

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: P319825

Luminaire Tested: **GAN-SA1A-830-U-SL3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319825
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-22)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA1A-830-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 3000K, 615mA LIGHTSQUARE WITH 16 LEDS AND TYPE III SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3877 lumens
Efficiency: N/A
Efficacy: 114.0 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

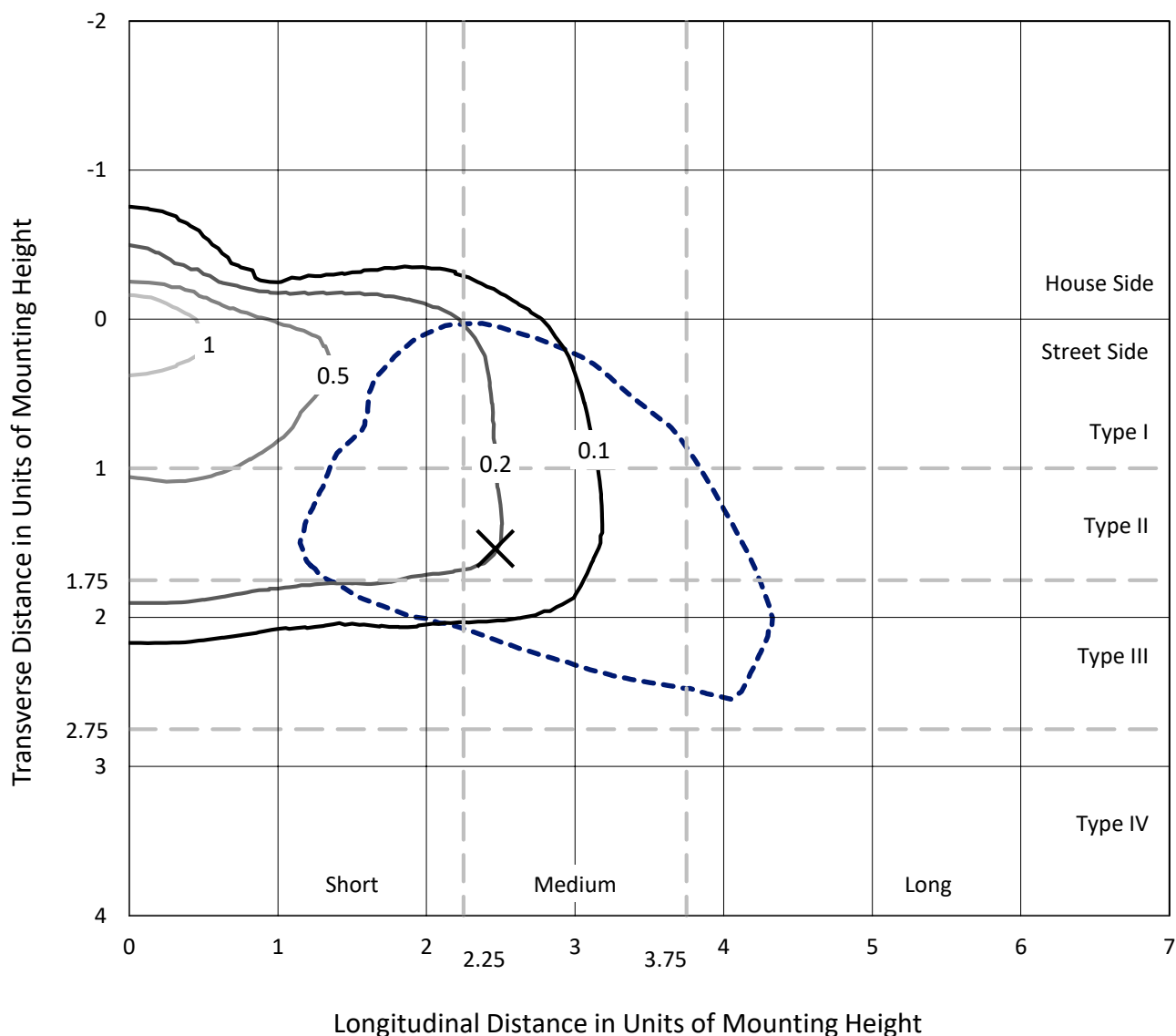
Input Watts (W): 34
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

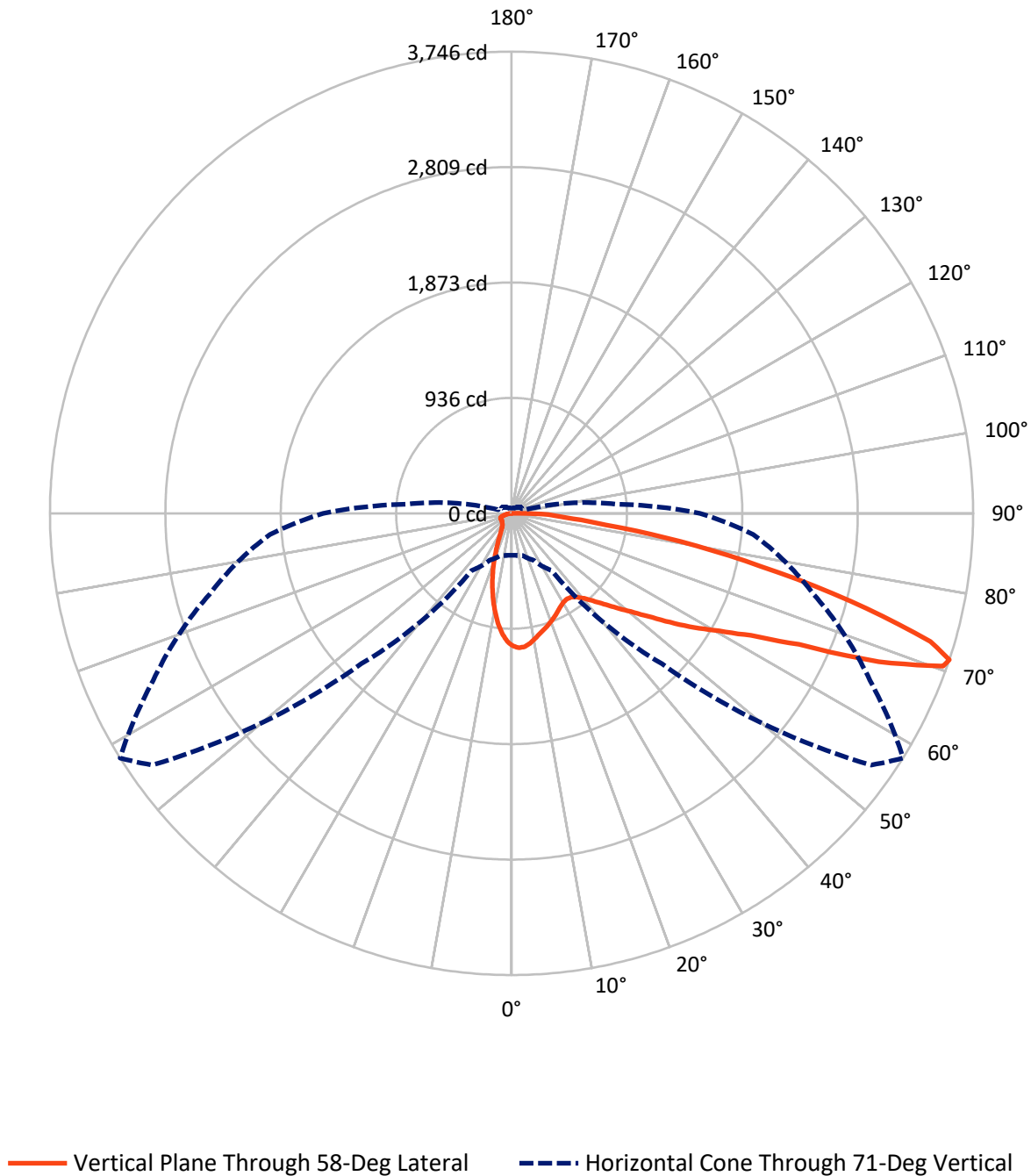
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.7 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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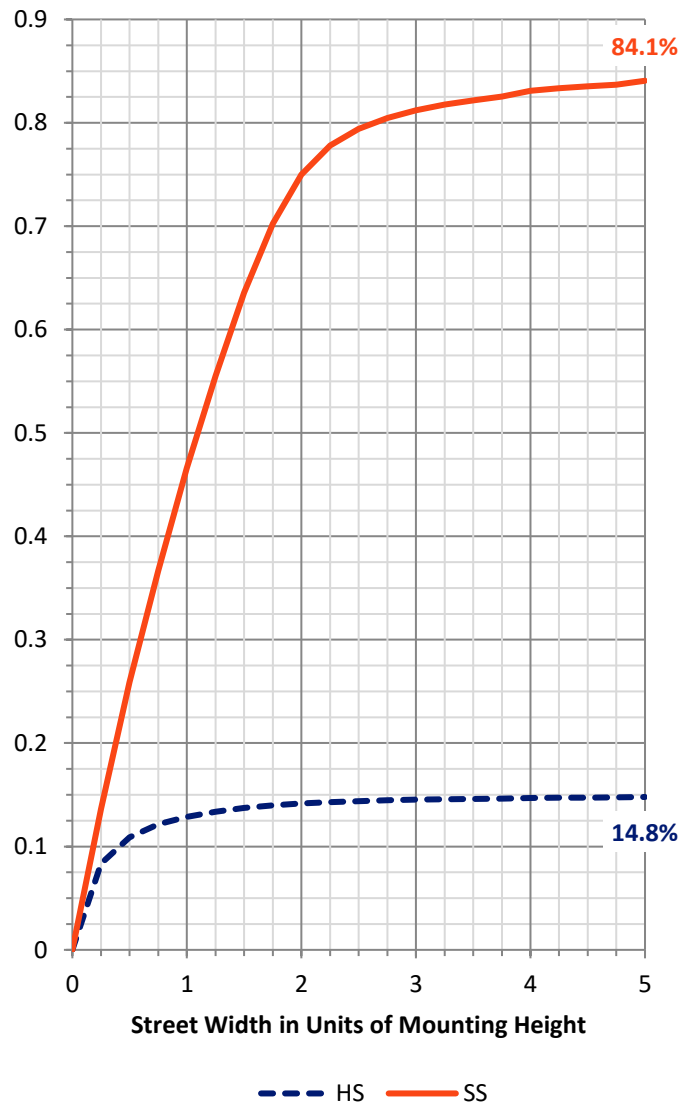
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	579.6	0.0	579.6
	% Fixture	15.0	0.0	15.0
Street Side	Lumens	3297.4	0.0	3297.4
	% Fixture	85.0	0.0	85.0
Total	Lumens	3877.0	0.0	3877.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	92.7	2.4
10°-20°	206.1	5.3
20°-30°	261.9	6.8
30°-40°	333.6	8.6
40°-50°	473.0	12.2
50°-60°	732.1	18.9
60°-70°	996.6	25.7
70°-80°	664.8	17.1
80°-90°	116.2	3.0
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°	3877.0	100.0
0°-180°	3877.0	100.0

Coefficient of Utilization



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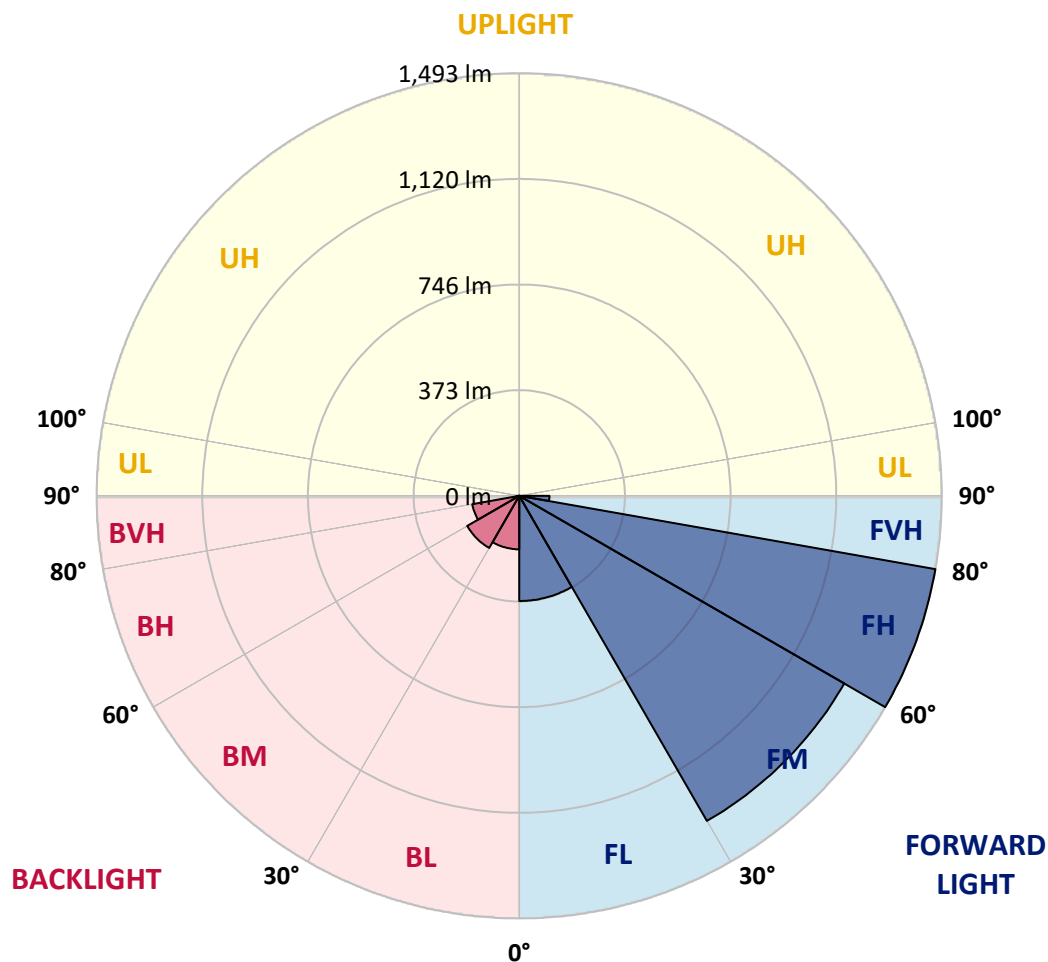
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	371.7	9.6			
FM	(30°-60°)	1326.1	34.2			
FH	(60°-80°)	1493.0	38.5			G1/1800
FVH	(80°-90°)	106.6	2.7			G2/225
BL	(0°-30°)	188.9	4.9	B1/500		
BM	(30°-60°)	212.6	5.5	B0/220		
BH	(60°-80°)	168.5	4.3	B1/500		G1/500
BVH	(80°-90°)	9.7	0.2			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 III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	1074.2	1074.2	1074.2	1074.2	1074.2	1074.2	1074.2	1074.2	1074.2	1074.2	1074.2
2.5°	1102.7	1101.2	1101.7	1100.7	1098.1	1095.5	1091.7	1092.4	1087.2	1079.3	1069.6
5°	1081.9	1081.3	1085.4	1087.7	1089.6	1088.1	1087.0	1088.4	1080.7	1069.9	1053.0
7.5°	1038.3	1032.3	1037.5	1045.2	1052.4	1058.0	1065.3	1066.2	1061.4	1050.0	1027.9
10°	976.3	970.6	978.2	990.2	1004.8	1018.0	1032.7	1035.4	1036.4	1026.1	999.2
12.5°	912.0	907.7	915.2	932.1	956.3	976.7	1000.2	1004.2	1012.6	1005.7	972.8
15°	854.5	852.8	862.0	878.6	906.5	937.7	971.6	979.0	993.2	990.9	952.1
17.5°	804.8	804.4	811.4	828.8	859.6	899.0	943.1	955.6	976.7	979.4	935.1
20°	767.8	766.9	771.8	784.6	816.4	861.1	912.3	929.5	959.9	969.4	917.5
22.5°	747.9	747.8	747.9	754.0	779.9	821.5	882.3	903.3	943.6	961.4	898.1
25°	744.5	744.1	741.2	740.5	755.2	788.4	852.6	875.8	928.1	955.9	879.6
27.5°	753.3	753.8	749.9	743.6	746.6	766.7	826.8	851.6	915.6	954.8	866.8
30°	771.5	771.3	767.9	761.3	755.5	758.6	808.4	833.3	907.3	959.5	858.0
32.5°	791.7	793.1	792.5	788.8	780.2	767.8	802.9	827.2	904.8	970.9	854.2
35°	815.8	817.5	822.3	825.2	815.0	795.0	814.8	835.8	911.9	992.2	860.3
37.5°	838.8	843.0	856.6	868.6	860.0	837.7	846.4	861.3	933.6	1025.8	876.6
40°	865.3	868.9	891.2	916.7	915.4	892.3	897.3	907.3	972.0	1074.1	906.2
42.5°	891.3	898.6	930.9	967.1	977.5	957.1	965.1	970.3	1026.0	1137.9	957.8
45°	926.0	933.9	978.7	1022.3	1046.6	1035.2	1047.9	1049.9	1093.9	1224.9	1032.7
47.5°	978.6	987.5	1039.8	1085.5	1122.7	1123.9	1144.8	1144.0	1178.7	1324.4	1127.1
50°	1060.4	1073.2	1116.1	1158.9	1204.0	1229.1	1257.0	1253.1	1280.4	1430.5	1235.8
52.5°	1167.6	1173.6	1205.3	1236.9	1293.0	1349.3	1389.4	1385.9	1395.7	1539.4	1359.3
55°	1278.8	1283.2	1296.3	1313.6	1389.0	1480.8	1565.6	1560.1	1535.1	1652.6	1481.2
57.5°	1378.7	1387.8	1396.8	1404.0	1485.7	1618.3	1745.9	1746.3	1686.4	1774.7	1607.2
60°	1394.3	1402.2	1462.1	1518.5	1651.1	1801.7	1938.9	1934.9	1842.9	1907.2	1747.7
62.5°	1232.5	1250.4	1350.4	1500.5	1810.5	2137.2	2185.1	2180.1	2030.1	2070.5	1911.2
65°	883.2	903.6	1024.2	1249.9	1733.2	2506.8	2629.4	2562.2	2285.3	2271.3	2102.7
67.5°	509.5	514.4	566.7	747.9	1319.7	2526.1	3307.2	3213.1	2681.7	2499.1	2196.5
70°	376.8	376.7	389.1	460.3	714.1	2061.7	3629.6	3714.0	3099.0	2574.1	2064.0
71°	340.7	341.1	355.0	418.9	565.6	1725.7	3561.1	3745.9	3208.9	2537.1	1968.1
72.5°	291.4	292.8	312.1	375.7	475.8	1190.1	3266.2	3554.7	3261.1	2445.8	1818.0
75°	221.1	224.2	250.9	316.7	434.9	603.5	2397.1	2838.5	2897.0	2158.1	1350.9
77.5°	157.7	161.2	191.5	266.3	413.4	454.8	1605.3	2070.5	2131.9	1383.0	609.3
80°	99.7	103.9	126.7	211.9	388.4	431.9	1008.8	1391.7	1162.5	442.6	155.0
82.5°	58.5	61.7	78.6	138.4	317.2	416.0	593.5	771.4	452.4	133.7	70.5
85°	33.9	35.4	49.0	88.2	230.4	392.6	436.1	431.2	196.4	65.4	33.4
87.5°	15.8	17.6	29.0	46.1	127.9	284.6	344.6	297.8	122.1	30.7	15.7
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°	1074.2	1074.2	1074.2	1074.2	1074.2	1074.2	1074.2	1074.2	1074.2	1074.2	1074.2
2.5°	1064.9	1062.6	1053.0	1044.5	1035.6	1023.9	1011.1	1009.5	1001.7	1003.2	1000.5
5°	1043.8	1038.0	1014.9	994.0	969.3	947.1	923.1	912.0	896.1	895.0	890.9
7.5°	1013.7	1002.9	967.1	927.4	887.7	849.9	812.5	787.9	762.8	752.1	751.1
10°	979.8	961.4	908.8	850.0	792.7	737.5	684.0	644.5	608.8	591.9	591.2
12.5°	947.6	920.5	848.2	768.3	690.0	618.4	545.1	493.1	448.4	433.4	427.0
15°	920.4	882.1	789.4	687.1	592.1	492.7	409.2	354.5	313.2	298.9	296.2
17.5°	893.9	844.7	729.0	605.2	490.2	381.0	297.4	256.7	234.7	228.9	228.8
20°	867.6	806.2	665.9	521.3	391.8	285.0	228.6	210.4	203.0	202.3	201.2
22.5°	837.7	765.5	599.6	437.2	305.8	224.0	194.3	187.0	186.1	188.5	188.5
25°	809.8	724.9	532.4	354.8	237.8	186.9	173.5	172.1	174.6	178.9	179.3
27.5°	783.7	685.9	466.7	281.6	190.6	164.6	159.1	160.8	165.4	170.4	170.6
30°	762.2	649.1	403.0	221.9	161.0	148.0	147.1	150.6	155.6	159.5	160.4
32.5°	745.6	617.6	341.4	178.4	141.7	135.6	136.4	139.4	142.5	144.6	146.1
35°	737.9	590.6	284.6	150.4	129.4	126.0	127.1	128.7	130.1	131.7	132.9
37.5°	739.3	569.6	233.8	133.0	121.1	119.4	119.4	119.4	119.4	120.2	120.3
40°	751.8	557.6	192.4	122.0	115.6	113.7	112.2	110.9	109.8	110.3	110.1
42.5°	784.0	556.5	162.2	114.9	111.1	108.0	105.1	103.2	101.8	102.4	102.6
45°	838.5	570.0	141.8	109.9	107.0	102.2	98.5	96.4	95.5	97.2	97.5
47.5°	909.2	599.5	129.4	106.3	103.0	96.8	92.8	90.9	91.2	93.7	94.4
50°	1000.2	647.3	123.4	104.0	100.3	92.2	88.1	86.4	87.2	90.9	91.7
52.5°	1100.1	716.2	124.1	103.3	98.6	88.9	84.4	82.5	83.9	87.2	87.9
55°	1215.5	799.0	135.3	104.3	96.0	86.7	81.4	78.2	79.3	82.4	82.9
57.5°	1343.6	893.8	157.9	104.0	92.8	84.7	78.3	73.5	74.3	76.2	76.7
60°	1477.0	1008.3	192.9	104.8	91.3	82.2	74.1	68.1	67.8	69.4	69.7
62.5°	1637.2	1140.8	232.8	105.3	92.2	79.1	68.6	62.7	61.9	62.3	62.5
65°	1802.2	1236.7	217.8	103.2	95.2	76.6	63.7	57.4	55.9	55.6	55.8
67.5°	1807.4	1133.9	152.7	98.9	96.4	75.2	60.1	52.9	50.5	49.6	49.4
70°	1620.9	921.2	119.0	94.3	91.6	73.1	56.7	49.3	45.6	44.2	44.0
71°	1529.8	848.0	112.8	92.0	87.9	70.9	55.2	47.7	43.9	42.3	42.0
72.5°	1387.1	760.2	105.2	88.3	80.9	65.4	52.4	45.4	41.5	39.6	39.2
75°	995.5	497.1	90.3	78.7	67.0	52.1	45.9	40.8	37.4	35.1	34.8
77.5°	383.5	197.8	68.3	65.5	51.3	40.8	37.8	35.2	32.8	30.5	30.4
80°	118.6	88.5	49.8	49.3	37.1	30.4	29.4	28.8	27.8	25.4	24.8
82.5°	63.3	50.8	34.3	31.9	24.3	20.3	21.3	21.6	21.7	19.2	18.9
85°	30.3	26.9	19.3	18.1	14.2	11.3	13.1	14.2	14.3	11.7	10.9
87.5°	14.5	14.0	9.0	6.9	5.3	3.8	4.6	5.7	6.2	4.5	3.9
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)