

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: P324916

Luminaire Tested: **GAN-SA2B-827-U-AFL-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P324916
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-30)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA2B-827-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7037 lumens
Efficiency: N/A
Efficacy: 82.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

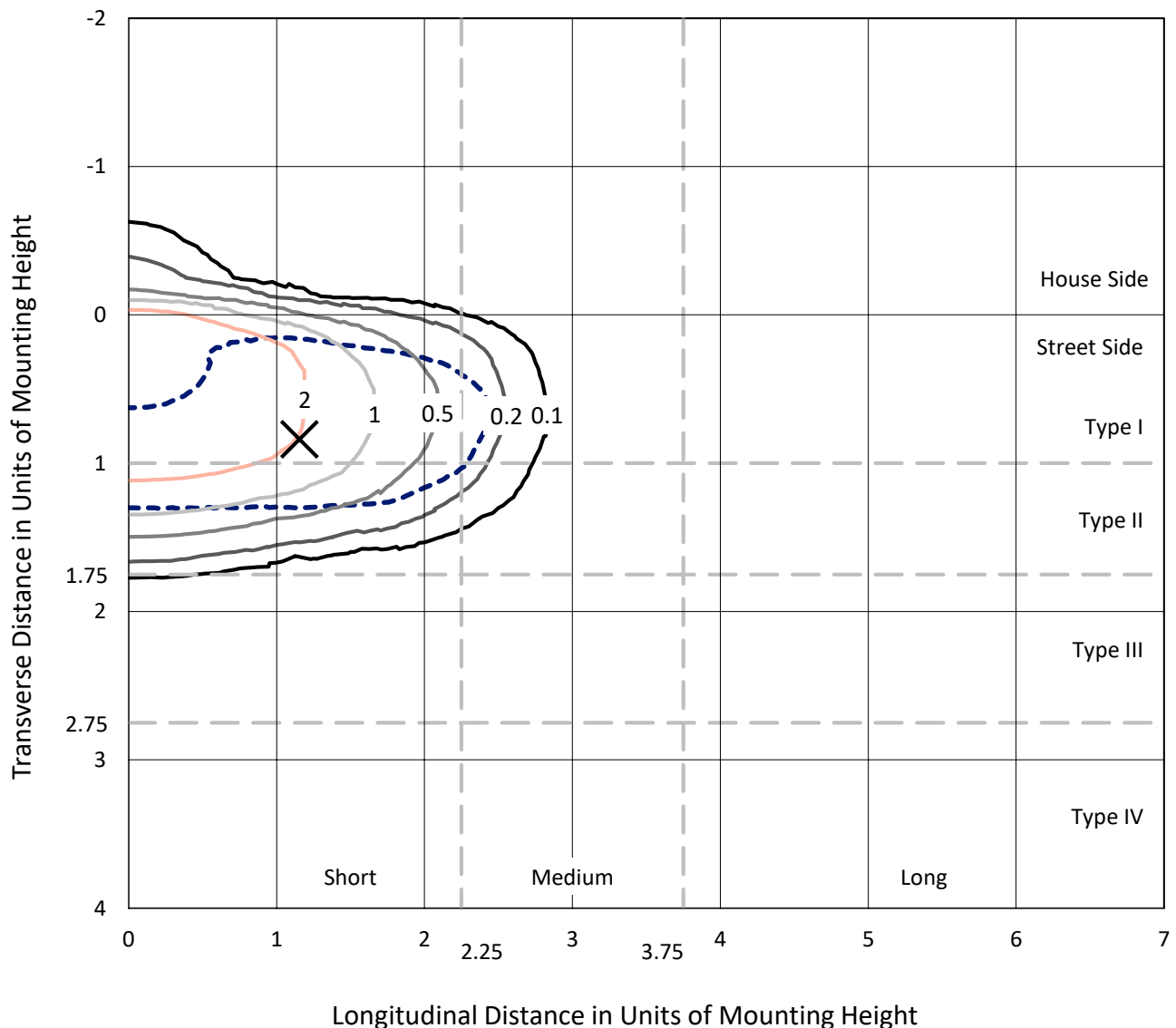
Input Watts (W): 85
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

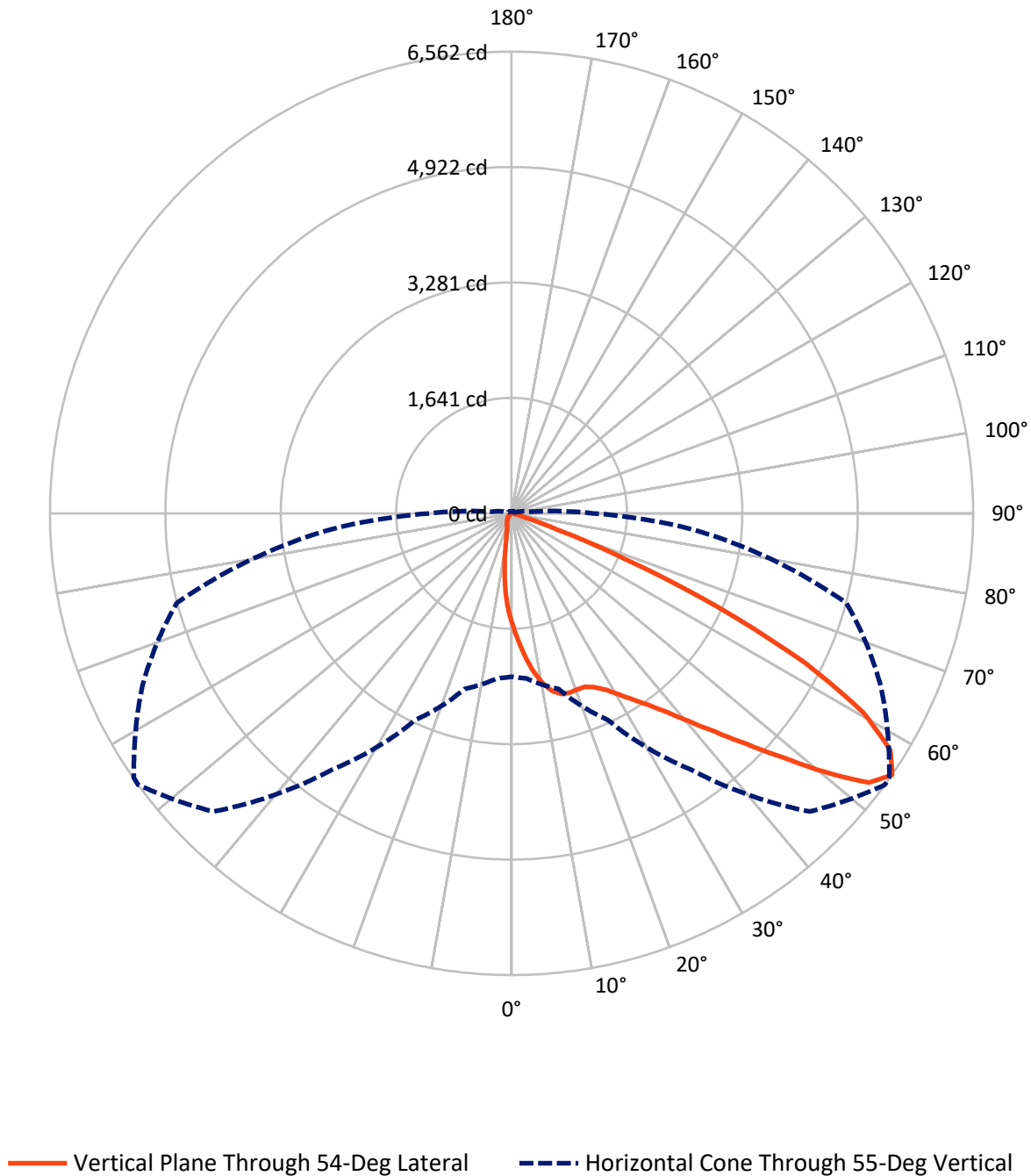
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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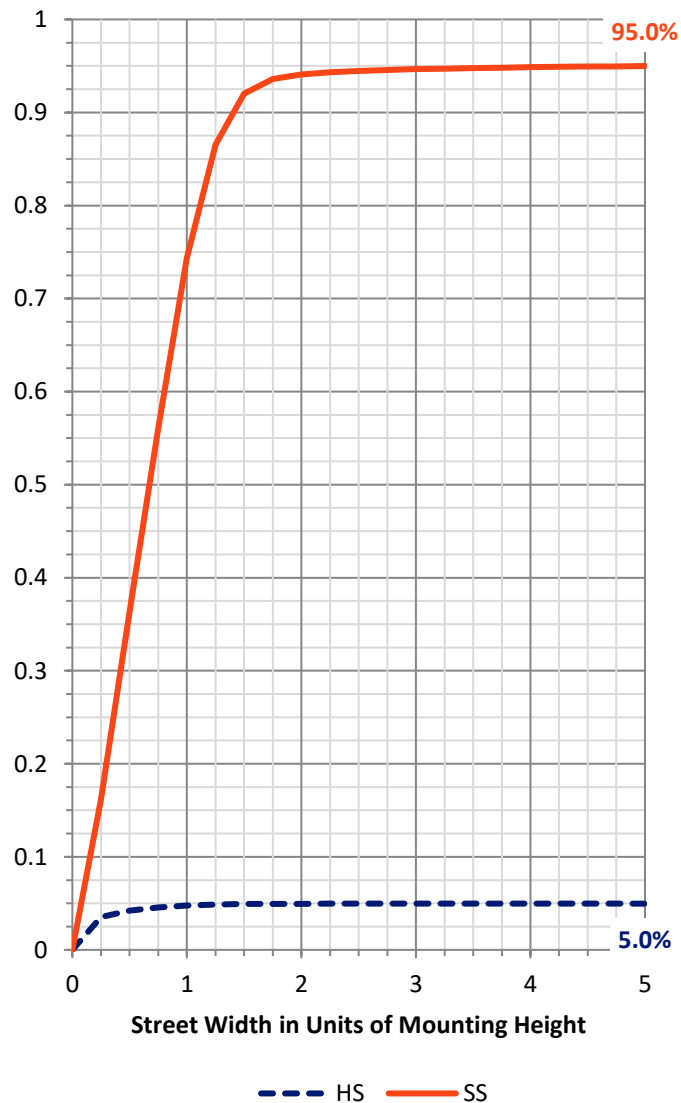
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	351.1	0.0	351.1
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	6685.9	0.0	6685.9
	% Fixture	95.0	0.0	95.0
Total	Lumens	7037.0	0.0	7037.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	145.1	2.1
10°-20°	398.0	5.7
20°-30°	679.6	9.7
30°-40°	1090.6	15.5
40°-50°	1742.8	24.8
50°-60°	1867.4	26.5
60°-70°	958.8	13.6
70°-80°	145.2	2.1
80°-90°	9.5	0.1
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°	7037.0	100.0
0°-180°	7037.0	100.0

Coefficient of Utilization



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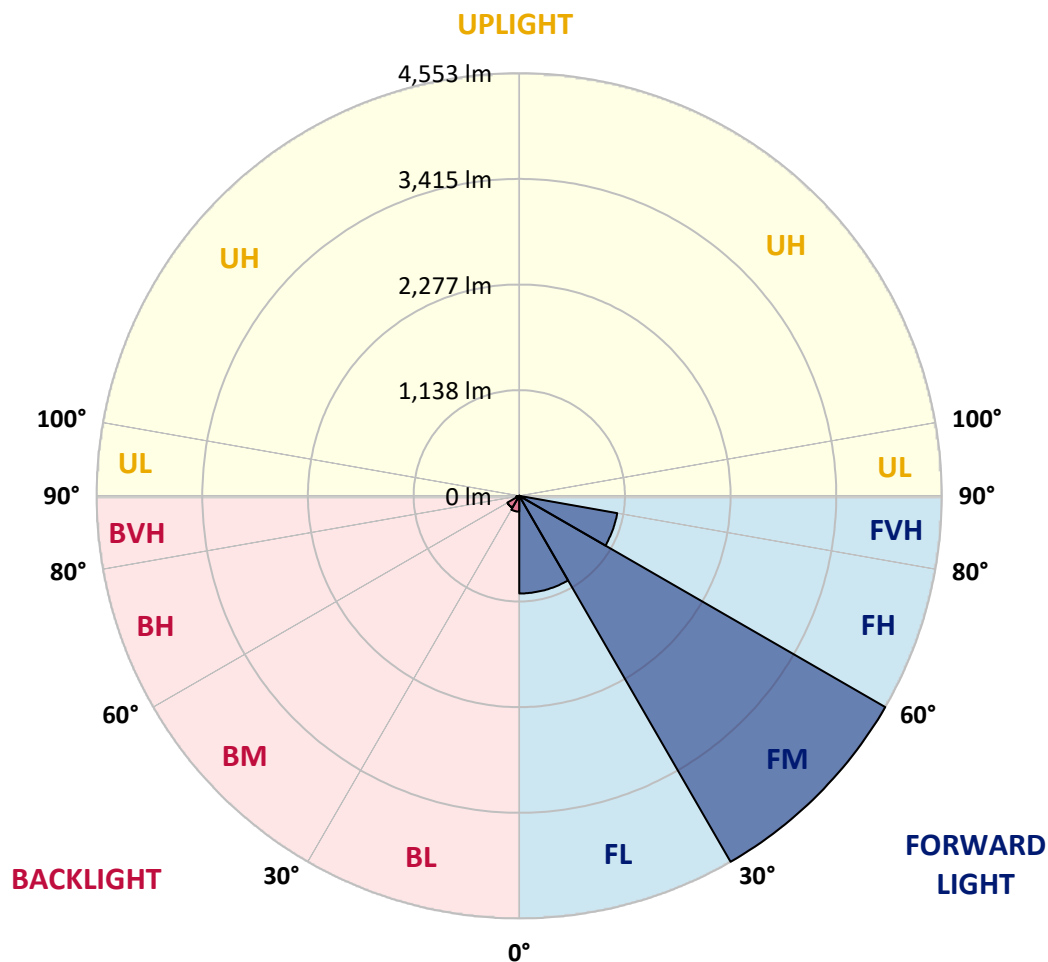
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1051.9	14.9			
FM	(30°-60°)	4553.2	64.7			
FH	(60°-80°)	1071.7	15.2			G1/1800
FVH	(80°-90°)	9.1	0.1			G0/10
BL	(0°-30°)	170.8	2.4	B1/500		
BM	(30°-60°)	147.5	2.1	B0/220		
BH	(60°-80°)	32.4	0.5	B0/110		G0/110
BVH	(80°-90°)	0.4	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-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	1576.0	1576.0	1576.0	1576.0	1576.0	1576.0	1576.0	1576.0	1576.0	1576.0	1576.0
2.5°	1977.8	1948.3	1949.2	1935.8	1886.9	1848.6	1808.8	1799.4	1737.4	1672.3	1609.7
5°	2319.6	2298.1	2292.9	2267.1	2199.0	2127.0	2049.8	2031.8	1910.6	1777.5	1646.5
7.5°	2495.3	2495.6	2491.3	2481.9	2439.4	2369.5	2275.3	2256.4	2091.4	1891.8	1684.8
10°	2444.2	2455.8	2479.5	2510.8	2543.3	2534.5	2463.7	2446.7	2267.4	2012.7	1727.3
12.5°	2325.1	2326.6	2353.1	2404.4	2498.0	2594.1	2595.3	2589.5	2435.4	2139.1	1774.1
15°	2265.8	2271.6	2281.3	2314.5	2403.2	2557.0	2667.0	2675.2	2589.5	2273.4	1824.0
17.5°	2304.7	2313.0	2304.7	2308.7	2360.1	2498.3	2679.5	2700.4	2724.1	2406.2	1871.1
20°	2410.2	2417.8	2403.2	2387.1	2397.1	2481.3	2670.6	2698.9	2829.6	2524.2	1910.6
22.5°	2552.4	2555.5	2533.3	2506.8	2499.5	2539.1	2677.9	2707.1	2914.1	2630.8	1935.5
25°	2708.9	2711.7	2684.0	2653.6	2636.3	2652.4	2737.8	2759.7	2988.5	2732.6	1949.8
27.5°	2879.4	2881.8	2847.2	2809.8	2789.8	2790.4	2836.6	2860.0	3067.8	2848.7	1961.3
30°	3059.6	3058.4	3026.5	2974.5	2949.0	2948.4	2978.8	3002.5	3182.7	2997.6	1977.1
32.5°	3262.0	3259.6	3214.3	3149.9	3121.0	3125.3	3152.3	3166.0	3325.2	3156.3	2005.4
35°	3528.5	3521.5	3453.2	3373.2	3320.1	3318.5	3341.3	3352.3	3507.0	3348.3	2052.5
37.5°	3874.4	3868.0	3775.3	3659.2	3584.5	3556.5	3583.5	3597.5	3766.2	3594.8	2128.2
40°	4215.3	4209.0	4154.0	4047.6	3932.4	3865.3	3886.5	3901.4	4089.8	3893.8	2223.6
42.5°	4450.6	4456.0	4475.2	4484.0	4376.1	4235.1	4244.8	4260.3	4429.9	4213.5	2332.7
45°	4512.6	4524.4	4632.6	4845.0	4885.4	4775.4	4673.6	4682.1	4775.4	4533.2	2441.8
47.5°	4326.3	4348.1	4556.9	4952.0	5294.2	5372.0	5179.3	5168.1	5107.0	4791.8	2519.3
50°	3902.9	3923.0	4193.5	4777.9	5418.2	5941.5	5785.3	5752.1	5397.8	4946.5	2546.6
52.5°	3290.3	3314.6	3534.3	4229.6	5184.5	6195.5	6359.0	6331.4	5611.1	4958.7	2551.2
55°	2323.6	2353.1	2585.5	3241.7	4443.9	5993.4	6562.3	6554.1	5788.3	4926.5	2560.9
57.5°	1305.8	1327.1	1577.8	2078.0	3254.7	5220.3	6349.9	6404.3	5895.3	4870.5	2575.5
60°	579.8	585.6	715.4	1034.5	1905.4	3989.5	5741.8	5833.6	5803.5	4795.8	2600.1
62.5°	321.5	316.7	316.7	430.0	828.1	2469.8	4682.1	4833.8	5411.8	4707.4	2601.4
65°	251.9	247.4	234.3	236.1	315.4	1096.2	3242.3	3511.8	4667.8	4448.1	2513.8
67.5°	213.6	209.7	196.6	191.5	196.0	361.6	1781.4	2061.3	3541.9	3774.4	2177.4
70°	180.5	177.8	171.1	164.7	153.2	178.7	681.6	871.9	2182.6	2510.8	1486.4
72.5°	145.3	144.0	146.5	141.0	127.0	119.1	233.1	282.3	980.4	1120.5	612.4
75°	125.2	124.6	125.8	120.3	104.5	83.0	118.5	129.5	276.5	274.1	124.0
77.5°	81.4	82.4	104.2	101.8	90.0	55.3	61.4	66.2	83.9	62.9	37.7
80°	52.0	51.4	52.9	84.5	80.8	42.2	30.7	32.2	40.4	31.0	18.2
82.5°	31.6	31.0	34.6	39.5	40.7	29.5	18.8	19.1	25.2	20.1	9.7
85°	2.7	3.6	21.0	19.4	14.0	9.1	9.1	9.7	13.4	11.9	5.5
87.5°	0.0	0.0	3.6	5.5	3.0	3.3	3.3	3.6	5.2	5.2	2.7
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°	1576.0	1576.0	1576.0	1576.0	1576.0	1576.0	1576.0	1576.0	1576.0	1576.0	1576.0
2.5°	1577.2	1545.6	1481.8	1420.4	1368.4	1318.3	1261.2	1204.6	1178.2	1167.6	1156.6
5°	1580.0	1514.9	1383.3	1250.8	1113.5	989.8	884.3	776.2	722.1	698.4	687.4
7.5°	1583.6	1484.5	1271.8	1049.4	828.1	660.4	513.9	419.7	379.0	372.6	356.8
10°	1584.2	1447.8	1142.3	826.9	555.2	398.1	306.3	257.7	239.8	236.7	231.6
12.5°	1585.4	1404.3	998.6	612.4	370.1	266.2	221.5	205.4	200.6	200.3	200.3
15°	1589.1	1358.7	849.4	441.3	265.9	210.9	194.5	188.1	186.3	187.2	186.9
17.5°	1589.1	1304.9	702.9	328.8	214.9	189.6	180.5	176.3	175.7	176.6	176.9
20°	1577.5	1239.6	568.6	255.9	190.5	176.0	167.8	163.8	162.3	162.9	163.2
22.5°	1549.9	1159.4	459.2	211.8	174.4	163.5	154.7	148.6	146.2	146.5	146.5
25°	1506.7	1064.2	359.2	183.2	161.4	150.1	139.8	132.8	131.3	131.0	131.6
27.5°	1451.4	959.1	286.0	161.4	145.9	135.2	124.9	119.1	117.9	118.2	118.5
30°	1397.0	850.0	225.5	142.8	128.5	118.5	110.6	107.9	107.9	108.8	109.1
32.5°	1347.2	745.2	178.4	126.7	113.0	103.9	99.4	99.1	100.6	101.2	101.5
35°	1304.3	648.2	147.7	114.3	100.9	93.0	91.5	92.7	94.5	95.7	96.0
37.5°	1273.9	561.6	129.2	103.9	91.5	85.1	84.8	87.2	89.6	92.4	93.0
40°	1261.2	488.4	116.4	94.8	83.9	79.0	78.1	81.4	86.0	90.0	90.6
42.5°	1250.5	428.5	105.5	86.0	77.8	70.8	70.5	74.8	80.2	84.2	85.1
45°	1241.4	380.5	95.4	76.6	69.9	60.8	61.7	67.2	71.4	75.7	76.6
47.5°	1222.6	341.0	84.5	66.6	57.7	52.0	53.8	58.7	62.0	68.4	69.3
50°	1188.8	308.8	73.2	54.4	47.1	45.0	47.7	51.1	55.3	60.8	61.4
52.5°	1166.0	284.4	63.5	45.6	38.9	39.5	42.2	43.5	45.9	48.0	47.4
55°	1153.0	271.1	55.6	39.5	33.1	34.9	35.6	34.0	32.8	30.7	29.8
57.5°	1151.5	258.9	49.5	34.3	29.2	30.1	28.0	22.8	18.5	16.1	15.5
60°	1149.0	244.0	44.7	28.9	25.8	24.6	20.1	12.5	8.8	8.2	8.2
62.5°	1122.6	220.9	41.0	24.3	21.9	18.5	11.5	5.8	4.9	5.2	5.2
65°	1038.4	188.7	37.4	19.8	17.3	13.4	5.8	3.3	1.8	2.1	2.1
67.5°	882.8	150.4	33.4	15.2	13.1	8.5	3.3	1.5	0.0	0.0	0.0
70°	591.1	93.3	28.3	10.6	8.5	5.2	2.4	0.3	0.0	0.0	0.0
72.5°	226.7	50.4	22.8	6.4	5.5	3.6	1.5	0.0	0.0	0.0	0.0
75°	51.1	33.1	15.8	4.6	4.0	2.4	0.6	0.0	0.0	0.0	0.0
77.5°	19.4	24.0	9.1	3.0	2.7	1.5	0.0	0.0	0.0	0.0	0.0
80°	9.4	14.3	4.3	1.8	1.5	0.6	0.0	0.0	0.0	0.0	0.0
82.5°	4.9	5.5	1.8	0.9	0.6	0.0	0.0	0.0	0.0	0.0	0.0
85°	2.7	2.7	0.9	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.5	0.9	0.3	0.3	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)