

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: P322387

Luminaire Tested: **GAN-SA3A-830-U-T3-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322387
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-15)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA3A-830-U-T3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8238 lumens
Efficiency: N/A
Efficacy: 85.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 96
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

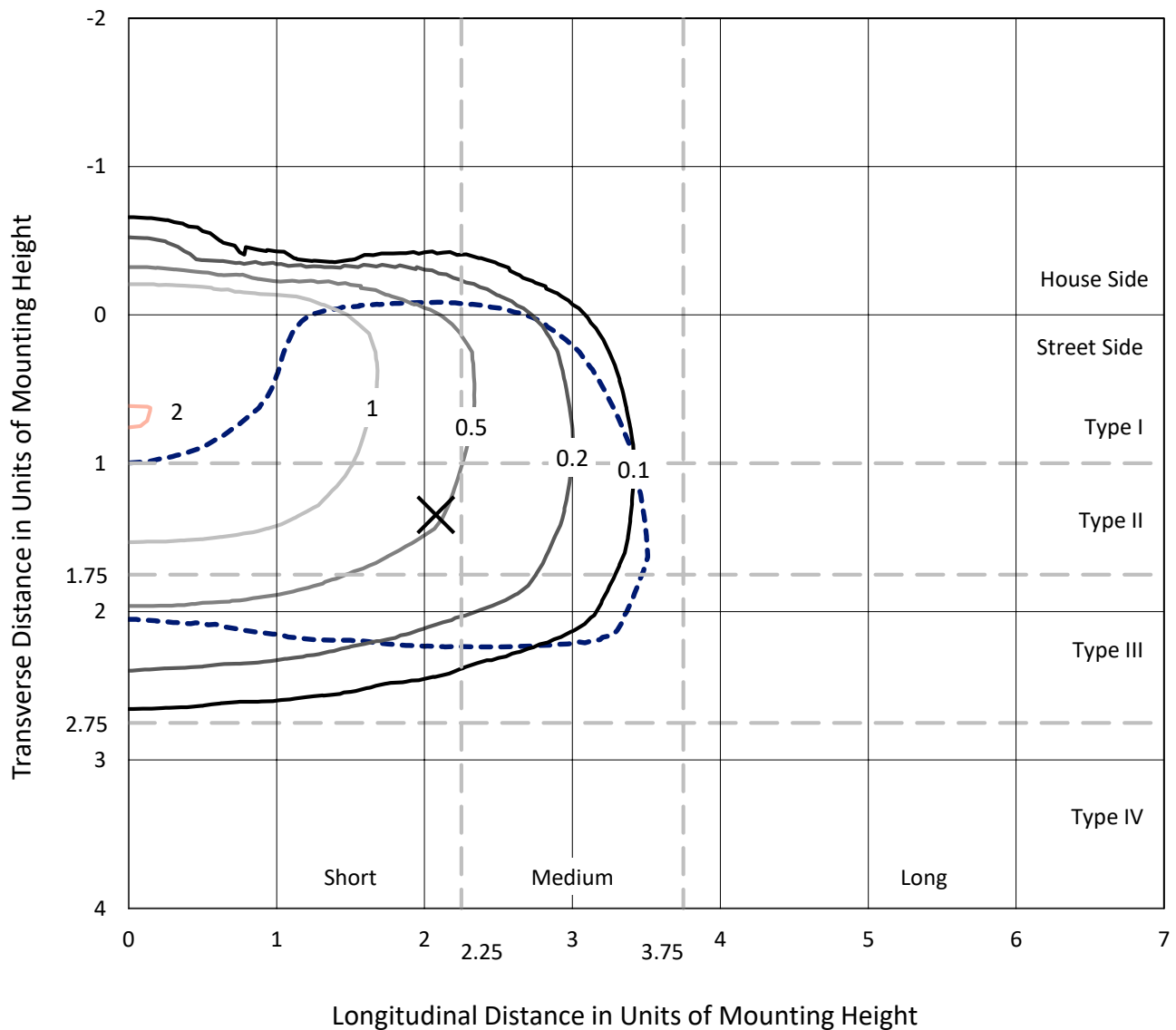


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Iso-Footcandle Lines of Horizontal Illumination

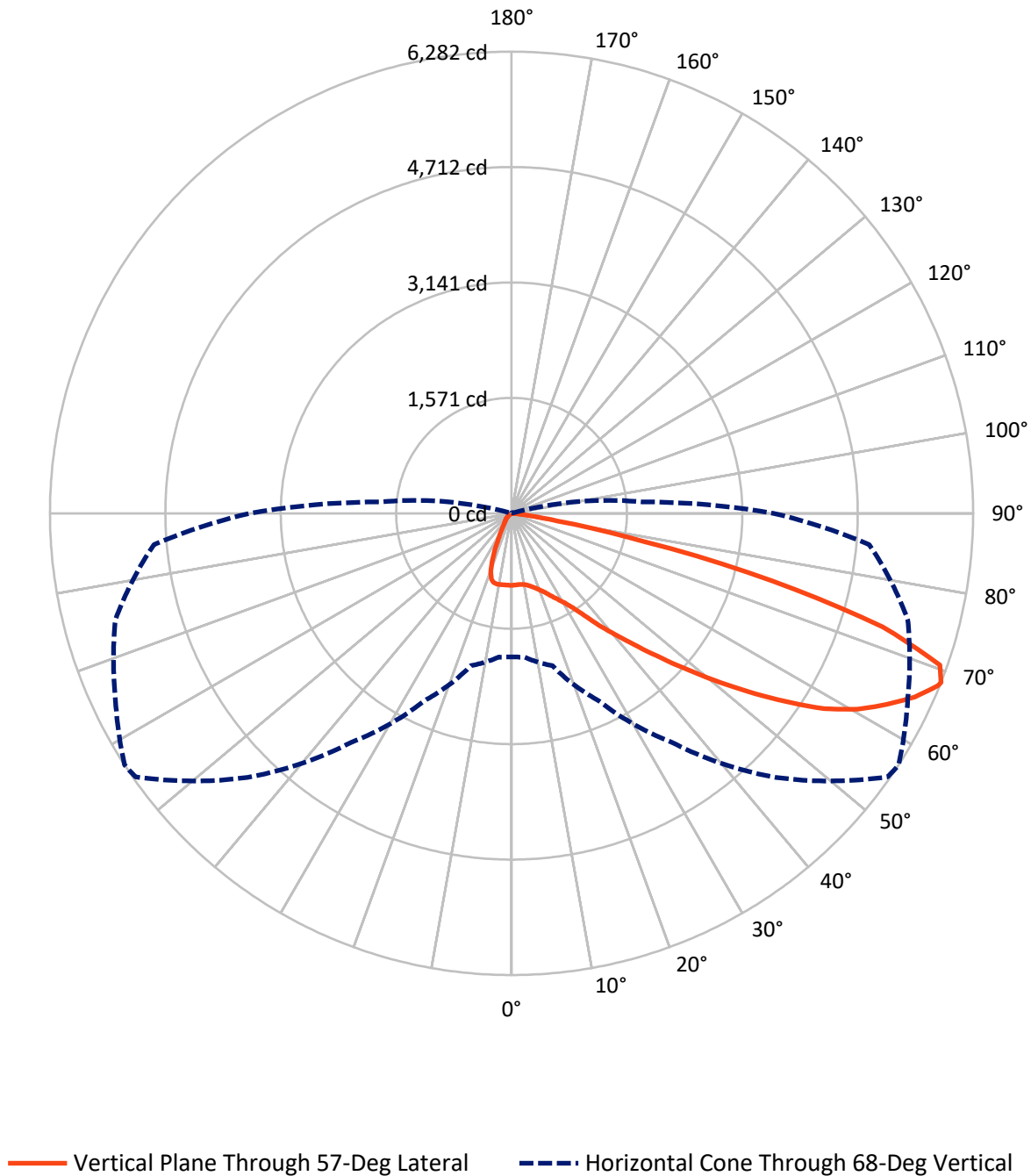
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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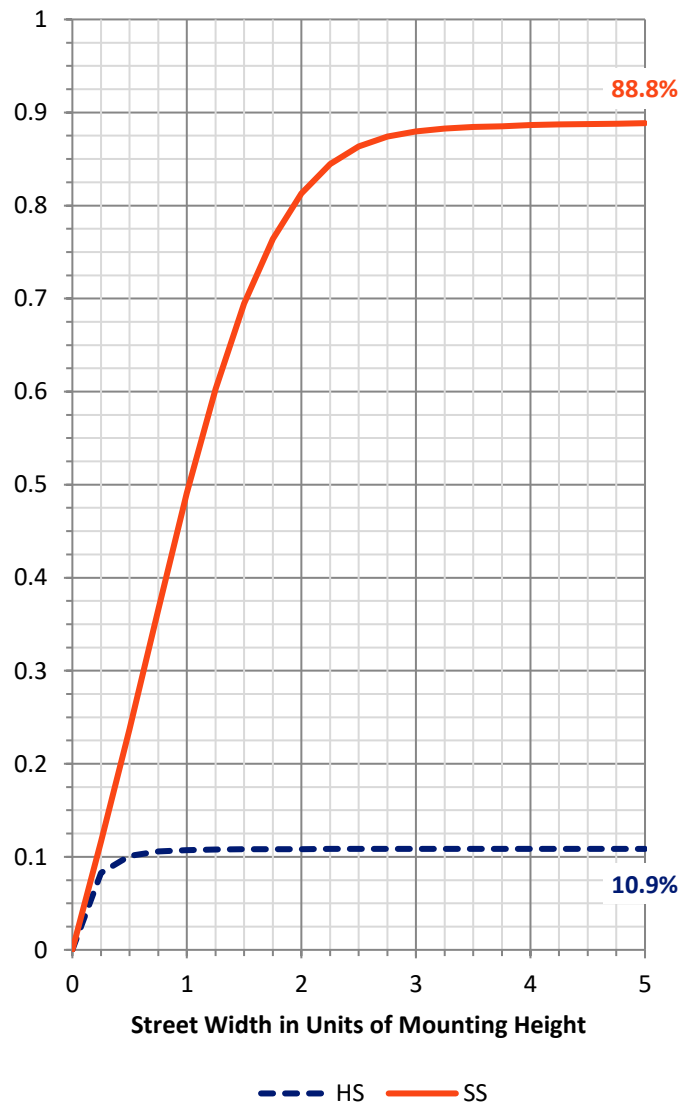
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	903.3	0.0	903.3
	% Fixture	11.0	0.0	11.0
Street Side	Lumens	7334.7	0.0	7334.7
	% Fixture	89.0	0.0	89.0
Total	Lumens	8238.0	0.0	8238.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	91.6	1.1
10°-20°	253.9	3.1
20°-30°	437.9	5.3
30°-40°	755.8	9.2
40°-50°	1292.9	15.7
50°-60°	2068.5	25.1
60°-70°	2389.9	29.0
70°-80°	913.2	11.1
80°-90°	34.2	0.4
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°	8238.0	100.0
0°-180°	8238.0	100.0

Coefficient of Utilization



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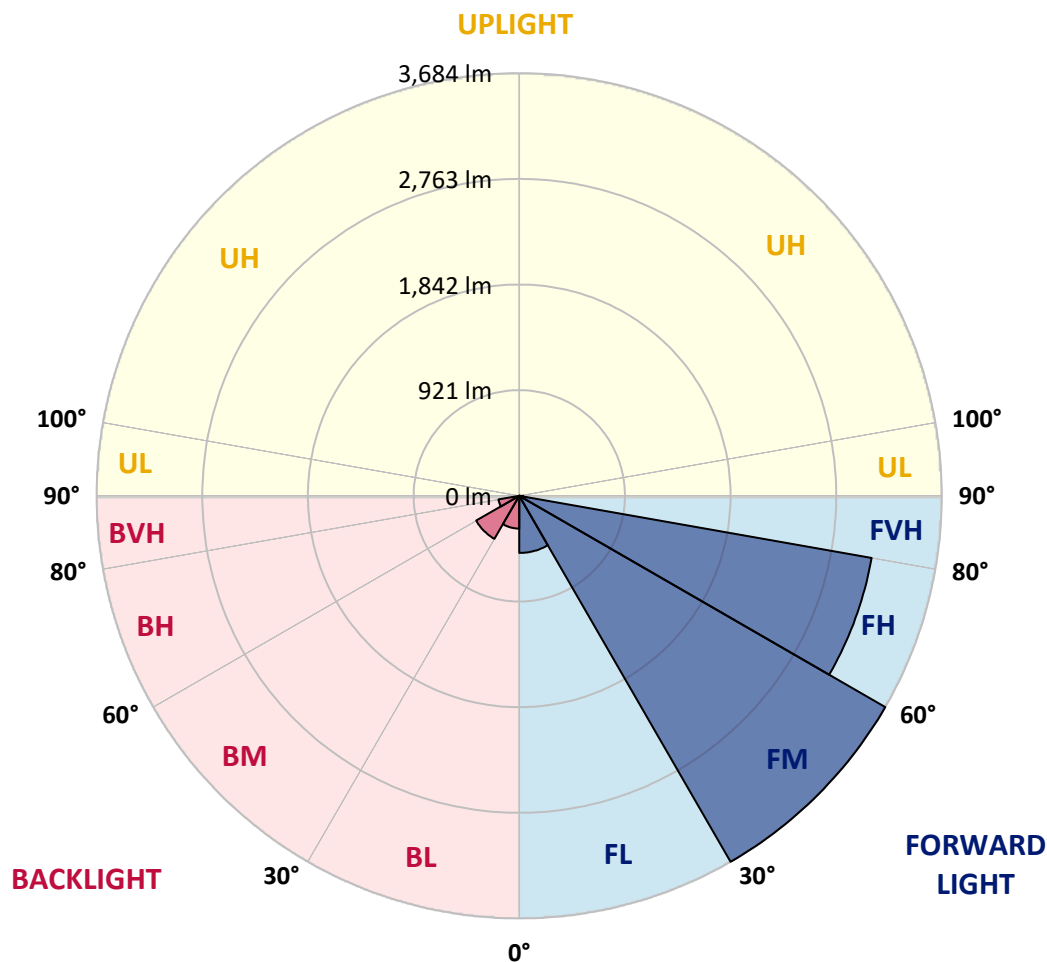
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	497.9	6.0			
FM	(30°-60°)	3684.0	44.7			
FH	(60°-80°)	3119.2	37.9			G2/5000
FVH	(80°-90°)	33.6	0.4			G1/100
BL	(0°-30°)	285.5	3.5	B1/500		
BM	(30°-60°)	433.3	5.3	B1/1000		
BH	(60°-80°)	184.0	2.2	B1/500		G1/500
BVH	(80°-90°)	0.6	0.0			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 Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	978.9	978.9	978.9	978.9	978.9	978.9	978.9	978.9	978.9	978.9	978.9
2.5°	955.9	960.2	963.3	965.3	967.6	972.7	974.2	976.6	977.7	977.7	980.4
5°	918.1	922.8	929.4	934.9	945.8	959.8	969.9	973.8	980.8	987.1	990.6
7.5°	883.1	888.5	896.3	909.2	927.9	950.5	971.5	976.9	990.6	1003.8	1010.4
10°	860.5	864.8	874.9	893.2	917.7	949.3	978.9	985.5	1008.9	1031.1	1043.6
12.5°	852.7	856.6	867.1	887.7	918.1	955.1	996.0	1005.8	1040.0	1072.4	1089.9
15°	864.0	864.8	876.1	895.5	925.5	969.5	1024.5	1036.2	1079.4	1121.5	1143.3
17.5°	907.6	904.1	909.9	918.5	942.3	988.6	1054.5	1072.0	1129.6	1179.1	1199.8
20°	1016.7	1016.7	1003.4	980.1	980.4	1018.2	1095.0	1114.8	1185.3	1242.6	1261.3
22.5°	1203.3	1199.8	1173.3	1116.0	1063.4	1069.3	1144.4	1170.2	1252.3	1313.5	1319.7
25°	1427.6	1423.3	1382.4	1301.8	1210.7	1151.8	1211.4	1241.0	1332.2	1386.3	1373.5
27.5°	1665.2	1661.7	1621.2	1521.1	1391.4	1283.5	1291.3	1319.3	1413.6	1467.0	1426.1
30°	1895.5	1896.6	1856.5	1753.7	1606.8	1451.4	1392.6	1408.9	1492.7	1546.8	1488.4
32.5°	2114.4	2115.9	2081.3	1966.4	1829.2	1646.5	1532.8	1528.5	1584.6	1638.0	1571.0
35°	2309.5	2313.4	2289.7	2200.5	2055.2	1863.9	1714.7	1704.6	1715.1	1775.5	1697.6
37.5°	2497.7	2500.0	2482.1	2406.9	2285.4	2102.7	1944.5	1930.1	1907.5	1953.9	1864.7
40°	2703.7	2697.9	2677.2	2609.1	2504.7	2366.4	2191.5	2166.6	2127.2	2168.5	2084.4
42.5°	2895.4	2888.8	2892.3	2815.1	2727.1	2637.5	2479.4	2436.5	2413.5	2461.1	2353.9
45°	3134.9	3131.4	3143.1	3076.1	3004.8	2939.8	2809.3	2762.6	2752.4	2808.1	2680.0
47.5°	3371.4	3380.0	3416.2	3387.8	3358.9	3301.7	3158.7	3137.7	3143.9	3211.3	3023.9
50°	3568.5	3578.6	3678.0	3710.7	3752.4	3718.9	3575.5	3562.7	3587.2	3648.0	3394.0
52.5°	3711.1	3731.7	3855.2	4005.9	4157.9	4180.4	4037.5	4025.8	4058.9	4068.3	3679.9
55°	3810.0	3828.3	3968.2	4243.9	4553.2	4650.6	4561.8	4516.6	4510.4	4418.1	3980.6
57.5°	3827.5	3825.6	4026.6	4397.8	4863.3	5114.5	5058.5	5014.0	4886.3	4741.4	4325.4
60°	3728.6	3739.9	3973.2	4451.2	5058.1	5465.5	5469.8	5412.1	5213.1	5055.7	4659.6
62.5°	3424.0	3469.9	3705.6	4311.3	5055.7	5606.9	5771.3	5727.3	5489.3	5313.2	4998.5
65°	2930.1	2946.4	3171.2	3832.2	4714.1	5547.7	6042.8	6026.4	5738.2	5563.3	5172.6
67.5°	2139.7	2104.2	2340.3	3017.7	3991.1	5202.6	6237.6	6258.2	5930.2	5614.7	4987.2
68°	1952.7	1963.2	2147.1	2816.3	3801.8	5080.7	6250.4	6282.0	5949.3	5581.2	4885.9
70°	1163.9	1184.2	1348.2	1939.1	2892.3	4390.8	6111.7	6183.8	5835.6	5235.7	4226.0
72.5°	297.2	321.4	476.4	867.9	1652.0	3093.7	5159.3	5281.3	5066.6	4247.4	2852.9
75°	122.3	128.5	170.2	285.9	615.5	1393.7	3400.6	3661.6	3512.4	2542.9	1289.3
77.5°	84.5	88.8	109.5	158.5	266.4	472.5	1667.2	1855.7	1671.9	867.9	281.2
80°	60.8	64.3	78.3	105.6	153.1	168.7	543.4	628.3	499.0	190.5	69.7
82.5°	36.2	39.0	58.4	75.2	93.1	80.6	135.2	153.5	144.5	94.7	31.2
85°	17.9	21.0	39.3	53.8	50.2	33.9	41.3	46.0	56.9	57.7	16.7
87.5°	1.2	2.3	23.0	32.3	14.0	7.8	12.1	14.8	20.3	28.4	7.0
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°	978.9	978.9	978.9	978.9	978.9	978.9	978.9	978.9	978.9	978.9	978.9
2.5°	981.6	982.0	979.3	978.1	978.9	974.2	972.3	973.0	973.0	974.2	972.3
5°	991.4	991.4	986.7	980.4	976.9	968.0	962.1	960.6	959.4	958.6	957.1
7.5°	1012.4	1010.1	1001.9	988.2	976.6	957.1	942.3	934.5	930.6	929.0	927.9
10°	1046.3	1042.0	1028.4	1003.0	976.2	941.5	909.2	886.2	867.1	859.3	854.6
12.5°	1091.9	1085.6	1062.6	1020.6	973.4	909.6	839.4	772.1	709.3	683.6	670.8
15°	1144.4	1135.5	1099.3	1035.4	957.5	837.5	685.2	567.2	480.3	447.6	433.5
17.5°	1197.8	1186.1	1131.2	1044.7	909.6	688.3	480.7	363.0	305.0	289.4	284.0
20°	1251.6	1234.4	1158.9	1037.7	801.3	496.3	317.1	265.3	248.5	243.8	242.3
22.5°	1302.6	1276.1	1183.8	1010.4	634.5	333.0	250.9	234.5	229.0	226.3	225.5
25°	1347.0	1310.0	1205.6	926.3	449.1	251.6	225.9	220.5	213.5	208.4	208.8
27.5°	1388.7	1343.9	1218.8	787.6	299.5	215.0	209.2	201.8	188.9	181.5	181.5
30°	1438.9	1389.1	1228.6	606.1	220.5	190.1	185.4	174.1	156.6	146.9	146.9
32.5°	1514.5	1457.6	1222.3	425.4	182.7	167.1	156.2	140.6	121.5	112.2	111.8
35°	1630.2	1563.6	1177.9	278.9	161.3	145.3	127.8	108.7	91.9	84.1	83.7
37.5°	1786.0	1705.4	1078.2	199.4	144.5	125.0	104.0	83.0	70.5	65.4	65.1
40°	1988.2	1870.1	935.7	161.7	128.9	105.6	80.2	64.3	55.7	51.8	52.2
42.5°	2230.8	2046.6	764.6	139.5	113.7	86.9	62.7	50.6	45.2	42.5	41.7
45°	2500.4	2220.7	585.5	124.3	98.6	70.1	49.1	40.1	35.8	34.3	34.3
47.5°	2796.8	2390.2	428.5	111.0	82.2	54.1	39.3	32.7	29.2	28.0	27.7
50°	3066.0	2507.8	308.9	97.0	67.4	42.8	31.9	27.3	24.9	23.4	23.4
52.5°	3290.4	2544.8	227.5	81.8	54.5	34.3	26.5	23.4	21.0	19.9	19.9
55°	3487.9	2529.6	169.1	67.4	44.0	28.0	22.6	19.9	17.9	16.7	16.7
57.5°	3677.2	2480.5	126.2	54.9	35.4	22.6	19.1	16.7	14.8	14.0	14.0
60°	3831.8	2398.7	93.9	44.4	28.4	18.3	16.0	13.6	12.1	10.9	10.9
62.5°	3957.2	2308.4	68.9	36.6	22.6	14.4	12.5	11.3	9.0	7.8	7.8
65°	3958.0	2158.4	51.8	30.4	17.5	11.3	9.3	9.0	5.8	4.7	4.3
67.5°	3671.7	1860.8	39.7	26.1	13.6	8.6	7.0	7.4	3.1	1.9	1.6
68°	3567.7	1785.2	37.4	25.7	12.9	8.2	6.6	7.4	2.7	1.6	1.2
70°	3008.0	1420.2	30.0	24.9	11.3	6.2	5.5	7.4	2.3	1.2	0.8
72.5°	1923.9	824.2	22.2	19.9	8.6	4.7	3.5	6.6	2.3	0.8	0.4
75°	818.8	255.5	15.2	14.0	5.1	3.5	2.3	4.3	1.6	0.4	0.0
77.5°	172.6	57.7	9.0	8.6	3.5	2.3	1.6	1.2	0.4	0.0	0.0
80°	44.4	16.7	4.7	4.3	1.9	1.2	0.8	0.0	0.0	0.0	0.0
82.5°	14.0	6.6	2.7	1.9	0.8	0.0	0.0	0.0	0.0	0.0	0.0
85°	7.0	3.9	1.6	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	3.9	1.2	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)