

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: P459630

Luminaire Tested: **GAN-SA5A-AMB-U-SL4-HSS**

Issue Date: 1/6/2021

Test Information

Test Method: LM-79-08
Report Number: P459630
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2003-697-9)
Test Lab: INNOVATION CENTER
Issue Date: 1/6/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA5A-AMB-U-SL4-HSS
Description: GALLEON ROADWAY AND AREA LUMINAIRE
(5) NARROW BAND AMBER, 500mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3942 lumens
Efficiency: N/A
Efficacy: 39.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium - Non-Cutoff
BUG Rating: B0 - U0 - G1

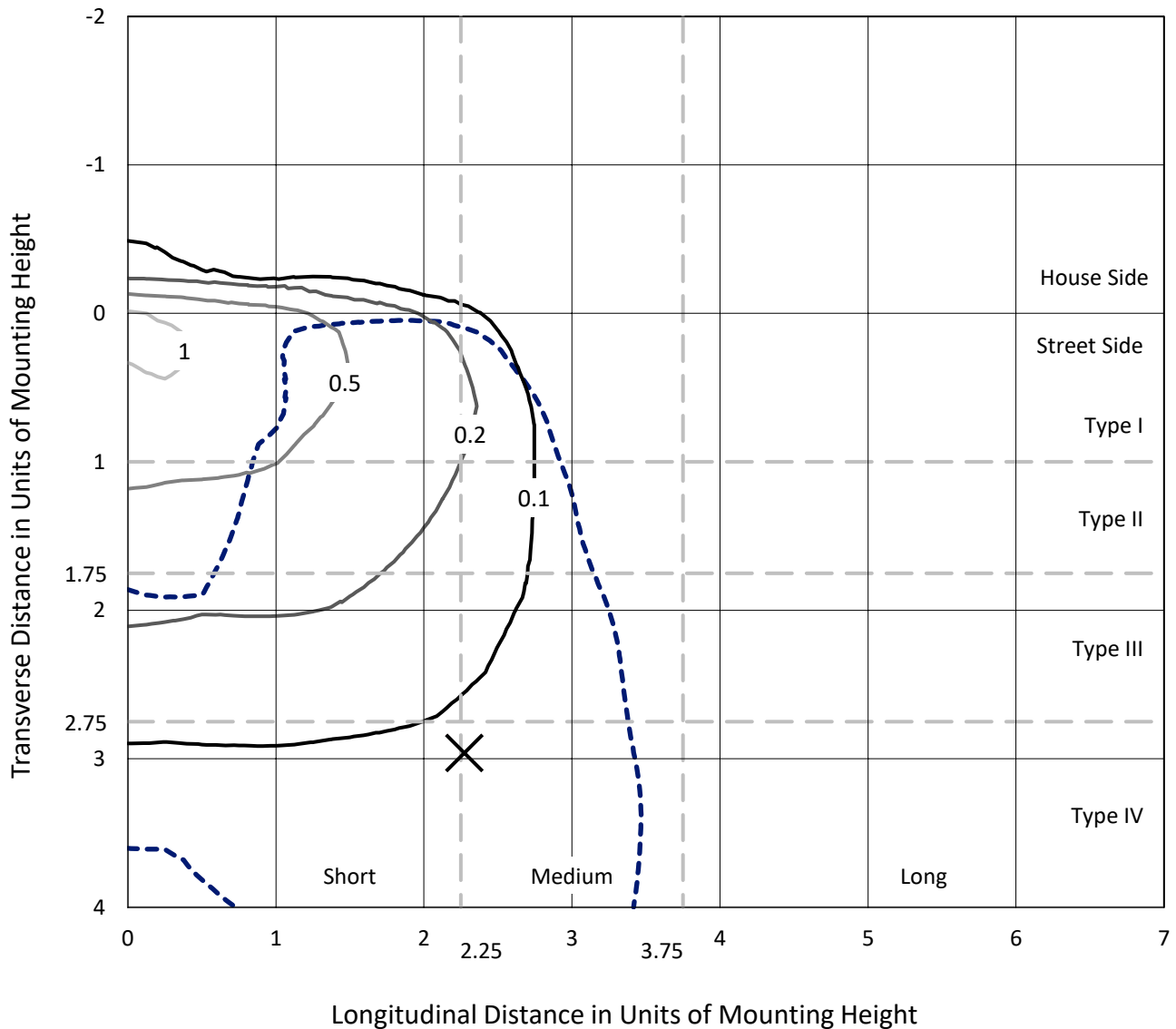
Input Watts (W): 101
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

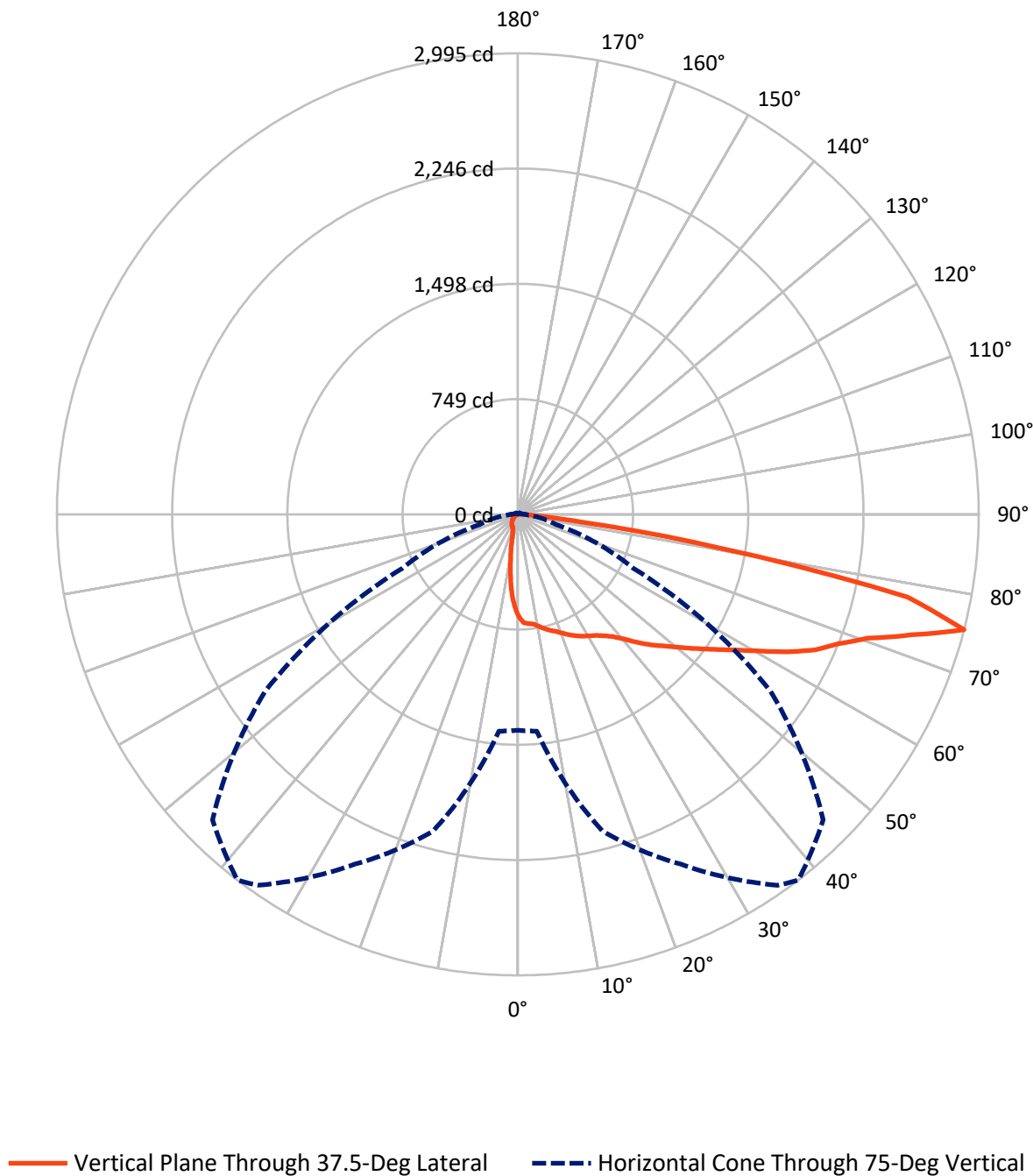
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.1 fc
Type IV - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



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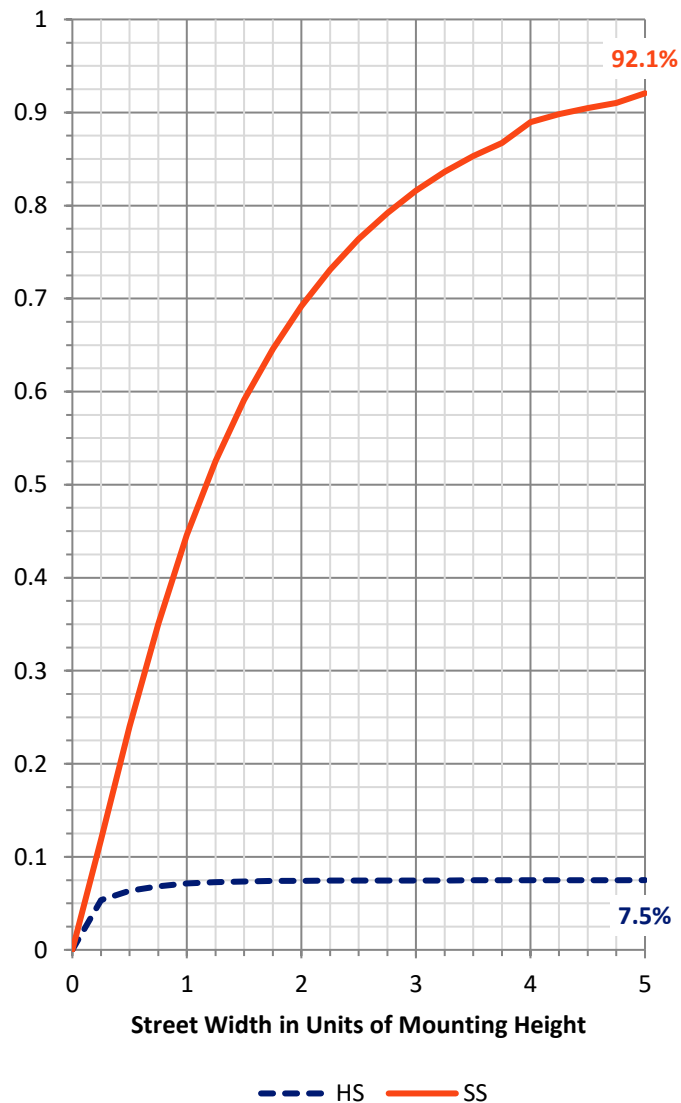
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	297.9	0.0	297.9
	% Fixture	7.6	0.0	7.6
Street Side	Lumens	3644.1	0.0	3644.1
	% Fixture	92.4	0.0	92.4
Total	Lumens	3942.0	0.0	3942.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	56.2	1.4
10°-20°	142.4	3.6
20°-30°	233.0	5.9
30°-40°	346.2	8.8
40°-50°	518.3	13.1
50°-60°	744.7	18.9
60°-70°	998.1	25.3
70°-80°	808.5	20.5
80°-90°	94.5	2.4
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°	3942.0	100.0
0°-180°	3942.0	100.0

Coefficient of Utilization



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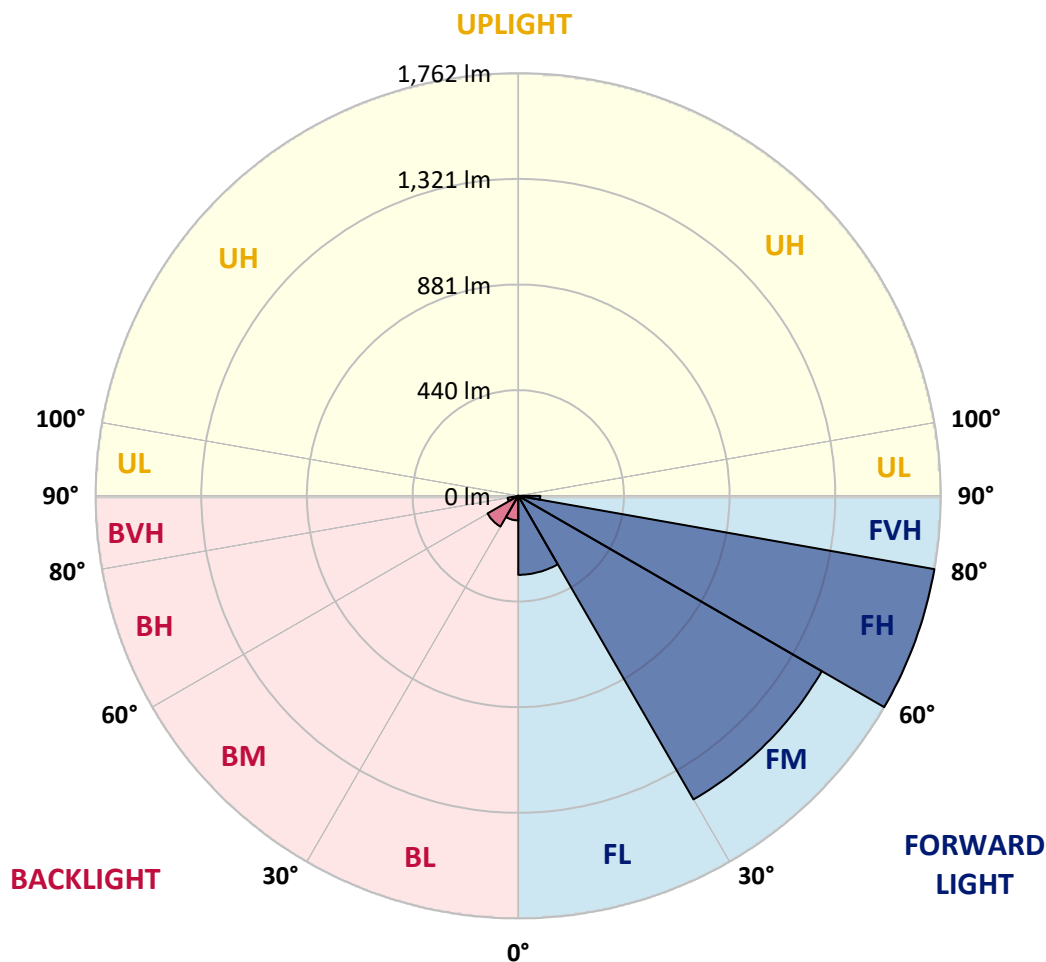
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	329.2	8.4			
FM	(30°-60°)	1461.3	37.1			
FH	(60°-80°)	1761.6	44.7			G1/1800
FVH	(80°-90°)	91.8	2.3			G1/100
BL	(0°-30°)	102.3	2.6	B0/110		
BM	(30°-60°)	148.0	3.8	B0/220		
BH	(60°-80°)	45.0	1.1	B0/110		G0/110
BVH	(80°-90°)	2.7	0.1			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G1

Type IV Medium



Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	37.5°	45°	55°	65°	75°	85°
0°	662.9	662.9	662.9	662.9	662.9	662.9	662.9	662.9	662.9	662.9	662.9
2.5°	713.5	711.3	711.3	706.9	704.7	704.7	695.9	693.7	684.9	676.1	665.1
5°	715.7	715.7	713.5	715.7	713.5	713.5	709.1	706.9	698.1	680.5	660.7
7.5°	729.0	726.8	724.6	724.6	720.1	720.1	709.1	704.7	695.9	684.9	656.3
10°	729.0	729.0	733.4	737.8	737.8	737.8	726.8	713.5	700.3	689.3	656.3
12.5°	726.8	726.8	733.4	748.8	759.8	762.0	755.4	737.8	715.7	695.9	665.1
15°	724.6	726.8	735.6	757.6	777.4	781.8	779.6	766.4	737.8	709.1	676.1
17.5°	729.0	733.4	744.4	775.2	797.2	799.4	801.6	792.8	762.0	726.8	693.7
20°	735.6	737.8	762.0	799.4	821.5	823.7	821.5	808.2	781.8	748.8	713.5
22.5°	746.6	751.0	781.8	823.7	847.9	850.1	843.5	821.5	792.8	766.4	735.6
25°	768.6	773.0	810.4	852.3	869.9	874.3	867.7	841.3	803.8	786.2	759.8
27.5°	795.0	801.6	841.3	880.9	891.9	896.3	889.7	858.9	819.2	812.6	790.6
30°	834.7	839.1	876.5	909.5	913.9	916.1	911.7	876.5	841.3	841.3	821.5
32.5°	883.1	889.7	913.9	938.2	936.0	938.2	936.0	898.5	867.7	885.3	858.9
35°	940.4	933.8	962.4	973.4	964.6	969.0	971.2	933.8	907.3	942.6	909.5
37.5°	984.4	984.4	999.8	1010.8	1004.2	1008.6	1015.3	980.0	962.4	1024.1	986.6
40°	1021.9	1021.9	1032.9	1054.9	1057.1	1065.9	1079.1	1037.3	1037.3	1118.8	1076.9
42.5°	1050.5	1054.9	1063.7	1092.3	1121.0	1136.4	1149.6	1107.7	1127.6	1239.9	1195.8
45°	1079.1	1083.5	1087.9	1129.8	1187.0	1209.1	1235.5	1195.8	1231.1	1367.6	1319.2
47.5°	1114.4	1114.4	1112.2	1178.2	1248.7	1277.3	1323.6	1290.5	1354.4	1524.0	1449.1
50°	1158.4	1154.0	1134.2	1228.9	1323.6	1358.8	1429.3	1396.2	1493.1	1686.9	1546.0
52.5°	1209.1	1198.0	1167.2	1281.7	1405.1	1449.1	1539.4	1517.4	1638.5	1816.9	1601.1
55°	1272.9	1255.3	1213.5	1345.6	1504.2	1548.2	1653.9	1667.1	1777.2	1891.8	1658.3
57.5°	1354.4	1321.4	1275.1	1424.9	1618.7	1660.5	1783.8	1812.5	1869.7	1964.4	1731.0
60°	1435.9	1400.7	1358.8	1532.8	1744.2	1801.5	1922.6	1933.6	1944.6	2065.7	1810.3
62.5°	1508.6	1488.7	1464.5	1653.9	1916.0	1966.6	2041.5	2026.1	2039.3	2184.7	1874.1
65°	1601.1	1581.2	1576.8	1792.7	2079.0	2123.0	2131.8	2138.4	2186.9	2301.4	1907.2
67.5°	1680.3	1673.7	1713.4	1957.8	2226.5	2244.1	2277.2	2314.6	2341.0	2354.2	1686.9
70°	1792.7	1781.6	1869.7	2123.0	2374.1	2411.5	2528.2	2565.7	2382.9	1929.2	1032.9
72.5°	1803.7	1823.5	2063.5	2294.8	2594.3	2675.8	2821.1	2620.7	1852.1	1035.1	321.5
75°	1402.9	1413.9	2131.8	2508.4	2942.2	2995.1	2805.7	2004.1	828.1	255.5	72.7
77.5°	781.8	823.7	1424.9	2327.8	2673.6	2589.9	1918.2	885.3	213.6	57.3	37.4
80°	572.6	592.4	687.1	1332.4	1513.0	1330.2	799.4	336.9	116.7	39.6	26.4
82.5°	169.6	182.8	354.6	429.4	535.2	425.0	240.0	257.7	74.9	28.6	22.0
85°	46.2	48.5	121.1	169.6	154.2	99.1	88.1	222.4	30.8	19.8	17.6
87.5°	22.0	22.0	37.4	74.9	63.9	52.9	72.7	129.9	6.6	6.6	4.4
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°	662.9	662.9	662.9	662.9	662.9	662.9	662.9	662.9	662.9	662.9	662.9
2.5°	658.5	654.1	636.5	627.7	618.8	603.4	594.6	588.0	585.8	581.4	583.6
5°	647.5	632.1	603.4	579.2	550.6	519.7	502.1	482.3	462.5	458.1	455.9
7.5°	638.7	616.6	572.6	526.3	477.9	425.0	376.6	345.8	314.9	310.5	308.3
10°	634.3	603.4	539.6	471.3	392.0	319.3	266.5	231.2	209.2	198.2	193.8
12.5°	634.3	596.8	513.1	416.2	314.9	235.6	182.8	147.6	132.1	125.5	123.3
15°	638.7	592.4	482.3	352.4	246.7	167.4	127.7	110.1	103.5	101.3	103.5
17.5°	649.7	592.4	453.7	297.3	187.2	123.3	101.3	99.1	96.9	96.9	96.9
20°	665.1	596.8	422.8	248.9	138.7	101.3	94.7	94.7	94.7	94.7	94.7
22.5°	682.7	599.0	387.6	202.6	112.3	92.5	90.3	90.3	90.3	90.3	90.3
25°	700.3	603.4	350.2	158.6	92.5	88.1	85.9	88.1	88.1	88.1	88.1
27.5°	722.3	607.8	312.7	125.5	85.9	83.7	83.7	83.7	83.7	83.7	83.7
30°	742.2	607.8	277.5	103.5	81.5	79.3	79.3	79.3	79.3	79.3	79.3
32.5°	766.4	605.6	240.0	85.9	77.1	74.9	72.7	74.9	74.9	74.9	72.7
35°	801.6	605.6	198.2	79.3	72.7	70.5	68.3	68.3	68.3	68.3	68.3
37.5°	847.9	614.4	156.4	72.7	66.1	63.9	63.9	63.9	61.7	61.7	61.7
40°	916.1	629.9	125.5	68.3	61.7	59.5	57.3	57.3	55.1	52.9	52.9
42.5°	997.6	647.5	103.5	63.9	57.3	55.1	52.9	50.7	48.5	46.2	46.2
45°	1079.1	660.7	81.5	59.5	52.9	50.7	48.5	46.2	41.8	39.6	37.4
47.5°	1165.0	660.7	66.1	55.1	50.7	46.2	44.0	39.6	35.2	30.8	30.8
50°	1215.7	636.5	59.5	50.7	46.2	41.8	39.6	33.0	28.6	24.2	24.2
52.5°	1244.3	603.4	55.1	46.2	44.0	39.6	33.0	28.6	22.0	17.6	17.6
55°	1268.5	588.0	50.7	44.0	39.6	35.2	28.6	22.0	15.4	13.2	13.2
57.5°	1299.3	563.8	46.2	39.6	35.2	30.8	24.2	17.6	11.0	8.8	8.8
60°	1325.8	530.7	41.8	37.4	33.0	26.4	19.8	13.2	6.6	4.4	4.4
62.5°	1339.0	480.1	37.4	33.0	28.6	22.0	15.4	8.8	4.4	2.2	2.2
65°	1301.5	403.0	35.2	28.6	24.2	17.6	11.0	4.4	2.2	0.0	0.0
67.5°	1063.7	259.9	28.6	24.2	19.8	13.2	8.8	4.4	2.2	0.0	0.0
70°	546.2	110.1	24.2	19.8	17.6	11.0	6.6	2.2	0.0	0.0	0.0
72.5°	143.1	39.6	19.8	17.6	15.4	11.0	4.4	2.2	0.0	0.0	0.0
75°	44.0	26.4	15.4	13.2	13.2	8.8	4.4	2.2	0.0	0.0	0.0
77.5°	30.8	19.8	13.2	11.0	11.0	8.8	4.4	2.2	0.0	0.0	0.0
80°	24.2	17.6	11.0	8.8	11.0	11.0	4.4	2.2	0.0	0.0	0.0
82.5°	19.8	15.4	8.8	8.8	11.0	11.0	6.6	2.2	0.0	0.0	0.0
85°	15.4	11.0	8.8	8.8	11.0	8.8	4.4	2.2	0.0	0.0	0.0
87.5°	4.4	4.4	2.2	2.2	2.2	4.4	4.4	2.2	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)