

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: P317915

Luminaire Tested: **GAN-SA1B-830-U-T3R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P317915
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-10)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA1B-830-U-T3R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 3000K, 800mA LIGHTSQUARE WITH 16 LEDS AND TYPE III ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4861 lumens
Efficiency: N/A
Efficacy: 110.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B1 - U0 - G1

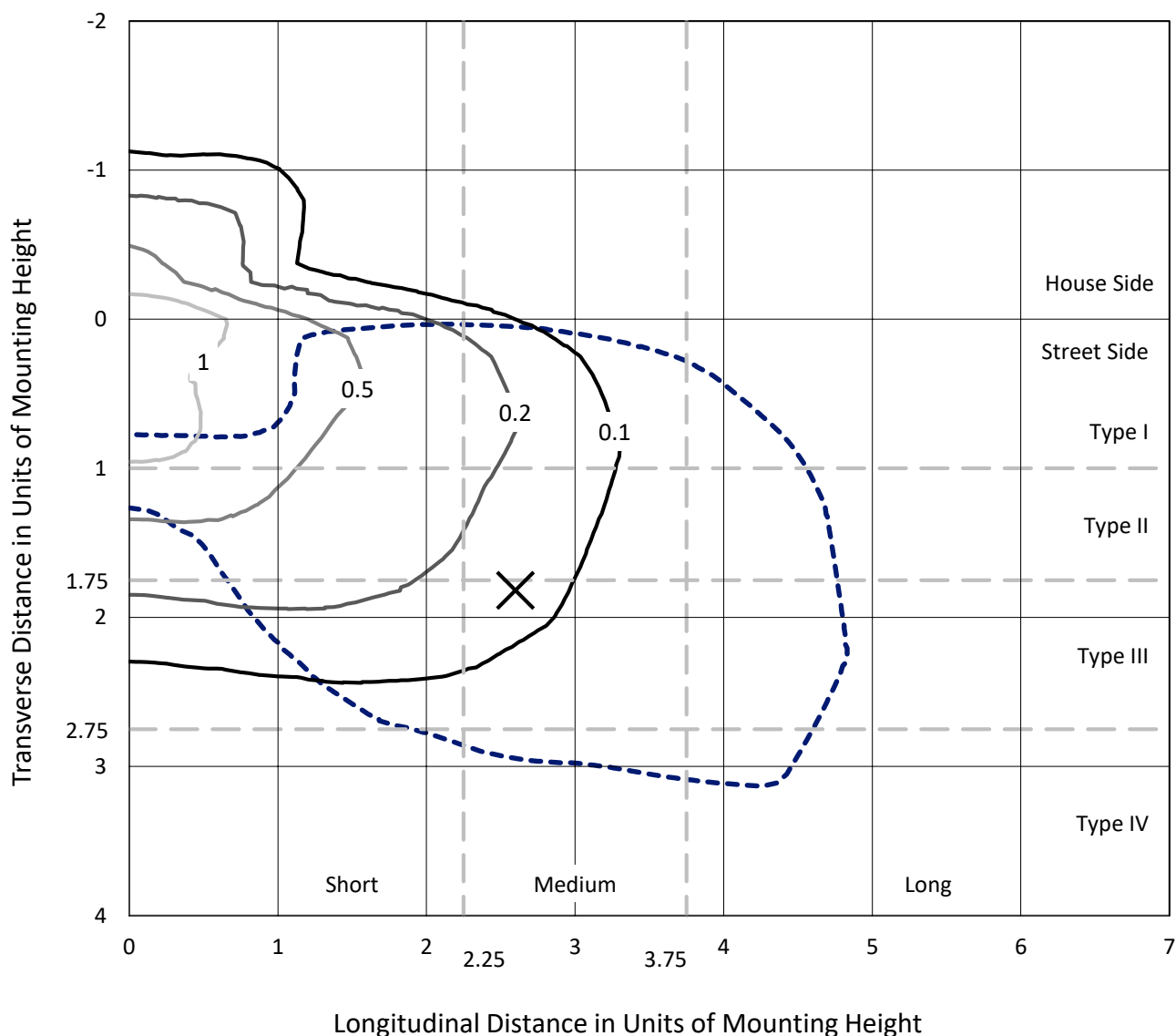
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

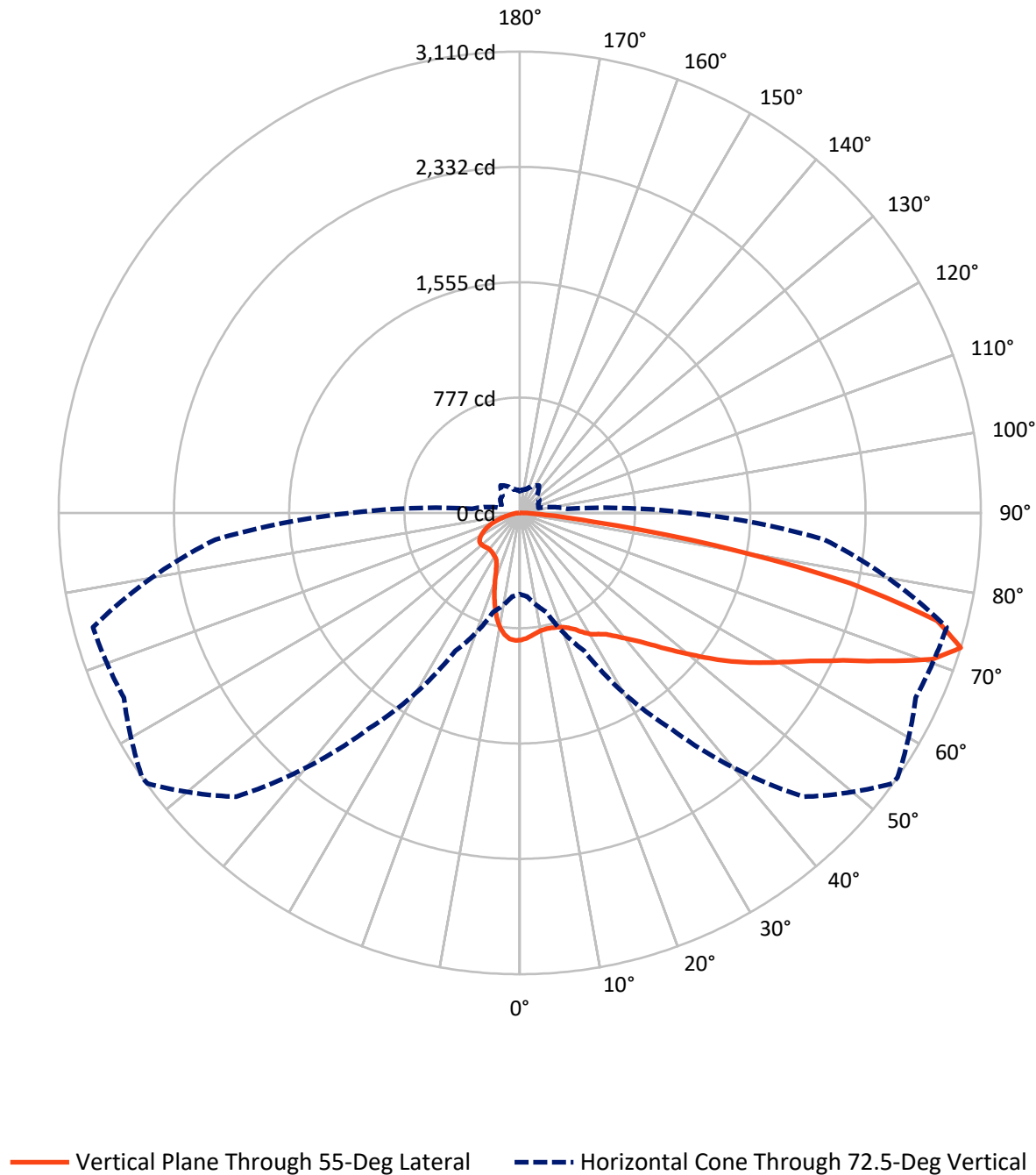
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.4 fc
Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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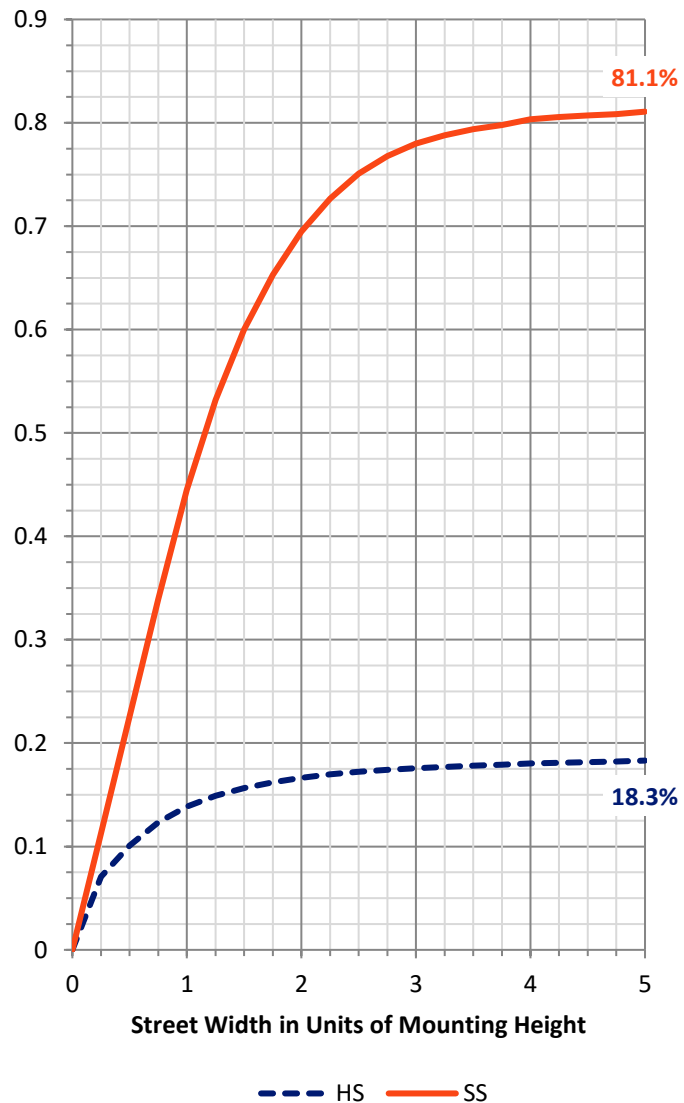
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	903.5	0.0	903.5
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	3957.5	0.0	3957.5
	% Fixture	81.4	0.0	81.4
Total	Lumens	4861.0	0.0	4861.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	77.6	1.6
10°-20°	206.6	4.2
20°-30°	340.6	7.0
30°-40°	503.8	10.4
40°-50°	703.2	14.5
50°-60°	915.5	18.8
60°-70°	1125.1	23.1
70°-80°	882.0	18.1
80°-90°	106.7	2.2
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°	4861.0	100.0
0°-180°	4861.0	100.0

Coefficient of Utilization



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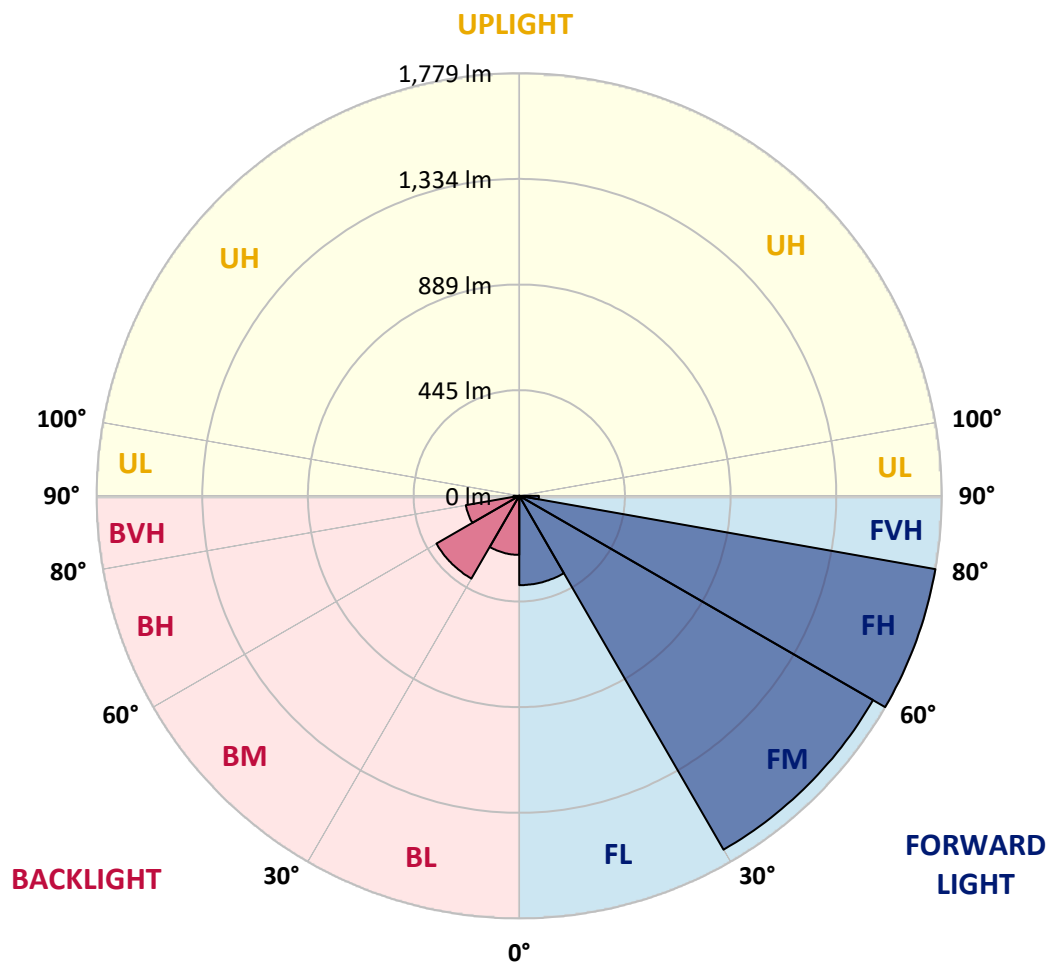
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	376.1	7.7			
FM	(30°-60°)	1719.9	35.4			
FH	(60°-80°)	1779.0	36.6			G1/1800
FVH	(80°-90°)	82.5	1.7			G1/100
BL	(0°-30°)	248.6	5.1	B1/500		
BM	(30°-60°)	402.5	8.3	B1/1000		
BH	(60°-80°)	228.2	4.7	B1/500		G1/500
BVH	(80°-90°)	24.2	0.5			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	857.4	857.4	857.4	857.4	857.4	857.4	857.4	857.4	857.4	857.4	857.4
2.5°	829.5	827.5	830.0	833.4	837.2	842.3	845.2	846.5	851.6	853.6	857.9
5°	791.0	790.1	794.2	800.1	808.4	820.3	829.8	831.6	845.1	854.6	863.3
7.5°	763.1	763.1	767.9	775.0	784.3	800.2	813.7	816.2	839.0	859.5	875.6
10°	741.0	741.8	747.4	755.7	766.7	783.7	801.6	804.3	837.3	871.0	896.6
12.5°	726.2	728.2	733.3	740.8	754.4	775.0	797.6	801.4	840.8	887.4	921.9
15°	735.6	738.8	739.3	742.4	750.0	772.3	799.9	803.9	848.2	904.2	950.6
17.5°	776.6	777.7	772.7	766.1	762.5	776.8	806.8	810.9	857.0	920.8	978.2
20°	839.0	838.3	827.3	809.6	791.2	793.5	818.1	822.4	869.0	935.4	1005.8
22.5°	917.8	915.5	898.6	865.9	834.6	821.4	838.0	841.6	887.1	956.2	1035.4
25°	1013.4	1008.3	985.9	942.1	896.0	862.1	867.9	871.3	913.4	979.5	1062.4
27.5°	1114.2	1109.1	1080.7	1027.6	966.2	913.5	909.1	912.0	943.2	996.8	1082.5
30°	1219.6	1214.2	1188.2	1128.8	1040.8	966.7	947.5	948.7	964.3	1006.1	1098.9
32.5°	1325.5	1320.4	1291.3	1222.4	1121.7	1023.9	975.3	973.8	976.9	1015.8	1117.4
35°	1432.8	1434.8	1400.8	1324.5	1211.4	1087.4	1008.1	1005.0	998.1	1035.7	1143.7
37.5°	1547.8	1546.5	1502.5	1422.7	1305.1	1156.4	1055.2	1054.7	1030.9	1073.3	1184.9
40°	1624.6	1625.4	1598.7	1523.1	1399.8	1232.7	1115.6	1114.5	1083.3	1129.6	1238.9
42.5°	1654.7	1660.1	1667.0	1619.0	1499.0	1321.2	1187.7	1186.1	1156.4	1210.4	1302.5
45°	1656.8	1667.6	1710.3	1704.2	1599.5	1422.5	1279.8	1275.2	1253.9	1317.8	1378.3
47.5°	1638.4	1649.6	1720.5	1755.0	1689.3	1529.4	1387.5	1383.9	1365.5	1452.1	1460.4
50°	1598.2	1608.9	1699.5	1779.8	1763.2	1632.2	1511.7	1502.1	1492.3	1607.2	1554.3
52.5°	1522.8	1543.3	1671.4	1785.7	1807.4	1723.5	1642.2	1635.9	1641.4	1770.9	1648.4
55°	1344.3	1367.3	1599.0	1780.8	1840.0	1800.1	1772.7	1772.4	1800.5	1942.6	1749.4
57.5°	1244.4	1260.6	1451.6	1772.4	1878.8	1876.3	1901.9	1905.0	1959.7	2129.6	1855.1
60°	1187.9	1205.0	1376.9	1741.3	1938.9	1974.8	2033.8	2040.0	2121.6	2336.7	1982.4
62.5°	1136.5	1155.2	1330.6	1678.1	2009.6	2115.7	2191.7	2197.3	2293.0	2549.5	2105.3
65°	1048.7	1069.8	1262.7	1636.6	2074.0	2299.4	2392.5	2396.3	2489.9	2772.4	2199.4
67.5°	924.5	943.9	1134.8	1544.8	2121.6	2522.5	2659.5	2661.6	2685.1	2929.9	2247.5
70°	779.6	786.9	952.6	1355.3	2065.3	2731.2	2952.1	2952.5	2863.1	3030.7	2239.7
72.5°	547.7	565.1	691.5	1026.0	1774.8	2705.8	3103.9	3109.5	2945.8	2979.8	2060.7
75°	335.9	354.3	433.8	621.8	1126.0	2128.0	2867.8	2906.6	2790.7	2656.8	1683.4
77.5°	224.6	231.5	283.1	362.5	510.1	1224.3	2204.8	2277.7	2318.3	1937.6	1076.6
80°	125.3	138.4	187.7	225.3	226.9	486.5	1322.0	1339.1	1289.8	771.5	332.1
82.5°	66.3	73.6	125.3	132.3	123.8	162.9	492.7	493.2	412.1	206.9	98.7
85°	51.4	57.5	85.9	80.8	63.2	72.2	162.5	171.4	140.2	84.7	32.2
87.5°	25.6	31.9	58.3	51.2	24.8	20.7	58.1	62.1	55.3	33.2	11.7
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°	857.4	857.4	857.4	857.4	857.4	857.4	857.4	857.4	857.4	857.4	857.4
2.5°	859.5	861.0	862.8	860.8	860.2	857.5	853.1	852.1	849.8	850.0	851.3
5°	867.1	869.5	868.5	861.0	852.0	839.3	826.2	815.0	807.6	807.1	806.6
7.5°	881.5	883.2	875.4	853.9	828.6	799.4	771.8	747.7	733.1	729.5	728.7
10°	904.2	903.8	882.7	839.3	788.9	736.7	692.4	658.9	639.3	633.6	632.1
12.5°	929.5	925.7	885.1	812.7	732.8	660.4	604.2	566.9	546.6	540.0	538.4
15°	955.6	946.2	879.0	773.0	663.8	578.1	519.2	484.7	473.7	470.1	469.4
17.5°	979.9	961.8	861.6	719.1	585.2	496.2	450.2	436.4	439.0	443.8	444.0
20°	1003.7	972.3	833.7	651.2	502.2	428.7	413.1	423.3	435.7	445.4	446.7
22.5°	1027.1	979.7	797.8	572.7	428.0	390.8	401.8	420.3	434.6	445.1	446.9
25°	1046.8	981.5	748.2	488.9	376.5	376.5	396.3	413.9	428.0	438.4	440.2
27.5°	1054.1	969.4	678.2	411.4	350.5	369.9	388.8	403.4	415.4	426.4	428.4
30°	1056.9	946.9	597.5	349.2	339.9	362.8	378.6	391.1	402.4	412.8	414.6
32.5°	1057.4	919.8	511.8	313.9	332.5	355.5	366.0	377.0	389.1	393.2	393.9
35°	1060.5	887.8	421.5	295.9	325.6	348.6	356.9	364.8	345.1	346.6	347.9
37.5°	1069.5	856.1	345.9	285.7	321.1	345.0	355.0	326.4	311.0	307.4	306.9
40°	1086.4	822.2	290.0	277.5	319.5	346.8	342.3	304.7	278.1	258.3	255.3
42.5°	1109.9	785.8	254.2	272.1	320.7	355.5	324.8	283.9	239.7	226.9	225.3
45°	1136.3	747.5	234.8	268.3	324.6	362.2	321.1	256.1	221.8	212.1	211.3
47.5°	1161.9	700.7	224.8	266.6	330.0	356.8	305.9	247.6	213.3	208.2	208.7
50°	1191.3	658.5	218.7	264.8	334.8	353.3	288.6	243.2	210.0	216.2	222.8
52.5°	1216.1	614.9	213.3	261.2	336.6	347.3	284.2	244.0	210.0	222.0	228.2
55°	1245.5	581.9	207.0	253.7	333.1	330.0	281.1	248.9	212.5	204.9	205.6
57.5°	1283.4	571.0	200.1	241.8	321.6	304.9	279.6	253.7	211.0	206.2	207.9
60°	1336.0	582.5	197.4	226.4	303.7	285.2	279.8	251.2	200.6	192.4	192.6
62.5°	1386.1	595.3	197.2	216.7	281.7	267.6	276.0	243.2	195.4	190.6	192.4
65°	1402.5	582.4	189.3	205.9	257.0	246.6	269.1	234.6	191.4	184.2	183.9
67.5°	1380.5	542.1	173.4	188.3	228.5	222.1	260.1	224.4	185.2	179.3	178.3
70°	1315.1	452.3	153.7	165.2	196.2	194.6	245.8	212.6	176.8	171.7	167.5
72.5°	1139.3	322.3	129.5	137.4	159.8	165.0	226.1	197.2	165.0	154.0	147.4
75°	935.7	238.6	106.4	108.0	121.3	135.6	199.0	179.1	151.1	132.3	127.2
77.5°	573.0	146.0	84.7	85.4	87.0	108.2	163.9	158.9	133.3	110.3	106.7
80°	185.5	79.6	61.2	64.4	59.4	79.3	126.8	135.3	114.4	92.3	88.3
82.5°	70.6	46.5	41.4	43.5	41.2	53.2	92.4	108.4	93.7	75.9	61.7
85°	34.2	26.3	24.5	27.4	25.4	27.3	59.1	79.8	71.1	49.4	46.0
87.5°	12.1	11.7	9.4	12.6	10.8	9.7	18.1	40.2	47.0	34.0	30.4
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)