

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: P319275

Luminaire Tested: **GAN-SA1B-727-U-SL2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319275
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-20)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA1B-727-U-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 2700K, 800mA LIGHTSQUARE WITH 16 LEDS AND TYPE II SPILL LIGHT
ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4902 lumens
Efficiency: N/A
Efficacy: 111.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

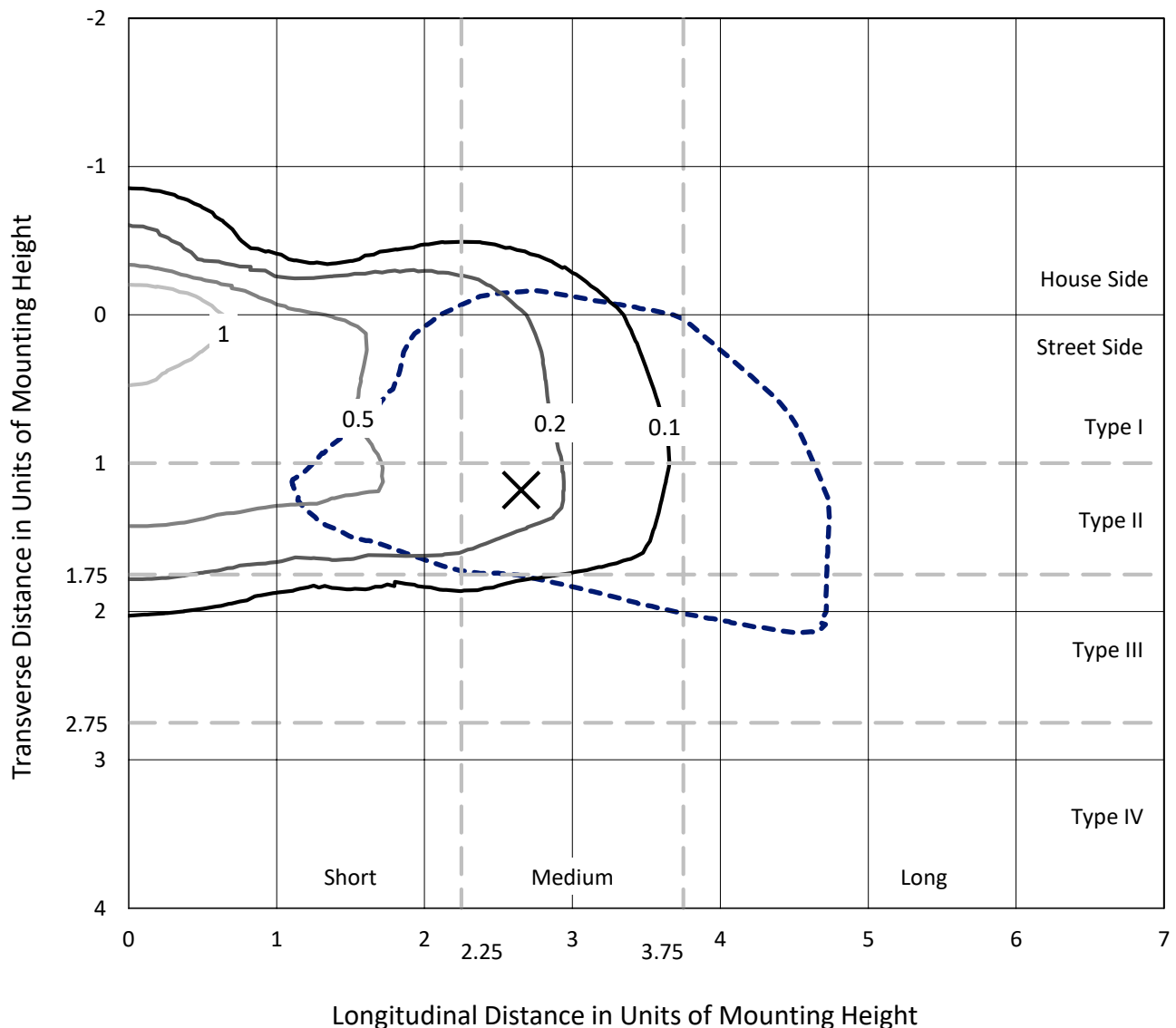
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

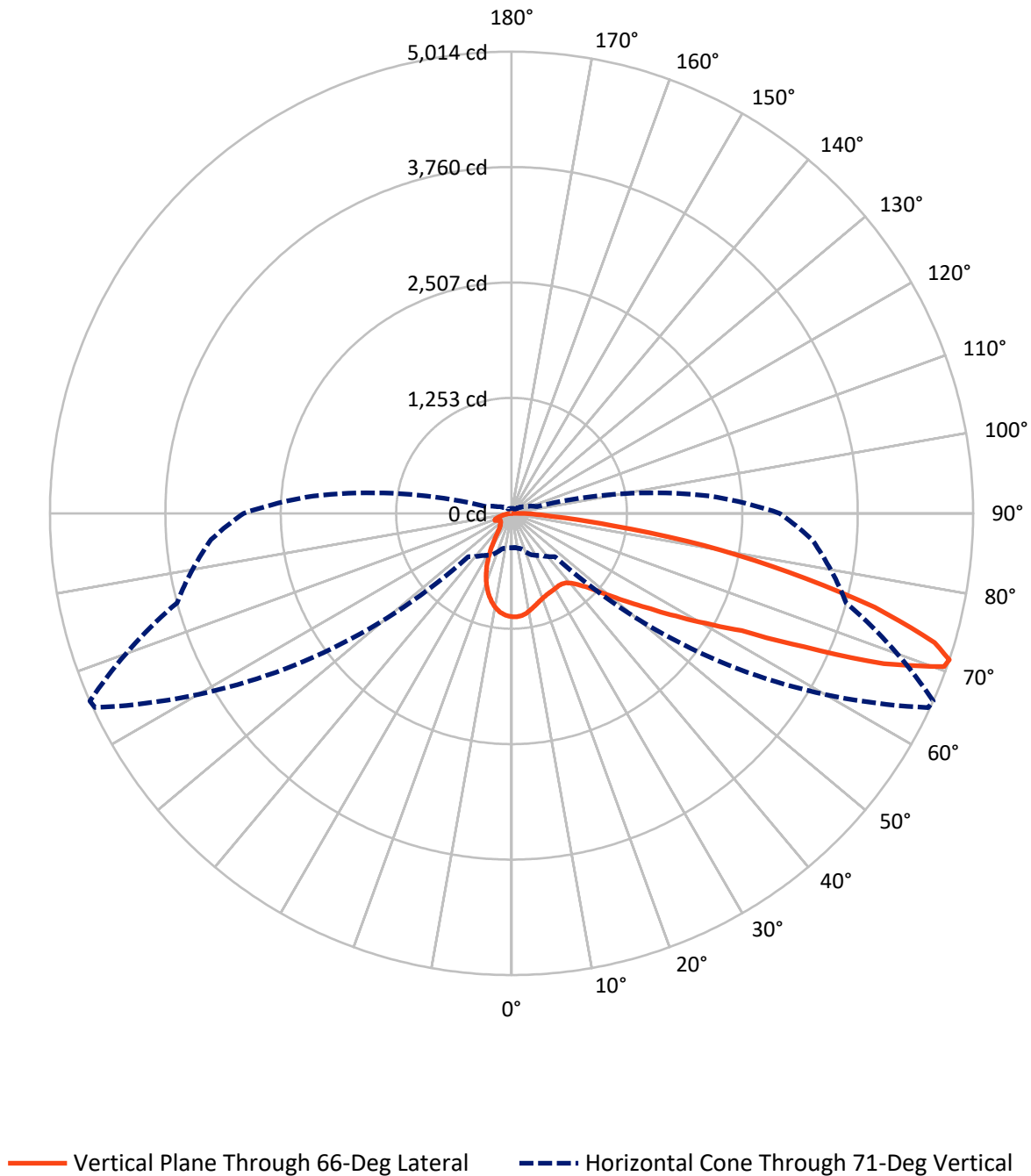
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.8 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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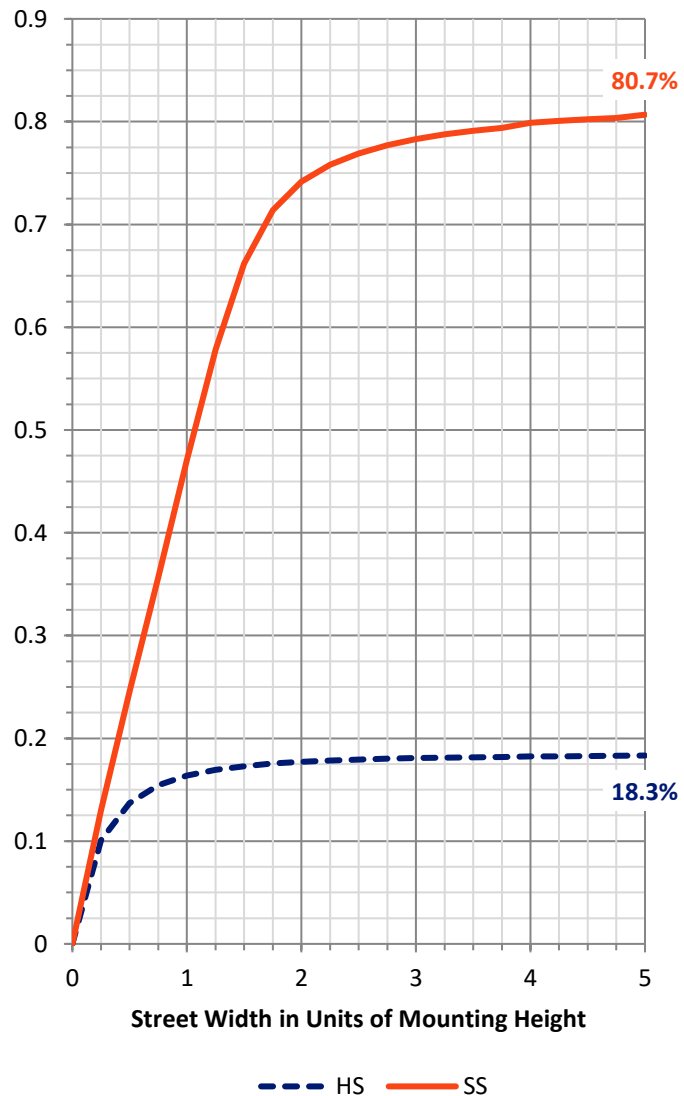
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	908.5	0.0	908.5
	% Fixture	18.5	0.0	18.5
Street Side	Lumens	3993.5	0.0	3993.5
	% Fixture	81.5	0.0	81.5
Total	Lumens	4902.0	0.0	4902.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	98.8	2.0
10°-20°	237.1	4.8
20°-30°	318.5	6.5
30°-40°	418.9	8.5
40°-50°	609.4	12.4
50°-60°	952.0	19.4
60°-70°	1192.5	24.3
70°-80°	909.6	18.6
80°-90°	165.2	3.4
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°	4902.0	100.0
0°-180°	4902.0	100.0

Coefficient of Utilization



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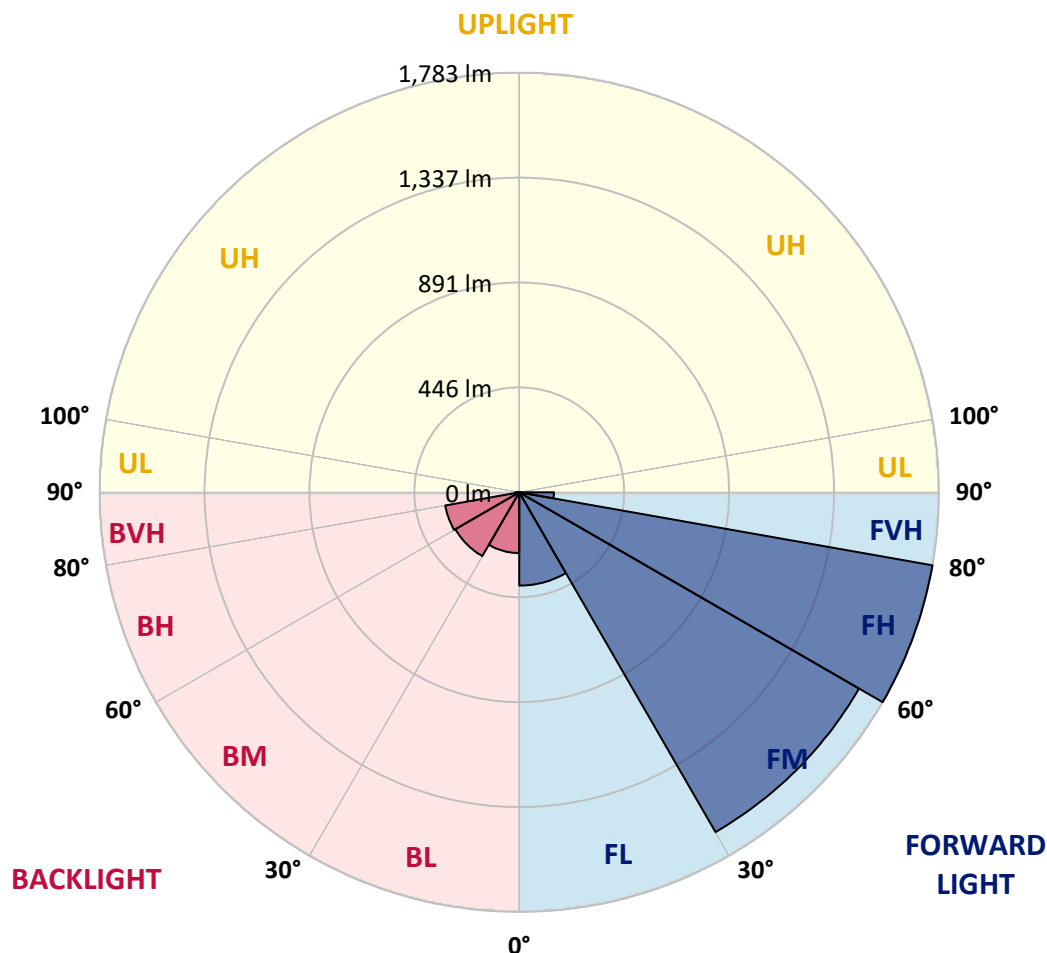
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	396.4	8.1			
FM	(30°-60°)	1666.9	34.0			
FH	(60°-80°)	1782.9	36.4			G1/1800
FVH	(80°-90°)	147.3	3.0			G2/225
BL	(0°-30°)	258.0	5.3	B1/500		
BM	(30°-60°)	313.4	6.4	B1/1000		
BH	(60°-80°)	319.2	6.5	B1/500		G1/500
BVH	(80°-90°)	17.9	0.4			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 Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	1123.0	1123.0	1123.0	1123.0	1123.0	1123.0	1123.0	1123.0	1123.0	1123.0	1123.0
2.5°	1102.1	1100.4	1105.5	1110.8	1112.8	1116.2	1121.3	1124.1	1124.0	1124.5	1122.8
5°	1029.0	1026.8	1037.0	1045.3	1061.2	1079.1	1101.0	1116.5	1116.9	1125.7	1128.0
7.5°	959.8	958.3	970.0	983.3	1001.8	1029.2	1064.6	1098.1	1100.1	1124.0	1132.3
10°	904.3	903.9	915.3	929.8	951.3	982.0	1022.6	1071.7	1074.7	1115.8	1132.9
12.5°	861.0	861.6	871.5	888.0	910.7	942.7	986.7	1042.1	1047.0	1103.0	1129.0
15°	829.0	831.7	839.6	856.4	878.7	911.2	956.4	1014.6	1022.1	1088.6	1126.8
17.5°	810.7	813.7	819.3	833.2	854.2	885.5	928.3	992.1	998.9	1077.6	1127.0
20°	805.3	807.8	811.0	819.5	837.3	865.7	906.1	971.8	979.1	1068.8	1128.7
22.5°	815.9	817.8	818.1	817.5	828.3	851.5	890.1	956.9	964.7	1063.0	1129.9
25°	838.8	841.3	839.5	833.2	829.6	843.9	881.8	947.1	954.9	1058.8	1127.5
27.5°	873.1	873.5	872.0	863.8	847.1	844.7	879.2	941.4	948.8	1053.9	1122.6
30°	919.9	922.1	919.3	908.3	880.9	858.3	882.3	935.8	942.5	1047.6	1114.7
32.5°	974.5	979.9	979.8	968.3	929.0	888.5	894.8	932.4	937.6	1041.0	1105.0
35°	1031.2	1038.7	1052.5	1047.6	999.1	936.4	918.8	937.8	941.4	1040.2	1098.2
37.5°	1090.1	1097.6	1126.2	1139.4	1082.5	1005.0	956.8	956.9	958.6	1050.5	1097.7
40°	1151.7	1159.7	1202.7	1237.0	1190.7	1091.8	1017.9	996.9	995.0	1075.9	1107.7
42.5°	1238.0	1245.1	1296.8	1340.6	1310.6	1203.0	1102.3	1058.5	1054.6	1125.7	1139.7
45°	1347.2	1353.3	1408.1	1455.0	1439.6	1329.9	1208.4	1143.3	1142.6	1208.6	1204.5
47.5°	1477.0	1481.8	1531.0	1576.4	1582.0	1476.0	1341.8	1274.1	1263.1	1322.3	1304.9
50°	1612.2	1617.5	1651.0	1699.7	1741.2	1671.5	1513.4	1434.4	1419.6	1472.4	1447.1
52.5°	1701.8	1708.7	1737.8	1799.6	1920.3	1885.7	1716.3	1628.7	1606.3	1654.4	1634.9
55°	1661.8	1677.4	1721.9	1820.9	2063.5	2213.1	1966.6	1855.3	1830.1	1870.0	1858.5
57.5°	1480.2	1501.6	1562.3	1715.1	2083.6	2501.5	2345.1	2122.2	2104.4	2092.9	2098.2
60°	1148.3	1168.8	1244.1	1443.3	1943.3	2712.0	2914.6	2451.2	2425.5	2316.7	2321.4
62.5°	812.7	802.4	854.0	999.7	1579.1	2736.7	3562.6	2891.2	2806.6	2552.9	2532.1
65°	619.8	617.4	640.6	687.0	956.4	2441.0	3948.7	3630.9	3498.7	2830.8	2781.7
67.5°	509.3	505.0	527.9	595.4	615.9	1574.8	3957.2	4488.9	4359.1	3176.8	3070.5
70°	418.7	414.0	435.3	522.5	569.2	798.7	3330.4	4991.4	4984.5	3614.8	3288.5
71°	375.4	372.0	397.6	494.4	559.2	665.6	2875.5	4992.8	5013.6	3763.0	3275.6
72.5°	305.7	306.8	333.9	440.0	551.7	587.8	2113.4	4760.1	4804.1	3904.4	3158.7
75°	203.1	204.1	239.7	338.5	535.0	575.1	1161.5	3994.2	4075.1	3819.7	2882.3
77.5°	136.4	136.1	160.3	232.2	466.1	575.1	681.0	2987.4	3076.2	3039.3	2222.0
80°	93.9	93.3	110.3	160.3	352.9	582.0	526.5	2093.6	2120.5	1641.4	903.1
82.5°	57.5	58.1	72.1	113.2	240.2	523.8	497.1	1141.6	1112.3	460.4	225.6
85°	33.0	32.8	46.0	76.7	154.2	442.1	484.7	491.3	450.7	138.6	81.6
87.5°	11.8	12.7	24.7	42.5	88.3	307.9	411.3	255.6	230.3	62.6	36.9
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°	1123.0	1123.0	1123.0	1123.0	1123.0	1123.0	1123.0	1123.0	1123.0	1123.0	1123.0
2.5°	1121.6	1122.6	1121.4	1114.7	1108.9	1099.6	1094.4	1087.1	1084.9	1083.9	1086.6
5°	1125.8	1126.2	1116.2	1098.4	1078.4	1054.9	1038.0	1017.2	1007.4	1003.1	1005.8
7.5°	1129.7	1128.2	1106.4	1072.3	1035.5	994.5	958.1	924.8	905.3	897.3	898.0
10°	1130.2	1123.8	1088.8	1036.1	978.9	918.8	863.0	811.5	779.0	757.9	764.3
12.5°	1125.0	1114.2	1062.9	989.2	909.9	828.0	752.5	675.3	628.9	607.4	608.1
15°	1120.9	1101.3	1031.1	934.1	827.4	719.0	615.9	525.2	475.8	453.8	443.4
17.5°	1117.5	1087.4	994.2	872.0	730.1	592.5	468.6	387.7	360.7	354.2	351.5
20°	1112.8	1072.7	953.0	800.0	619.3	451.0	342.2	302.3	302.4	309.9	310.9
22.5°	1106.2	1055.9	909.2	719.3	500.3	328.5	268.3	256.7	268.4	282.6	285.2
25°	1096.4	1036.1	860.5	630.1	381.5	252.5	229.2	228.7	242.9	257.8	260.0
27.5°	1082.5	1010.2	806.3	534.3	281.1	214.6	205.3	208.9	219.3	230.2	231.0
30°	1063.9	980.1	746.5	433.3	220.4	191.1	190.1	193.3	199.7	207.3	208.0
32.5°	1043.4	949.5	682.7	335.4	188.7	178.4	179.4	180.9	184.0	187.0	187.7
35°	1024.8	918.2	617.4	254.9	173.6	170.1	169.4	169.1	169.4	168.4	168.6
37.5°	1012.8	892.3	549.4	202.9	165.0	162.8	160.8	158.2	155.4	153.7	154.0
40°	1008.4	873.0	480.5	175.3	157.9	156.4	152.5	147.1	143.7	142.7	142.7
42.5°	1020.2	863.0	414.0	161.5	152.0	149.4	143.0	136.8	134.2	134.0	133.9
45°	1056.4	867.1	350.7	153.8	146.6	141.7	133.2	128.0	126.3	126.6	126.4
47.5°	1121.4	892.6	296.5	148.8	141.2	134.7	125.2	121.0	119.0	119.0	119.1
50°	1231.9	952.4	253.4	144.5	136.6	128.3	119.5	114.2	111.5	111.4	111.4
52.5°	1392.9	1059.3	226.5	141.0	131.5	122.5	113.7	107.1	103.9	103.2	102.9
55°	1594.6	1212.7	219.0	138.6	124.7	116.3	106.8	100.2	96.6	95.1	94.9
57.5°	1820.3	1399.2	233.7	135.7	117.8	108.8	99.2	92.9	89.2	87.3	87.2
60°	2048.6	1602.8	293.8	131.7	112.0	100.7	91.4	85.6	81.9	79.9	79.5
62.5°	2277.2	1817.4	416.5	131.3	108.0	92.9	83.4	78.5	75.0	72.8	72.3
65°	2535.1	2052.3	556.0	140.3	106.6	85.8	75.3	71.4	68.4	66.3	66.2
67.5°	2831.3	2317.5	542.6	158.8	111.2	79.4	67.7	64.7	62.5	60.8	60.6
70°	2970.3	2276.0	337.3	171.8	117.6	73.1	60.4	58.2	56.5	55.3	54.8
71°	2912.1	2161.1	282.8	170.3	116.9	70.4	57.5	55.9	54.2	53.1	52.6
72.5°	2753.3	1970.9	235.9	158.4	109.3	65.5	53.8	52.1	50.6	49.4	49.1
75°	2470.7	1760.2	188.9	126.6	87.2	55.3	47.2	45.4	44.2	43.5	42.8
77.5°	1816.2	1256.2	146.1	100.0	64.1	45.2	40.3	38.9	37.7	36.7	36.2
80°	695.8	486.6	98.3	74.6	47.1	35.7	32.5	31.8	30.6	30.0	30.0
82.5°	187.4	145.4	52.5	45.2	31.5	26.1	24.9	24.5	23.5	22.2	22.3
85°	75.8	64.1	29.4	24.9	19.3	15.4	16.8	16.9	15.7	14.0	14.2
87.5°	33.3	27.2	16.4	11.0	8.5	5.9	7.6	7.6	6.9	5.8	5.2
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)