

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: P322029

Luminaire Tested: **GAN-SA5A-827-U-T2-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322029
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-SA5A-827-U-T2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 2700K, 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: 12180 lumens
Efficiency: N/A
Efficacy: 75.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G2

Input Watts (W): 162
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

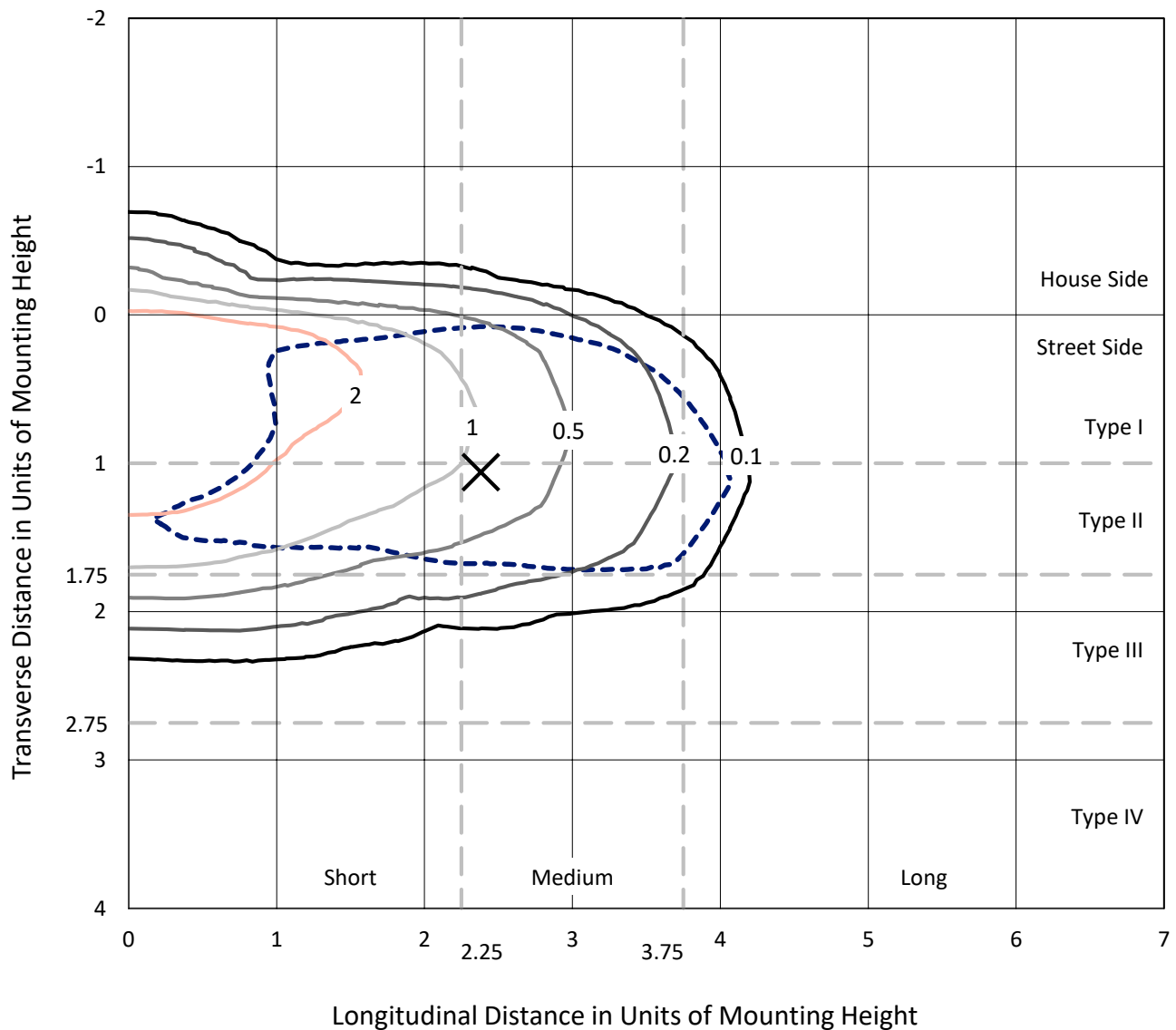


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Iso-Footcandle Lines of Horizontal Illumination

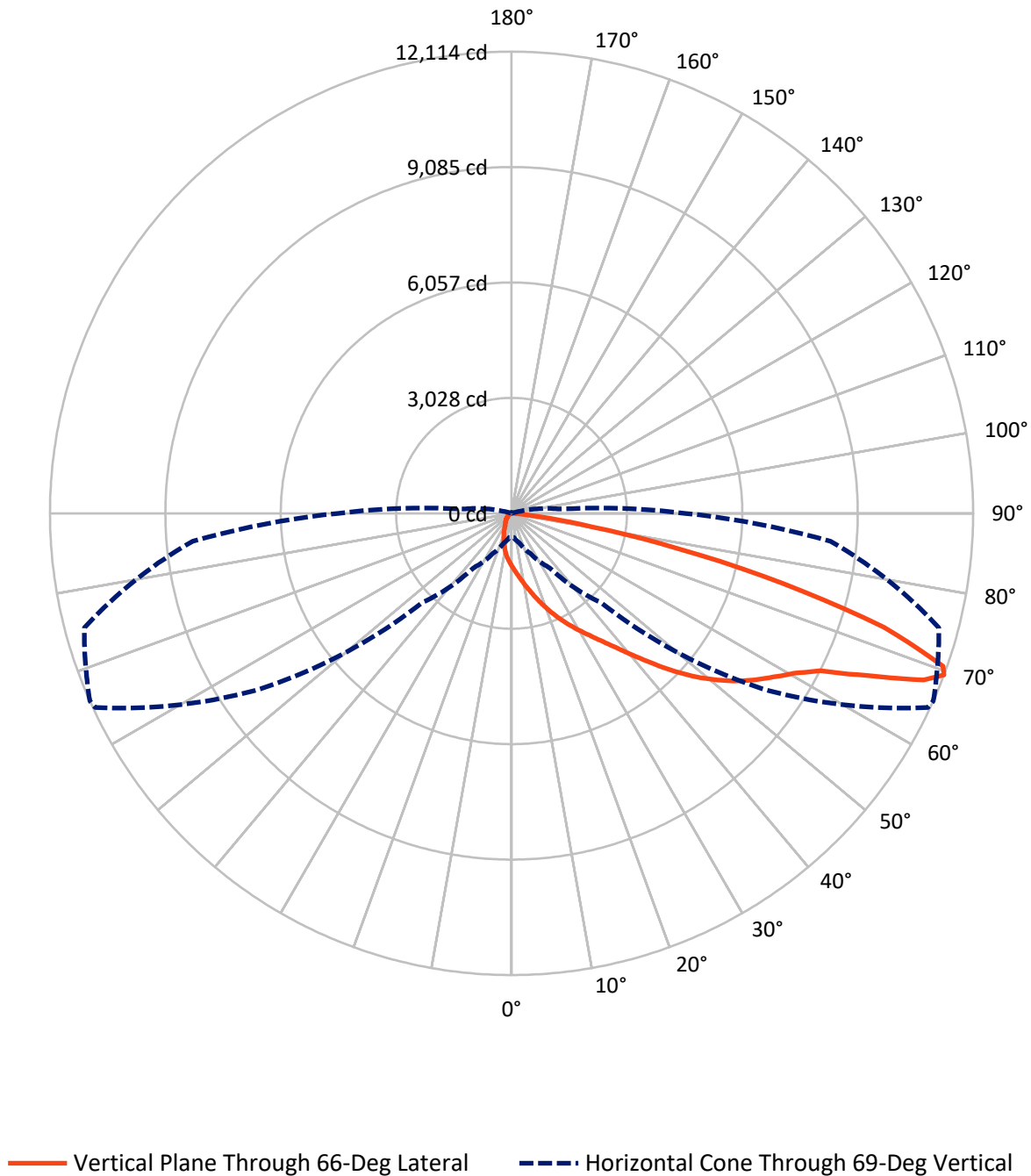
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.7 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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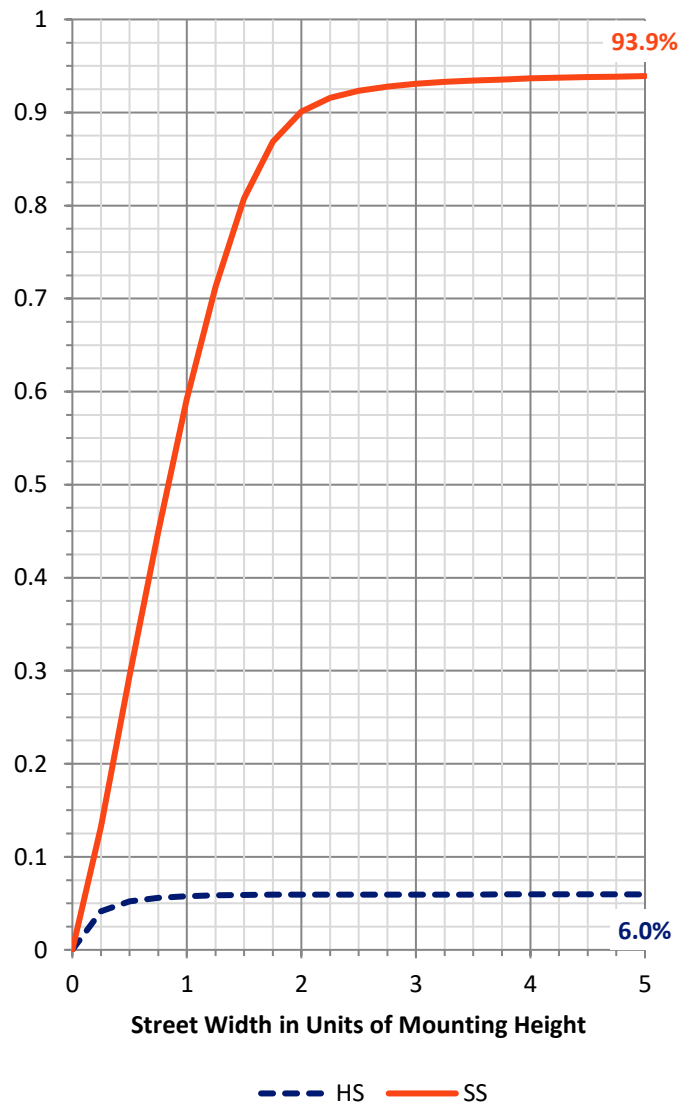
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	730.6	0.0	730.6
	% Fixture	6.0	0.0	6.0
Street Side	Lumens	11449.4	0.0	11449.4
	% Fixture	94.0	0.0	94.0
Total	Lumens	12180.0	0.0	12180.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	134.0	1.1
10°-20°	398.8	3.3
20°-30°	694.4	5.7
30°-40°	1218.3	10.0
40°-50°	2039.3	16.7
50°-60°	2997.6	24.6
60°-70°	3077.8	25.3
70°-80°	1519.4	12.5
80°-90°	100.5	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°	12180.0	100.0
0°-180°	12180.0	100.0

Coefficient of Utilization



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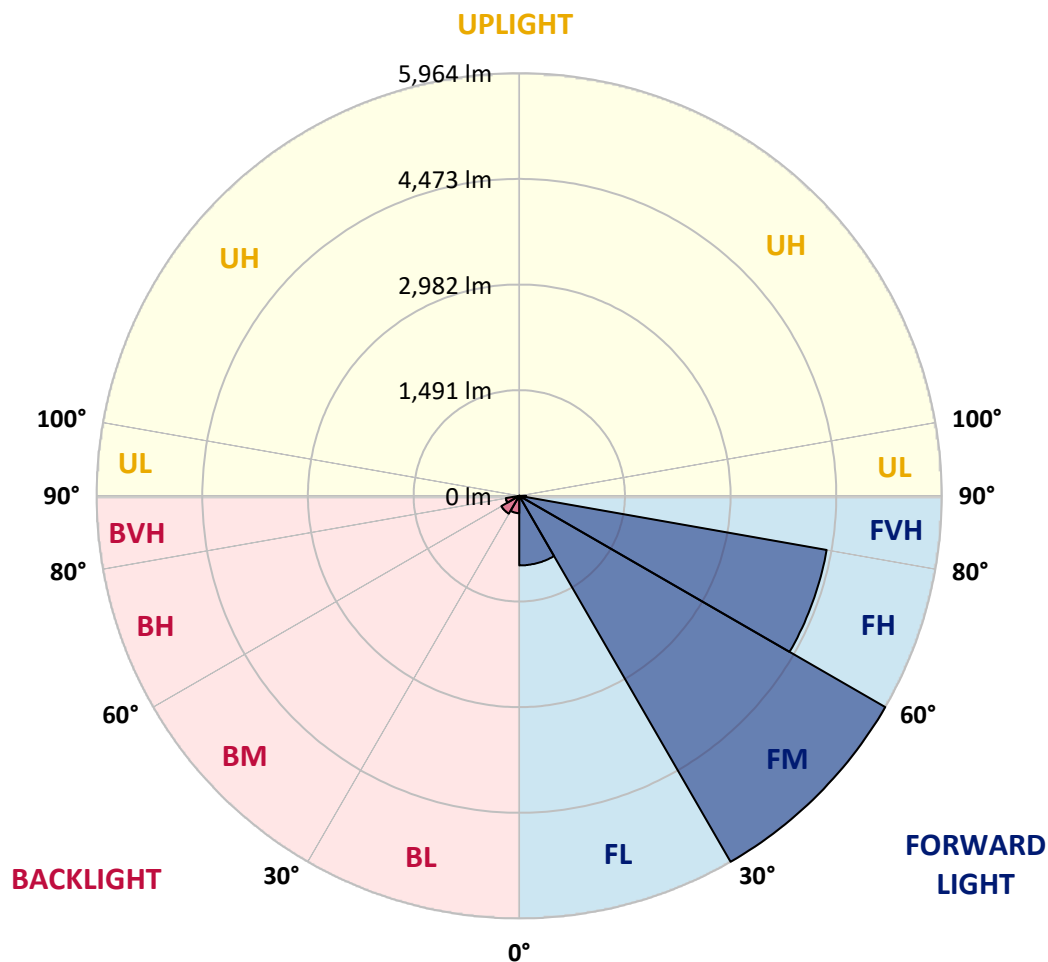
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	982.8	8.1			
FM	(30°-60°)	5963.9	49.0			
FH	(60°-80°)	4404.6	36.2			G2/5000
FVH	(80°-90°)	98.0	0.8			G1/100
BL	(0°-30°)	244.4	2.0	B1/500		
BM	(30°-60°)	291.3	2.4	B1/1000		
BH	(60°-80°)	192.5	1.6	B1/500		G1/500
BVH	(80°-90°)	2.4	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-G2

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	1386.1	1386.1	1386.1	1386.1	1386.1	1386.1	1386.1	1386.1	1386.1	1386.1	1386.1
2.5°	1631.4	1624.5	1621.6	1608.9	1586.9	1570.1	1537.7	1500.1	1493.1	1456.7	1412.2
5°	1843.2	1837.4	1833.3	1815.4	1792.8	1750.6	1691.6	1621.6	1608.3	1538.9	1449.8
7.5°	1990.7	2001.1	2001.1	1989.5	1961.2	1929.3	1857.0	1761.6	1744.8	1638.4	1500.1
10°	2076.9	2089.6	2099.4	2109.3	2105.2	2092.5	2024.2	1916.6	1896.4	1755.2	1558.5
12.5°	2085.0	2097.7	2125.5	2166.5	2206.5	2235.4	2192.6	2088.4	2065.3	1890.6	1627.9
15°	2039.8	2053.2	2096.0	2175.8	2272.4	2356.9	2370.8	2278.8	2255.1	2052.0	1714.7
17.5°	1961.2	1969.8	2031.2	2141.7	2293.2	2448.3	2532.2	2483.0	2461.0	2236.5	1811.3
20°	1902.7	1909.1	1962.9	2081.5	2280.5	2505.6	2684.9	2699.9	2676.8	2434.4	1916.0
22.5°	2002.8	2014.4	2016.1	2072.2	2245.8	2533.9	2819.1	2913.4	2896.0	2644.4	2019.0
25°	2276.5	2289.8	2245.8	2211.1	2275.3	2546.6	2934.2	3132.1	3118.2	2870.6	2122.6
27.5°	2638.0	2651.9	2595.2	2491.7	2429.8	2594.6	3036.6	3354.2	3353.7	3110.1	2234.2
30°	2993.2	3007.1	2949.3	2845.7	2703.4	2730.6	3125.1	3586.8	3590.3	3357.1	2352.8
32.5°	3365.8	3383.2	3323.6	3190.5	3041.8	2965.5	3249.5	3820.5	3840.2	3643.5	2486.5
35°	3789.3	3791.6	3707.7	3568.3	3397.0	3279.6	3449.1	4082.6	4129.4	3998.1	2656.0
37.5°	4204.7	4221.4	4152.6	3932.7	3775.4	3642.3	3745.9	4410.0	4476.6	4431.4	2877.5
40°	4512.4	4547.7	4537.9	4300.7	4151.4	4056.6	4114.4	4799.4	4883.8	4935.9	3157.0
42.5°	4705.6	4732.3	4777.4	4634.5	4499.1	4514.7	4549.4	5252.9	5357.1	5510.9	3478.0
45°	4927.2	4939.9	4977.5	4914.5	4823.1	4980.4	5011.1	5763.7	5873.1	6129.4	3834.4
47.5°	5198.0	5228.0	5238.5	5180.6	5139.0	5392.3	5456.0	6228.3	6381.6	6791.8	4211.6
50°	5542.8	5550.9	5568.8	5531.2	5489.5	5746.4	5855.2	6716.0	6855.4	7456.5	4583.6
52.5°	5880.0	5909.0	5971.4	5947.7	5930.9	6047.8	6210.9	7155.7	7311.3	8010.7	4955.0
55°	5977.2	6002.1	6217.9	6365.4	6501.9	6419.2	6551.1	7549.6	7718.0	8505.9	5312.5
57.5°	5589.0	5639.4	6013.1	6397.2	6963.6	6996.6	7018.5	7954.0	8105.0	8885.4	5684.5
60°	4607.9	4617.7	5230.9	5889.9	6887.2	7500.5	7701.2	8388.5	8515.2	9238.9	6130.0
62.5°	2930.8	3030.8	3703.7	4633.9	6079.6	7427.6	8526.7	9045.7	9091.9	9662.9	6768.6
65°	1396.0	1460.8	1945.5	2863.1	4403.7	6494.4	9096.6	10234.5	10255.3	10503.5	7621.9
67.5°	772.9	804.1	1035.0	1541.2	2574.4	4592.8	8866.3	11642.6	11662.3	11362.0	8370.5
69°	604.5	631.2	812.8	1161.7	1745.4	3301.0	8023.4	12055.1	12113.5	11607.9	8397.2
70°	513.1	539.2	700.0	981.2	1403.5	2550.7	7141.8	11952.7	12014.6	11584.8	8198.7
72.5°	314.1	329.2	466.3	690.7	940.7	1283.1	4404.2	10108.4	10213.1	10626.8	7046.3
75°	211.7	219.8	291.6	476.7	672.8	660.7	2288.0	7125.0	7351.8	8266.4	5204.3
77.5°	151.6	159.1	195.5	308.3	471.5	436.2	1036.1	4428.0	4476.6	4957.9	2838.2
80°	86.2	93.1	138.3	183.4	319.9	291.0	411.9	2115.1	2139.4	2126.0	947.6
82.5°	45.1	50.9	75.8	120.9	205.4	190.3	171.2	708.1	711.6	591.8	207.7
85°	8.7	10.4	37.6	82.7	105.9	82.7	70.0	166.0	169.5	149.8	51.5
87.5°	0.0	0.6	15.0	18.5	20.8	21.4	22.6	32.4	34.7	46.9	13.9
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°	1386.1	1386.1	1386.1	1386.1	1386.1	1386.1	1386.1	1386.1	1386.1	1386.1	1386.1
2.5°	1392.5	1371.7	1331.7	1285.5	1249.6	1214.3	1186.5	1157.6	1147.2	1142.0	1141.4
5°	1406.4	1362.4	1277.9	1191.2	1120.0	1052.9	1004.9	959.2	937.8	927.9	923.9
7.5°	1429.5	1358.9	1223.0	1090.5	988.1	904.2	837.7	787.9	763.1	752.6	748.6
10°	1456.7	1354.3	1158.8	984.1	853.3	766.5	700.6	651.4	624.2	612.6	606.9
12.5°	1488.5	1346.2	1084.7	876.5	738.2	651.4	571.6	510.8	479.6	466.3	459.9
15°	1527.9	1338.1	1007.2	775.2	636.9	531.1	443.7	402.6	396.3	394.0	394.5
17.5°	1566.6	1325.4	922.7	675.1	530.5	414.8	370.2	367.9	369.1	369.1	369.1
20°	1601.3	1296.5	830.7	589.5	429.3	350.0	340.7	336.7	333.8	331.5	328.6
22.5°	1628.5	1257.7	742.2	504.5	350.6	320.5	306.0	293.3	282.9	276.0	272.5
25°	1647.0	1206.2	661.2	422.9	315.3	291.6	265.5	244.1	227.9	218.1	214.1
27.5°	1660.9	1150.7	588.9	354.1	291.0	258.0	223.9	198.4	181.7	173.0	169.5
30°	1670.8	1087.6	525.3	311.2	263.8	222.7	186.3	161.4	149.3	144.6	142.3
32.5°	1680.0	1017.6	465.1	291.0	238.3	190.3	156.2	137.1	129.6	123.8	122.1
35°	1703.1	952.8	407.9	269.6	212.3	162.6	134.2	120.3	112.8	109.3	108.2
37.5°	1758.1	904.8	352.9	247.6	186.3	140.6	117.4	107.6	100.7	97.2	96.0
40°	1846.6	880.5	306.6	223.9	160.8	123.8	106.4	97.2	89.7	84.5	83.3
42.5°	1976.8	884.0	274.2	200.2	140.6	110.5	96.0	85.0	76.9	72.3	71.2
45°	2134.7	909.4	251.7	177.0	123.8	100.1	84.5	72.9	65.4	61.3	60.2
47.5°	2306.0	950.5	233.1	156.2	110.5	90.2	72.9	60.7	54.4	50.9	50.3
50°	2486.5	990.4	214.1	136.0	98.9	80.4	61.3	50.3	45.1	42.2	41.1
52.5°	2669.3	1036.7	196.7	117.4	89.1	68.8	50.9	41.1	37.0	34.7	33.6
55°	2866.0	1071.4	179.9	103.0	79.3	58.4	42.2	34.1	30.7	27.8	27.2
57.5°	3097.4	1125.2	162.6	89.1	67.7	48.6	34.7	27.2	24.3	21.4	20.8
60°	3409.8	1188.3	144.1	78.7	55.5	39.9	28.3	22.0	18.5	16.2	15.6
62.5°	3821.7	1258.3	120.9	68.8	45.1	32.4	22.6	17.4	13.3	10.4	10.4
65°	4344.1	1372.2	98.9	57.9	37.0	26.6	17.4	12.7	7.5	4.6	4.6
67.5°	4649.0	1391.9	79.8	47.4	30.1	22.6	14.5	8.7	2.3	0.6	0.0
69°	4551.2	1277.9	67.7	40.5	26.0	21.4	13.3	6.4	1.2	0.0	0.0
70°	4367.2	1168.6	59.6	35.9	23.7	20.2	12.7	4.6	1.2	0.0	0.0
72.5°	3608.8	831.9	45.1	26.6	17.4	17.9	11.6	2.9	1.2	0.0	0.0
75°	2628.8	505.6	32.4	18.5	11.0	13.3	8.1	1.2	0.6	0.0	0.0
77.5°	1462.5	238.3	20.2	10.4	6.9	8.1	4.0	0.0	0.0	0.0	0.0
80°	475.0	64.8	9.3	5.8	4.0	4.6	1.7	0.0	0.0	0.0	0.0
82.5°	87.9	18.5	5.2	2.9	1.2	1.2	0.0	0.0	0.0	0.0	0.0
85°	19.1	7.5	2.9	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	6.4	2.3	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)