

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: P322956

Luminaire Tested: **GAN-SA2B-760-U-T4W-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322956
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-19)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA2B-760-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 5700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8475 lumens
Efficiency: N/A
Efficacy: 99.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

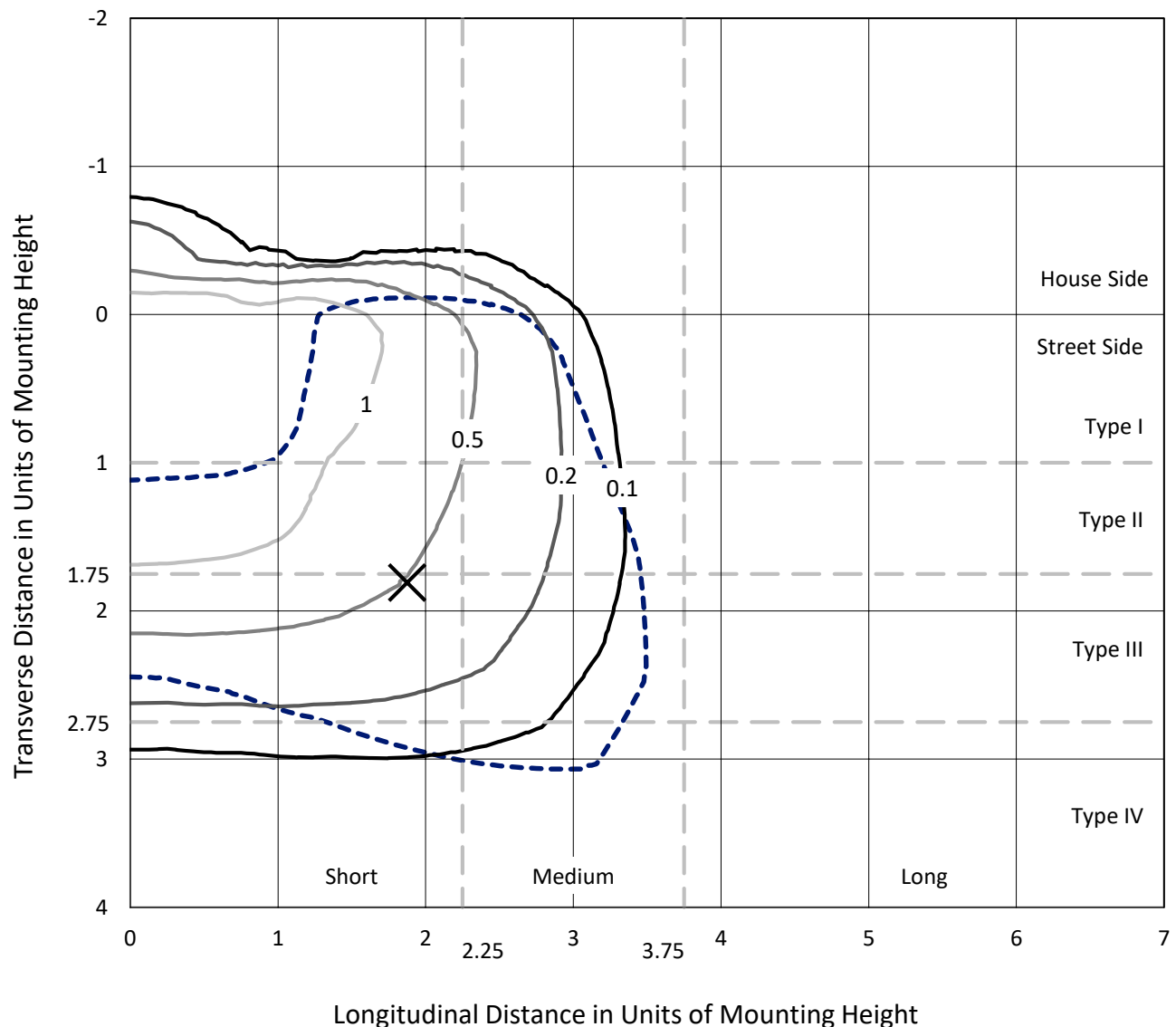
Input Watts (W): 85
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

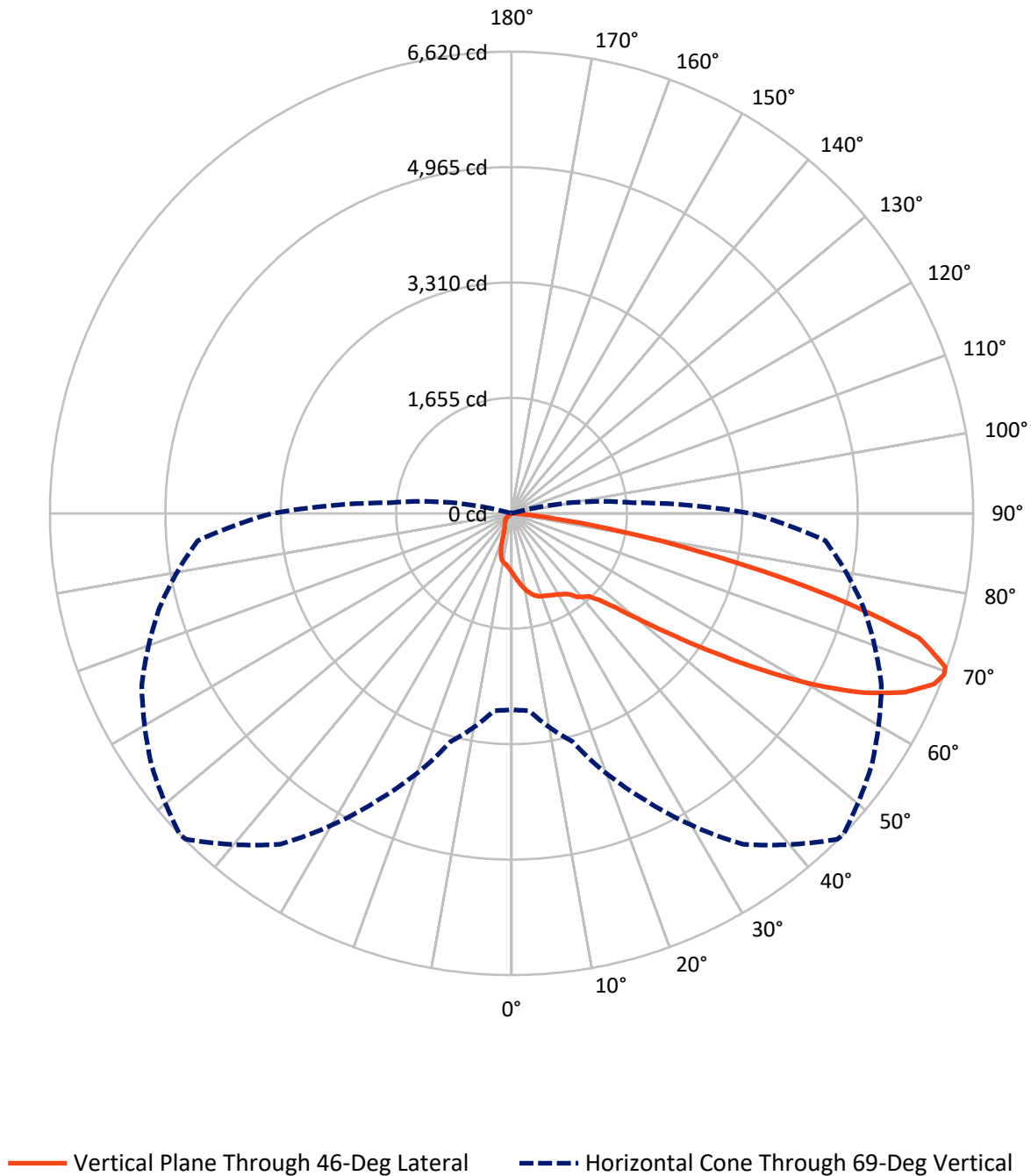
✕ Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



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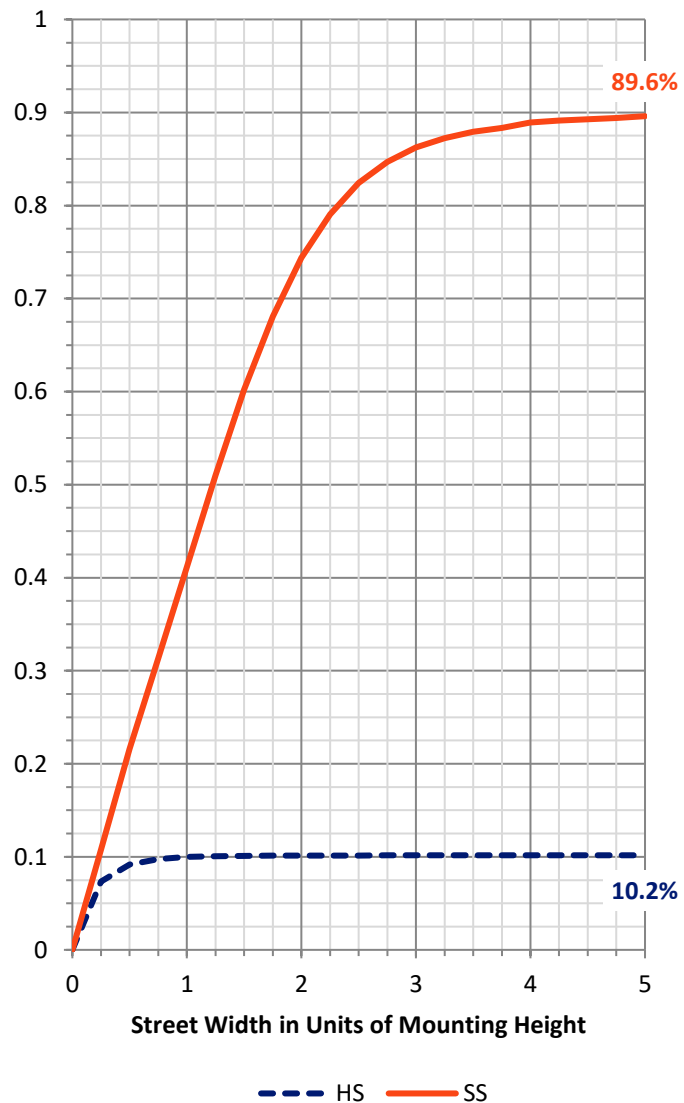
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	869.8	0.0	869.8
	% Fixture	10.3	0.0	10.3
Street Side	Lumens	7605.2	0.0	7605.2
	% Fixture	89.7	0.0	89.7
Total	Lumens	8475.0	0.0	8475.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	84.5	1.0
10°-20°	256.4	3.0
20°-30°	403.3	4.8
30°-40°	578.3	6.8
40°-50°	999.5	11.8
50°-60°	1974.6	23.3
60°-70°	2759.6	32.6
70°-80°	1333.2	15.7
80°-90°	85.7	1.0
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°	8475.0	100.0
0°-180°	8475.0	100.0

Coefficient of Utilization



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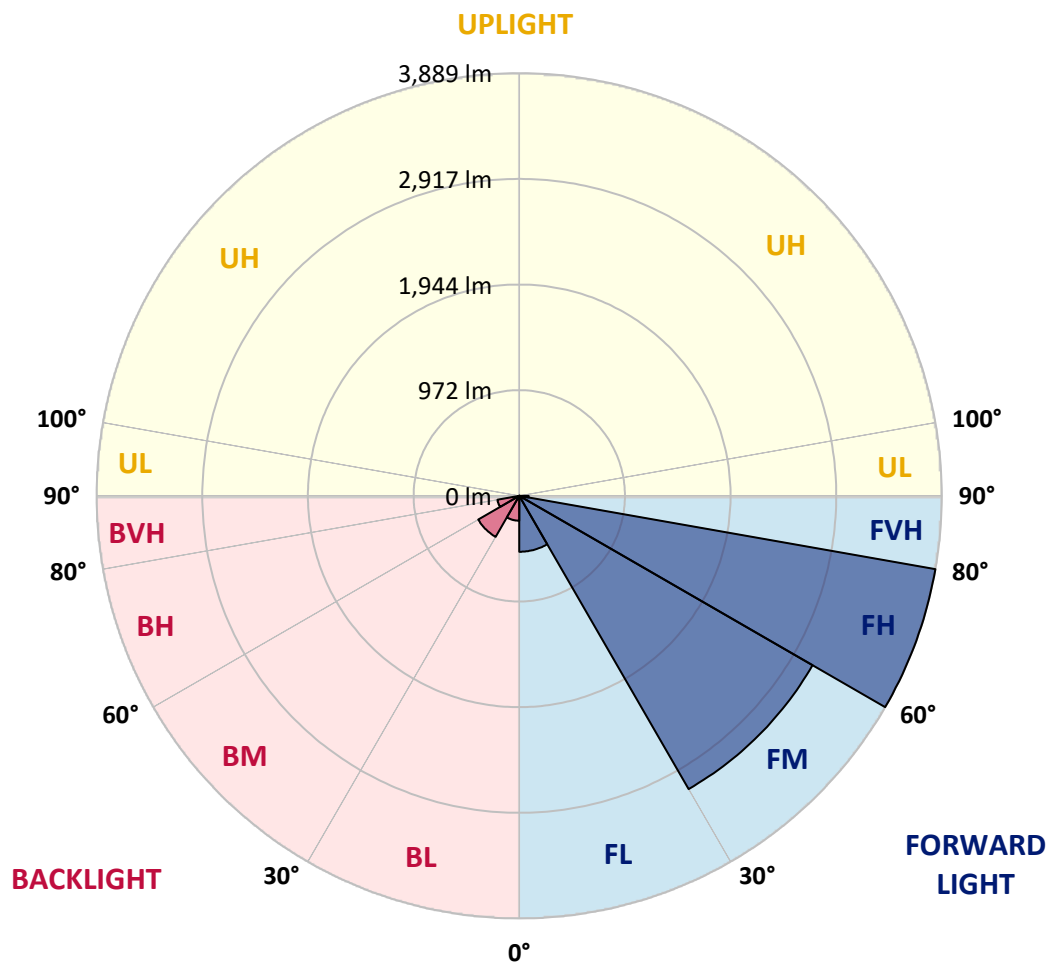
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	515.0	6.1			
FM	(30°-60°)	3116.4	36.8			
FH	(60°-80°)	3888.9	45.9			G2/5000
FVH	(80°-90°)	85.0	1.0			G1/100
BL	(0°-30°)	229.2	2.7	B1/500		
BM	(30°-60°)	435.9	5.1	B1/1000		
BH	(60°-80°)	203.9	2.4	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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	849.2	849.2	849.2	849.2	849.2	849.2	849.2	849.2	849.2	849.2	849.2
2.5°	943.3	942.1	936.6	934.2	920.7	912.7	909.6	899.6	885.3	871.0	855.1
5°	1050.6	1050.2	1039.9	1030.0	1004.5	980.7	976.3	953.3	921.1	890.9	860.7
7.5°	1160.3	1155.1	1144.8	1125.7	1088.8	1050.6	1047.0	1014.5	968.8	925.1	881.7
10°	1253.3	1250.1	1236.6	1207.6	1164.3	1121.0	1116.6	1076.5	1024.8	971.2	915.9
12.5°	1325.6	1323.2	1305.3	1269.2	1223.1	1178.2	1172.2	1136.5	1081.2	1021.2	956.1
15°	1369.7	1368.5	1346.7	1308.1	1262.8	1223.9	1218.7	1187.3	1136.1	1073.3	999.8
17.5°	1380.0	1380.4	1357.8	1318.8	1281.5	1253.7	1249.7	1225.9	1182.9	1120.6	1043.5
20°	1357.0	1361.8	1341.5	1307.7	1284.7	1270.0	1266.8	1252.5	1216.3	1157.5	1078.4
22.5°	1324.4	1326.8	1312.9	1290.2	1280.7	1283.5	1281.9	1273.9	1243.3	1189.3	1113.0
25°	1304.5	1304.5	1296.2	1277.1	1283.5	1300.6	1301.0	1299.4	1275.1	1228.2	1155.1
27.5°	1303.7	1301.4	1291.8	1277.5	1295.0	1321.2	1322.8	1333.5	1318.4	1275.5	1207.6
30°	1335.5	1332.8	1312.5	1293.8	1316.1	1344.3	1348.3	1371.7	1364.1	1326.8	1266.0
32.5°	1409.8	1399.9	1355.0	1324.4	1341.1	1374.9	1380.0	1417.4	1429.3	1390.0	1322.4
35°	1511.6	1480.2	1415.4	1382.4	1384.0	1419.4	1424.1	1479.0	1514.3	1448.0	1366.1
37.5°	1651.8	1636.3	1531.0	1442.8	1450.0	1503.6	1517.5	1577.1	1567.2	1479.8	1415.8
40°	1959.4	1935.2	1823.1	1612.1	1513.2	1572.0	1576.3	1608.1	1608.9	1551.7	1519.1
42.5°	2378.2	2368.3	2250.3	1919.3	1637.5	1617.7	1625.6	1679.3	1739.3	1703.5	1701.9
45°	2841.9	2836.8	2711.6	2327.0	1889.1	1767.5	1777.4	1849.3	1964.2	1972.1	2022.6
47.5°	3215.1	3212.7	3140.8	2781.9	2274.1	2021.4	2024.6	2100.9	2302.7	2402.5	2483.1
50°	3555.2	3566.7	3509.9	3274.3	2798.6	2419.1	2411.6	2462.5	2786.7	2950.0	3050.2
52.5°	4028.1	4044.4	3885.0	3733.6	3349.0	2912.7	2906.7	2960.0	3368.4	3490.8	3508.7
55°	4445.7	4417.9	4291.9	4248.2	4020.1	3522.2	3520.6	3567.5	3931.1	3983.2	4016.1
57.5°	4630.1	4619.3	4680.1	4780.3	4723.0	4242.6	4239.1	4203.3	4434.6	4440.1	4541.5
60°	4746.5	4759.6	4946.0	5254.7	5397.4	5017.9	4994.8	4776.7	4915.4	4903.1	5011.5
62.5°	4659.1	4684.9	5020.3	5534.9	5902.0	5694.6	5662.0	5302.0	5326.2	5283.7	5384.7
65°	4195.0	4235.1	4784.6	5482.0	6152.4	6223.5	6190.5	5765.7	5652.5	5582.5	5526.5
67.5°	3406.2	3430.0	4003.8	5022.3	6039.5	6539.0	6532.2	6172.2	5898.8	5532.1	5097.4
69°	2814.9	2838.4	3390.7	4538.3	5791.2	6606.5	6619.7	6302.6	5852.0	5225.3	4516.4
70°	2384.2	2409.2	2923.8	4123.4	5503.1	6575.2	6598.6	6290.2	5717.6	4870.1	4006.6
72.5°	1250.5	1272.0	1800.1	2840.7	4486.2	6037.5	6108.7	5758.6	4846.6	3536.9	2369.1
75°	393.0	405.3	702.9	1484.9	3071.6	4694.4	4710.7	4517.2	3441.6	1945.5	986.7
77.5°	149.8	146.2	234.0	547.2	1552.9	2956.0	3055.7	2822.9	1806.0	687.8	227.7
80°	80.7	81.1	121.6	226.5	664.4	1519.1	1603.4	1368.1	641.7	214.6	52.5
82.5°	35.0	36.6	68.3	120.0	305.2	560.3	602.4	501.5	245.2	144.2	19.5
85°	7.5	8.3	33.0	65.2	124.4	157.4	164.9	162.5	156.2	112.1	7.5
87.5°	0.0	0.0	14.7	23.4	31.4	35.8	31.4	40.9	86.2	75.5	4.0
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°	849.2	849.2	849.2	849.2	849.2	849.2	849.2	849.2	849.2	849.2	849.2
2.5°	850.0	842.8	830.5	817.0	807.4	797.5	789.6	786.0	782.0	779.2	782.8
5°	848.4	834.5	810.6	787.6	770.9	757.4	746.2	741.9	737.5	734.3	733.9
7.5°	862.3	842.8	806.2	772.5	746.6	728.4	713.3	706.9	701.7	699.4	697.4
10°	888.9	863.9	815.0	770.9	737.5	706.5	673.9	648.9	632.6	625.1	622.3
12.5°	923.5	892.1	831.7	779.2	730.7	671.1	602.0	542.4	503.9	491.1	483.6
15°	964.0	925.1	853.5	790.0	706.1	597.2	480.0	402.1	366.4	359.2	351.3
17.5°	1002.9	960.0	879.8	791.9	652.1	477.2	351.7	298.8	284.9	289.7	290.9
20°	1037.1	994.6	905.6	774.5	553.9	358.0	272.2	259.1	264.2	273.4	275.0
22.5°	1071.7	1028.0	929.4	728.4	428.4	271.8	245.2	248.4	253.5	262.7	264.2
25°	1113.8	1068.5	951.7	643.7	321.5	231.3	232.9	237.6	242.8	251.1	251.9
27.5°	1162.3	1119.8	966.4	533.7	238.4	212.6	217.8	224.9	230.1	238.0	239.6
30°	1226.7	1187.3	971.2	419.6	199.9	195.9	198.3	207.0	214.6	221.7	222.9
32.5°	1287.1	1254.1	955.3	316.7	185.2	180.4	180.4	185.6	194.3	201.1	202.7
35°	1342.7	1321.2	904.4	231.7	174.0	166.1	162.1	162.1	167.7	173.2	174.8
37.5°	1416.2	1415.4	822.1	184.8	163.3	154.2	145.8	139.5	137.5	138.7	139.5
40°	1542.2	1543.4	714.9	165.7	154.2	141.9	129.1	117.6	106.9	103.3	102.9
42.5°	1738.9	1721.0	602.4	156.6	146.2	129.1	110.1	94.6	77.9	72.7	72.3
45°	2051.2	1945.1	483.2	148.2	137.9	114.8	91.0	69.9	56.4	52.5	52.5
47.5°	2506.2	2239.5	374.3	139.1	126.8	98.5	68.7	50.5	41.3	39.3	39.7
50°	2976.6	2528.0	286.9	127.6	113.2	81.5	50.9	36.6	31.4	31.4	31.8
52.5°	3393.9	2739.4	223.7	115.2	96.6	64.0	38.5	28.6	26.2	25.8	26.2
55°	3784.5	2875.7	171.3	100.9	76.7	47.7	29.4	23.4	21.9	21.1	20.7
57.5°	4161.2	2943.3	128.3	81.5	55.6	34.6	23.4	19.9	18.3	17.1	16.7
60°	4411.9	2888.4	88.2	60.0	38.5	25.0	19.5	17.1	15.1	13.9	13.5
62.5°	4553.4	2738.6	56.8	43.3	27.4	18.7	15.5	14.3	11.5	10.3	10.3
65°	4496.2	2491.5	39.7	31.0	19.9	13.9	11.5	11.5	8.3	6.8	6.4
67.5°	3984.4	2104.8	30.2	23.0	14.3	10.3	8.7	9.9	5.2	3.2	3.2
69°	3428.0	1744.4	25.8	19.1	11.9	8.3	7.5	9.1	3.6	2.4	2.0
70°	2979.4	1504.8	23.4	16.7	9.9	7.2	6.8	8.7	3.6	2.0	1.6
72.5°	1782.6	839.2	17.9	11.9	6.4	5.6	5.6	9.9	3.6	2.0	1.6
75°	720.4	295.6	13.1	8.3	4.8	4.8	6.8	12.7	3.2	1.6	1.2
77.5°	163.3	64.8	7.5	5.2	3.2	4.8	7.9	9.9	2.0	0.8	0.0
80°	39.7	15.9	4.8	3.2	2.0	3.6	6.0	5.6	0.4	0.0	0.0
82.5°	13.1	5.6	2.0	1.6	0.4	1.2	2.8	1.6	0.0	0.0	0.0
85°	5.6	3.2	0.8	0.4	0.0	0.0	0.4	0.0	0.0	0.0	0.0
87.5°	3.6	1.2	0.0	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)