

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: P322166

Luminaire Tested: **GAN-SA2C-727-U-T3-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322166
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-SA2C-727-U-T3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 2700K, 1050mA 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: 8819 lumens
Efficiency: N/A
Efficacy: 78.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 113
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

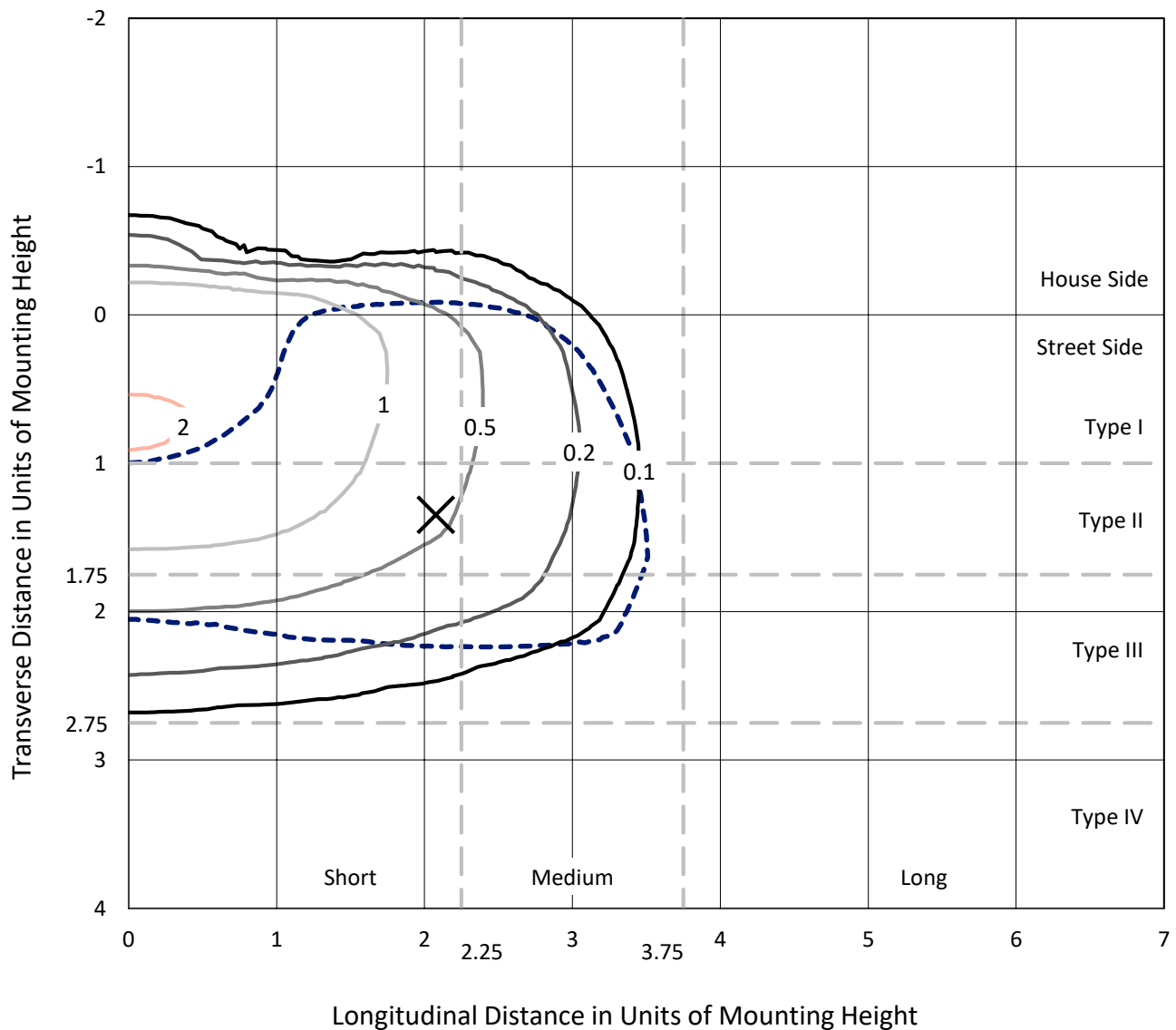


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

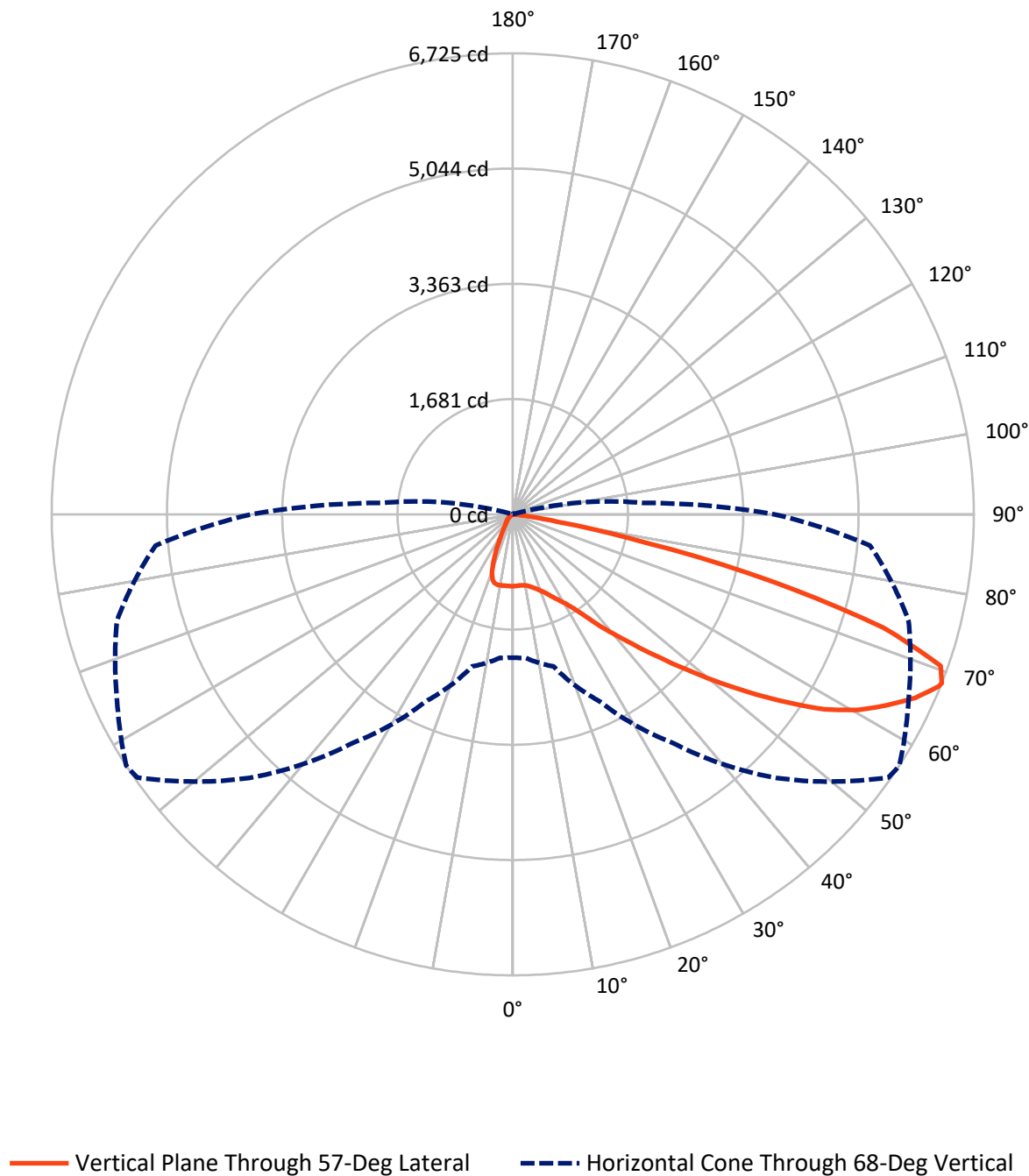


Based on 25 foot mounting height. Maximum calculated value = 2.2 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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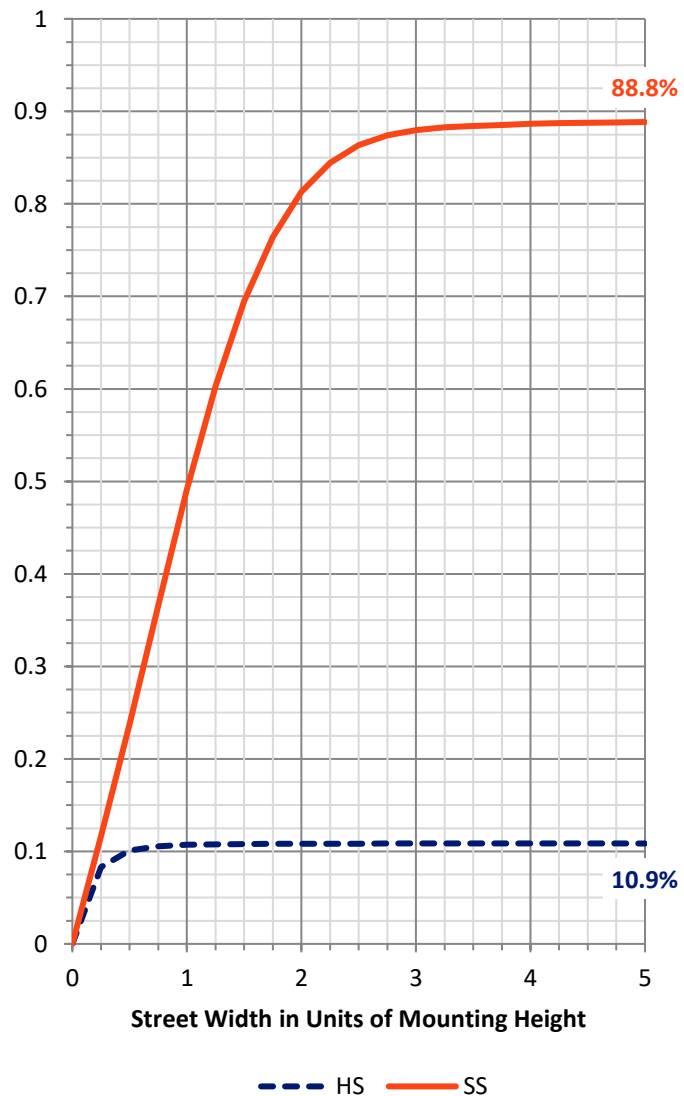
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	967.1	0.0	967.1
	% Fixture	11.0	0.0	11.0
Street Side	Lumens	7851.9	0.0	7851.9
	% Fixture	89.0	0.0	89.0
Total	Lumens	8819.0	0.0	8819.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	98.1	1.1
10°-20°	271.8	3.1
20°-30°	468.8	5.3
30°-40°	809.2	9.2
40°-50°	1384.1	15.7
50°-60°	2214.4	25.1
60°-70°	2558.5	29.0
70°-80°	977.6	11.1
80°-90°	36.6	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°	8819.0	100.0
0°-180°	8819.0	100.0

Coefficient of Utilization



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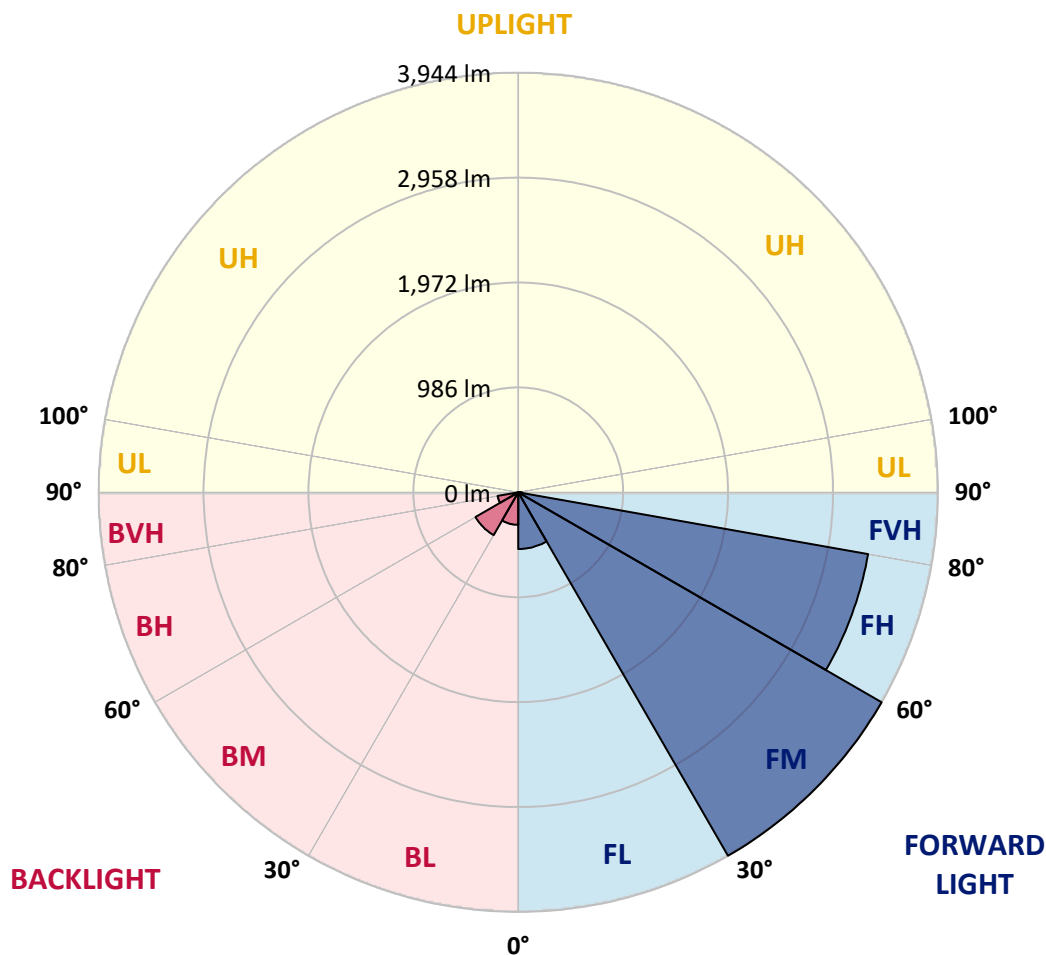
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	533.0	6.0			
FM	(30°-60°)	3943.8	44.7			
FH	(60°-80°)	3339.2	37.9			G2/5000
FVH	(80°-90°)	36.0	0.4			G1/100
BL	(0°-30°)	305.6	3.5	B1/500		
BM	(30°-60°)	463.8	5.3	B1/1000		
BH	(60°-80°)	197.0	2.2	B1/500		G1/500
BVH	(80°-90°)	0.7	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°	1047.9	1047.9	1047.9	1047.9	1047.9	1047.9	1047.9	1047.9	1047.9	1047.9	1047.9
2.5°	1023.3	1027.9	1031.2	1033.3	1035.8	1041.3	1042.9	1045.4	1046.7	1046.7	1049.6
5°	982.9	987.9	995.0	1000.8	1012.5	1027.5	1038.3	1042.5	1050.0	1056.7	1060.4
7.5°	945.3	951.2	959.5	973.3	993.3	1017.5	1040.0	1045.8	1060.4	1074.6	1081.7
10°	921.2	925.7	936.6	956.2	982.5	1016.2	1047.9	1055.0	1080.0	1103.8	1117.2
12.5°	912.8	917.0	928.2	950.4	982.9	1022.5	1066.3	1076.7	1113.4	1148.0	1166.8
15°	924.9	925.7	937.8	958.7	990.8	1037.9	1096.7	1109.2	1155.5	1200.6	1223.9
17.5°	971.6	967.9	974.1	983.3	1008.7	1058.4	1128.8	1147.6	1209.3	1262.3	1284.4
20°	1088.4	1088.4	1074.2	1049.2	1049.6	1090.0	1172.2	1193.5	1268.9	1330.2	1350.3
22.5°	1288.1	1284.4	1256.0	1194.7	1138.4	1144.7	1225.2	1252.7	1340.7	1406.1	1412.8
25°	1528.3	1523.7	1479.9	1393.6	1296.0	1233.1	1296.9	1328.6	1426.2	1484.1	1470.4
27.5°	1782.7	1778.9	1735.6	1628.4	1489.5	1374.0	1382.4	1412.4	1513.3	1570.4	1526.6
30°	2029.1	2030.4	1987.4	1877.3	1720.1	1553.8	1490.8	1508.3	1598.0	1655.9	1593.4
32.5°	2263.5	2265.2	2228.0	2105.0	1958.2	1762.7	1640.9	1636.3	1696.4	1753.5	1681.8
35°	2472.4	2476.6	2451.1	2355.7	2200.1	1995.4	1835.6	1824.8	1836.1	1900.7	1817.3
37.5°	2673.8	2676.3	2657.1	2576.7	2446.6	2251.0	2081.7	2066.3	2042.1	2091.7	1996.2
40°	2894.4	2888.2	2866.1	2793.1	2681.3	2533.3	2346.1	2319.4	2277.3	2321.5	2231.4
42.5°	3099.6	3092.5	3096.3	3013.7	2919.4	2823.5	2654.2	2608.4	2583.8	2634.6	2520.0
45°	3356.0	3352.3	3364.8	3293.1	3216.8	3147.1	3007.4	2957.4	2946.5	3006.2	2869.0
47.5°	3609.2	3618.3	3657.1	3626.7	3595.8	3534.5	3381.5	3359.0	3365.6	3437.8	3237.2
50°	3820.2	3831.0	3937.3	3972.4	4017.0	3981.1	3827.7	3813.9	3840.2	3905.2	3633.4
52.5°	3972.8	3994.9	4127.1	4288.5	4451.1	4475.3	4322.2	4309.7	4345.2	4355.2	3939.4
55°	4078.7	4098.3	4248.0	4543.3	4874.4	4978.6	4883.5	4835.2	4828.5	4729.7	4261.4
57.5°	4097.5	4095.4	4310.6	4708.0	5206.3	5475.3	5415.2	5367.7	5230.9	5075.8	4630.4
60°	3991.6	4003.7	4253.4	4765.1	5414.8	5851.0	5855.6	5793.8	5580.8	5412.3	4988.2
62.5°	3665.5	3714.7	3967.0	4615.4	5412.3	6002.3	6178.3	6131.2	5876.4	5687.9	5351.0
65°	3136.7	3154.2	3394.8	4102.5	5046.6	5939.0	6469.0	6451.5	6142.9	5955.6	5537.4
67.5°	2290.6	2252.7	2505.4	3230.5	4272.6	5569.5	6677.5	6699.6	6348.5	6010.7	5338.9
68°	2090.4	2101.7	2298.5	3014.9	4070.0	5439.0	6691.2	6725.0	6368.9	5974.8	5230.5
70°	1246.0	1267.7	1443.2	2075.8	3096.3	4700.5	6542.8	6619.9	6247.1	5604.9	4524.1
72.5°	318.2	344.0	510.0	929.1	1768.5	3311.8	5523.2	5653.7	5424.0	4547.0	3054.1
75°	130.9	137.6	182.2	306.1	658.9	1492.0	3640.4	3919.8	3760.1	2722.2	1380.3
77.5°	90.5	95.1	117.2	169.7	285.2	505.8	1784.8	1986.6	1789.8	929.1	301.1
80°	65.1	68.8	83.8	113.0	163.9	180.6	581.7	672.6	534.2	203.9	74.6
82.5°	38.8	41.7	62.6	80.5	99.7	86.3	144.7	164.3	154.7	101.3	33.4
85°	19.2	22.5	42.1	57.5	53.8	36.3	44.2	49.2	60.9	61.7	17.9
87.5°	1.3	2.5	24.6	34.6	15.0	8.3	12.9	15.8	21.7	30.4	7.5
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°	1047.9	1047.9	1047.9	1047.9	1047.9	1047.9	1047.9	1047.9	1047.9	1047.9	1047.9
2.5°	1050.8	1051.3	1048.3	1047.1	1047.9	1042.9	1040.8	1041.7	1041.7	1042.9	1040.8
5°	1061.3	1061.3	1056.3	1049.6	1045.8	1036.3	1030.0	1028.3	1027.1	1026.2	1024.6
7.5°	1083.8	1081.3	1072.5	1057.9	1045.4	1024.6	1008.7	1000.4	996.2	994.6	993.3
10°	1120.1	1115.5	1100.9	1073.8	1045.0	1007.9	973.3	948.7	928.2	919.9	914.9
12.5°	1168.9	1162.2	1137.6	1092.5	1042.1	973.7	898.6	826.5	759.4	731.8	718.1
15°	1225.2	1215.6	1176.8	1108.4	1025.0	896.6	733.5	607.2	514.2	479.1	464.1
17.5°	1282.3	1269.8	1211.0	1118.4	973.7	736.8	514.6	388.6	326.5	309.8	304.0
20°	1339.8	1321.5	1240.6	1110.9	857.8	531.3	339.4	284.0	266.0	261.0	259.4
22.5°	1394.5	1366.1	1267.3	1081.7	679.3	356.5	268.6	251.0	245.2	242.3	241.4
25°	1442.0	1402.4	1290.6	991.6	480.8	269.4	241.9	236.0	228.5	223.1	223.5
27.5°	1486.6	1438.7	1304.8	843.2	320.7	230.2	223.9	216.0	202.2	194.3	194.3
30°	1540.4	1487.0	1315.2	648.9	236.0	203.5	198.5	186.4	167.6	157.2	157.2
32.5°	1621.3	1560.4	1308.6	455.4	195.6	178.9	167.2	150.5	130.1	120.1	119.7
35°	1745.2	1673.9	1261.0	298.6	172.6	155.5	136.8	116.3	98.4	90.1	89.7
37.5°	1912.0	1825.6	1154.3	213.5	154.7	133.9	111.3	88.8	75.5	70.1	69.6
40°	2128.4	2002.0	1001.6	173.1	138.0	113.0	85.9	68.8	59.6	55.5	55.9
42.5°	2388.2	2190.9	818.6	149.3	121.8	93.0	67.1	54.2	48.4	45.5	44.6
45°	2676.7	2377.3	626.8	133.0	105.5	75.1	52.5	43.0	38.4	36.7	36.7
47.5°	2994.1	2558.7	458.7	118.8	88.0	58.0	42.1	35.0	31.3	30.0	29.6
50°	3282.2	2684.7	330.7	103.8	72.1	45.9	34.2	29.2	26.7	25.0	25.0
52.5°	3522.4	2724.3	243.5	87.6	58.4	36.7	28.4	25.0	22.5	21.3	21.3
55°	3733.8	2708.0	181.0	72.1	47.1	30.0	24.2	21.3	19.2	17.9	17.9
57.5°	3936.5	2655.5	135.1	58.8	37.9	24.2	20.4	17.9	15.8	15.0	15.0
60°	4102.1	2567.9	100.5	47.5	30.4	19.6	17.1	14.6	12.9	11.7	11.7
62.5°	4236.3	2471.2	73.8	39.2	24.2	15.4	13.3	12.1	9.6	8.3	8.3
65°	4237.2	2310.6	55.5	32.5	18.8	12.1	10.0	9.6	6.3	5.0	4.6
67.5°	3930.7	1992.0	42.5	27.9	14.6	9.2	7.5	7.9	3.3	2.1	1.7
68°	3819.3	1911.1	40.0	27.5	13.8	8.8	7.1	7.9	2.9	1.7	1.3
70°	3220.1	1520.4	32.1	26.7	12.1	6.7	5.8	7.9	2.5	1.3	0.8
72.5°	2059.6	882.4	23.8	21.3	9.2	5.0	3.8	7.1	2.5	0.8	0.4
75°	876.5	273.6	16.3	15.0	5.4	3.8	2.5	4.6	1.7	0.4	0.0
77.5°	184.7	61.7	9.6	9.2	3.8	2.5	1.7	1.3	0.4	0.0	0.0
80°	47.5	17.9	5.0	4.6	2.1	1.3	0.8	0.0	0.0	0.0	0.0
82.5°	15.0	7.1	2.9	2.1	0.8	0.0	0.0	0.0	0.0	0.0	0.0
85°	7.5	4.2	1.7	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	4.2	1.3	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)