

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: P321988

Luminaire Tested: **GAN-SA4A-760-U-T2-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321988
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-SA4A-760-U-T2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 5700K, 615mA 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: 13373 lumens
Efficiency: N/A
Efficacy: 103.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G2

Input Watts (W): 129
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

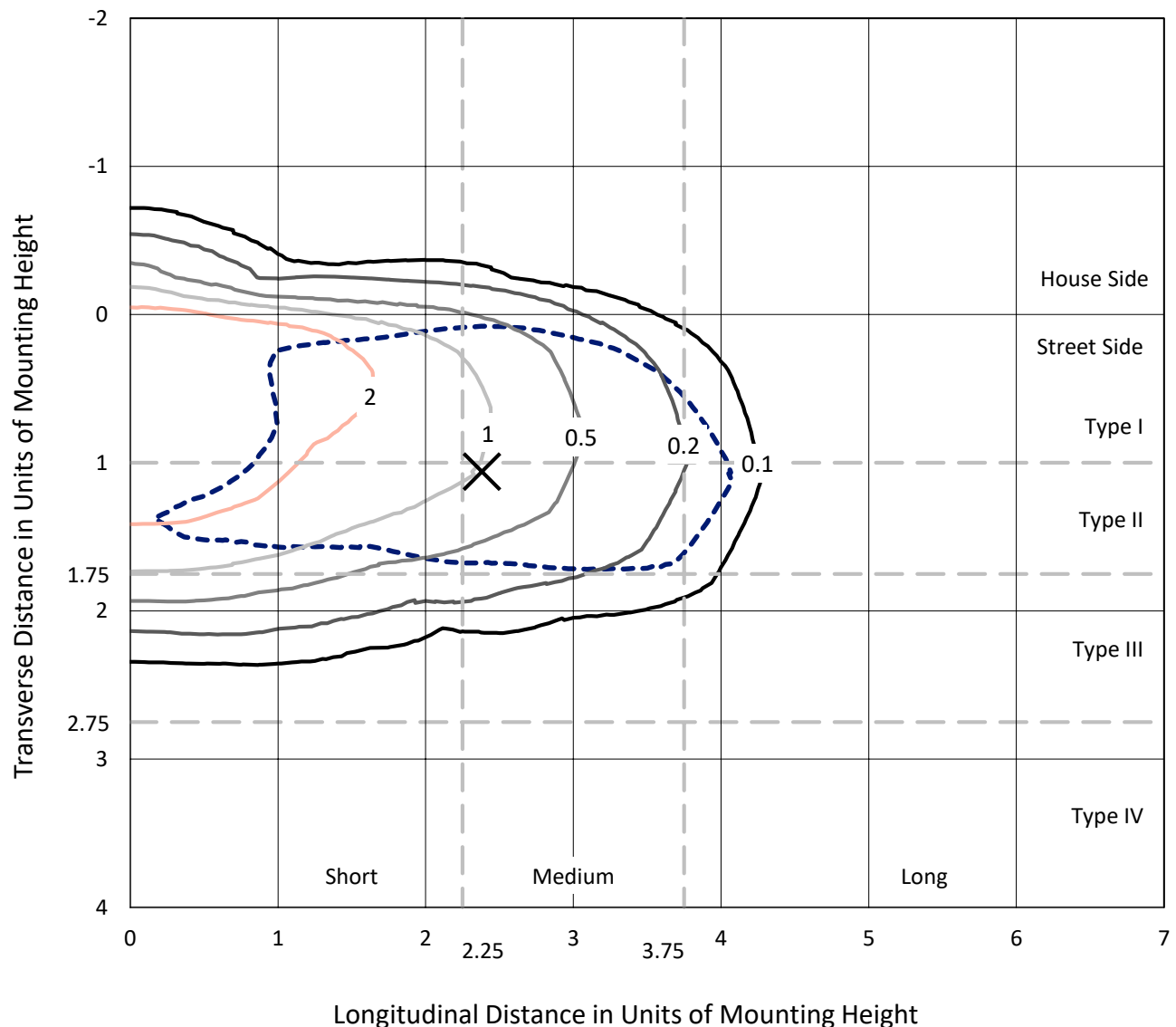


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Iso-Footcandle Lines of Horizontal Illumination

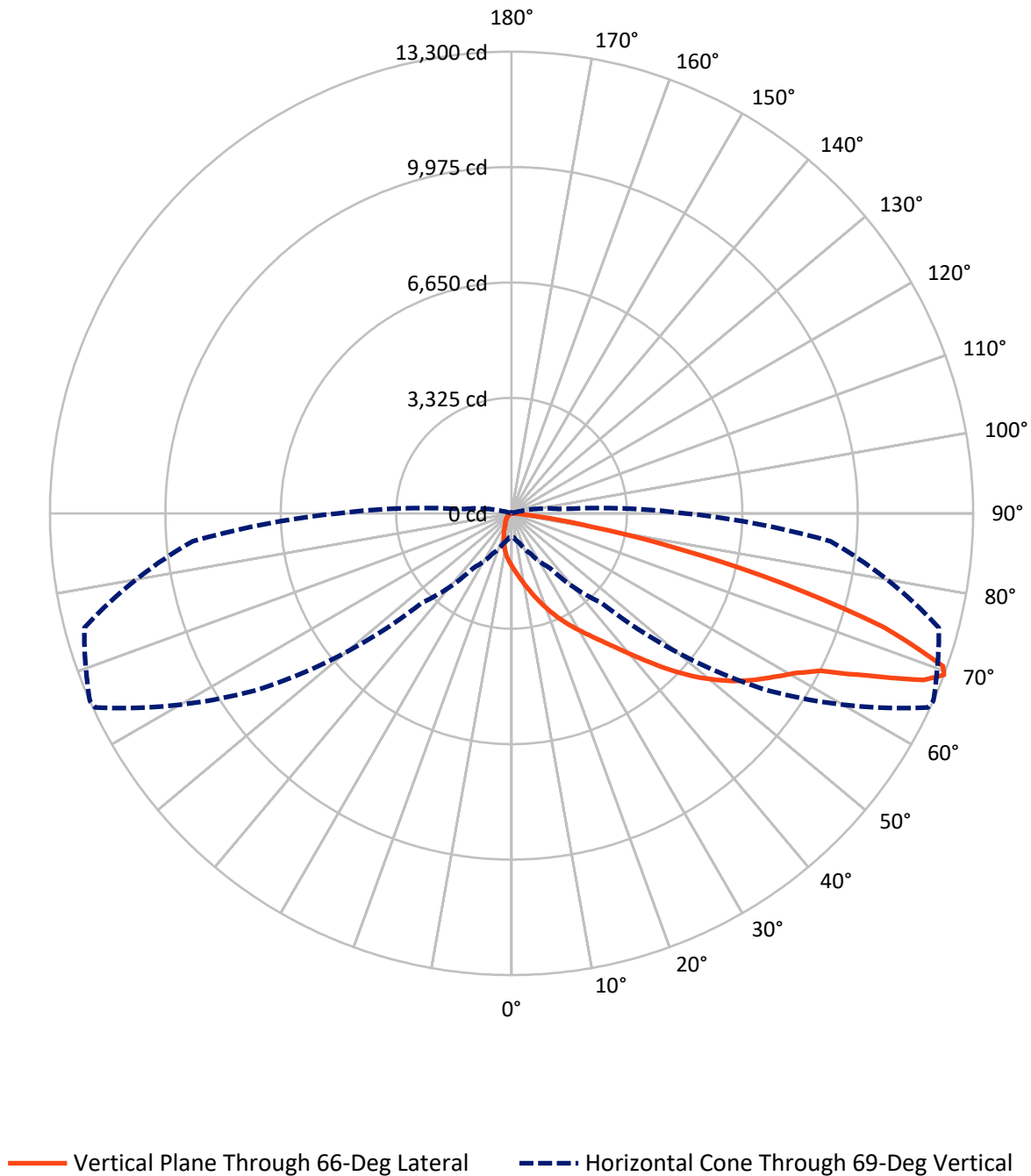
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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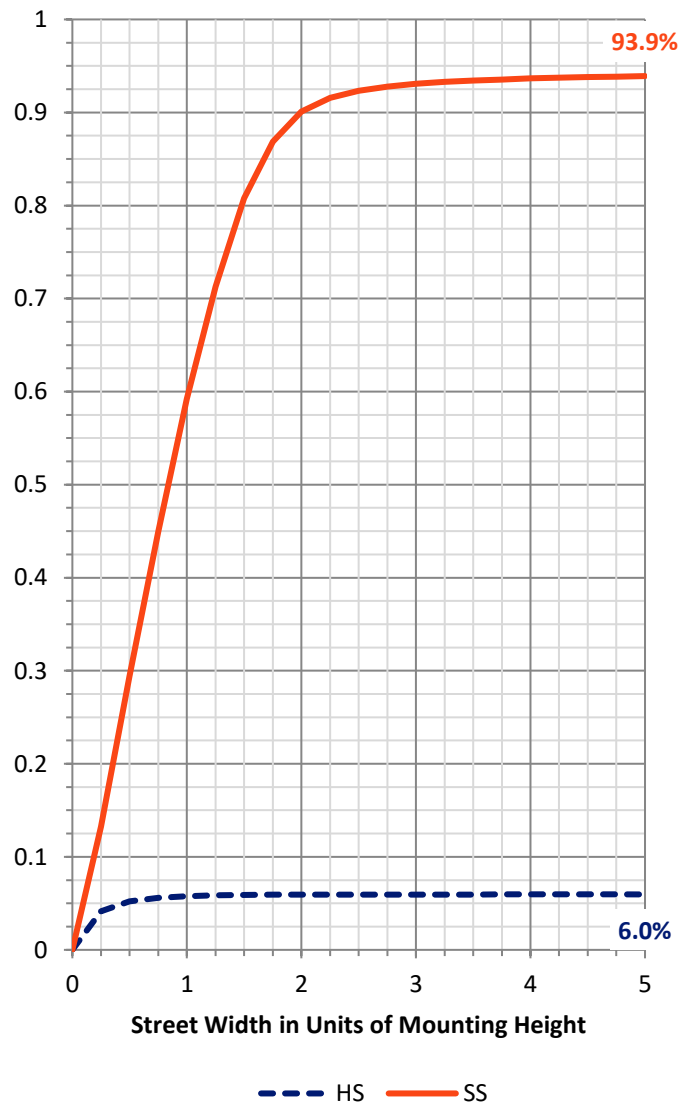
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	802.2	0.0	802.2
	% Fixture	6.0	0.0	6.0
Street Side	Lumens	12570.8	0.0	12570.8
	% Fixture	94.0	0.0	94.0
Total	Lumens	13373.0	0.0	13373.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	147.1	1.1
10°-20°	437.8	3.3
20°-30°	762.4	5.7
30°-40°	1337.7	10.0
40°-50°	2239.0	16.7
50°-60°	3291.2	24.6
60°-70°	3379.2	25.3
70°-80°	1668.2	12.5
80°-90°	110.3	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°	13373.0	100.0
0°-180°	13373.0	100.0

Coefficient of Utilization



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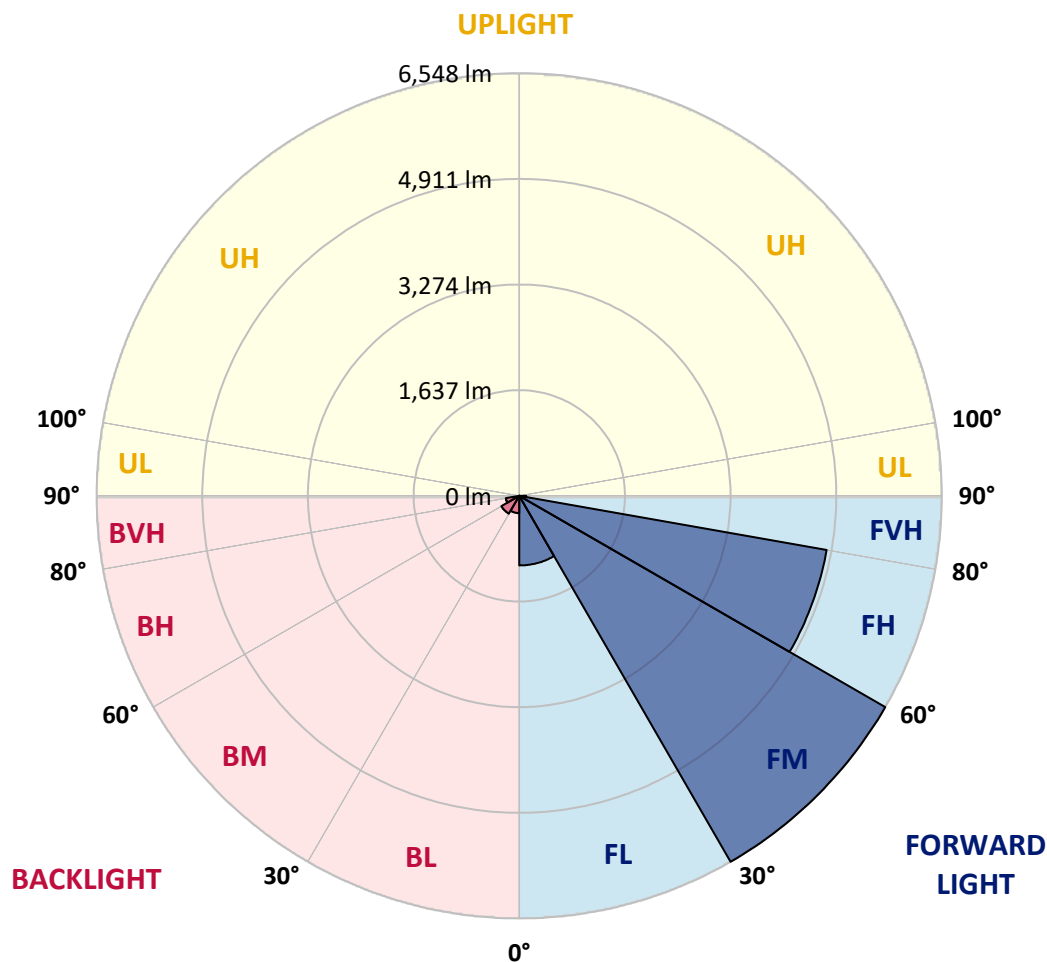
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1079.1	8.1			
FM	(30°-60°)	6548.1	49.0			
FH	(60°-80°)	4836.0	36.2			G2/5000
FVH	(80°-90°)	107.6	0.8			G2/225
BL	(0°-30°)	268.3	2.0	B1/500		
BM	(30°-60°)	319.8	2.4	B1/1000		
BH	(60°-80°)	211.4	1.6	B1/500		G1/500
BVH	(80°-90°)	2.7	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°	66°	75°	85°
0°	1521.9	1521.9	1521.9	1521.9	1521.9	1521.9	1521.9	1521.9	1521.9	1521.9	1521.9
2.5°	1791.2	1783.6	1780.4	1766.4	1742.3	1723.9	1688.3	1647.0	1639.4	1599.4	1550.5
5°	2023.7	2017.3	2012.9	1993.2	1968.4	1922.1	1857.3	1780.4	1765.8	1689.6	1591.8
7.5°	2185.7	2197.1	2197.1	2184.4	2153.3	2118.3	2038.9	1934.1	1915.7	1798.8	1647.0
10°	2280.3	2294.3	2305.1	2315.9	2311.4	2297.4	2222.5	2104.4	2082.1	1927.1	1711.2
12.5°	2289.2	2303.2	2333.6	2378.7	2422.6	2454.3	2407.3	2293.0	2267.6	2075.8	1787.4
15°	2239.6	2254.3	2301.3	2388.9	2495.0	2587.7	2603.0	2502.0	2475.9	2253.0	1882.7
17.5°	2153.3	2162.8	2230.1	2351.4	2517.9	2688.1	2780.2	2726.2	2702.1	2455.6	1988.7
20°	2089.1	2096.1	2155.2	2285.4	2503.9	2751.0	2947.9	2964.4	2939.0	2672.8	2103.7
22.5°	2199.0	2211.7	2213.6	2275.2	2465.8	2782.1	3095.2	3198.8	3179.7	2903.4	2216.8
25°	2499.4	2514.0	2465.8	2427.7	2498.2	2796.1	3221.6	3438.9	3423.6	3151.8	2330.5
27.5°	2896.4	2911.7	2849.4	2735.7	2667.8	2848.8	3334.1	3682.8	3682.1	3414.7	2453.1
30°	3286.4	3301.7	3238.1	3124.4	2968.2	2998.0	3431.2	3938.1	3941.9	3685.9	2583.3
32.5°	3695.5	3714.5	3649.1	3503.0	3339.8	3255.9	3567.8	4194.7	4216.3	4000.4	2730.0
35°	4160.4	4163.0	4070.9	3917.8	3729.8	3600.8	3786.9	4482.5	4533.9	4389.7	2916.1
37.5°	4616.5	4634.9	4559.3	4318.0	4145.2	3999.1	4112.8	4842.0	4915.0	4865.5	3159.4
40°	4954.4	4993.1	4982.3	4721.9	4558.0	4453.9	4517.4	5269.5	5362.2	5419.4	3466.2
42.5°	5166.6	5195.8	5245.3	5088.4	4939.8	4956.9	4995.1	5767.4	5881.8	6050.7	3818.7
45°	5409.8	5423.8	5465.1	5395.9	5295.5	5468.3	5501.9	6328.3	6448.3	6729.7	4210.0
47.5°	5707.1	5740.1	5751.6	5688.0	5642.3	5920.5	5990.4	6838.3	7006.7	7457.0	4624.1
50°	6085.7	6094.5	6114.2	6073.0	6027.2	6309.2	6428.7	7373.8	7526.9	8186.8	5032.5
52.5°	6456.0	6487.7	6556.3	6530.3	6511.9	6640.2	6819.3	7856.5	8027.4	8795.3	5440.3
55°	6562.7	6590.0	6826.9	6988.9	7138.8	7048.0	7192.8	8289.1	8473.9	9339.0	5832.9
57.5°	6136.5	6191.7	6602.1	7023.8	7645.7	7681.9	7706.0	8733.1	8898.9	9755.7	6241.3
60°	5059.2	5070.0	5743.3	6466.8	7561.8	8235.1	8455.5	9210.1	9349.2	10143.8	6730.4
62.5°	3217.8	3327.7	4066.4	5087.8	6675.1	8155.1	9361.9	9931.7	9982.5	10609.4	7431.6
65°	1532.7	1603.8	2136.1	3143.5	4835.0	7130.5	9987.6	11237.0	11259.8	11532.3	8368.5
67.5°	848.6	882.9	1136.3	1692.1	2826.5	5042.7	9734.8	12783.0	12804.6	12474.9	9190.4
69°	663.8	693.0	892.4	1275.4	1916.3	3624.3	8809.3	13235.9	13300.0	12744.9	9219.6
70°	563.4	592.0	768.6	1077.3	1540.9	2800.5	7841.3	13123.4	13191.4	12719.5	9001.8
72.5°	344.9	361.4	512.0	758.4	1032.8	1408.8	4835.6	11098.5	11213.5	11667.6	7736.5
75°	232.5	241.4	320.1	523.4	738.7	725.4	2512.1	7822.9	8071.9	9076.1	5714.1
77.5°	166.4	174.7	214.7	338.6	517.7	478.9	1137.6	4861.7	4915.0	5443.5	3116.2
80°	94.6	102.3	151.8	201.4	351.3	319.5	452.2	2322.2	2348.9	2334.3	1040.4
82.5°	49.5	55.9	83.2	132.8	225.5	209.0	188.0	777.5	781.3	649.8	228.0
85°	9.5	11.4	41.3	90.8	116.2	90.8	76.9	182.3	186.1	164.5	56.5
87.5°	0.0	0.6	16.5	20.3	22.9	23.5	24.8	35.6	38.1	51.4	15.2
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°	1521.9	1521.9	1521.9	1521.9	1521.9	1521.9	1521.9	1521.9	1521.9	1521.9	1521.9
2.5°	1528.9	1506.0	1462.2	1411.4	1372.0	1333.2	1302.8	1271.0	1259.6	1253.8	1253.2
5°	1544.1	1495.8	1403.1	1307.8	1229.7	1156.0	1103.3	1053.1	1029.6	1018.8	1014.4
7.5°	1569.5	1492.0	1342.8	1197.3	1084.9	992.8	919.7	865.1	837.8	826.4	821.9
10°	1599.4	1487.0	1272.3	1080.4	936.9	841.6	769.2	715.2	685.4	672.7	666.3
12.5°	1634.3	1478.1	1191.0	962.3	810.5	715.2	627.6	560.9	526.6	512.0	505.0
15°	1677.5	1469.2	1105.8	851.1	699.3	583.1	487.2	442.1	435.1	432.6	433.2
17.5°	1720.1	1455.2	1013.1	741.3	582.5	455.4	406.5	404.0	405.2	405.2	405.2
20°	1758.2	1423.4	912.1	647.2	471.3	384.3	374.1	369.7	366.5	364.0	360.8
22.5°	1788.0	1380.9	814.9	553.9	384.9	351.9	336.0	322.0	310.6	303.0	299.2
25°	1808.4	1324.3	726.0	464.3	346.2	320.1	291.5	268.0	250.3	239.5	235.0
27.5°	1823.6	1263.4	646.6	388.7	319.5	283.3	245.8	217.9	199.4	189.9	186.1
30°	1834.4	1194.1	576.7	341.7	289.6	244.5	204.5	177.2	163.9	158.8	156.3
32.5°	1844.6	1117.3	510.7	319.5	261.7	209.0	171.5	150.5	142.3	135.9	134.0
35°	1870.0	1046.1	447.8	296.0	233.1	178.5	147.4	132.1	123.9	120.0	118.8
37.5°	1930.3	993.4	387.5	271.9	204.5	154.3	128.9	118.1	110.5	106.7	105.4
40°	2027.5	966.7	336.6	245.8	176.6	135.9	116.9	106.7	98.5	92.7	91.5
42.5°	2170.4	970.6	301.1	219.8	154.3	121.3	105.4	93.4	84.5	79.4	78.1
45°	2343.8	998.5	276.3	194.4	135.9	109.9	92.7	80.0	71.8	67.3	66.1
47.5°	2531.8	1043.6	256.0	171.5	121.3	99.1	80.0	66.7	59.7	55.9	55.3
50°	2730.0	1087.4	235.0	149.3	108.6	88.3	67.3	55.3	49.5	46.4	45.1
52.5°	2930.7	1138.2	216.0	128.9	97.8	75.6	55.9	45.1	40.7	38.1	36.8
55°	3146.7	1176.4	197.5	113.1	87.0	64.2	46.4	37.5	33.7	30.5	29.9
57.5°	3400.8	1235.4	178.5	97.8	74.3	53.4	38.1	29.9	26.7	23.5	22.9
60°	3743.7	1304.7	158.2	86.4	61.0	43.8	31.1	24.1	20.3	17.8	17.1
62.5°	4196.0	1381.5	132.8	75.6	49.5	35.6	24.8	19.1	14.6	11.4	11.4
65°	4769.6	1506.6	108.6	63.5	40.7	29.2	19.1	14.0	8.3	5.1	5.1
67.5°	5104.3	1528.2	87.7	52.1	33.0	24.8	15.9	9.5	2.5	0.6	0.0
69°	4997.0	1403.1	74.3	44.5	28.6	23.5	14.6	7.0	1.3	0.0	0.0
70°	4795.0	1283.1	65.4	39.4	26.0	22.2	14.0	5.1	1.3	0.0	0.0
72.5°	3962.3	913.4	49.5	29.2	19.1	19.7	12.7	3.2	1.3	0.0	0.0
75°	2886.3	555.1	35.6	20.3	12.1	14.6	8.9	1.3	0.6	0.0	0.0
77.5°	1605.7	261.7	22.2	11.4	7.6	8.9	4.4	0.0	0.0	0.0	0.0
80°	521.5	71.1	10.2	6.4	4.4	5.1	1.9	0.0	0.0	0.0	0.0
82.5°	96.5	20.3	5.7	3.2	1.3	1.3	0.0	0.0	0.0	0.0	0.0
85°	21.0	8.3	3.2	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	7.0	2.5	0.6	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)