

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: P321356

Luminaire Tested: **GAN-SA2B-760-U-T2R-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321356
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-SA2B-760-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 5700K, 800mA 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: 9437 lumens
Efficiency: N/A
Efficacy: 111.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G2

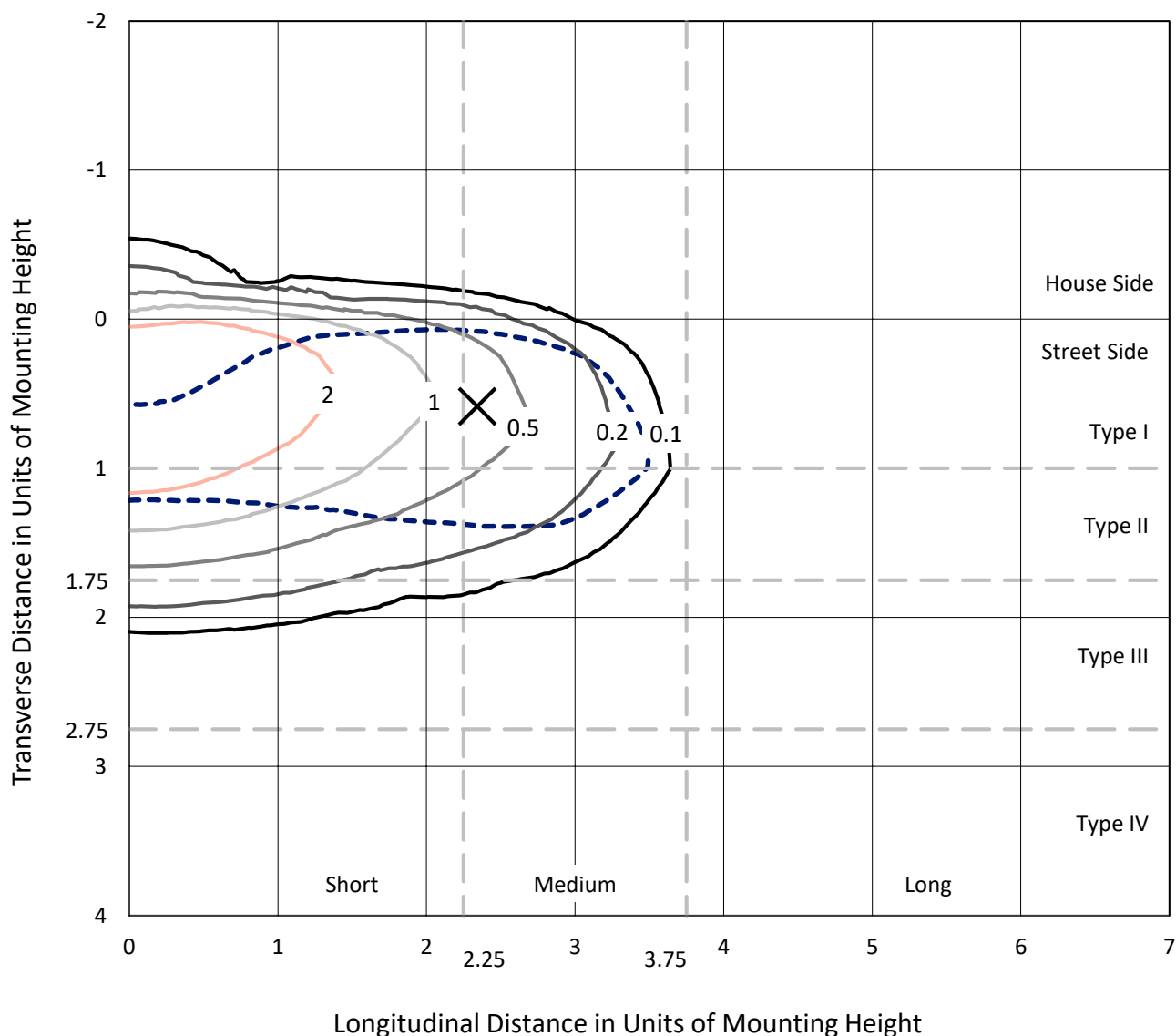
Input Watts (W): 85
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

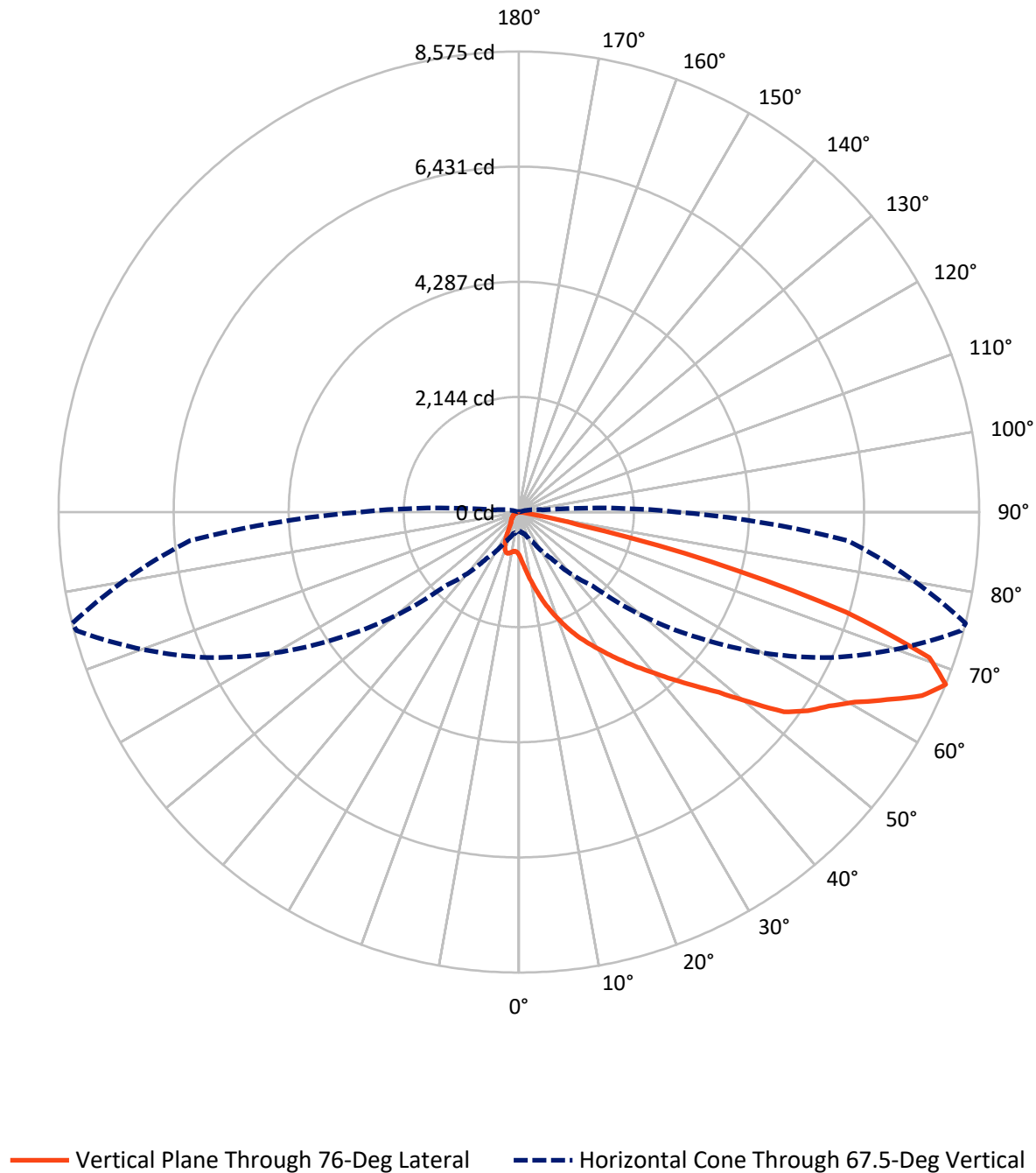
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.5 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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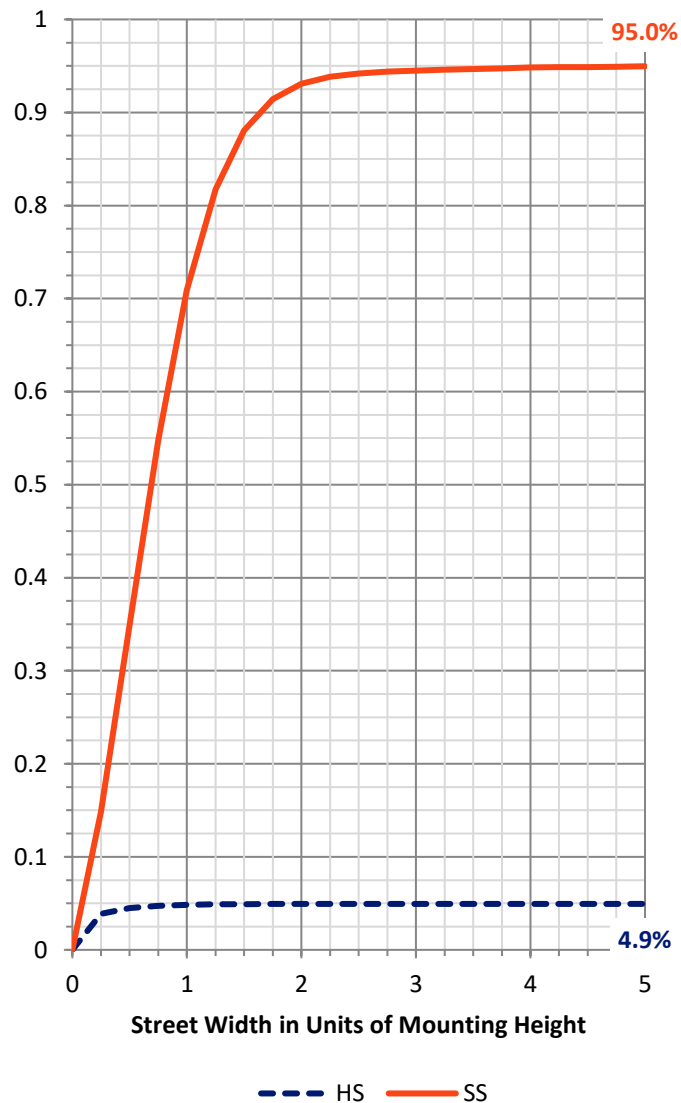
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	468.6	0.0	468.6
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	8968.4	0.0	8968.4
	% Fixture	95.0	0.0	95.0
Total	Lumens	9437.0	0.0	9437.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	99.5	1.1
10°-20°	394.6	4.2
20°-30°	802.9	8.5
30°-40°	1393.6	14.8
40°-50°	1968.9	20.9
50°-60°	2232.9	23.7
60°-70°	1852.0	19.6
70°-80°	670.8	7.1
80°-90°	21.8	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°	9437.0	100.0
0°-180°	9437.0	100.0

Coefficient of Utilization



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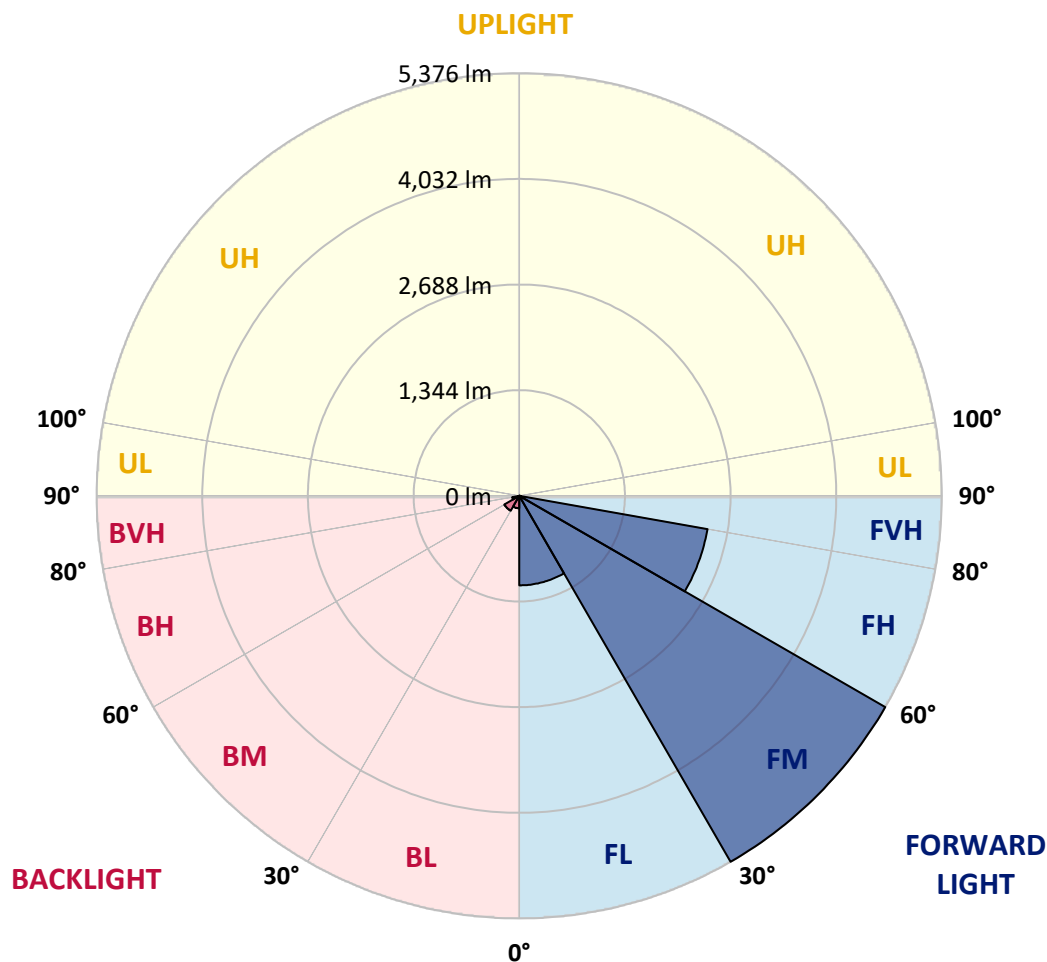
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1139.0	12.1			
FM	(30°-60°)	5376.1	57.0			
FH	(60°-80°)	2432.2	25.8			G2/5000
FVH	(80°-90°)	21.1	0.2			G1/100
BL	(0°-30°)	158.0	1.7	B1/500		
BM	(30°-60°)	219.3	2.3	B0/220		
BH	(60°-80°)	90.6	1.0	B0/110		G0/110
BVH	(80°-90°)	0.7	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°	800.5	800.5	800.5	800.5	800.5	800.5	800.5	800.5	800.5	800.5	800.5
2.5°	1195.0	1168.1	1174.3	1157.0	1125.5	1061.0	1006.0	953.9	893.2	891.1	841.1
5°	1611.4	1588.7	1585.8	1550.6	1493.6	1384.0	1277.3	1155.7	1020.1	1010.2	903.9
7.5°	1989.3	1971.1	1964.5	1922.8	1816.5	1709.8	1570.9	1392.2	1180.1	1161.9	988.7
10°	2279.6	2270.9	2272.6	2242.8	2151.8	2052.6	1870.2	1642.4	1361.6	1333.5	1090.4
12.5°	2499.6	2501.7	2516.5	2498.4	2447.5	2373.9	2179.1	1909.1	1562.6	1524.2	1206.6
15°	2661.3	2671.6	2698.9	2721.6	2717.9	2654.2	2475.6	2180.0	1776.0	1733.4	1336.0
17.5°	2765.9	2777.5	2817.2	2867.6	2913.9	2899.0	2761.7	2441.3	1991.8	1942.6	1474.5
20°	2857.7	2871.3	2913.9	2980.5	3066.9	3085.5	2995.4	2694.8	2207.2	2147.3	1617.6
22.5°	3056.6	3056.2	3082.2	3121.1	3203.4	3251.3	3194.3	2930.0	2420.2	2357.8	1763.6
25°	3416.3	3402.7	3393.6	3363.0	3381.2	3410.9	3379.1	3150.0	2634.4	2571.1	1911.6
27.5°	3843.9	3852.1	3778.5	3696.3	3632.6	3602.0	3549.9	3353.9	2840.3	2770.8	2056.3
30°	4295.0	4297.5	4210.6	4105.6	3965.4	3849.2	3759.1	3548.6	3052.0	2976.4	2196.9
32.5°	4701.9	4685.8	4599.7	4456.7	4279.7	4149.0	3961.7	3766.1	3276.1	3203.0	2353.2
35°	5024.4	5005.4	4900.8	4770.5	4586.9	4455.4	4230.1	3983.2	3511.8	3440.3	2509.9
37.5°	5260.1	5237.8	5130.3	4996.3	4837.9	4761.4	4541.4	4219.3	3769.0	3692.1	2674.9
40°	5342.0	5322.5	5255.1	5157.1	5029.8	5012.4	4871.8	4491.0	4049.0	3967.1	2861.8
42.5°	5293.2	5274.2	5250.2	5217.1	5164.2	5180.7	5183.6	4800.7	4359.9	4279.3	3068.2
45°	5099.7	5082.7	5107.5	5155.9	5221.6	5303.5	5468.1	5133.6	4707.3	4621.2	3306.7
47.5°	4814.8	4802.4	4871.0	4991.7	5184.0	5409.8	5728.2	5483.4	5097.2	5017.4	3604.5
50°	4409.5	4407.5	4544.7	4765.1	5060.8	5461.1	5997.0	5881.2	5638.9	5554.9	4018.4
52.5°	3778.5	3782.7	4052.7	4405.4	4844.5	5426.3	6169.8	6392.3	6269.0	6181.8	4376.9
55°	3177.7	3202.5	3394.0	3902.6	4512.9	5297.3	6229.3	6630.8	6616.8	6534.1	4576.2
57.5°	2589.3	2634.4	2818.8	3293.9	4028.7	5000.0	6196.7	6734.2	6875.6	6812.4	4839.2
60°	1951.7	1972.4	2184.9	2629.0	3407.2	4457.5	5959.7	6790.5	7229.6	7185.8	5220.8
62.5°	1241.7	1293.4	1482.0	1910.4	2653.0	3704.1	5560.3	6789.6	7672.4	7696.4	5713.3
65°	654.2	714.5	814.6	1183.8	1823.1	2862.6	4959.5	6725.9	8215.8	8249.3	6098.3
67.5°	352.7	370.1	423.0	614.5	1057.3	1939.3	4076.7	6411.7	8530.5	8574.7	6152.0
70°	258.0	267.5	287.4	339.9	532.2	1126.4	2974.7	5699.2	8124.8	8108.3	5466.0
72.5°	198.1	213.0	227.8	248.9	306.0	601.2	1852.1	4462.9	6482.8	6373.6	4085.8
75°	156.3	158.8	179.9	198.9	229.5	342.4	822.4	2599.2	3956.8	3698.3	2118.8
77.5°	124.9	126.5	138.9	155.5	184.4	224.9	254.7	1022.6	1263.2	1127.2	459.8
80°	74.0	78.2	103.4	119.9	153.0	141.8	93.0	222.0	197.2	178.6	77.3
82.5°	41.3	44.7	58.3	94.7	106.7	67.8	46.3	60.0	46.3	45.1	21.9
85°	0.0	2.1	37.6	58.7	43.4	14.9	19.4	19.8	13.6	12.8	8.7
87.5°	0.0	0.0	11.6	11.2	1.7	2.5	4.5	6.6	5.4	5.4	4.5
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°	800.5	800.5	800.5	800.5	800.5	800.5	800.5	800.5	800.5	800.5	800.5
2.5°	816.2	793.9	751.7	710.4	675.7	647.1	621.5	611.1	602.9	601.6	595.0
5°	852.6	807.6	726.9	660.8	616.5	585.1	558.2	541.7	528.9	523.9	519.4
7.5°	907.6	839.4	723.6	647.5	594.6	541.7	492.1	438.3	404.8	392.0	384.6
10°	974.6	881.6	736.0	643.8	551.2	439.5	357.3	289.0	261.3	252.2	249.8
12.5°	1052.8	934.1	757.5	620.7	458.6	312.2	246.4	223.3	217.1	214.2	214.2
15°	1142.5	991.6	772.8	553.7	339.1	236.1	213.4	202.6	196.0	192.3	192.7
17.5°	1234.3	1047.8	765.4	456.5	250.2	210.1	193.1	181.5	172.4	168.7	167.9
20°	1326.9	1099.9	724.0	339.9	211.7	190.6	171.6	158.8	149.7	146.0	145.1
22.5°	1422.8	1144.1	651.3	249.3	190.2	169.1	150.5	137.7	129.0	125.7	124.0
25°	1516.3	1180.1	549.5	201.8	169.9	148.9	131.1	119.1	111.2	107.9	107.5
27.5°	1603.5	1202.9	431.7	178.2	152.2	130.7	114.5	103.8	97.2	94.7	94.3
30°	1682.1	1204.9	319.2	160.9	136.5	115.0	100.1	90.6	84.8	82.3	81.5
32.5°	1761.5	1187.6	232.4	145.1	122.0	101.3	86.8	79.4	75.3	73.2	73.2
35°	1836.3	1147.5	181.1	131.5	107.9	88.1	76.5	71.1	68.6	66.6	66.6
37.5°	1909.5	1090.0	153.8	119.5	94.7	76.9	67.4	64.1	62.0	60.0	60.0
40°	1984.0	1017.6	139.8	108.3	83.9	68.2	60.0	57.1	55.0	53.3	52.9
42.5°	2075.3	934.1	130.7	98.0	74.4	60.4	52.9	49.6	48.0	46.3	45.5
45°	2181.2	862.1	123.2	87.7	66.6	53.8	45.9	42.6	40.1	38.0	37.6
47.5°	2333.8	810.0	113.3	76.5	59.1	46.7	39.7	36.0	32.3	30.2	29.8
50°	2528.5	767.0	100.5	66.6	51.7	39.7	33.1	28.5	25.2	23.2	23.2
52.5°	2625.3	710.8	88.9	57.9	43.4	33.5	26.9	21.5	19.8	17.8	17.8
55°	2664.2	667.8	77.3	49.2	36.0	27.7	21.1	16.5	15.3	14.1	13.6
57.5°	2773.3	655.4	67.4	41.8	29.8	21.9	16.1	12.4	11.6	9.9	9.9
60°	2949.1	661.6	58.3	35.6	24.0	17.0	12.0	9.5	8.7	7.0	7.0
62.5°	3138.9	653.7	49.2	30.6	18.6	12.4	8.3	7.0	7.0	4.1	3.7
65°	3175.2	582.2	42.2	25.2	14.5	9.1	5.4	4.5	6.2	0.8	0.0
67.5°	2947.0	451.5	36.4	19.4	10.8	7.0	4.1	2.1	5.4	0.0	0.0
70°	2356.5	287.0	29.4	14.1	8.3	5.8	3.3	0.8	4.1	0.0	0.0
72.5°	1666.4	166.6	23.2	9.9	7.0	4.5	2.5	0.0	2.5	0.0	0.0
75°	842.7	88.9	14.5	7.4	5.4	3.3	1.7	0.0	0.4	0.0	0.0
77.5°	182.4	41.3	9.1	5.4	3.7	2.1	0.8	0.0	0.0	0.0	0.0
80°	39.7	18.2	5.8	3.3	2.1	1.2	0.0	0.0	0.0	0.0	0.0
82.5°	14.5	9.5	2.9	1.7	0.8	0.0	0.0	0.0	0.0	0.0	0.0
85°	7.9	5.0	1.7	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	4.1	1.7	0.4	0.4	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)