

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: P321446

Luminaire Tested: **GAN-SA2C-830-U-T2R-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321446
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-SA2C-830-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3000K, 1050mA 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: 9282 lumens
Efficiency: N/A
Efficacy: 82.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G2

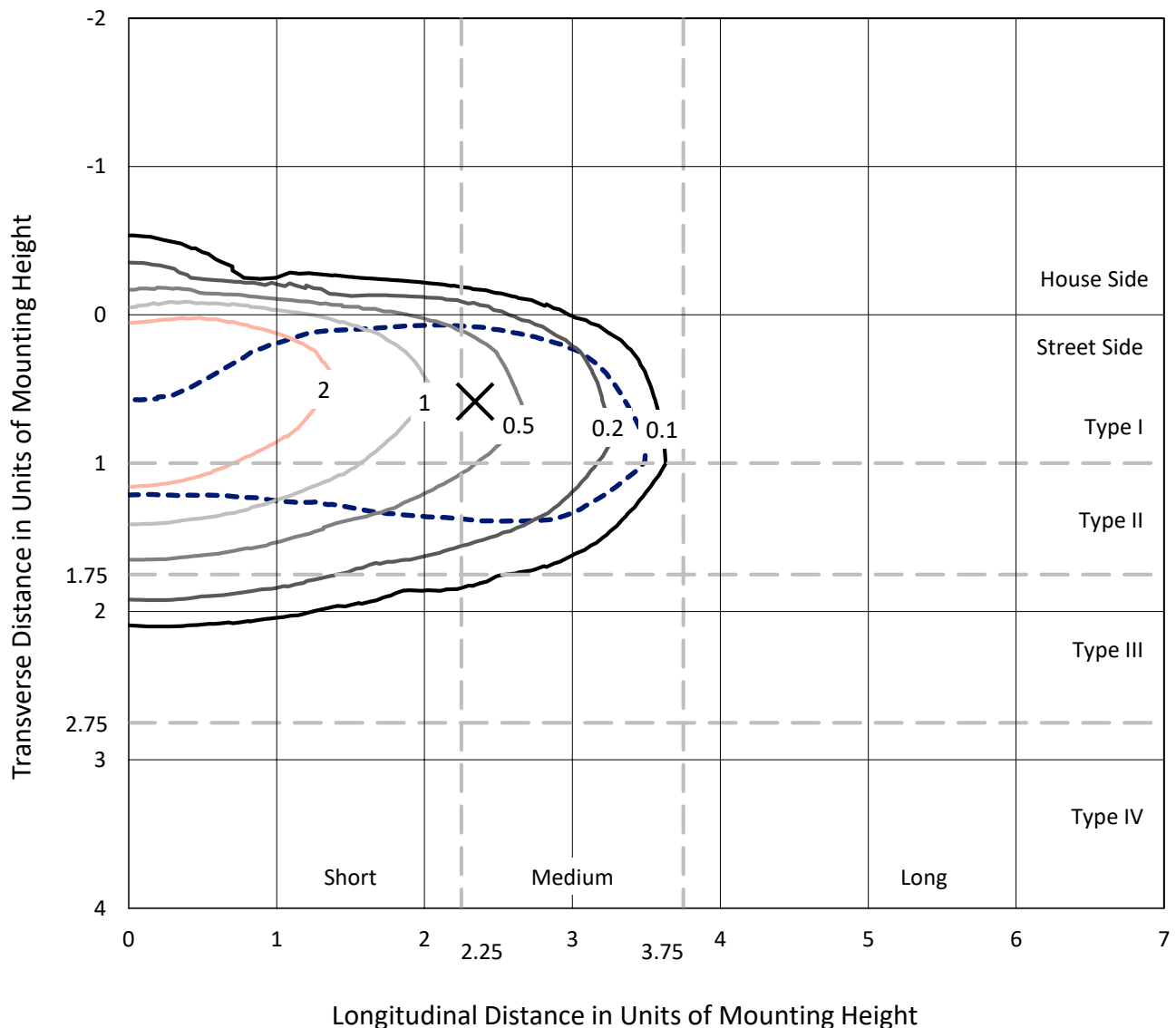
Input Watts (W): 113
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

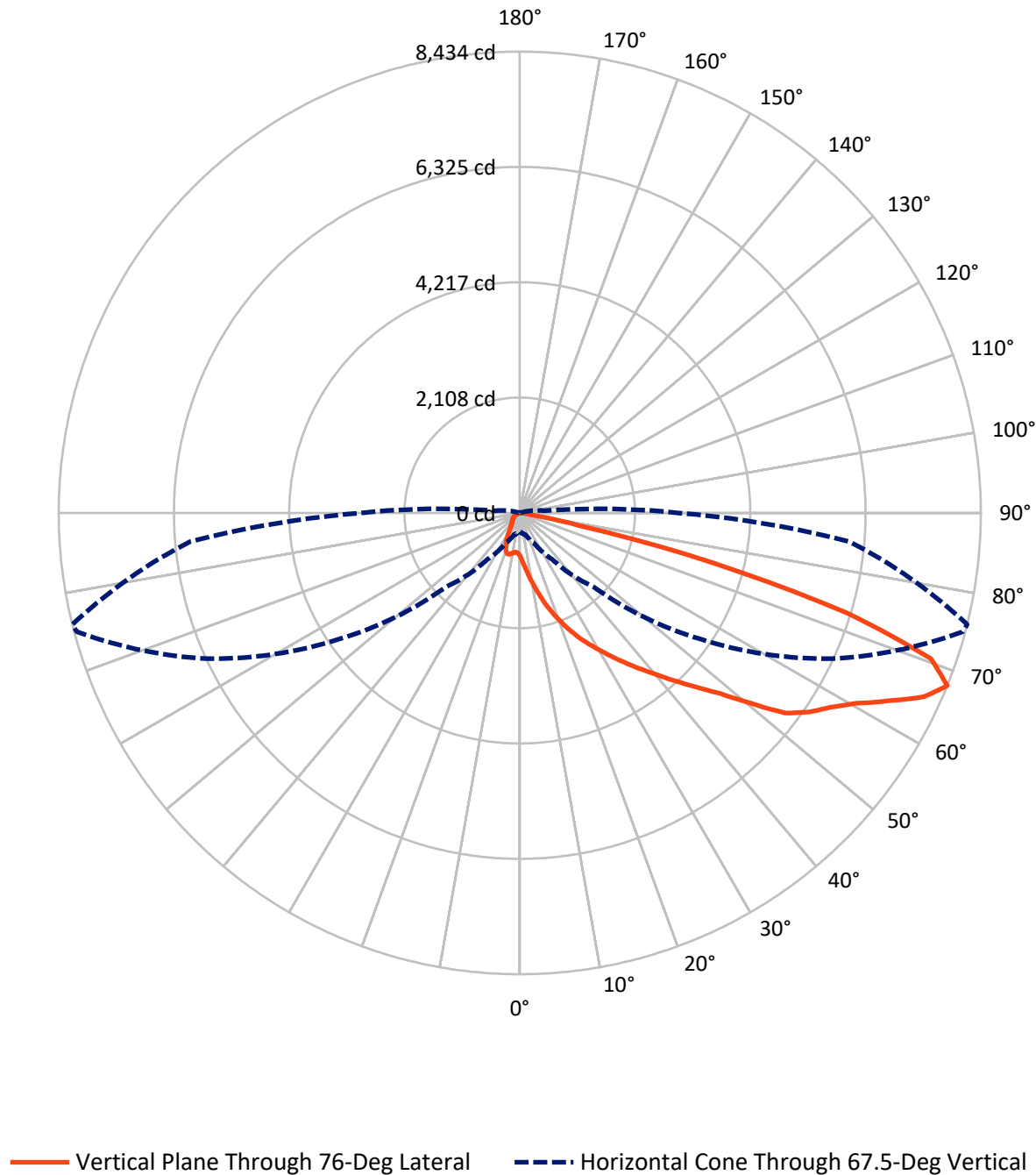
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.4 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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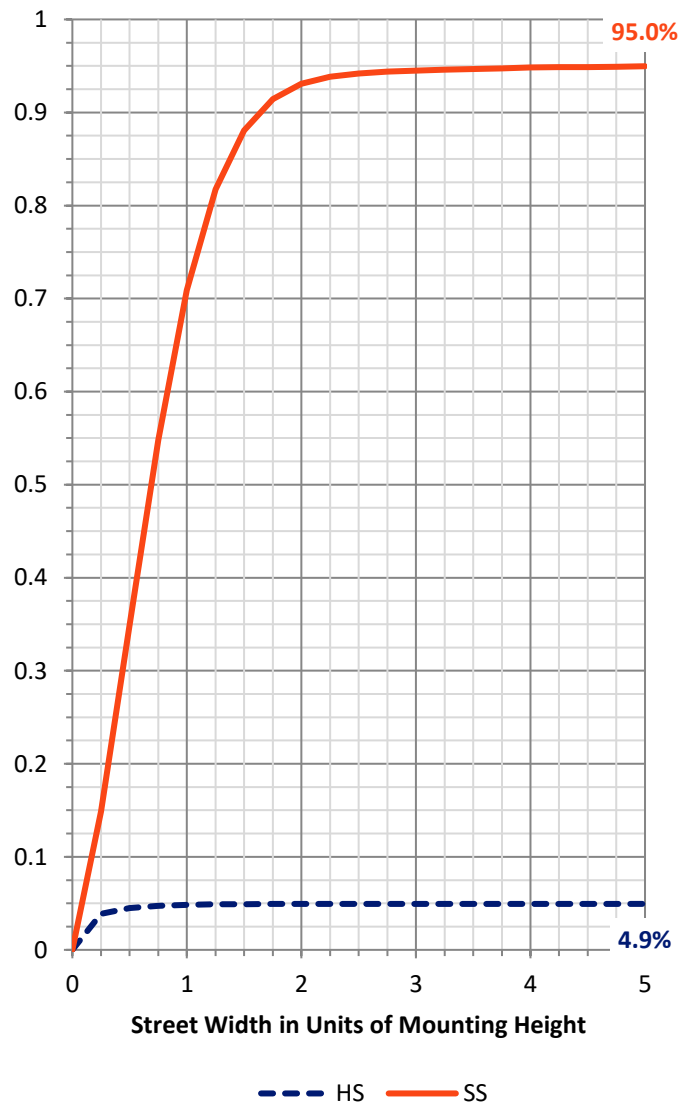
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	460.9	0.0	460.9
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	8821.1	0.0	8821.1
	% Fixture	95.0	0.0	95.0
Total	Lumens	9282.0	0.0	9282.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	97.9	1.1
10°-20°	388.1	4.2
20°-30°	789.7	8.5
30°-40°	1370.7	14.8
40°-50°	1936.6	20.9
50°-60°	2196.2	23.7
60°-70°	1821.5	19.6
70°-80°	659.8	7.1
80°-90°	21.4	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°	9282.0	100.0
0°-180°	9282.0	100.0

Coefficient of Utilization



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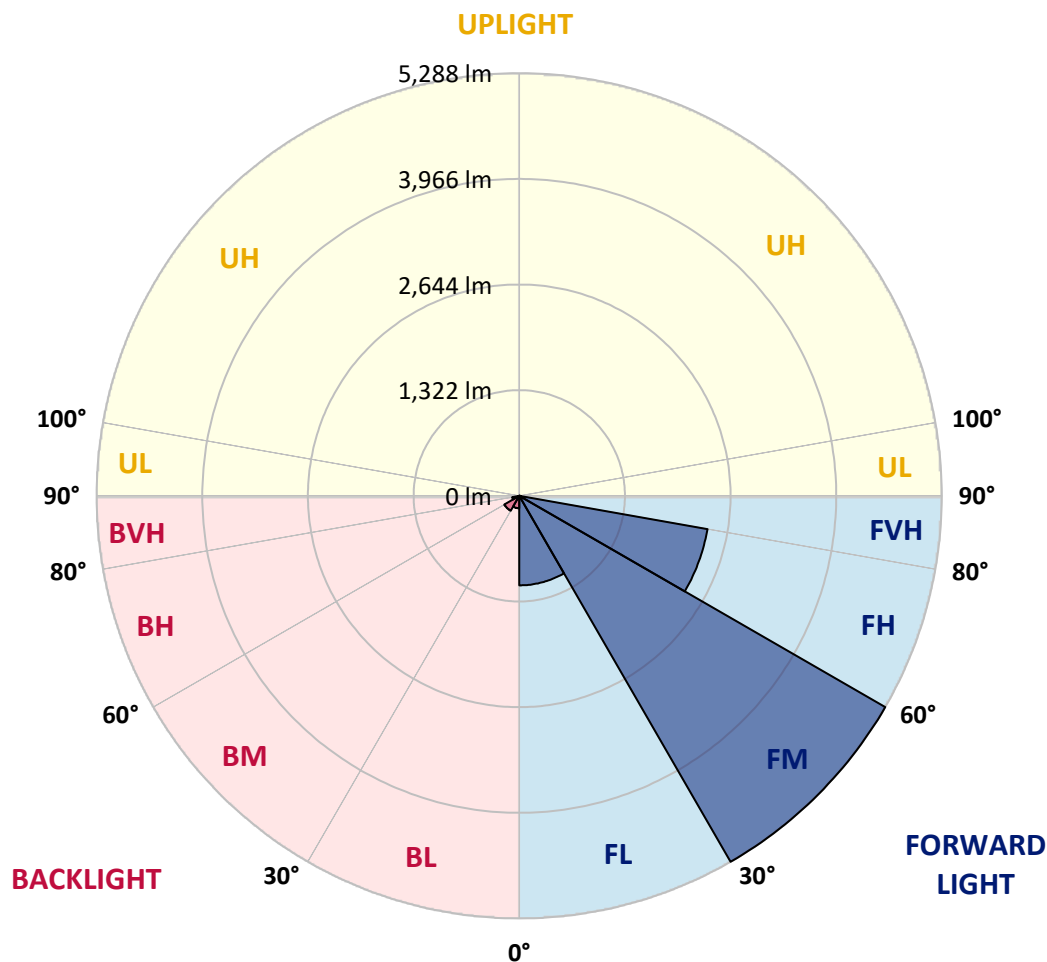
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1120.3	12.1			
FM	(30°-60°)	5287.8	57.0			
FH	(60°-80°)	2392.3	25.8			G2/5000
FVH	(80°-90°)	20.7	0.2			G1/100
BL	(0°-30°)	155.4	1.7	B1/500		
BM	(30°-60°)	215.7	2.3	B0/220		
BH	(60°-80°)	89.1	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°	787.4	787.4	787.4	787.4	787.4	787.4	787.4	787.4	787.4	787.4	787.4
2.5°	1175.4	1148.9	1155.0	1138.0	1107.1	1043.6	989.5	938.3	878.5	876.5	827.2
5°	1584.9	1562.6	1559.7	1525.1	1469.0	1361.2	1256.3	1136.7	1003.3	993.6	889.1
7.5°	1956.7	1938.8	1932.3	1891.2	1786.7	1681.7	1545.1	1369.4	1160.7	1142.8	972.4
10°	2242.2	2233.6	2235.3	2206.0	2116.5	2018.9	1839.5	1615.4	1339.3	1311.6	1072.5
12.5°	2458.5	2460.6	2475.2	2457.3	2407.3	2334.9	2143.3	1877.8	1536.9	1499.1	1186.8
15°	2617.6	2627.7	2654.6	2676.9	2673.3	2610.6	2434.9	2144.2	1746.8	1704.9	1314.1
17.5°	2720.5	2731.8	2770.9	2820.5	2866.1	2851.4	2716.4	2401.2	1959.1	1910.7	1450.3
20°	2810.7	2824.2	2866.1	2931.5	3016.5	3034.8	2946.2	2650.5	2171.0	2112.0	1591.0
22.5°	3006.4	3006.0	3031.6	3069.8	3150.7	3197.9	3141.8	2881.9	2380.4	2319.0	1734.6
25°	3360.2	3346.8	3337.8	3307.7	3325.6	3354.9	3323.6	3098.3	2591.1	2528.9	1880.2
27.5°	3780.7	3788.9	3716.5	3635.5	3572.9	3542.8	3491.6	3298.8	2793.7	2725.3	2022.5
30°	4224.5	4226.9	4141.5	4038.2	3900.3	3786.0	3697.4	3490.3	3001.9	2927.5	2160.8
32.5°	4624.7	4608.8	4524.2	4383.5	4209.4	4080.9	3896.6	3704.3	3222.3	3150.3	2314.6
35°	4941.9	4923.2	4820.3	4692.2	4511.6	4382.3	4160.6	3917.8	3454.2	3383.8	2468.7
37.5°	5173.7	5151.7	5046.0	4914.2	4758.5	4683.2	4466.8	4150.0	3707.1	3631.5	2631.0
40°	5254.2	5235.1	5168.8	5072.4	4947.2	4930.1	4791.8	4417.2	3982.5	3901.9	2814.8
42.5°	5206.2	5187.5	5163.9	5131.4	5079.3	5095.6	5098.5	4721.9	4288.3	4209.0	3017.8
45°	5015.9	4999.2	5023.6	5071.2	5135.9	5216.4	5378.3	5049.3	4629.9	4545.3	3252.4
47.5°	4735.7	4723.5	4791.0	4909.8	5098.9	5320.9	5634.1	5393.3	5013.5	4935.0	3545.3
50°	4337.1	4335.1	4470.1	4686.9	4977.7	5371.4	5898.5	5784.6	5546.2	5463.7	3952.4
52.5°	3716.5	3720.5	3986.1	4333.0	4765.0	5337.2	6068.5	6287.3	6166.1	6080.3	4305.0
55°	3125.5	3149.9	3338.2	3838.5	4438.8	5210.3	6127.0	6521.9	6508.1	6426.8	4501.0
57.5°	2546.8	2591.1	2772.5	3239.8	3962.5	4917.9	6094.9	6623.6	6762.7	6700.5	4759.7
60°	1919.7	1940.0	2149.0	2585.8	3351.3	4384.3	5861.9	6678.9	7110.8	7067.7	5135.1
62.5°	1221.3	1272.2	1457.6	1879.0	2609.4	3643.3	5469.0	6678.1	7546.4	7570.0	5619.5
65°	643.4	702.8	801.2	1164.4	1793.2	2815.6	4878.0	6615.5	8080.8	8113.8	5998.1
67.5°	346.9	364.0	416.1	604.4	1039.9	1907.5	4009.7	6306.4	8390.3	8433.9	6051.0
70°	253.8	263.1	282.7	334.3	523.4	1107.9	2925.8	5605.6	7991.4	7975.1	5376.2
72.5°	194.8	209.5	224.1	244.8	301.0	591.4	1821.6	4389.6	6376.3	6269.0	4018.7
75°	153.7	156.2	176.9	195.6	225.7	336.8	808.9	2556.6	3891.8	3637.6	2084.0
77.5°	122.8	124.5	136.7	152.9	181.4	221.2	250.5	1005.8	1242.5	1108.7	452.3
80°	72.8	76.9	101.7	117.9	150.5	139.5	91.5	218.4	194.0	175.7	76.1
82.5°	40.7	43.9	57.3	93.1	104.9	66.7	45.6	59.0	45.6	44.3	21.6
85°	0.0	2.0	37.0	57.8	42.7	14.6	19.1	19.5	13.4	12.6	8.5
87.5°	0.0	0.0	11.4	11.0	1.6	2.4	4.5	6.5	5.3	5.3	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°	787.4	787.4	787.4	787.4	787.4	787.4	787.4	787.4	787.4	787.4	787.4
2.5°	802.8	780.9	739.4	698.7	664.6	636.5	611.3	601.1	593.0	591.8	585.2
5°	838.6	794.3	715.0	649.9	606.4	575.5	549.1	532.8	520.2	515.3	510.8
7.5°	892.7	825.6	711.7	636.9	584.8	532.8	484.0	431.1	398.2	385.6	378.2
10°	958.6	867.1	723.9	633.2	542.1	432.3	351.4	284.3	257.0	248.1	245.7
12.5°	1035.5	918.7	745.1	610.5	451.0	307.1	242.4	219.6	213.5	210.7	210.7
15°	1123.7	975.3	760.1	544.6	333.5	232.2	209.9	199.3	192.8	189.1	189.5
17.5°	1214.0	1030.6	752.8	449.0	246.1	206.6	189.9	178.5	169.6	165.9	165.1
20°	1305.1	1081.8	712.1	334.3	208.2	187.5	168.8	156.2	147.2	143.6	142.8
22.5°	1399.5	1125.4	640.6	245.2	187.1	166.3	148.0	135.4	126.9	123.6	122.0
25°	1491.4	1160.7	540.5	198.5	167.2	146.4	128.9	117.1	109.4	106.2	105.7
27.5°	1577.2	1183.1	424.6	175.3	149.7	128.5	112.7	102.1	95.6	93.1	92.7
30°	1654.5	1185.1	314.0	158.2	134.2	113.1	98.4	89.1	83.4	80.9	80.1
32.5°	1732.6	1168.1	228.6	142.8	120.0	99.6	85.4	78.1	74.0	72.0	72.0
35°	1806.2	1128.6	178.1	129.3	106.2	86.6	75.2	70.0	67.5	65.5	65.5
37.5°	1878.2	1072.1	151.3	117.5	93.1	75.6	66.3	63.0	61.0	59.0	59.0
40°	1951.4	1000.9	137.5	106.6	82.6	67.1	59.0	56.1	54.1	52.5	52.1
42.5°	2041.3	918.7	128.5	96.4	73.2	59.4	52.1	48.8	47.2	45.6	44.7
45°	2145.4	848.0	121.2	86.2	65.5	52.9	45.1	41.9	39.5	37.4	37.0
47.5°	2295.4	796.7	111.4	75.2	58.2	46.0	39.0	35.4	31.7	29.7	29.3
50°	2487.0	754.4	98.8	65.5	50.8	39.0	32.5	28.1	24.8	22.8	22.8
52.5°	2582.2	699.1	87.4	56.9	42.7	32.9	26.4	21.1	19.5	17.5	17.5
55°	2620.4	656.8	76.1	48.4	35.4	27.2	20.7	16.3	15.0	13.8	13.4
57.5°	2727.8	644.6	66.3	41.1	29.3	21.6	15.9	12.2	11.4	9.8	9.8
60°	2900.6	650.7	57.3	35.0	23.6	16.7	11.8	9.4	8.5	6.9	6.9
62.5°	3087.3	643.0	48.4	30.1	18.3	12.2	8.1	6.9	6.9	4.1	3.7
65°	3123.1	572.6	41.5	24.8	14.2	8.9	5.3	4.5	6.1	0.8	0.0
67.5°	2898.6	444.1	35.8	19.1	10.6	6.9	4.1	2.0	5.3	0.0	0.0
70°	2317.8	282.3	28.9	13.8	8.1	5.7	3.3	0.8	4.1	0.0	0.0
72.5°	1639.0	163.9	22.8	9.8	6.9	4.5	2.4	0.0	2.4	0.0	0.0
75°	828.9	87.4	14.2	7.3	5.3	3.3	1.6	0.0	0.4	0.0	0.0
77.5°	179.4	40.7	8.9	5.3	3.7	2.0	0.8	0.0	0.0	0.0	0.0
80°	39.0	17.9	5.7	3.3	2.0	1.2	0.0	0.0	0.0	0.0	0.0
82.5°	14.2	9.4	2.8	1.6	0.8	0.0	0.0	0.0	0.0	0.0	0.0
85°	7.7	4.9	1.6	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	4.1	1.6	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)