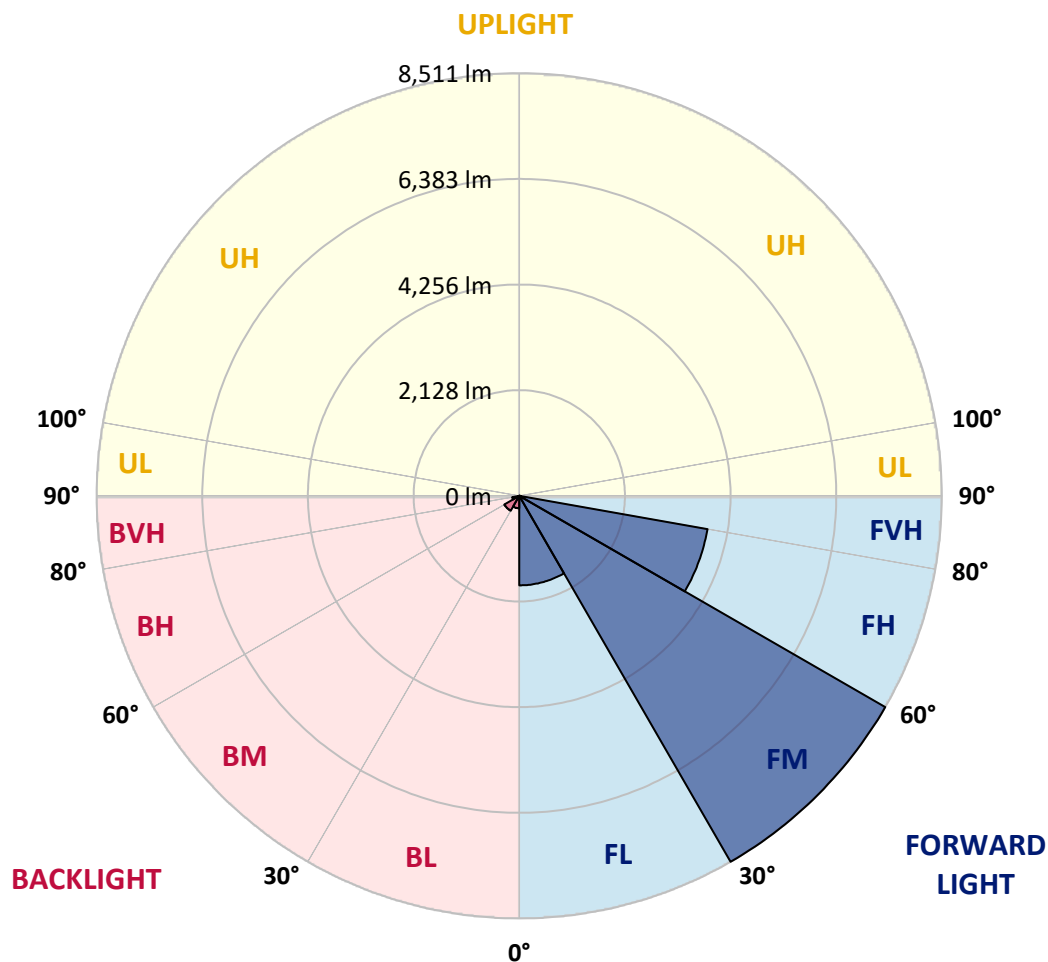
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1803.2	12.1			
FM	(30°-60°)	8511.0	57.0			
FH	(60°-80°)	3850.5	25.8			G2/5000
FVH	(80°-90°)	33.4	0.2			G1/100
BL	(0°-30°)	250.2	1.7	B1/500		
BM	(30°-60°)	347.2	2.3	B1/1000		
BH	(60°-80°)	143.4	1.0	B1/500		G1/500
BVH	(80°-90°)	1.1	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°	1267.3	1267.3	1267.3	1267.3	1267.3	1267.3	1267.3	1267.3	1267.3	1267.3	1267.3
2.5°	1891.9	1849.3	1859.1	1831.6	1781.9	1679.8	1592.7	1510.2	1414.0	1410.7	1331.5
5°	2551.1	2515.1	2510.5	2454.8	2364.5	2191.0	2022.1	1829.7	1614.9	1599.2	1431.0
7.5°	3149.4	3120.6	3110.1	3044.0	2875.7	2706.9	2486.9	2204.1	1868.3	1839.5	1565.2
10°	3608.9	3595.2	3597.8	3550.7	3406.6	3249.5	2960.8	2600.2	2155.7	2111.2	1726.2
12.5°	3957.2	3960.5	3984.0	3955.2	3874.7	3758.2	3449.8	3022.4	2473.8	2412.9	1910.2
15°	4213.1	4229.5	4272.7	4308.7	4302.8	4202.0	3919.2	3451.2	2811.6	2744.2	2115.1
17.5°	4378.8	4397.1	4459.9	4539.8	4613.1	4589.5	4372.2	3864.9	3153.3	3075.4	2334.4
20°	4524.1	4545.7	4613.1	4718.5	4855.3	4884.8	4742.1	4266.2	3494.4	3399.4	2560.9
22.5°	4839.0	4838.3	4879.5	4941.1	5071.3	5147.3	5056.9	4638.6	3831.5	3732.6	2792.0
25°	5408.5	5386.9	5372.5	5324.0	5352.8	5400.0	5349.6	4986.9	4170.6	4070.4	3026.3
27.5°	6085.3	6098.4	5981.9	5851.6	5750.8	5702.4	5619.9	5309.6	4496.6	4386.6	3255.4
30°	6799.5	6803.5	6666.0	6499.7	6277.8	6093.9	5951.2	5618.0	4831.8	4712.0	3478.0
32.5°	7443.7	7418.2	7282.0	7055.5	6775.3	6568.5	6271.9	5962.3	5186.6	5070.7	3725.4
35°	7954.3	7924.2	7758.6	7552.4	7261.7	7053.5	6696.8	6306.0	5559.7	5446.4	3973.5
37.5°	8327.4	8292.1	8121.9	7909.8	7659.1	7538.0	7189.7	6679.7	5966.9	5845.1	4234.7
40°	8457.0	8426.3	8319.6	8164.4	7962.8	7935.3	7712.7	7109.8	6410.0	6280.4	4530.6
42.5°	8379.8	8349.7	8311.7	8259.3	8175.6	8201.7	8206.3	7600.1	6902.3	6774.7	4857.3
45°	8073.4	8046.6	8085.9	8162.5	8266.5	8396.2	8656.7	8127.1	7452.2	7316.0	5235.0
47.5°	7622.4	7602.8	7711.4	7902.6	8207.0	8564.4	9068.5	8680.9	8069.5	7943.2	5706.3
50°	6980.9	6977.6	7194.9	7543.8	8011.9	8645.6	9494.0	9310.7	8927.1	8794.2	6361.6
52.5°	5981.9	5988.5	6415.9	6974.3	7669.5	8590.6	9767.6	10119.8	9924.7	9786.6	6929.2
55°	5030.8	5070.0	5373.1	6178.3	7144.5	8386.3	9861.9	10497.5	10475.2	10344.3	7244.7
57.5°	4099.2	4170.6	4462.5	5214.7	6378.0	7915.7	9810.1	10661.1	10885.0	10784.9	7661.0
60°	3089.8	3122.5	3459.0	4162.1	5394.1	7056.8	9435.0	10750.2	11445.4	11376.0	8265.2
62.5°	1965.8	2047.7	2346.2	3024.3	4200.0	5864.1	8802.7	10748.9	12146.5	12184.4	9044.9
65°	1035.6	1131.2	1289.6	1874.2	2886.2	4531.9	7851.5	10648.1	13006.6	13059.7	9654.3
67.5°	558.4	585.9	669.7	972.8	1673.9	3070.2	6453.9	10150.5	13504.8	13574.9	9739.4
70°	408.5	423.5	455.0	538.1	842.5	1783.2	4709.3	9022.6	12862.6	12836.4	8653.4
72.5°	313.6	337.1	360.7	394.1	484.4	951.8	2932.0	7065.3	10263.1	10090.3	6468.3
75°	247.4	251.4	284.8	314.9	363.3	542.0	1302.0	4114.9	6264.1	5854.9	3354.3
77.5°	197.7	200.3	220.0	246.1	292.0	356.1	403.2	1618.9	1999.9	1784.5	727.9
80°	117.2	123.7	163.7	189.8	242.2	224.5	147.3	351.5	312.3	282.8	122.4
82.5°	65.5	70.7	92.3	149.9	168.9	107.4	73.3	94.9	73.3	71.4	34.7
85°	0.0	3.3	59.6	93.0	68.7	23.6	30.8	31.4	21.6	20.3	13.7
87.5°	0.0	0.0	18.3	17.7	2.6	3.9	7.2	10.5	8.5	8.5	7.2
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°	1267.3	1267.3	1267.3	1267.3	1267.3	1267.3	1267.3	1267.3	1267.3	1267.3	1267.3
2.5°	1292.2	1256.9	1190.1	1124.6	1069.6	1024.5	983.9	967.5	954.4	952.5	942.0
5°	1349.8	1278.5	1150.8	1046.1	976.0	926.3	883.7	857.6	837.3	829.4	822.2
7.5°	1436.9	1328.9	1145.6	1025.1	941.3	857.6	779.0	693.9	640.9	620.6	608.8
10°	1542.9	1395.7	1165.2	1019.2	872.6	695.9	565.6	457.6	413.7	399.3	395.4
12.5°	1666.7	1478.8	1199.3	982.6	726.0	494.2	390.2	353.5	343.7	339.1	339.1
15°	1808.7	1569.8	1223.5	876.5	536.8	373.8	337.8	320.8	310.3	304.4	305.1
17.5°	1954.0	1658.8	1211.7	722.7	396.0	332.5	305.7	287.4	273.0	267.1	265.8
20°	2100.7	1741.3	1146.2	538.1	335.2	301.8	271.7	251.4	237.0	231.1	229.8
22.5°	2252.5	1811.3	1031.0	394.7	301.1	267.7	238.3	218.0	204.2	199.0	196.4
25°	2400.5	1868.3	870.0	319.5	269.0	235.7	207.5	188.5	176.1	170.9	170.2
27.5°	2538.6	1904.3	683.4	282.1	240.9	206.9	181.3	164.3	153.8	149.9	149.3
30°	2663.0	1907.6	505.4	254.6	216.0	182.0	158.4	143.4	134.2	130.3	129.0
32.5°	2788.7	1880.1	367.9	229.8	193.1	160.4	137.5	125.7	119.1	115.9	115.9
35°	2907.2	1816.6	286.7	208.2	170.9	139.4	121.1	112.6	108.7	105.4	105.4
37.5°	3023.0	1725.6	243.5	189.2	149.9	121.8	106.7	101.5	98.2	94.9	94.9
40°	3140.9	1611.0	221.3	171.5	132.9	108.0	94.9	90.3	87.1	84.4	83.8
42.5°	3285.5	1478.8	206.9	155.1	117.8	95.6	83.8	78.6	75.9	73.3	72.0
45°	3453.1	1364.9	195.1	138.8	105.4	85.1	72.7	67.4	63.5	60.2	59.6
47.5°	3694.7	1282.4	179.4	121.1	93.6	74.0	62.8	57.0	51.1	47.8	47.1
50°	4003.0	1214.3	159.1	105.4	81.8	62.8	52.4	45.2	39.9	36.7	36.7
52.5°	4156.2	1125.3	140.7	91.6	68.7	53.0	42.6	34.0	31.4	28.1	28.1
55°	4217.7	1057.2	122.4	77.9	57.0	43.9	33.4	26.2	24.2	22.3	21.6
57.5°	4390.5	1037.6	106.7	66.1	47.1	34.7	25.5	19.6	18.3	15.7	15.7
60°	4668.8	1047.4	92.3	56.3	38.0	26.8	19.0	15.1	13.7	11.1	11.1
62.5°	4969.2	1035.0	77.9	48.4	29.5	19.6	13.1	11.1	11.1	6.5	5.9
65°	5026.8	921.7	66.8	39.9	22.9	14.4	8.5	7.2	9.8	1.3	0.0
67.5°	4665.5	714.8	57.6	30.8	17.0	11.1	6.5	3.3	8.5	0.0	0.0
70°	3730.7	454.3	46.5	22.3	13.1	9.2	5.2	1.3	6.5	0.0	0.0
72.5°	2638.1	263.8	36.7	15.7	11.1	7.2	3.9	0.0	3.9	0.0	0.0
75°	1334.1	140.7	22.9	11.8	8.5	5.2	2.6	0.0	0.7	0.0	0.0
77.5°	288.7	65.5	14.4	8.5	5.9	3.3	1.3	0.0	0.0	0.0	0.0
80°	62.8	28.8	9.2	5.2	3.3	2.0	0.0	0.0	0.0	0.0	0.0
82.5°	22.9	15.1	4.6	2.6	1.3	0.0	0.0	0.0	0.0	0.0	0.0
85°	12.4	7.9	2.6	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	6.5	2.6	0.7	0.7	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)