

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: P459663

Luminaire Tested: **GAN-SA9A-AMB-U-SL4**

Issue Date: 1/6/2021

Test Information

Test Method: LM-79-08
Report Number: P459663
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2003-697-18)
Test Lab: INNOVATION CENTER
Issue Date: 1/6/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA9A-AMB-U-SL4
Description: GALLEON ROADWAY AND AREA LUMINAIRE
(9) NARROW BAND AMBER, 500mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8630 lumens
Efficiency: N/A
Efficacy: 48.3 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium - Non-Cutoff
BUG Rating: B1 - U0 - G3

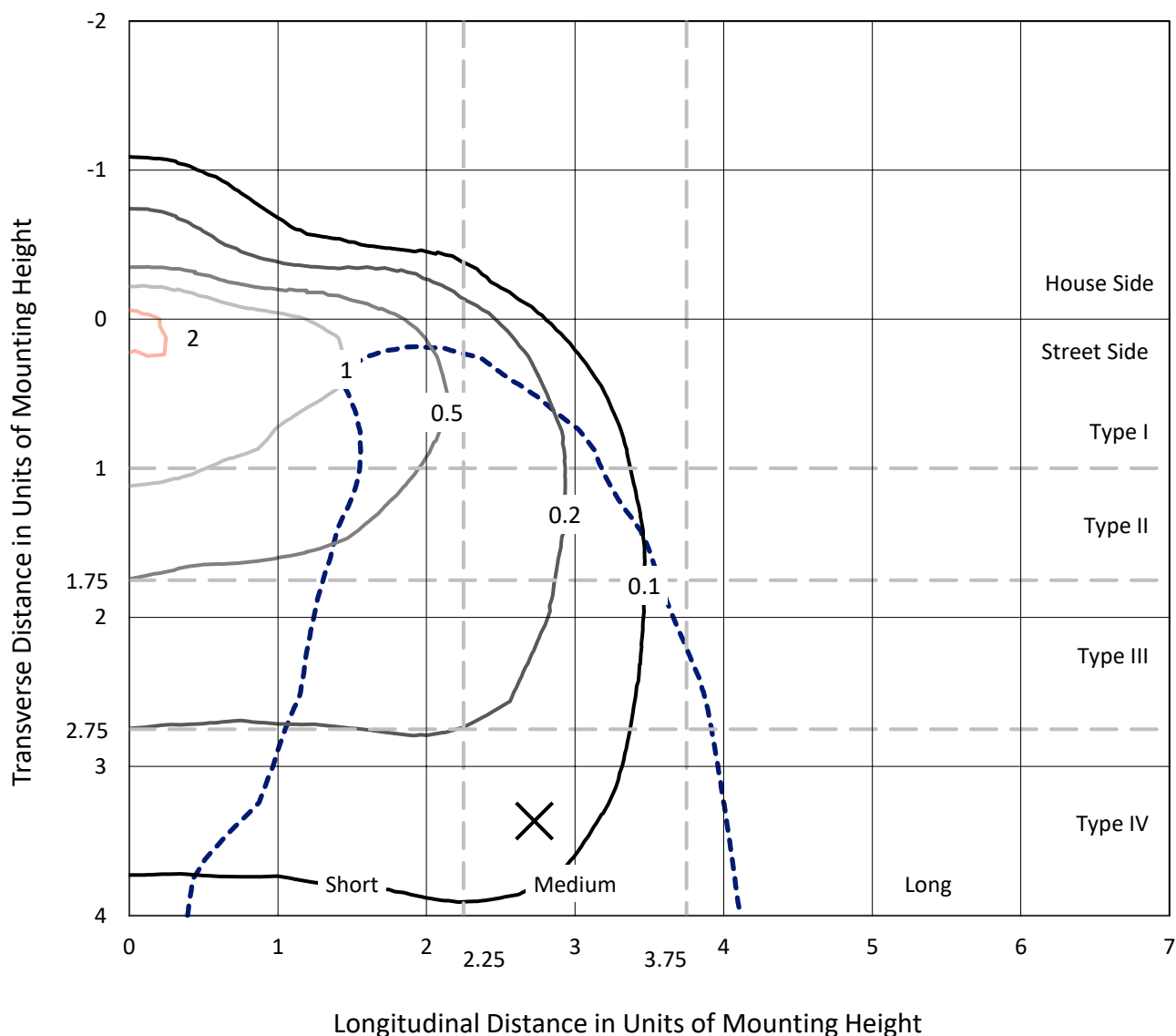
Input Watts (W): 178.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

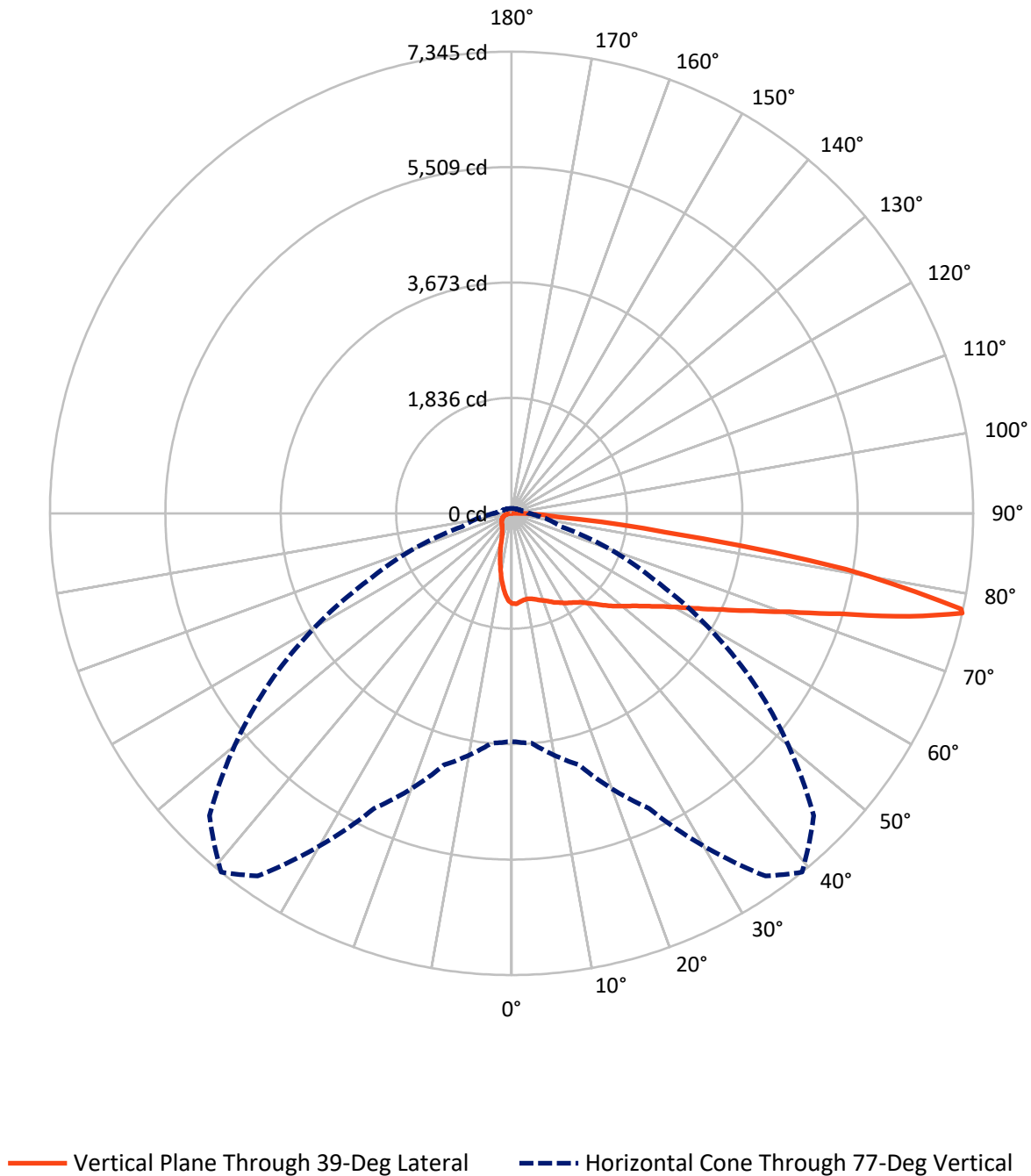
× Max cd
 --- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.3 fc
 Type IV - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



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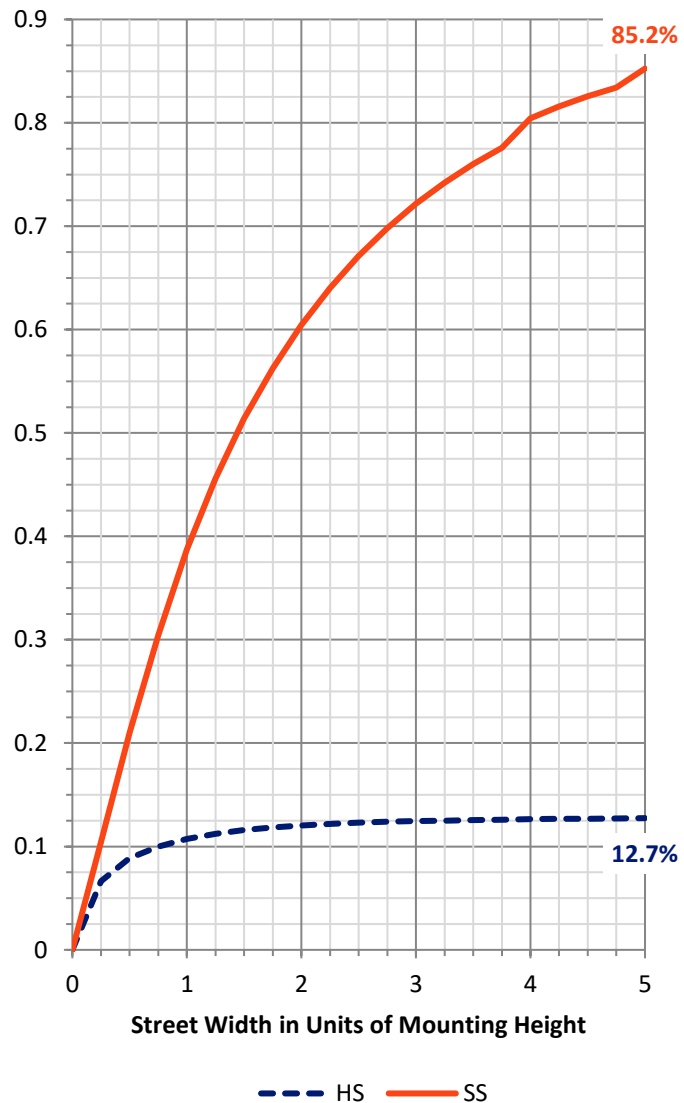
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1113.4	0.0	1113.4
	% Fixture	12.9	0.0	12.9
Street Side	Lumens	7516.6	0.0	7516.6
	% Fixture	87.1	0.0	87.1
Total	Lumens	8630.0	0.0	8630.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	125.2	1.5
10°-20°	314.3	3.6
20°-30°	480.2	5.6
30°-40°	690.6	8.0
40°-50°	1002.6	11.6
50°-60°	1439.0	16.7
60°-70°	1982.0	23.0
70°-80°	2138.6	24.8
80°-90°	457.5	5.3
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°	8630.0	100.0
0°-180°	8630.0	100.0

Coefficient of Utilization



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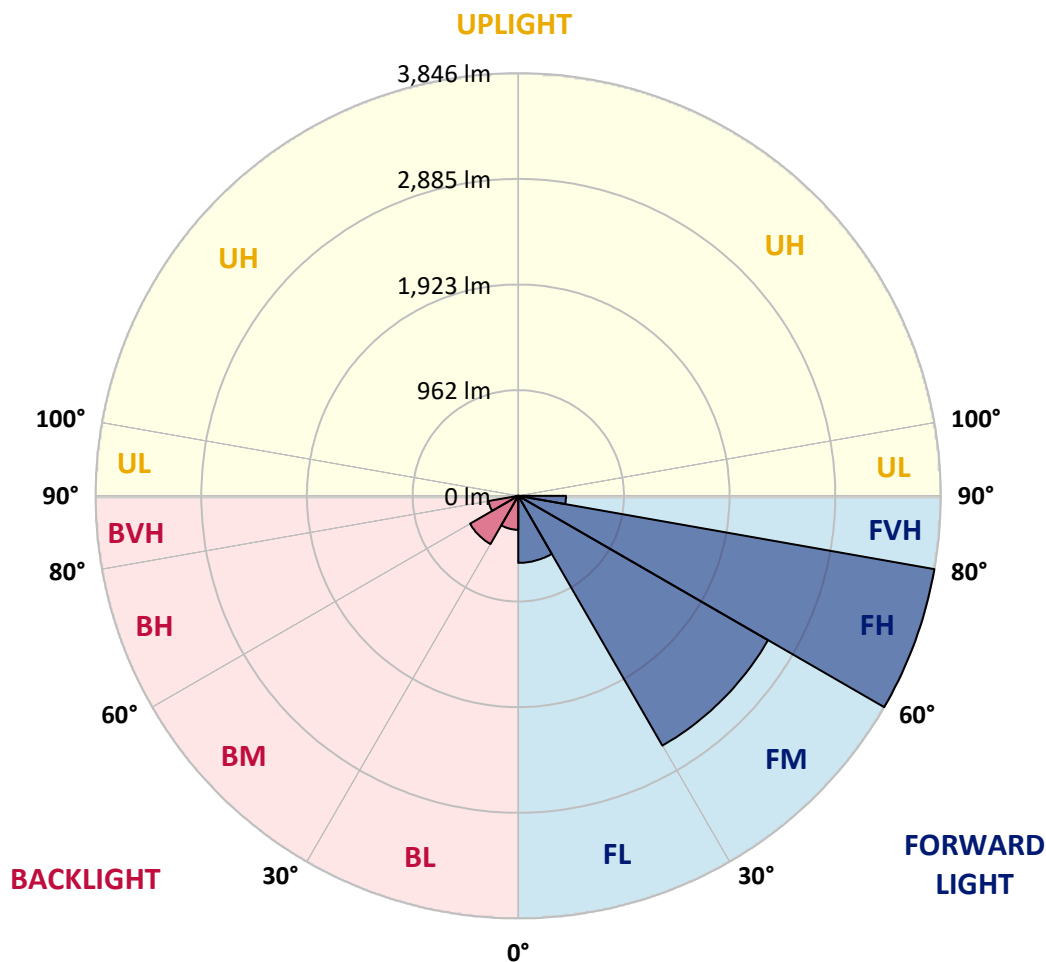
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	610.4	7.1			
FM	(30°-60°)	2625.4	30.4			
FH	(60°-80°)	3846.3	44.6			G2/5000
FVH	(80°-90°)	434.5	5.0			G3/500
BL	(0°-30°)	309.3	3.6	B1/500		
BM	(30°-60°)	506.7	5.9	B1/1000		
BH	(60°-80°)	274.3	3.2	B1/500		G1/500
BVH	(80°-90°)	23.0	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G3

Type IV Medium



Cooper Lighting Solutions Photometric Lab

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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	1434.1	1434.1	1434.1	1434.1	1434.1	1434.1	1434.1	1434.1	1434.1	1434.1	1434.1
2.5°	1449.6	1438.0	1438.0	1449.6	1441.9	1441.9	1434.1	1441.9	1434.1	1426.4	1434.1
5°	1430.2	1422.5	1418.6	1430.2	1422.5	1414.7	1422.5	1418.6	1414.7	1399.2	1399.2
7.5°	1395.3	1387.6	1387.6	1399.2	1403.1	1391.5	1395.3	1399.2	1387.6	1372.1	1376.0
10°	1364.3	1360.5	1368.2	1383.7	1391.5	1383.7	1391.5	1387.6	1372.1	1356.6	1352.7
12.5°	1341.1	1337.2	1348.8	1379.8	1395.3	1395.3	1399.2	1387.6	1376.0	1356.6	1341.1
15°	1325.6	1325.6	1348.8	1387.6	1410.9	1418.6	1422.5	1414.7	1387.6	1360.5	1341.1
17.5°	1333.3	1329.5	1360.5	1407.0	1434.1	1453.5	1453.5	1441.9	1407.0	1372.1	1348.8
20°	1352.7	1345.0	1383.7	1441.9	1476.7	1480.6	1488.4	1465.1	1430.2	1391.5	1364.3
22.5°	1360.5	1379.8	1422.5	1488.4	1507.8	1519.4	1519.4	1496.1	1445.7	1418.6	1387.6
25°	1422.5	1426.4	1476.7	1534.9	1554.3	1569.8	1562.0	1511.6	1469.0	1453.5	1426.4
27.5°	1488.4	1492.2	1542.6	1585.3	1596.9	1608.5	1612.4	1542.6	1500.0	1496.1	1461.2
30°	1546.5	1562.0	1612.4	1643.4	1643.4	1655.0	1651.2	1589.1	1542.6	1550.4	1515.5
32.5°	1647.3	1643.4	1693.8	1697.7	1678.3	1697.7	1697.7	1627.9	1596.9	1631.8	1577.5
35°	1732.6	1748.1	1771.3	1751.9	1724.8	1740.3	1748.1	1682.2	1666.7	1736.4	1678.3
37.5°	1848.8	1837.2	1848.8	1814.0	1775.2	1794.6	1814.0	1755.8	1763.6	1864.3	1790.7
40°	1938.0	1918.6	1926.4	1879.8	1841.1	1879.8	1899.2	1845.0	1879.8	2042.6	1953.5
42.5°	2011.6	1996.1	1980.6	1953.5	1922.5	1972.9	2003.9	1961.2	2034.9	2240.3	2155.0
45°	2062.0	2050.4	2027.1	2023.3	2027.1	2089.1	2127.9	2093.0	2193.8	2488.4	2379.8
47.5°	2093.0	2081.4	2085.3	2093.0	2124.0	2205.4	2275.2	2240.3	2403.1	2748.1	2593.0
50°	2135.7	2116.3	2120.2	2186.0	2232.6	2317.8	2430.2	2414.7	2627.9	3023.3	2825.6
52.5°	2189.9	2158.9	2158.9	2275.2	2348.8	2445.7	2589.1	2608.5	2860.5	3306.2	3062.0
55°	2279.1	2240.3	2213.2	2372.1	2500.0	2604.7	2771.3	2856.6	3112.4	3600.8	3279.1
57.5°	2376.0	2337.2	2294.6	2496.1	2666.7	2790.7	2980.6	3104.7	3399.2	3864.3	3434.1
60°	2527.1	2457.4	2414.7	2655.0	2899.2	3027.1	3259.7	3418.6	3701.5	4104.7	3573.6
62.5°	2635.7	2581.4	2569.8	2856.6	3186.0	3333.3	3554.3	3720.9	3980.6	4337.2	3693.8
65°	2748.1	2717.1	2720.9	3073.6	3527.1	3689.9	3930.2	4108.5	4341.1	4550.4	3705.4
67.5°	2907.0	2876.0	2941.9	3337.2	3922.5	4135.7	4379.8	4534.9	4682.2	4585.3	3496.1
70°	3116.3	3077.5	3197.7	3655.0	4414.7	4689.9	4969.0	5135.7	4848.8	4465.1	2825.6
72.5°	3333.3	3306.2	3503.9	4108.5	5104.7	5457.4	5775.2	5682.2	4930.2	3829.5	1841.1
75°	3596.9	3604.7	3922.5	4693.8	6205.4	6542.6	6810.1	5891.5	4162.8	2263.6	701.6
77°	3627.9	3670.5	4143.4	5182.2	7042.6	7345.0	6798.4	4705.4	2503.9	810.1	395.3
77.5°	3500.0	3538.8	4093.0	5251.9	7143.4	7310.1	6585.3	4395.3	2007.8	651.2	348.8
80°	2608.5	2569.8	3174.4	4379.8	5740.3	5399.2	3941.9	1705.4	585.3	337.2	213.2
82.5°	1031.0	1100.8	1484.5	2158.9	2806.2	2465.1	1476.7	744.2	352.7	182.2	89.1
85°	476.7	511.6	558.1	573.6	724.8	748.1	554.3	689.9	255.8	85.3	54.3
87.5°	348.8	364.3	410.9	364.3	352.7	333.3	407.0	751.9	127.9	50.4	27.1
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°	1434.1	1434.1	1434.1	1434.1	1434.1	1434.1	1434.1	1434.1	1434.1	1434.1	1434.1
2.5°	1422.5	1410.9	1414.7	1410.9	1403.1	1395.3	1387.6	1379.8	1383.7	1383.7	1372.1
5°	1391.5	1376.0	1368.2	1348.8	1325.6	1302.3	1275.2	1255.8	1240.3	1232.6	1240.3
7.5°	1360.5	1341.1	1325.6	1279.1	1240.3	1174.4	1131.8	1073.6	1065.9	1058.1	1050.4
10°	1337.2	1321.7	1282.9	1220.9	1139.5	1062.0	965.1	903.1	864.3	841.1	848.8
12.5°	1321.7	1302.3	1240.3	1143.4	1038.8	922.5	814.0	732.6	686.0	655.0	647.3
15°	1317.8	1282.9	1193.8	1065.9	926.4	794.6	686.0	589.1	515.5	492.2	484.5
17.5°	1317.8	1271.3	1151.2	984.5	821.7	674.4	554.3	465.1	403.1	379.8	372.1
20°	1325.6	1267.4	1100.8	903.1	717.1	554.3	449.6	376.0	341.1	325.6	325.6
22.5°	1337.2	1263.6	1046.5	814.0	616.3	465.1	372.1	329.5	314.0	302.3	302.3
25°	1360.5	1259.7	1000.0	732.6	527.1	399.2	333.3	306.2	290.7	286.8	286.8
27.5°	1391.5	1263.6	953.5	655.0	445.7	352.7	306.2	290.7	282.9	279.1	279.1
30°	1422.5	1271.3	903.1	569.8	387.6	317.8	286.8	275.2	271.3	267.4	267.4
32.5°	1457.4	1279.1	845.0	500.0	345.0	290.7	271.3	263.6	263.6	259.7	255.8
35°	1515.5	1294.6	779.1	434.1	310.1	271.3	259.7	251.9	251.9	248.1	248.1
37.5°	1596.9	1314.0	713.2	387.6	286.8	255.8	244.2	244.2	240.3	240.3	236.4
40°	1717.1	1368.2	658.9	348.8	267.4	244.2	236.4	232.6	232.6	228.7	228.7
42.5°	1852.7	1434.1	608.5	321.7	255.8	232.6	224.8	224.8	224.8	220.9	217.1
45°	2011.6	1496.1	562.0	302.3	244.2	224.8	217.1	217.1	213.2	209.3	209.3
47.5°	2182.2	1573.6	531.0	290.7	240.3	220.9	213.2	205.4	205.4	201.6	201.6
50°	2352.7	1639.5	503.9	282.9	236.4	213.2	205.4	201.6	197.7	189.9	189.9
52.5°	2515.5	1709.3	496.1	275.2	228.7	209.3	197.7	193.8	189.9	182.2	182.2
55°	2655.0	1790.7	503.9	271.3	224.8	201.6	189.9	186.0	182.2	174.4	174.4
57.5°	2755.8	1833.3	507.8	271.3	220.9	189.9	178.3	182.2	174.4	170.5	170.5
60°	2860.5	1872.1	503.9	271.3	217.1	178.3	166.7	174.4	170.5	166.7	166.7
62.5°	2930.2	1856.6	484.5	271.3	213.2	170.5	158.9	170.5	174.4	166.7	170.5
65°	2829.5	1682.2	426.4	263.6	213.2	162.8	147.3	166.7	178.3	174.4	174.4
67.5°	2465.1	1271.3	356.6	248.1	205.4	158.9	135.7	151.2	166.7	162.8	166.7
70°	1748.1	767.4	294.6	220.9	186.0	151.2	127.9	127.9	131.8	135.7	139.5
72.5°	907.0	418.6	240.3	193.8	162.8	135.7	116.3	108.5	108.5	108.5	112.4
75°	399.2	275.2	197.7	158.9	135.7	116.3	104.7	93.0	93.0	89.1	89.1
77°	279.1	217.1	162.8	131.8	112.4	96.9	93.0	81.4	81.4	77.5	77.5
77.5°	251.9	201.6	158.9	124.0	108.5	93.0	89.1	77.5	77.5	77.5	77.5
80°	170.5	158.9	120.2	93.0	85.3	73.6	69.8	65.9	62.0	62.0	62.0
82.5°	100.8	116.3	85.3	65.9	62.0	54.3	50.4	50.4	50.4	46.5	42.6
85°	62.0	85.3	54.3	42.6	42.6	34.9	34.9	31.0	31.0	27.1	27.1
87.5°	27.1	54.3	31.0	19.4	15.5	11.6	15.5	11.6	11.6	7.8	11.6
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)