

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: P322056

Luminaire Tested: **GAN-SA2D-827-U-T2-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322056
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-SA2D-827-U-T2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 2700K, 1200mA 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: 8302 lumens
Efficiency: N/A
Efficacy: 64.4 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): 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

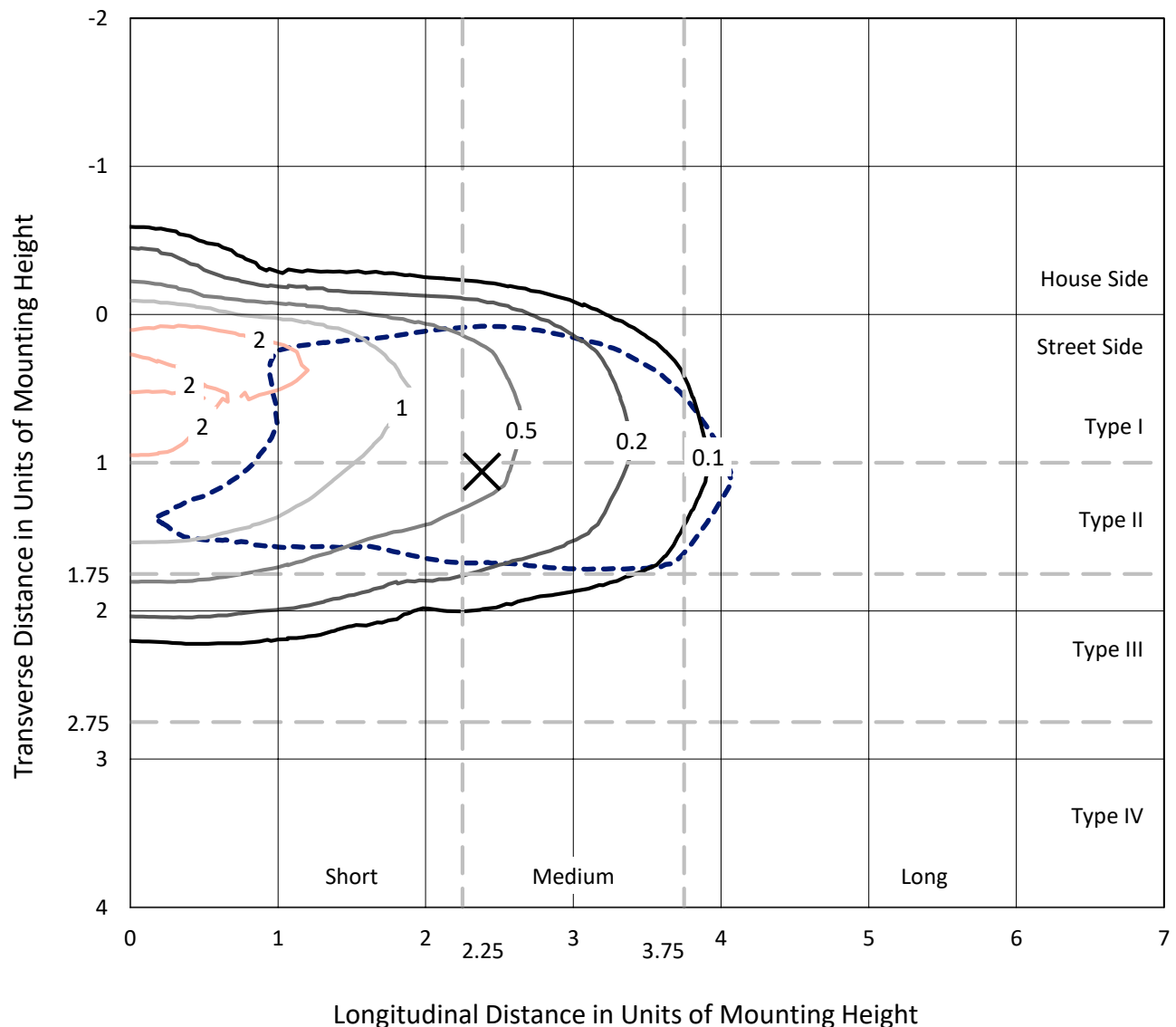


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Iso-Footcandle Lines of Horizontal Illumination

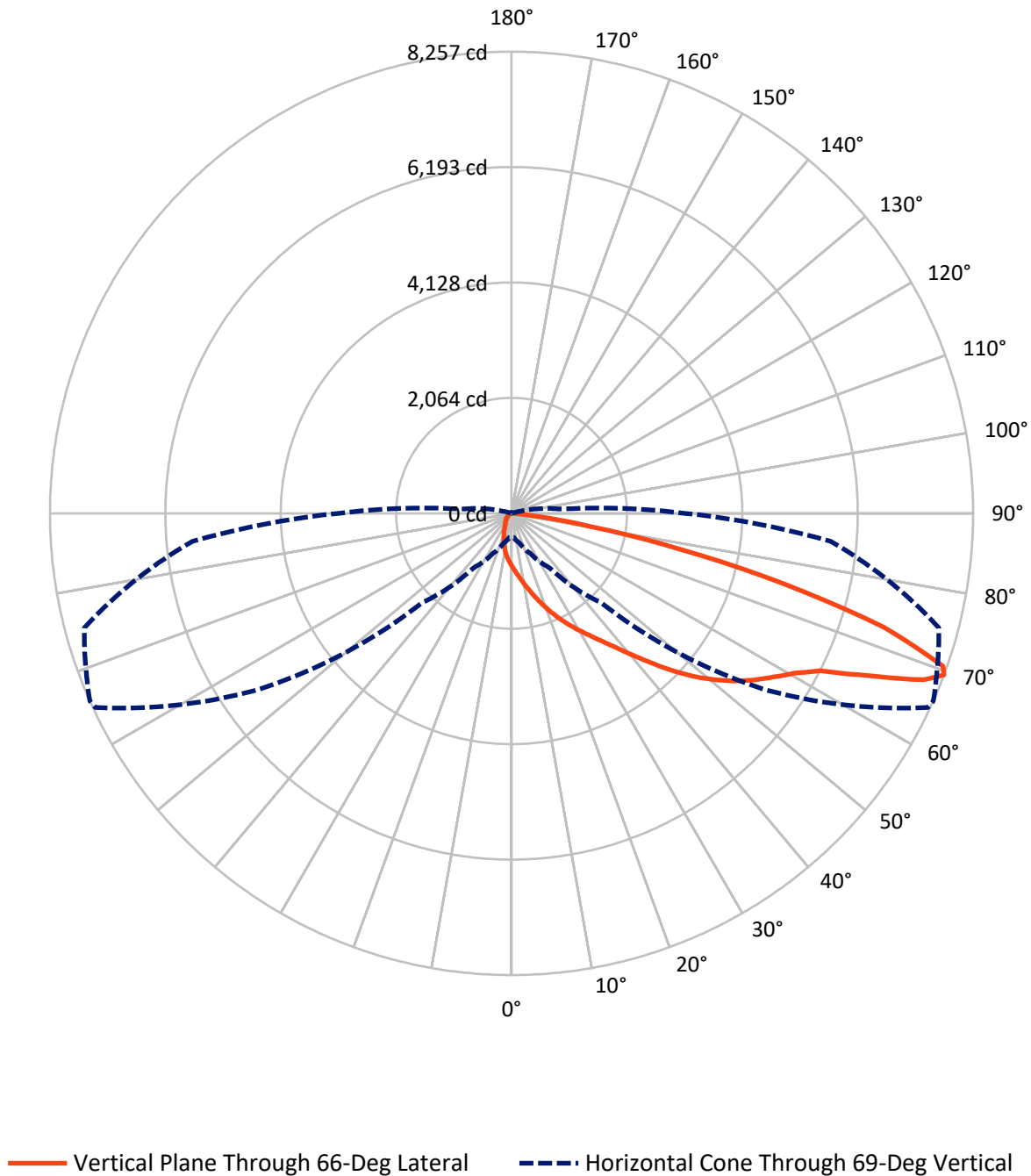
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.5 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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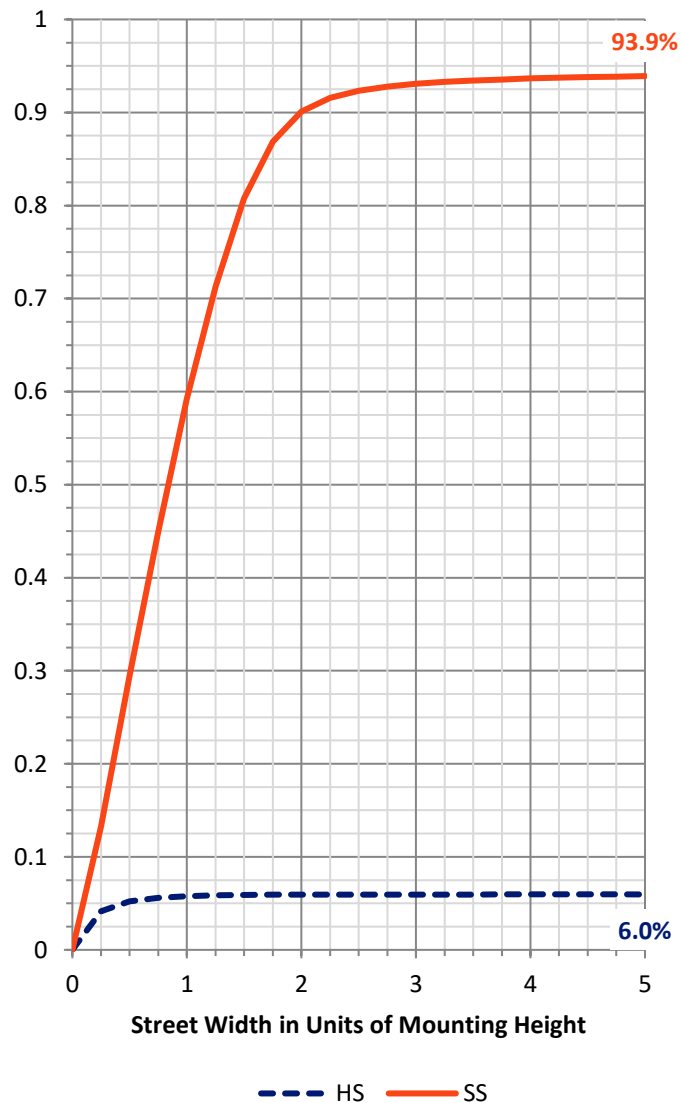
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	498.0	0.0	498.0
	% Fixture	6.0	0.0	6.0
Street Side	Lumens	7804.0	0.0	7804.0
	% Fixture	94.0	0.0	94.0
Total	Lumens	8302.0	0.0	8302.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	91.3	1.1
10°-20°	271.8	3.3
20°-30°	473.3	5.7
30°-40°	830.4	10.0
40°-50°	1390.0	16.7
50°-60°	2043.2	24.6
60°-70°	2097.8	25.3
70°-80°	1035.6	12.5
80°-90°	68.5	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°	8302.0	100.0
0°-180°	8302.0	100.0

Coefficient of Utilization



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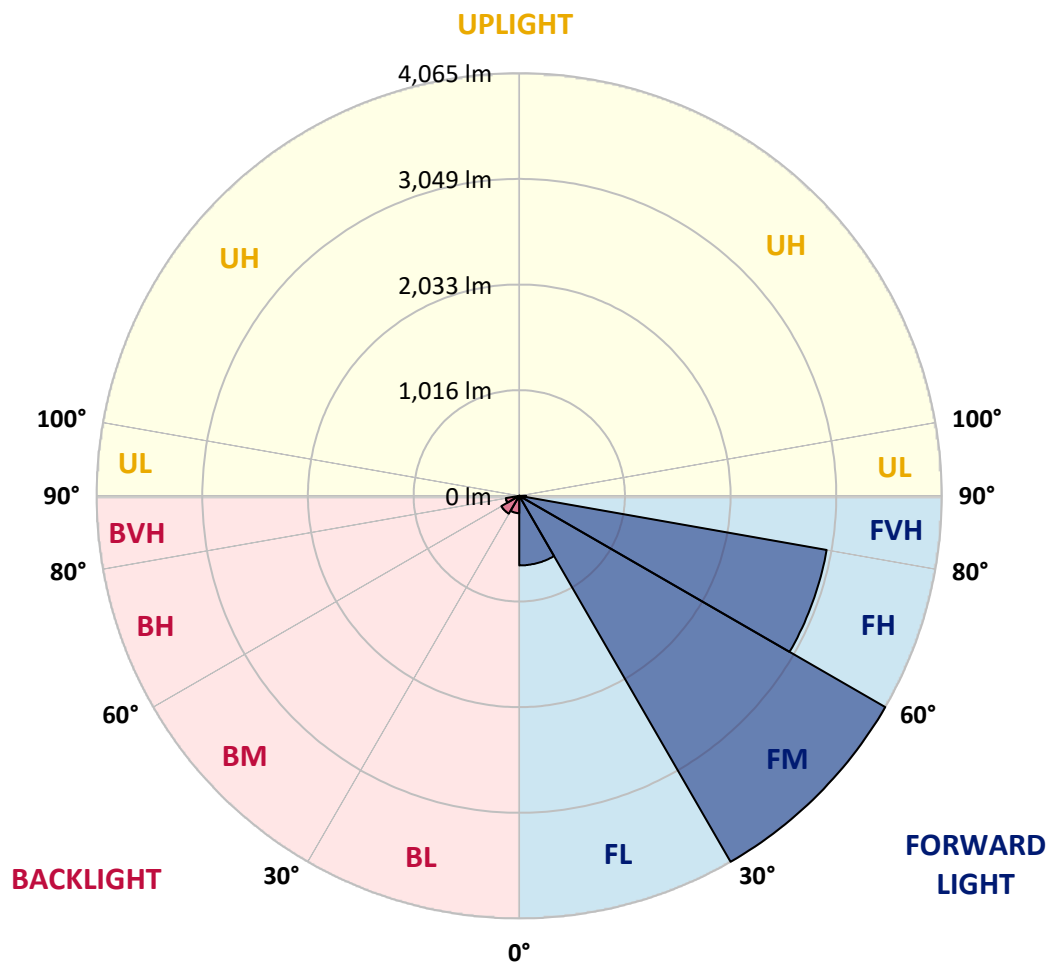
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	669.9	8.1			
FM	(30°-60°)	4065.1	49.0			
FH	(60°-80°)	3002.2	36.2			G2/5000
FVH	(80°-90°)	66.8	0.8			G1/100
BL	(0°-30°)	166.6	2.0	B1/500		
BM	(30°-60°)	198.6	2.4	B0/220		
BH	(60°-80°)	131.2	1.6	B1/500		G1/500
BVH	(80°-90°)	1.7	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°	944.8	944.8	944.8	944.8	944.8	944.8	944.8	944.8	944.8	944.8	944.8
2.5°	1112.0	1107.3	1105.3	1096.6	1081.6	1070.2	1048.1	1022.5	1017.7	992.9	962.5
5°	1256.3	1252.4	1249.6	1237.4	1222.0	1193.2	1153.0	1105.3	1096.2	1048.9	988.2
7.5°	1356.9	1364.0	1364.0	1356.1	1336.7	1315.1	1265.8	1200.7	1189.3	1116.7	1022.5
10°	1415.6	1424.3	1431.0	1437.7	1434.9	1426.3	1379.7	1306.4	1292.6	1196.4	1062.3
12.5°	1421.1	1429.8	1448.7	1476.7	1503.9	1523.7	1494.5	1423.5	1407.7	1288.6	1109.6
15°	1390.4	1399.4	1428.6	1483.0	1548.9	1606.5	1615.9	1553.2	1537.1	1398.7	1168.8
17.5°	1336.7	1342.7	1384.5	1459.8	1563.1	1668.8	1725.9	1692.4	1677.4	1524.4	1234.6
20°	1296.9	1301.3	1337.9	1418.8	1554.4	1707.8	1830.0	1840.3	1824.5	1659.3	1306.0
22.5°	1365.1	1373.0	1374.2	1412.5	1530.8	1727.1	1921.5	1985.8	1974.0	1802.4	1376.2
25°	1551.7	1560.7	1530.8	1507.1	1550.9	1735.8	2000.0	2134.9	2125.4	1956.6	1446.8
27.5°	1798.1	1807.6	1768.9	1698.3	1656.2	1768.5	2069.8	2286.3	2285.9	2119.9	1522.9
30°	2040.2	2049.7	2010.3	1939.7	1842.7	1861.2	2130.1	2444.8	2447.2	2288.2	1603.7
32.5°	2294.2	2306.0	2265.4	2174.7	2073.3	2021.3	2214.9	2604.1	2617.5	2483.4	1694.8
35°	2582.8	2584.4	2527.2	2432.2	2315.5	2235.4	2350.9	2782.7	2814.7	2725.2	1810.3
37.5°	2865.9	2877.4	2830.4	2680.6	2573.3	2482.6	2553.2	3005.9	3051.3	3020.5	1961.4
40°	3075.7	3099.8	3093.1	2931.4	2829.7	2765.0	2804.4	3271.3	3328.9	3364.4	2151.8
42.5°	3207.4	3225.5	3256.3	3158.9	3066.6	3077.3	3100.9	3580.4	3651.4	3756.3	2370.7
45°	3358.4	3367.1	3392.7	3349.8	3287.5	3394.7	3415.6	3928.6	4003.2	4177.8	2613.6
47.5°	3543.0	3563.5	3570.6	3531.1	3502.8	3675.5	3718.8	4245.3	4349.8	4629.3	2870.7
50°	3778.0	3783.5	3795.7	3770.1	3741.7	3916.8	3990.9	4577.7	4672.7	5082.4	3124.2
52.5°	4007.9	4027.6	4070.2	4054.0	4042.6	4122.2	4233.4	4877.4	4983.4	5460.2	3377.4
55°	4074.1	4091.1	4238.2	4338.7	4431.8	4375.4	4465.3	5145.9	5260.6	5797.7	3621.1
57.5°	3809.5	3843.8	4098.6	4360.4	4746.4	4768.9	4783.9	5421.5	5524.4	6056.4	3874.6
60°	3140.8	3147.5	3565.5	4014.6	4694.4	5112.4	5249.2	5717.7	5804.0	6297.3	4178.2
62.5°	1997.6	2065.9	2524.4	3158.5	4143.9	5062.7	5811.9	6165.6	6197.2	6586.4	4613.6
65°	951.5	995.7	1326.1	1951.5	3001.6	4426.7	6200.3	6975.9	6990.1	7159.3	5195.2
67.5°	526.8	548.1	705.4	1050.5	1754.7	3130.5	6043.4	7935.7	7949.1	7744.5	5705.4
69°	412.1	430.2	554.0	791.8	1189.7	2250.0	5468.8	8216.9	8256.7	7912.1	5723.6
70°	349.8	367.5	477.1	668.8	956.6	1738.6	4867.9	8147.1	8189.3	7896.3	5588.3
72.5°	214.1	224.4	317.8	470.8	641.2	874.6	3002.0	6890.0	6961.4	7243.3	4802.8
75°	144.3	149.8	198.7	324.9	458.6	450.3	1559.5	4856.5	5011.0	5634.5	3547.3
77.5°	103.3	108.4	133.3	210.2	321.4	297.3	706.2	3018.1	3051.3	3379.3	1934.5
80°	58.8	63.5	94.2	125.0	218.1	198.3	280.8	1441.6	1458.2	1449.1	645.9
82.5°	30.8	34.7	51.7	82.4	140.0	129.7	116.7	482.6	485.0	403.4	141.6
85°	5.9	7.1	25.6	56.4	72.2	56.4	47.7	113.2	115.5	102.1	35.1
87.5°	0.0	0.4	10.3	12.6	14.2	14.6	15.4	22.1	23.7	31.9	9.5
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°	944.8	944.8	944.8	944.8	944.8	944.8	944.8	944.8	944.8	944.8	944.8
2.5°	949.1	934.9	907.7	876.2	851.7	827.7	808.8	789.0	781.9	778.4	778.0
5°	958.6	928.6	871.1	811.9	763.4	717.7	684.9	653.8	639.2	632.5	629.7
7.5°	974.4	926.3	833.6	743.3	673.5	616.3	571.0	537.1	520.1	513.0	510.3
10°	992.9	923.1	789.8	670.7	581.6	522.5	477.5	444.0	425.5	417.6	413.6
12.5°	1014.6	917.6	739.4	597.4	503.2	444.0	389.6	348.2	326.9	317.8	313.5
15°	1041.4	912.1	686.5	528.4	434.1	362.0	302.4	274.4	270.1	268.5	268.9
17.5°	1067.8	903.4	628.9	460.2	361.6	282.7	252.4	250.8	251.6	251.6	251.6
20°	1091.5	883.7	566.2	401.8	292.6	238.6	232.3	229.5	227.5	225.9	224.0
22.5°	1110.0	857.3	505.9	343.8	239.0	218.5	208.6	199.9	192.8	188.1	185.7
25°	1122.6	822.2	450.7	288.2	214.9	198.7	181.0	166.4	155.4	148.7	145.9
27.5°	1132.1	784.3	401.4	241.3	198.3	175.9	152.6	135.3	123.8	117.9	115.5
30°	1138.8	741.3	358.0	212.1	179.8	151.8	127.0	110.0	101.7	98.6	97.0
32.5°	1145.1	693.6	317.0	198.3	162.5	129.7	106.5	93.5	88.3	84.4	83.2
35°	1160.9	649.4	278.0	183.8	144.7	110.8	91.5	82.0	76.9	74.5	73.7
37.5°	1198.3	616.7	240.5	168.8	127.0	95.8	80.0	73.3	68.6	66.2	65.5
40°	1258.7	600.2	209.0	152.6	109.6	84.4	72.6	66.2	61.1	57.6	56.8
42.5°	1347.4	602.5	186.9	136.4	95.8	75.3	65.5	58.0	52.4	49.3	48.5
45°	1455.0	619.9	171.5	120.7	84.4	68.2	57.6	49.7	44.6	41.8	41.0
47.5°	1571.8	647.9	158.9	106.5	75.3	61.5	49.7	41.4	37.1	34.7	34.3
50°	1694.8	675.1	145.9	92.7	67.4	54.8	41.8	34.3	30.8	28.8	28.0
52.5°	1819.4	706.6	134.1	80.0	60.7	46.9	34.7	28.0	25.2	23.7	22.9
55°	1953.5	730.3	122.6	70.2	54.0	39.8	28.8	23.3	20.9	18.9	18.5
57.5°	2111.2	767.0	110.8	60.7	46.1	33.1	23.7	18.5	16.6	14.6	14.2
60°	2324.1	809.9	98.2	53.6	37.9	27.2	19.3	15.0	12.6	11.0	10.6
62.5°	2604.9	857.6	82.4	46.9	30.8	22.1	15.4	11.8	9.1	7.1	7.1
65°	2961.0	935.3	67.4	39.4	25.2	18.1	11.8	8.7	5.1	3.2	3.2
67.5°	3168.8	948.7	54.4	32.3	20.5	15.4	9.9	5.9	1.6	0.4	0.0
69°	3102.1	871.1	46.1	27.6	17.7	14.6	9.1	4.3	0.8	0.0	0.0
70°	2976.7	796.5	40.6	24.4	16.2	13.8	8.7	3.2	0.8	0.0	0.0
72.5°	2459.8	567.0	30.8	18.1	11.8	12.2	7.9	2.0	0.8	0.0	0.0
75°	1791.8	344.6	22.1	12.6	7.5	9.1	5.5	0.8	0.4	0.0	0.0
77.5°	996.8	162.5	13.8	7.1	4.7	5.5	2.8	0.0	0.0	0.0	0.0
80°	323.7	44.2	6.3	3.9	2.8	3.2	1.2	0.0	0.0	0.0	0.0
82.5°	59.9	12.6	3.5	2.0	0.8	0.8	0.0	0.0	0.0	0.0	0.0
85°	13.0	5.1	2.0	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	4.3	1.6	0.4	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)