

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: P318946

Luminaire Tested: **GAN-SA2A-727-U-T4W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318946
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-18)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA2A-727-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7917 lumens
Efficiency: N/A
Efficacy: 120.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G2

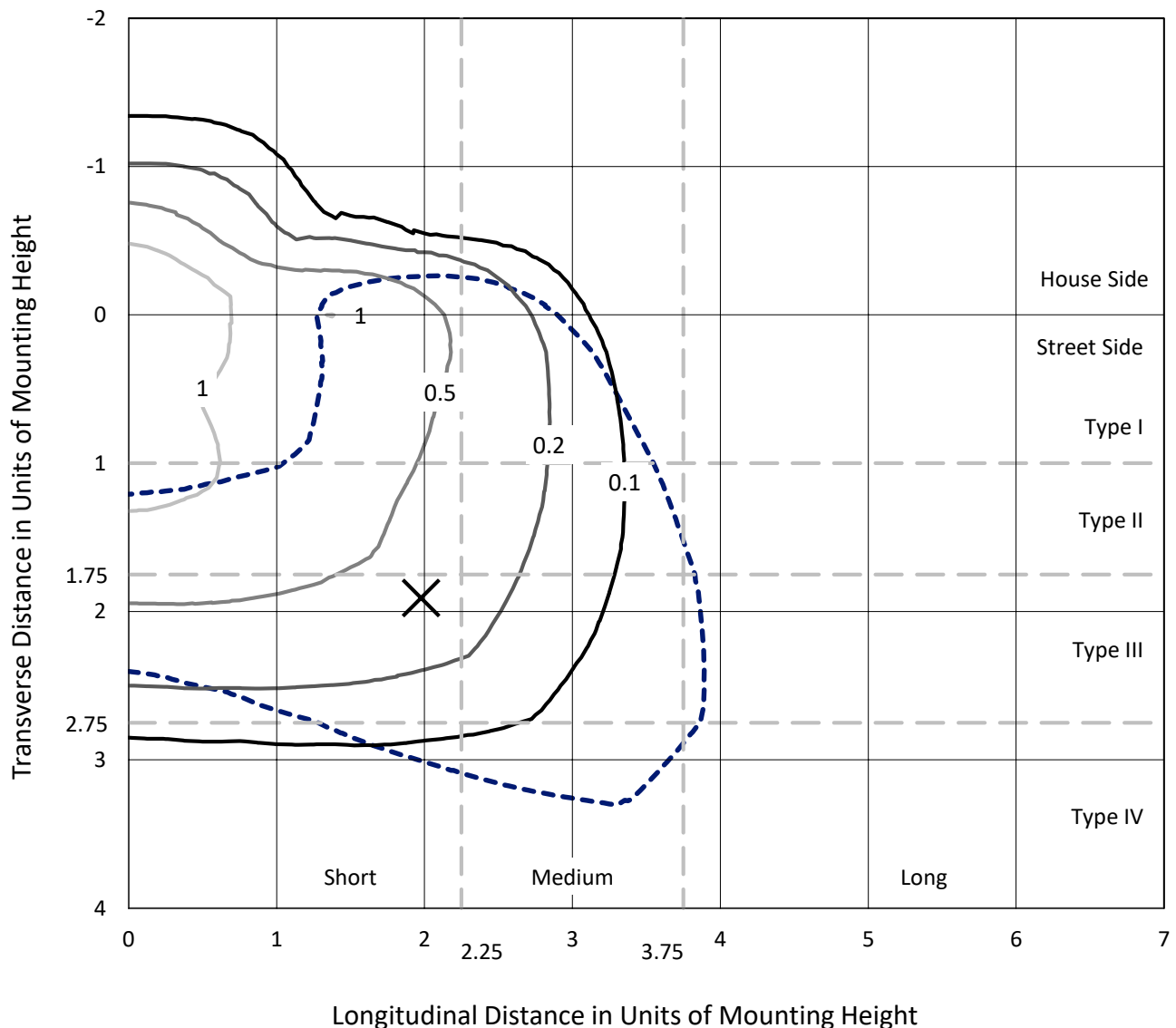
Input Watts (W): 66
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

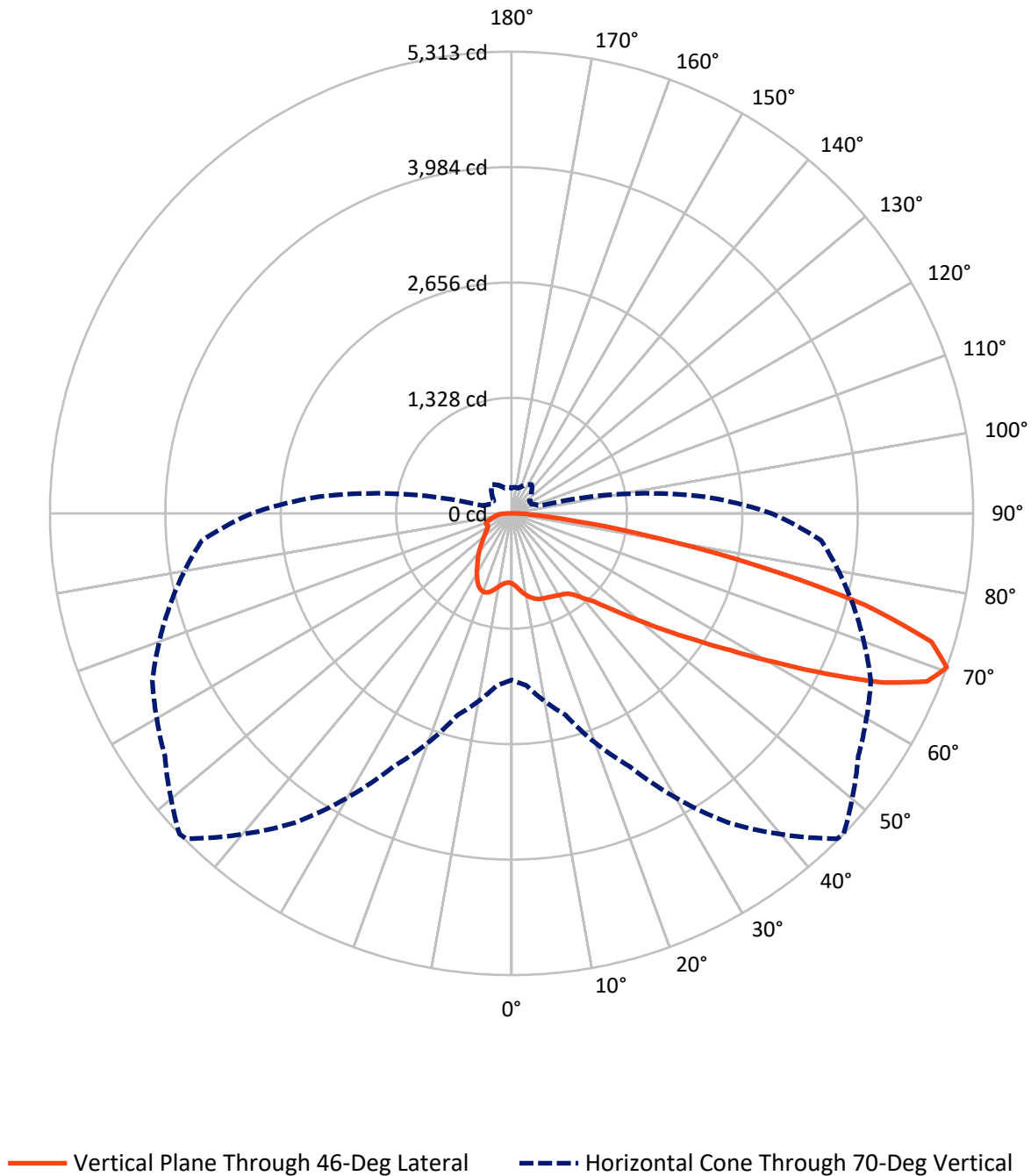
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.6 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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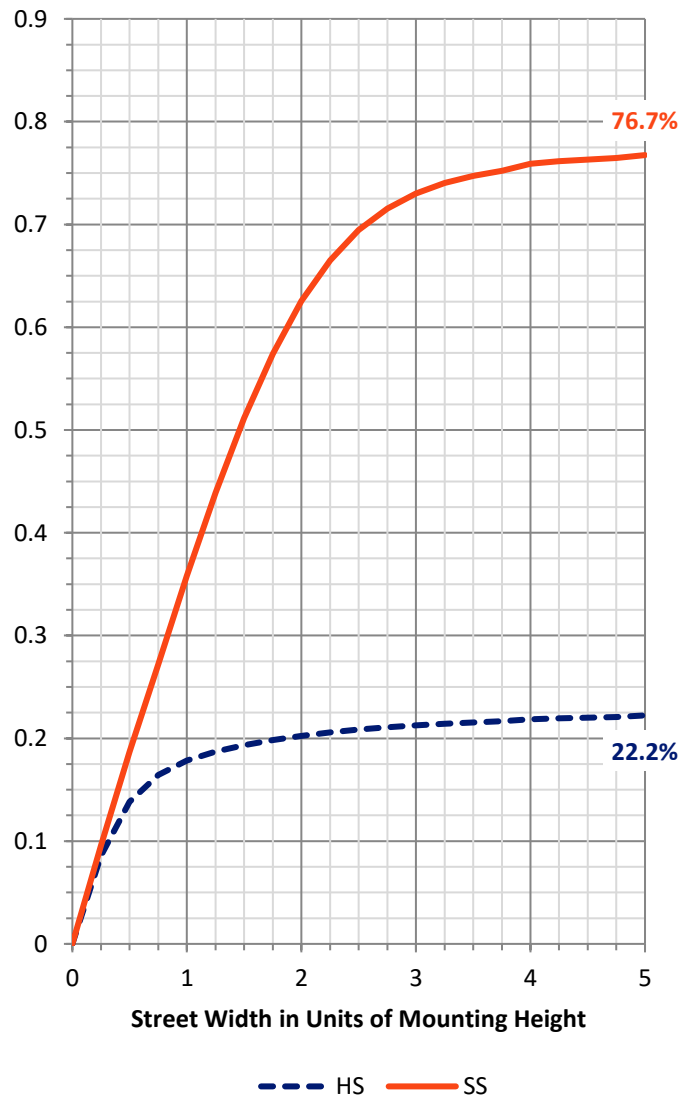
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1814.6	0.0	1814.6
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	6102.5	0.0	6102.5
	% Fixture	77.1	0.0	77.1
Total	Lumens	7917.0	0.0	7917.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	82.2	1.0
10°-20°	274.0	3.5
20°-30°	456.8	5.8
30°-40°	648.2	8.2
40°-50°	953.5	12.0
50°-60°	1614.7	20.4
60°-70°	2292.0	29.0
70°-80°	1392.4	17.6
80°-90°	203.2	2.6
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°	7917.0	100.0
0°-180°	7917.0	100.0

Coefficient of Utilization



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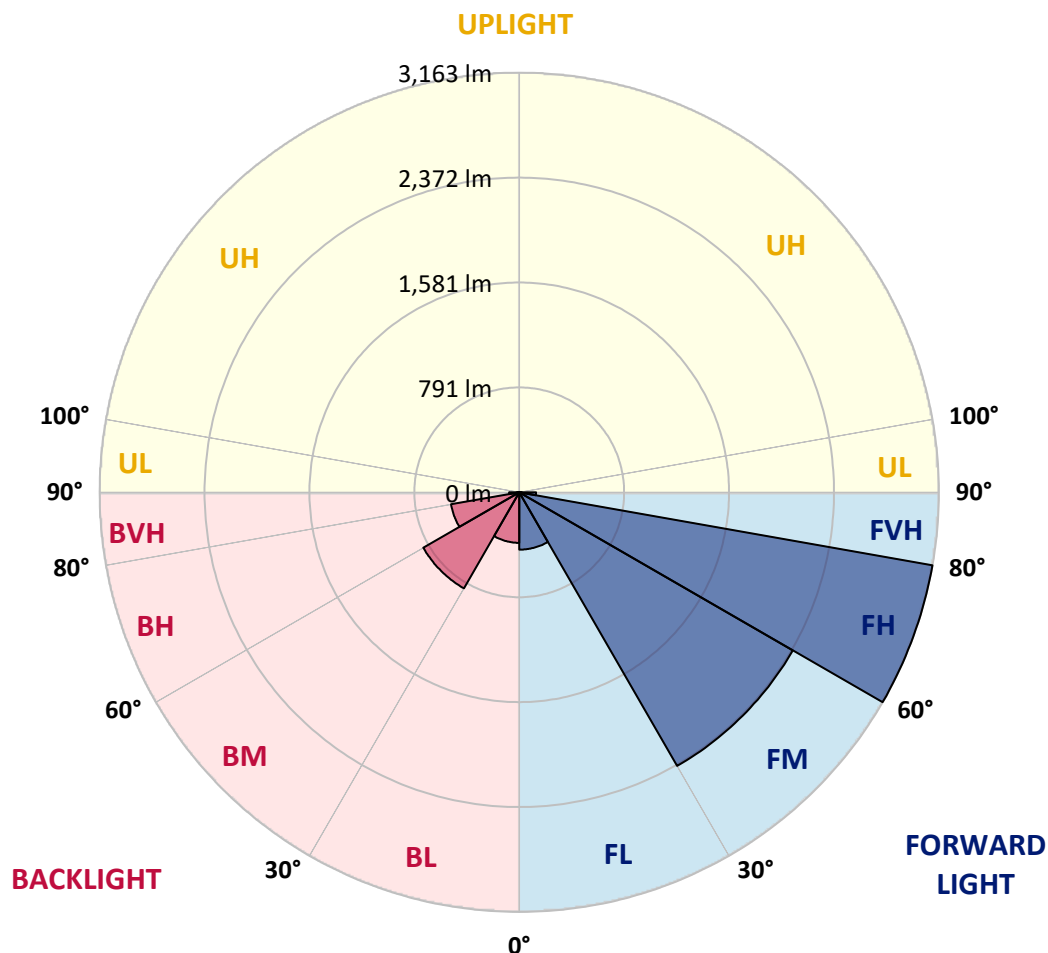
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	432.0	5.5			
FM	(30°-60°)	2381.1	30.1			
FH	(60°-80°)	3162.8	39.9			G2/5000
FVH	(80°-90°)	126.6	1.6			G2/225
BL	(0°-30°)	381.0	4.8	B1/500		
BM	(30°-60°)	835.3	10.6	B1/1000		
BH	(60°-80°)	521.7	6.6	B2/1000		G2/1000
BVH	(80°-90°)	76.6	1.0			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	806.6	806.6	806.6	806.6	806.6	806.6	806.6	806.6	806.6	806.6	806.6
2.5°	847.0	847.5	848.6	845.9	838.3	836.1	835.3	827.4	822.3	814.7	808.2
5°	914.7	915.2	913.6	906.0	889.2	876.8	875.7	857.8	841.5	824.2	811.2
7.5°	985.4	986.2	981.1	966.7	943.1	921.5	920.1	895.7	871.1	844.8	825.3
10°	1048.0	1044.7	1036.3	1016.3	988.4	961.8	960.8	935.3	906.8	875.1	849.1
12.5°	1089.7	1087.0	1076.2	1051.8	1021.2	996.8	994.6	971.0	943.4	908.7	877.6
15°	1112.7	1114.6	1100.0	1072.4	1042.6	1022.0	1020.1	1003.3	978.6	943.7	907.9
17.5°	1115.7	1117.4	1103.3	1075.9	1051.5	1037.4	1036.6	1025.5	1007.6	974.0	936.6
20°	1098.4	1099.5	1087.8	1065.3	1049.3	1045.0	1044.7	1039.9	1026.6	996.8	960.5
22.5°	1073.2	1074.0	1065.6	1049.3	1043.9	1050.7	1052.6	1050.7	1041.2	1013.3	979.2
25°	1067.0	1066.4	1057.7	1041.2	1045.8	1060.2	1062.6	1063.4	1056.9	1032.6	1003.0
27.5°	1097.0	1095.1	1078.6	1052.1	1055.0	1072.4	1075.6	1083.5	1079.4	1058.0	1030.1
30°	1184.0	1180.8	1146.9	1093.2	1078.6	1087.6	1091.6	1104.1	1104.9	1087.0	1066.1
32.5°	1330.9	1326.8	1266.1	1170.2	1118.4	1103.0	1106.8	1125.5	1135.5	1121.7	1099.2
35°	1516.4	1511.8	1432.2	1301.1	1185.1	1132.5	1135.2	1150.1	1170.2	1150.7	1120.9
37.5°	1709.9	1698.8	1622.1	1454.9	1291.0	1195.7	1195.7	1197.6	1207.0	1166.4	1146.3
40°	1902.3	1891.2	1821.8	1635.9	1428.1	1295.1	1288.9	1246.9	1239.3	1204.3	1197.6
42.5°	2081.1	2077.8	2036.9	1840.5	1589.1	1392.9	1384.2	1313.0	1314.6	1292.9	1293.2
45°	2271.3	2271.3	2238.0	2046.9	1776.6	1550.0	1541.4	1436.5	1452.8	1442.8	1466.9
47.5°	2426.5	2431.4	2426.8	2262.1	1994.7	1749.7	1734.0	1607.8	1653.3	1687.7	1757.9
50°	2585.0	2592.6	2593.4	2498.1	2258.3	1987.1	1969.2	1835.1	1936.7	2035.3	2173.2
52.5°	2815.1	2832.1	2764.1	2733.5	2581.2	2268.8	2251.2	2127.4	2297.0	2435.5	2673.1
55°	3028.3	3013.4	2964.9	2983.9	2927.0	2589.6	2576.4	2467.7	2698.6	2878.5	3187.1
57.5°	3143.7	3142.6	3191.4	3272.7	3299.8	2985.2	2974.1	2868.4	3151.3	3286.5	3669.6
60°	3279.2	3281.1	3401.9	3586.4	3698.1	3477.8	3472.9	3392.7	3591.0	3667.4	4048.1
62.5°	3298.1	3332.3	3540.4	3857.9	4070.9	4053.3	4064.1	3865.0	3984.4	3971.4	4330.7
65°	3080.0	3125.0	3501.6	3940.0	4441.5	4682.6	4692.7	4339.9	4294.7	4231.3	4431.8
67.5°	2633.0	2699.6	3108.8	3761.5	4563.7	5147.9	5161.9	4708.1	4552.1	4319.3	4188.5
70°	1916.1	1990.1	2401.9	3212.5	4345.9	5296.6	5312.6	4871.0	4561.8	4068.7	3575.6
72.5°	1157.5	1215.4	1554.9	2365.0	3668.0	5025.7	5054.1	4664.5	4164.9	3446.4	2640.3
75°	508.3	546.2	751.9	1362.8	2625.9	4158.1	4193.6	3992.6	3384.0	2504.6	1560.6
77.5°	216.5	227.3	308.3	592.0	1484.5	2841.3	2890.1	2917.2	2295.9	1362.8	659.5
80°	134.9	139.3	174.5	268.0	694.7	1595.8	1648.4	1716.4	1140.1	501.0	230.3
82.5°	82.1	87.0	116.0	162.0	361.7	723.4	748.6	796.6	442.4	216.5	119.2
85°	49.3	52.8	71.0	102.4	205.9	284.5	284.2	314.3	208.4	139.3	62.9
87.5°	23.6	26.3	37.9	53.1	103.8	106.8	100.0	113.3	126.5	91.3	31.7
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°	806.6	806.6	806.6	806.6	806.6	806.6	806.6	806.6	806.6	806.6	806.6
2.5°	806.0	805.0	801.4	798.7	798.2	796.6	795.2	796.0	797.1	797.4	797.4
5°	805.8	802.8	798.2	796.3	798.7	802.0	806.0	811.5	814.7	817.2	818.8
7.5°	818.8	813.1	807.9	806.9	811.7	820.4	829.6	841.0	848.9	854.3	855.4
10°	840.5	833.4	828.3	829.3	838.0	850.5	863.5	878.1	890.0	897.4	897.9
12.5°	865.4	858.6	853.7	858.3	872.7	887.9	901.4	914.2	925.0	932.3	932.3
15°	894.1	889.2	883.5	894.1	913.6	927.2	932.8	939.1	945.0	950.5	949.4
17.5°	921.7	917.1	914.2	926.6	946.9	953.2	949.4	944.8	944.8	947.7	948.3
20°	945.6	941.5	943.4	955.6	966.2	959.7	945.6	930.9	925.0	926.6	928.2
22.5°	966.4	964.5	970.2	975.9	968.3	945.6	919.6	899.8	892.5	891.9	892.5
25°	990.8	990.6	997.6	987.3	953.7	911.7	876.8	857.5	853.5	856.7	862.1
27.5°	1021.2	1024.2	1027.7	990.0	923.9	860.5	825.0	811.7	815.8	823.7	828.8
30°	1059.9	1068.0	1060.5	983.2	881.1	802.0	768.1	764.3	775.4	786.5	792.0
32.5°	1097.6	1110.3	1091.9	965.6	825.8	739.9	713.7	712.6	726.1	737.0	744.5
35°	1127.9	1153.1	1115.5	930.7	761.9	682.8	663.5	656.2	661.1	673.8	682.5
37.5°	1167.5	1209.5	1131.7	877.3	692.5	635.6	613.1	596.3	592.0	597.2	601.5
40°	1239.8	1295.4	1139.3	802.8	624.8	588.5	565.7	541.1	524.0	511.5	511.8
42.5°	1357.9	1407.3	1134.4	712.3	562.2	542.4	516.7	488.2	460.6	432.4	430.3
45°	1549.8	1573.6	1119.8	616.4	507.2	494.2	470.1	441.6	404.8	372.8	369.8
47.5°	1856.7	1803.9	1097.0	532.7	458.7	453.3	431.1	398.3	359.3	333.5	331.4
50°	2275.4	2136.4	1085.9	466.0	415.9	417.5	399.4	364.7	327.8	308.9	306.7
52.5°	2776.0	2523.5	1107.3	414.5	381.5	387.2	373.6	341.1	310.2	295.3	293.2
55°	3295.4	2924.5	1130.4	377.1	349.0	360.1	355.5	328.6	300.7	286.9	285.0
57.5°	3740.1	3223.9	1084.3	346.8	320.0	337.3	341.4	320.8	295.9	283.4	281.2
60°	4019.9	3344.5	963.5	318.4	296.9	319.2	333.3	318.6	297.8	296.7	295.1
62.5°	4152.7	3333.9	782.2	295.9	282.6	311.3	339.2	330.8	319.4	329.2	330.0
65°	4093.1	3174.6	582.5	281.0	272.3	314.3	357.1	353.8	325.7	335.4	336.8
67.5°	3700.8	2794.5	431.3	268.0	260.9	322.7	389.6	361.4	313.5	320.5	316.2
70°	2991.2	2215.5	332.7	253.3	249.3	321.6	404.2	356.8	300.2	301.8	290.2
72.5°	2062.7	1510.8	270.7	239.8	232.5	293.2	393.9	345.4	289.1	276.6	261.2
75°	1121.7	810.9	230.0	225.7	202.9	257.4	375.0	337.3	279.1	262.5	253.9
77.5°	441.4	336.5	199.7	206.5	177.5	227.3	353.8	321.9	265.2	243.6	239.2
80°	180.2	171.8	165.5	178.5	152.5	198.9	328.4	303.7	248.7	226.0	217.3
82.5°	102.1	106.8	128.7	140.9	123.8	183.2	316.2	289.1	228.9	202.4	192.1
85°	52.3	62.6	89.7	101.1	91.0	155.8	291.3	253.1	183.7	155.0	155.8
87.5°	25.2	35.0	56.6	63.4	59.1	112.7	217.6	183.4	143.1	113.3	109.7
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)