

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: P318525

Luminaire Tested: **GAN-SA1C-827-U-T3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318525
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-14)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA1C-827-U-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 2700K, 1050mA LIGHTSQUARE WITH 16 LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5446 lumens
Efficiency: N/A
Efficacy: 92.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

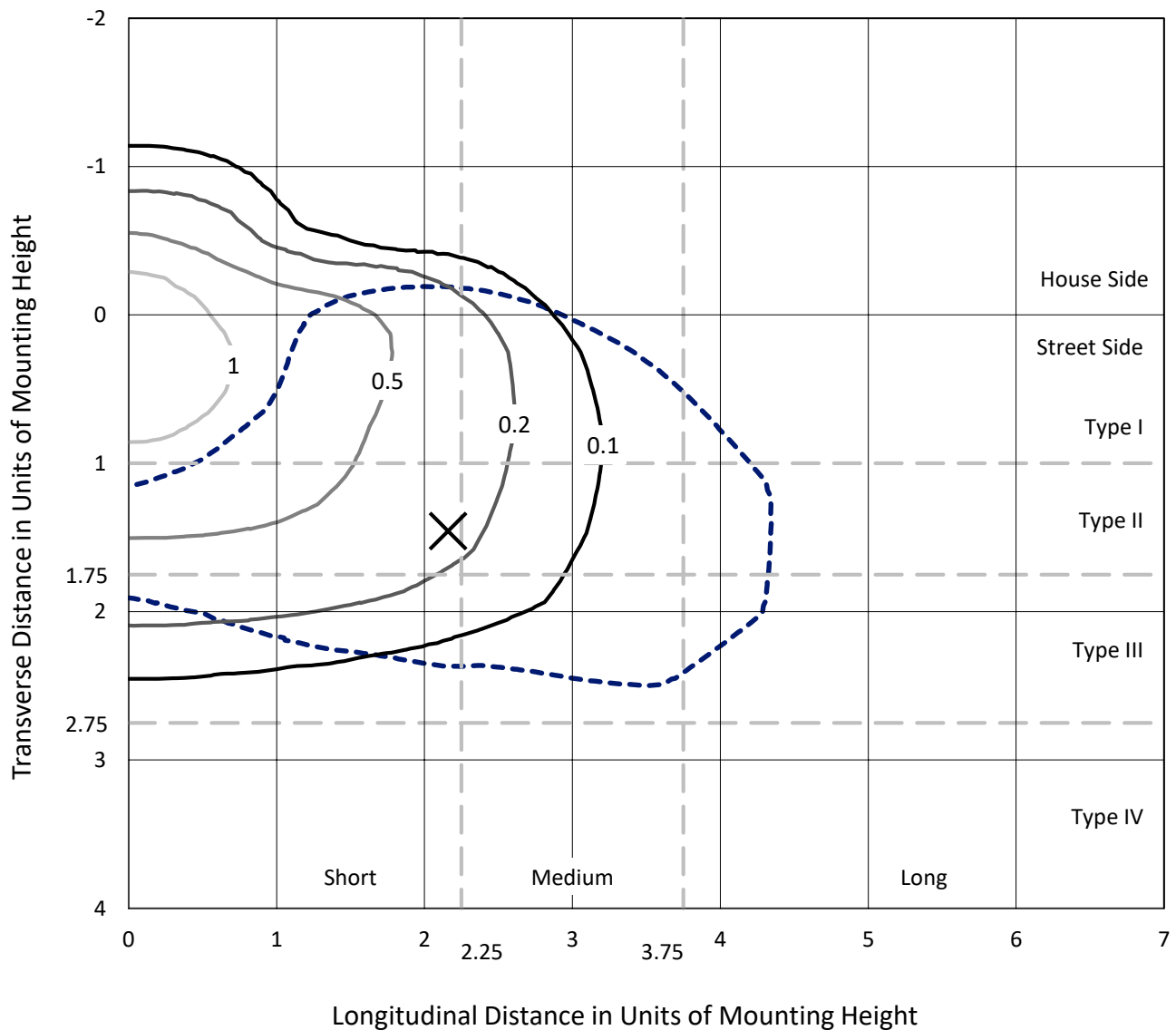
Input Watts (W): 59
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

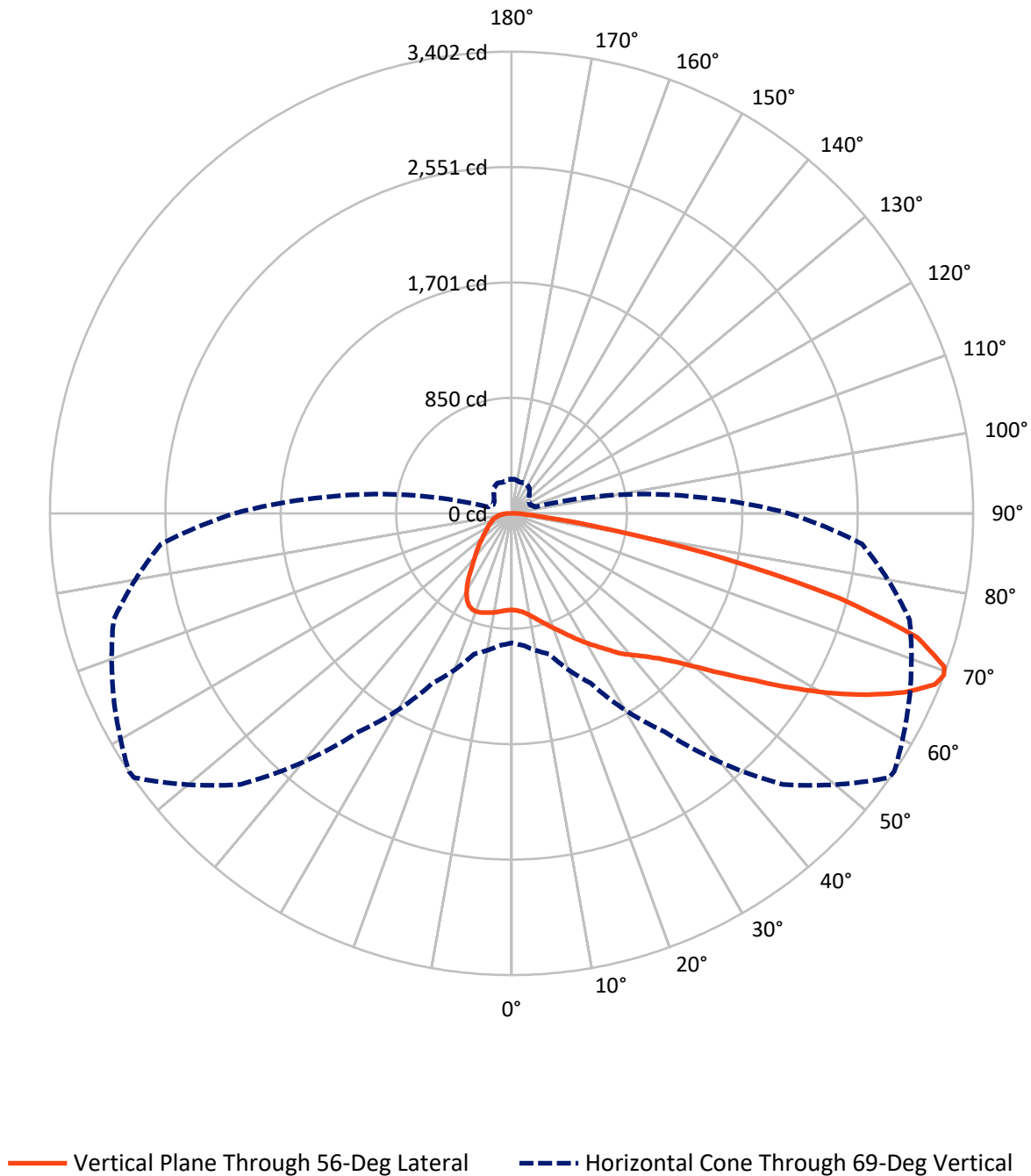
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.2 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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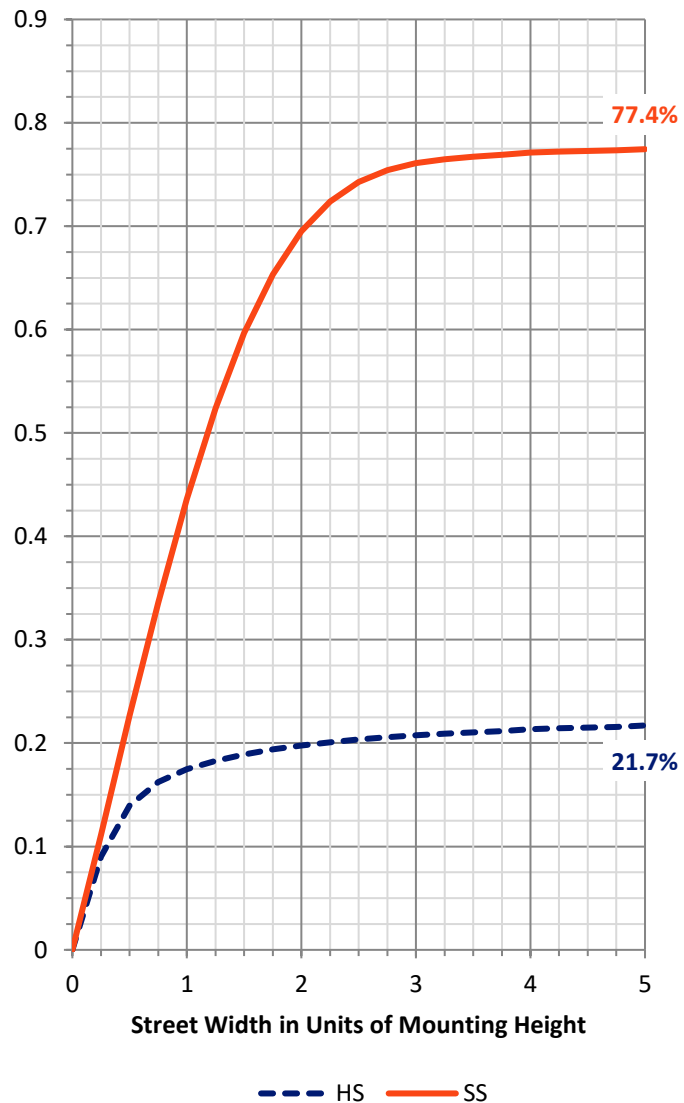
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1212.8	0.0	1212.8
	% Fixture	22.3	0.0	22.3
Street Side	Lumens	4233.2	0.0	4233.2
	% Fixture	77.7	0.0	77.7
Total	Lumens	5446.0	0.0	5446.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	69.9	1.3
10°-20°	224.9	4.1
20°-30°	392.5	7.2
30°-40°	563.8	10.4
40°-50°	780.3	14.3
50°-60°	1143.3	21.0
60°-70°	1393.9	25.6
70°-80°	770.6	14.2
80°-90°	106.7	2.0
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°	5446.0	100.0
0°-180°	5446.0	100.0

Coefficient of Utilization



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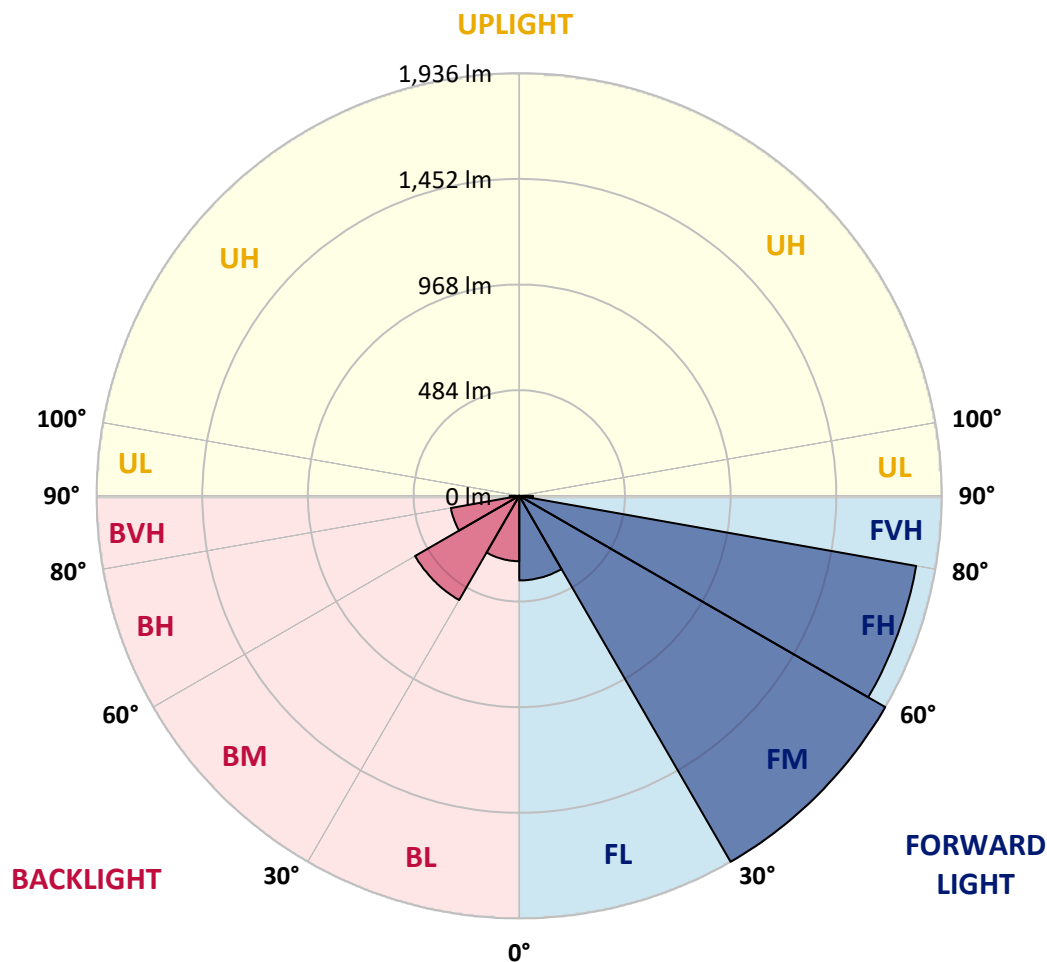
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	387.6	7.1			
FM	(30°-60°)	1936.3	35.6			
FH	(60°-80°)	1846.5	33.9			G2/5000
FVH	(80°-90°)	62.9	1.2			G1/100
BL	(0°-30°)	299.7	5.5	B1/500		
BM	(30°-60°)	551.2	10.1	B1/1000		
BH	(60°-80°)	318.0	5.8	B1/500		G1/500
BVH	(80°-90°)	43.9	0.8			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	712.0	712.0	712.0	712.0	712.0	712.0	712.0	712.0	712.0	712.0	712.0
2.5°	716.5	717.2	716.7	718.2	716.5	717.6	716.7	716.7	716.1	714.4	712.5
5°	727.7	729.2	728.3	729.8	727.7	728.1	726.4	726.4	724.7	721.2	717.4
7.5°	745.4	747.1	746.3	747.8	745.0	745.0	742.8	742.6	739.2	733.4	729.1
10°	766.4	768.6	767.9	770.1	767.9	768.6	766.4	766.4	761.9	753.6	748.2
12.5°	797.0	799.8	797.7	797.5	796.6	798.1	796.2	795.8	791.7	780.5	773.0
15°	837.9	840.9	836.6	836.2	830.9	830.4	830.4	829.8	827.2	813.7	801.3
17.5°	885.0	885.9	882.1	876.1	869.4	865.1	864.5	866.0	866.0	850.3	830.6
20°	931.1	932.8	929.8	923.0	914.4	908.0	903.5	906.5	906.3	887.6	859.6
22.5°	981.4	985.3	980.8	972.2	962.1	954.9	947.1	949.7	949.9	926.8	888.1
25°	1046.5	1042.9	1040.1	1027.9	1013.5	1006.2	998.8	1001.5	1000.7	969.0	917.6
27.5°	1104.1	1104.8	1101.1	1088.1	1071.4	1055.3	1054.9	1056.6	1053.8	1012.9	945.4
30°	1171.1	1171.4	1166.2	1154.6	1136.4	1115.5	1110.7	1113.5	1107.5	1054.6	974.6
32.5°	1237.7	1239.5	1233.7	1219.7	1205.0	1179.7	1169.9	1171.8	1156.8	1097.1	1004.8
35°	1296.0	1298.6	1296.8	1287.4	1271.4	1249.7	1238.0	1236.9	1218.3	1149.3	1044.8
37.5°	1355.5	1357.9	1355.9	1348.0	1341.6	1318.5	1312.3	1312.3	1280.1	1202.6	1095.6
40°	1416.6	1420.4	1418.0	1407.1	1401.6	1391.1	1376.3	1372.7	1337.9	1266.6	1178.6
42.5°	1473.5	1478.4	1488.1	1481.7	1470.7	1472.2	1442.4	1440.5	1415.0	1361.1	1282.7
45°	1554.2	1561.3	1577.8	1572.9	1570.7	1562.4	1527.0	1525.3	1515.5	1488.3	1412.0
47.5°	1642.2	1651.9	1681.7	1682.7	1706.9	1691.3	1643.1	1637.3	1639.5	1640.7	1569.7
50°	1723.2	1733.9	1782.9	1805.9	1863.0	1866.4	1789.2	1784.0	1792.8	1818.7	1753.6
52.5°	1787.9	1801.4	1862.6	1933.9	2031.6	2059.4	1969.2	1965.2	1971.8	2016.4	1961.5
55°	1835.4	1850.0	1916.6	2046.5	2202.5	2251.5	2176.3	2172.5	2176.7	2233.5	2187.5
57.5°	1846.5	1850.0	1946.6	2122.3	2346.8	2464.5	2429.7	2422.2	2402.0	2451.5	2437.1
60°	1794.5	1808.8	1921.9	2148.9	2458.5	2674.4	2694.7	2685.3	2628.4	2668.9	2657.3
62.5°	1689.1	1714.6	1829.4	2108.4	2502.2	2845.9	2954.5	2943.2	2845.3	2871.6	2815.7
65°	1516.8	1527.7	1648.3	1968.6	2446.6	2955.6	3186.2	3180.6	3057.3	3016.2	2844.9
67.5°	1208.8	1229.2	1331.7	1676.5	2219.4	2942.7	3365.4	3364.8	3195.8	3069.9	2741.2
69°	954.9	976.1	1073.7	1381.0	1963.9	2824.3	3395.4	3401.9	3234.8	3037.2	2593.0
70°	761.3	785.9	852.9	1163.2	1737.1	2668.2	3370.4	3382.2	3227.3	2983.4	2456.2
72.5°	324.0	343.9	391.5	599.6	1058.7	1992.4	3081.7	3126.3	3053.4	2730.5	2029.9
75°	141.5	147.6	169.2	244.5	470.0	1084.4	2414.2	2496.7	2610.8	2308.0	1512.1
77.5°	103.6	106.2	118.0	143.5	210.9	409.6	1552.5	1600.5	1882.9	1679.5	927.5
80°	80.1	82.0	91.2	105.4	137.7	165.7	708.0	749.3	1058.7	862.6	386.3
82.5°	63.8	65.1	71.5	77.7	95.1	100.4	235.1	260.8	390.8	238.3	102.2
85°	59.3	60.8	63.0	56.7	61.0	58.9	101.7	106.4	118.0	93.6	42.8
87.5°	26.8	31.7	62.5	44.1	32.5	25.9	41.6	43.5	49.0	49.2	18.9
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°	712.0	712.0	712.0	712.0	712.0	712.0	712.0	712.0	712.0	712.0	712.0
2.5°	713.7	713.1	714.0	711.8	714.6	714.4	713.5	713.9	715.7	715.5	715.7
5°	718.0	717.6	718.7	717.0	720.4	721.6	721.7	723.4	725.5	726.1	726.1
7.5°	728.9	728.9	729.4	727.2	729.4	729.2	728.3	730.0	732.1	732.2	732.1
10°	747.6	747.8	746.9	741.1	739.2	734.1	729.4	729.6	732.2	734.3	734.9
12.5°	771.3	770.5	766.4	755.7	747.8	737.5	732.6	732.4	735.1	736.7	737.3
15°	798.3	796.2	785.5	768.1	754.2	744.1	736.2	734.3	732.8	730.9	731.1
17.5°	823.8	819.1	801.3	777.1	762.4	748.9	733.7	721.6	713.1	708.2	706.7
20°	849.7	840.5	814.8	785.5	767.0	742.4	713.1	688.3	673.0	665.8	664.5
22.5°	873.3	858.5	827.4	794.3	763.4	720.2	674.3	638.3	616.9	607.3	608.0
25°	896.4	875.8	840.5	800.5	745.4	681.2	620.2	576.0	551.2	540.5	540.1
27.5°	916.7	893.2	854.8	795.5	711.8	625.7	556.3	513.1	492.5	483.3	481.8
30°	939.9	915.2	873.7	776.1	662.6	561.5	493.8	463.4	448.8	439.6	437.9
32.5°	968.3	945.0	889.3	741.1	599.8	494.5	445.0	423.8	410.5	400.2	398.3
35°	1009.5	984.4	893.2	690.8	530.8	441.6	409.2	387.4	369.4	356.1	354.8
37.5°	1061.3	1033.7	884.2	625.7	463.8	407.3	379.3	352.5	329.1	310.3	307.3
40°	1136.0	1094.3	859.3	550.6	414.4	380.8	350.3	319.7	290.6	268.7	264.3
42.5°	1225.7	1165.4	821.0	476.0	378.2	354.0	321.4	283.5	255.7	240.1	237.9
45°	1339.7	1239.4	767.9	410.7	342.6	327.2	290.2	255.3	238.1	226.6	224.8
47.5°	1469.9	1322.3	712.2	357.6	312.4	302.1	265.3	242.8	229.1	220.1	218.4
50°	1630.0	1415.9	653.1	314.1	282.0	271.8	253.5	235.8	224.9	218.0	216.3
52.5°	1810.4	1521.5	610.5	279.7	256.8	249.5	247.3	232.1	223.3	218.0	216.3
55°	2004.8	1629.0	564.5	250.8	235.1	237.1	243.1	232.4	226.4	220.1	217.6
57.5°	2199.4	1740.1	513.3	226.4	217.8	227.9	240.3	233.2	228.1	221.9	219.7
60°	2353.2	1810.4	433.9	206.0	204.1	217.8	233.6	227.6	221.0	221.2	220.8
62.5°	2425.1	1806.7	346.3	187.8	190.4	204.1	222.7	218.8	213.3	220.6	221.2
65°	2384.7	1716.6	269.6	171.3	175.8	189.9	211.4	214.4	216.3	230.4	232.3
67.5°	2215.5	1541.4	208.8	156.8	162.5	180.1	212.6	233.6	236.0	250.8	250.6
69°	2040.5	1377.1	181.4	149.3	155.9	182.5	227.2	245.8	236.6	252.3	250.1
70°	1893.7	1247.0	166.8	144.3	152.9	186.9	237.0	245.6	233.8	247.3	243.5
72.5°	1458.5	897.2	141.5	134.9	142.8	178.8	239.8	240.1	227.2	229.8	223.4
75°	1000.3	567.0	123.4	122.1	127.4	161.2	230.8	229.4	210.1	206.4	201.1
77.5°	551.6	288.0	104.9	109.9	113.5	142.8	209.7	207.9	191.9	184.0	182.2
80°	212.8	126.1	88.6	97.7	100.0	123.6	183.9	182.2	168.8	158.7	155.9
82.5°	80.3	66.0	73.2	84.6	83.9	102.1	155.7	154.8	141.8	127.0	122.5
85°	37.1	39.6	58.0	69.8	64.4	75.6	124.6	126.3	110.5	92.9	92.9
87.5°	15.8	22.1	41.1	52.7	43.3	51.0	91.4	87.2	80.1	55.5	52.2
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)