

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: P323027

Luminaire Tested: **GAN-SA3A-830-U-T4W-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P323027
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-19)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA3A-830-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8194 lumens
Efficiency: N/A
Efficacy: 85.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

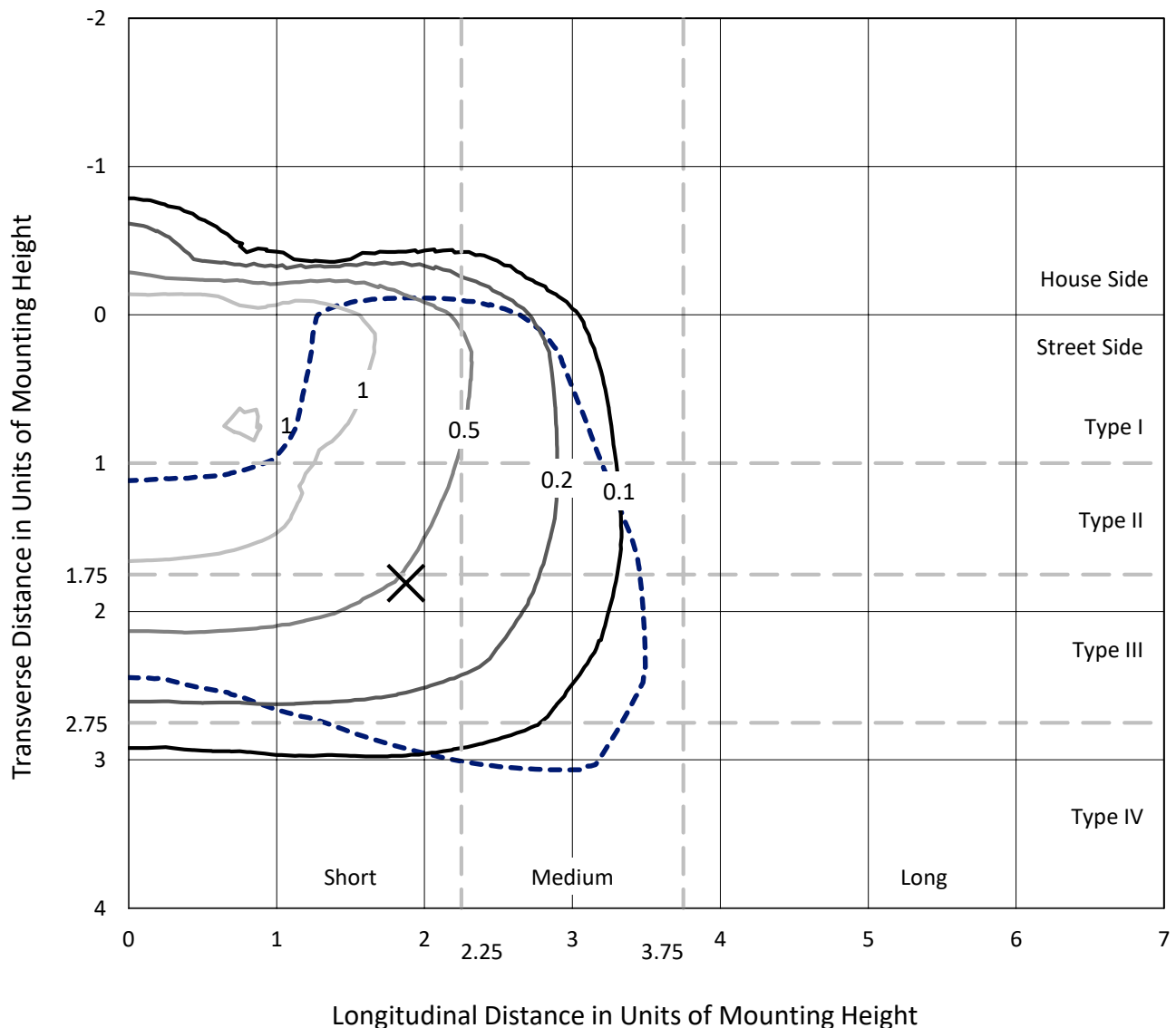
Input Watts (W): 96
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

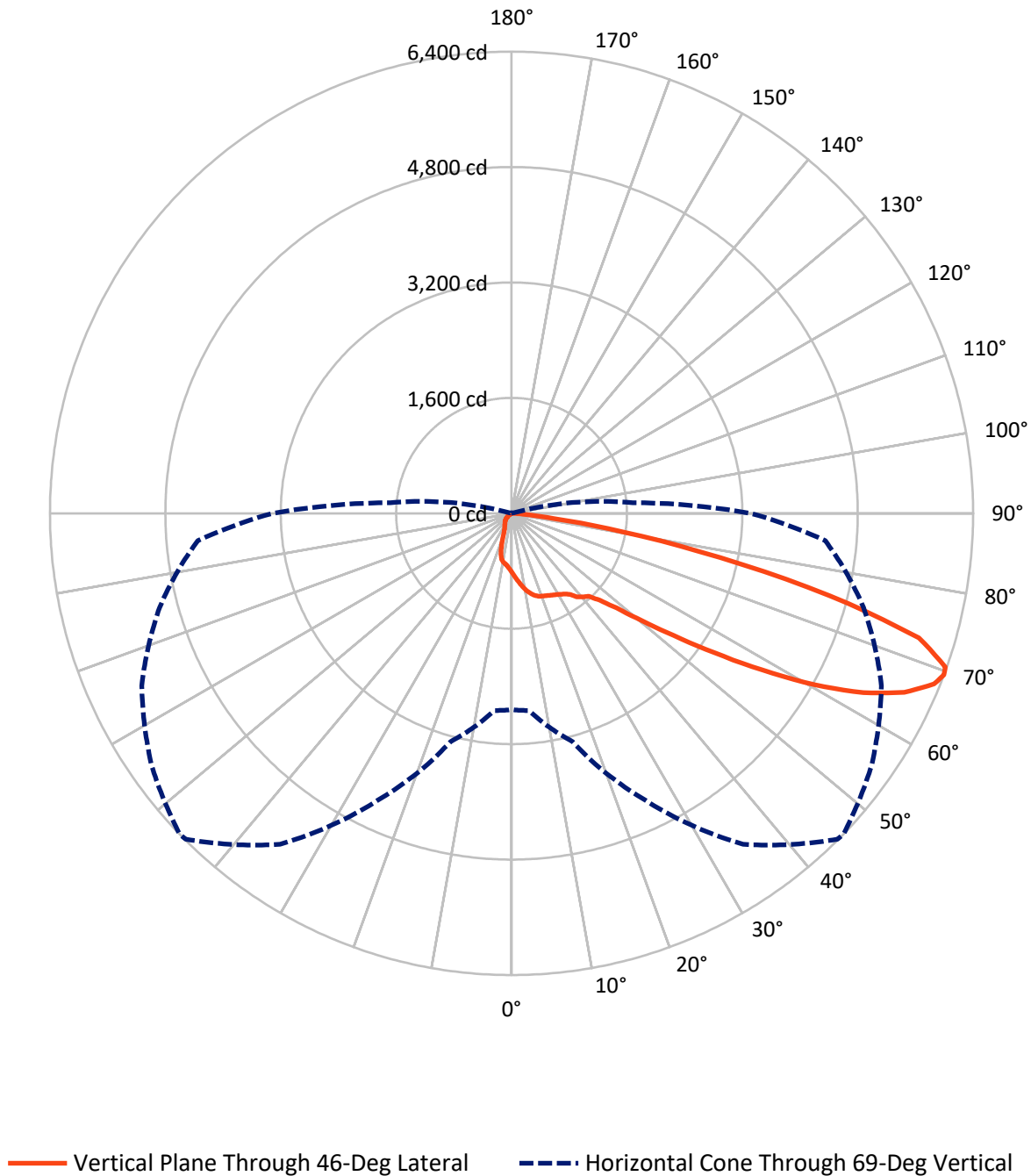
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.9 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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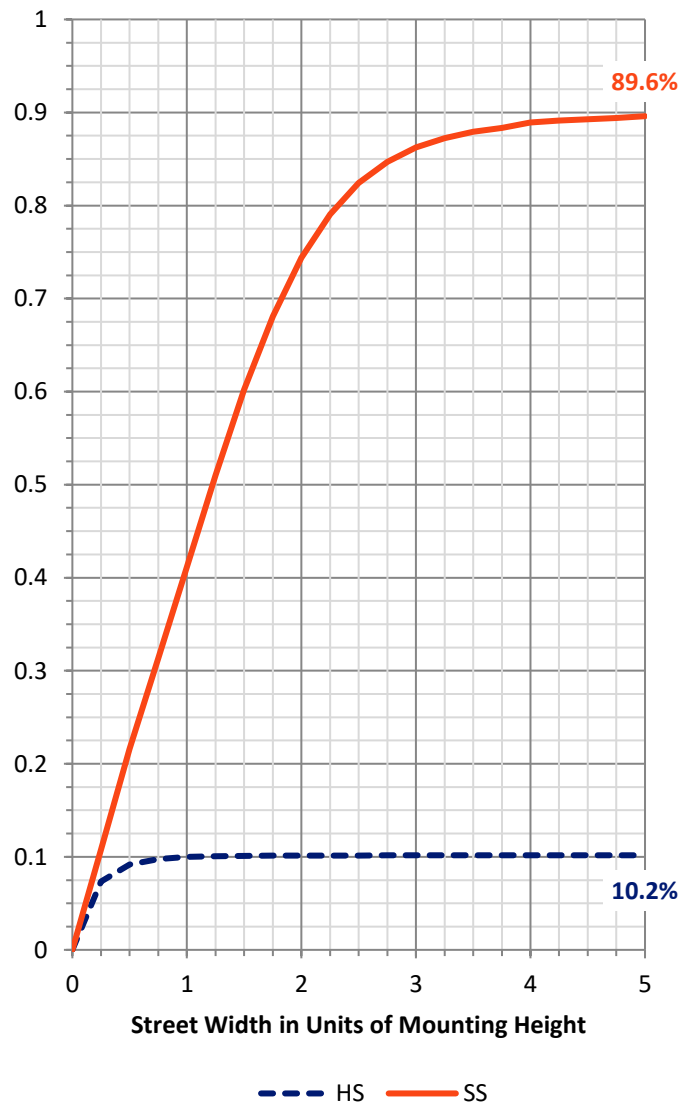
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	840.9	0.0	840.9
	% Fixture	10.3	0.0	10.3
Street Side	Lumens	7353.1	0.0	7353.1
	% Fixture	89.7	0.0	89.7
Total	Lumens	8194.0	0.0	8194.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	81.7	1.0
10°-20°	247.9	3.0
20°-30°	389.9	4.8
30°-40°	559.1	6.8
40°-50°	966.3	11.8
50°-60°	1909.1	23.3
60°-70°	2668.1	32.6
70°-80°	1289.0	15.7
80°-90°	82.9	1.0
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°	8194.0	100.0
0°-180°	8194.0	100.0

Coefficient of Utilization



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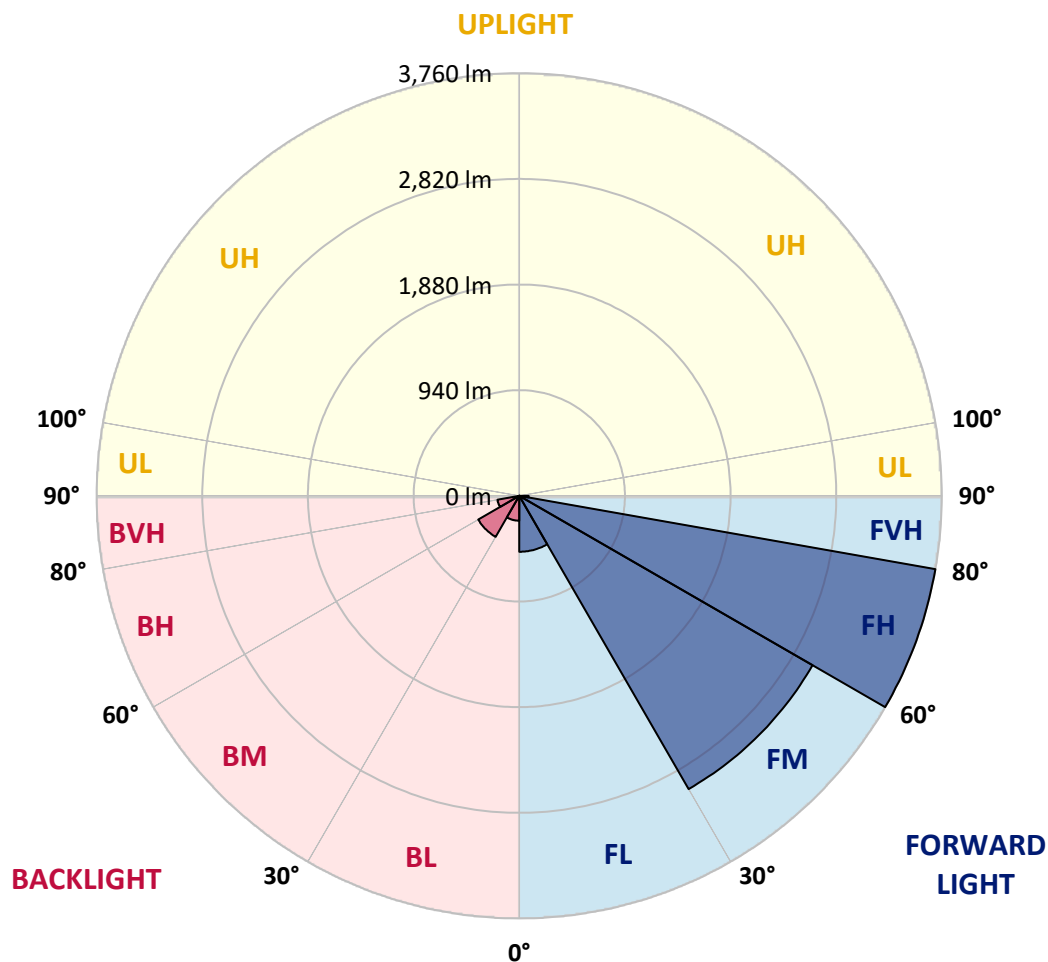
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	497.9	6.1			
FM	(30°-60°)	3013.1	36.8			
FH	(60°-80°)	3759.9	45.9			G2/5000
FVH	(80°-90°)	82.2	1.0			G1/100
BL	(0°-30°)	221.6	2.7	B1/500		
BM	(30°-60°)	421.4	5.1	B1/1000		
BH	(60°-80°)	197.2	2.4	B1/500		G1/500
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 IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	821.0	821.0	821.0	821.0	821.0	821.0	821.0	821.0	821.0	821.0	821.0
2.5°	912.1	910.9	905.5	903.2	890.2	882.5	879.4	869.8	856.0	842.1	826.8
5°	1015.8	1015.4	1005.4	995.8	971.2	948.2	943.9	921.7	890.5	861.3	832.1
7.5°	1121.8	1116.8	1106.8	1088.4	1052.7	1015.8	1012.3	980.8	936.6	894.4	852.5
10°	1211.7	1208.7	1195.6	1167.5	1125.7	1083.8	1079.6	1040.8	990.8	939.0	885.6
12.5°	1281.6	1279.3	1262.1	1227.1	1182.5	1139.1	1133.4	1098.8	1045.4	987.4	924.4
15°	1324.3	1323.1	1302.0	1264.7	1220.9	1183.3	1178.3	1148.0	1098.4	1037.7	966.6
17.5°	1334.3	1334.7	1312.8	1275.1	1239.0	1212.1	1208.3	1185.2	1143.7	1083.4	1008.9
20°	1312.0	1316.6	1297.0	1264.4	1242.1	1227.9	1224.8	1211.0	1176.0	1119.1	1042.7
22.5°	1280.5	1282.8	1269.4	1247.5	1238.2	1240.9	1239.4	1231.7	1202.1	1149.9	1076.1
25°	1261.3	1261.3	1253.2	1234.8	1240.9	1257.4	1257.8	1256.3	1232.9	1187.5	1116.8
27.5°	1260.5	1258.2	1249.0	1235.2	1252.1	1277.4	1279.0	1289.3	1274.7	1233.2	1167.5
30°	1291.3	1288.6	1269.0	1250.9	1272.4	1299.7	1303.5	1326.2	1318.9	1282.8	1224.0
32.5°	1363.1	1353.5	1310.1	1280.5	1296.6	1329.3	1334.3	1370.4	1381.9	1343.9	1278.6
35°	1461.4	1431.1	1368.5	1336.6	1338.1	1372.3	1376.9	1429.9	1464.1	1400.0	1320.8
37.5°	1597.1	1582.1	1480.3	1395.0	1401.9	1453.8	1467.2	1524.8	1515.2	1430.7	1368.9
40°	1894.4	1871.0	1762.7	1558.6	1463.0	1519.8	1524.1	1554.8	1555.6	1500.3	1468.7
42.5°	2299.4	2289.8	2175.7	1855.6	1583.2	1564.0	1571.7	1623.6	1681.6	1647.0	1645.5
45°	2747.7	2742.7	2621.7	2249.8	1826.4	1708.9	1718.5	1788.0	1899.0	1906.7	1955.5
47.5°	3108.5	3106.2	3036.6	2689.7	2198.7	1954.4	1957.4	2031.2	2226.4	2322.8	2400.8
50°	3437.3	3448.5	3393.5	3165.7	2705.8	2338.9	2331.6	2380.8	2694.3	2852.2	2949.0
52.5°	3894.5	3910.3	3756.2	3609.8	3237.9	2816.1	2810.3	2861.8	3256.8	3375.1	3392.4
55°	4298.3	4271.4	4149.6	4107.3	3886.8	3405.4	3403.9	3449.2	3800.8	3851.1	3883.0
57.5°	4476.5	4466.2	4525.0	4621.8	4566.4	4102.0	4098.5	4063.9	4287.5	4292.9	4390.9
60°	4589.1	4601.8	4782.0	5080.5	5218.4	4851.5	4829.2	4618.3	4752.4	4740.5	4845.4
62.5°	4504.6	4529.6	4853.8	5351.3	5706.3	5505.8	5474.3	5126.2	5149.6	5108.5	5206.1
65°	4055.9	4094.7	4626.0	5300.2	5948.4	6017.1	5985.3	5574.6	5465.1	5397.4	5343.3
67.5°	3293.3	3316.3	3871.1	4855.7	5839.3	6322.2	6315.7	5967.6	5703.3	5348.7	4928.4
69°	2721.6	2744.2	3278.3	4387.8	5599.1	6387.5	6400.2	6093.6	5657.9	5052.1	4366.7
70°	2305.1	2329.3	2826.8	3986.7	5320.6	6357.1	6379.8	6081.7	5528.1	4708.6	3873.8
72.5°	1209.0	1229.8	1740.4	2746.6	4337.5	5837.3	5906.1	5567.6	4685.9	3419.7	2290.5
75°	380.0	391.9	679.6	1435.7	2969.8	4538.8	4554.5	4367.4	3327.4	1881.0	953.9
77.5°	144.8	141.4	226.3	529.0	1501.4	2858.0	2954.4	2729.3	1746.1	665.0	220.1
80°	78.0	78.4	117.6	219.0	642.4	1468.7	1550.2	1322.8	620.5	207.5	50.7
82.5°	33.8	35.3	66.1	116.0	295.1	541.7	582.4	484.8	237.0	139.5	18.8
85°	7.3	8.1	31.9	63.0	120.3	152.1	159.4	157.1	151.0	108.3	7.3
87.5°	0.0	0.0	14.2	22.7	30.4	34.6	30.4	39.6	83.4	73.0	3.8
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°	821.0	821.0	821.0	821.0	821.0	821.0	821.0	821.0	821.0	821.0	821.0
2.5°	821.8	814.9	803.0	789.9	780.7	771.1	763.4	759.9	756.1	753.4	756.8
5°	820.2	806.8	783.7	761.5	745.3	732.3	721.5	717.3	713.1	710.0	709.6
7.5°	833.7	814.9	779.5	746.9	721.9	704.2	689.6	683.5	678.5	676.2	674.2
10°	859.4	835.2	788.0	745.3	713.1	683.1	651.6	627.4	611.6	604.3	601.6
12.5°	892.9	862.5	804.1	753.4	706.5	648.9	582.0	524.4	487.1	474.9	467.6
15°	932.0	894.4	825.2	763.8	682.7	577.4	464.1	388.8	354.2	347.3	339.6
17.5°	969.7	928.2	850.6	765.7	630.5	461.4	340.0	288.9	275.5	280.1	281.2
20°	1002.7	961.6	875.6	748.8	535.6	346.2	263.2	250.5	255.5	264.3	265.9
22.5°	1036.2	993.9	898.6	704.2	414.2	262.8	237.0	240.1	245.1	253.9	255.5
25°	1076.9	1033.1	920.1	622.4	310.8	223.6	225.1	229.7	234.7	242.8	243.6
27.5°	1123.7	1082.6	934.3	516.0	230.5	205.5	210.5	217.4	222.4	230.1	231.7
30°	1186.0	1148.0	939.0	405.7	193.2	189.4	191.7	200.2	207.5	214.4	215.5
32.5°	1244.4	1212.5	923.6	306.2	179.0	174.4	174.4	179.4	187.9	194.4	195.9
35°	1298.2	1277.4	874.4	224.0	168.3	160.6	156.7	156.7	162.1	167.5	169.0
37.5°	1369.2	1368.5	794.9	178.6	157.9	149.1	141.0	134.8	132.9	134.1	134.8
40°	1491.0	1492.2	691.2	160.2	149.1	137.2	124.9	113.7	103.3	99.9	99.5
42.5°	1681.2	1663.9	582.4	151.4	141.4	124.9	106.4	91.4	75.3	70.3	69.9
45°	1983.2	1880.6	467.2	143.3	133.3	111.0	88.0	67.6	54.6	50.7	50.7
47.5°	2423.1	2165.3	361.9	134.5	122.6	95.3	66.5	48.8	40.0	38.0	38.4
50°	2877.9	2444.2	277.4	123.3	109.5	78.8	49.2	35.3	30.4	30.4	30.7
52.5°	3281.3	2648.6	216.3	111.4	93.4	61.9	37.3	27.7	25.4	25.0	25.4
55°	3659.0	2780.4	165.6	97.6	74.1	46.1	28.4	22.7	21.1	20.4	20.0
57.5°	4023.2	2845.7	124.1	78.8	53.8	33.4	22.7	19.2	17.7	16.5	16.1
60°	4265.6	2792.7	85.3	58.0	37.3	24.2	18.8	16.5	14.6	13.4	13.1
62.5°	4402.4	2647.8	54.9	41.9	26.5	18.1	15.0	13.8	11.1	10.0	10.0
65°	4347.1	2408.9	38.4	30.0	19.2	13.4	11.1	11.1	8.1	6.5	6.1
67.5°	3852.2	2035.0	29.2	22.3	13.8	10.0	8.5	9.6	5.0	3.1	3.1
69°	3314.4	1686.6	25.0	18.4	11.5	8.1	7.3	8.8	3.5	2.3	1.9
70°	2880.6	1454.9	22.7	16.1	9.6	6.9	6.5	8.5	3.5	1.9	1.5
72.5°	1723.5	811.4	17.3	11.5	6.1	5.4	5.4	9.6	3.5	1.9	1.5
75°	696.5	285.8	12.7	8.1	4.6	4.6	6.5	12.3	3.1	1.5	1.2
77.5°	157.9	62.6	7.3	5.0	3.1	4.6	7.7	9.6	1.9	0.8	0.0
80°	38.4	15.4	4.6	3.1	1.9	3.5	5.8	5.4	0.4	0.0	0.0
82.5°	12.7	5.4	1.9	1.5	0.4	1.2	2.7	1.5	0.0	0.0	0.0
85°	5.4	3.1	0.8	0.4	0.0	0.0	0.4	0.0	0.0	0.0	0.0
87.5°	3.5	1.2	0.0	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)