

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: P453028

Luminaire Tested: **GLAN-SA4A-730-U-T4FT-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P453028
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-29)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA4A-730-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11864 lumens
Efficiency: N/A
Efficacy: 98.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

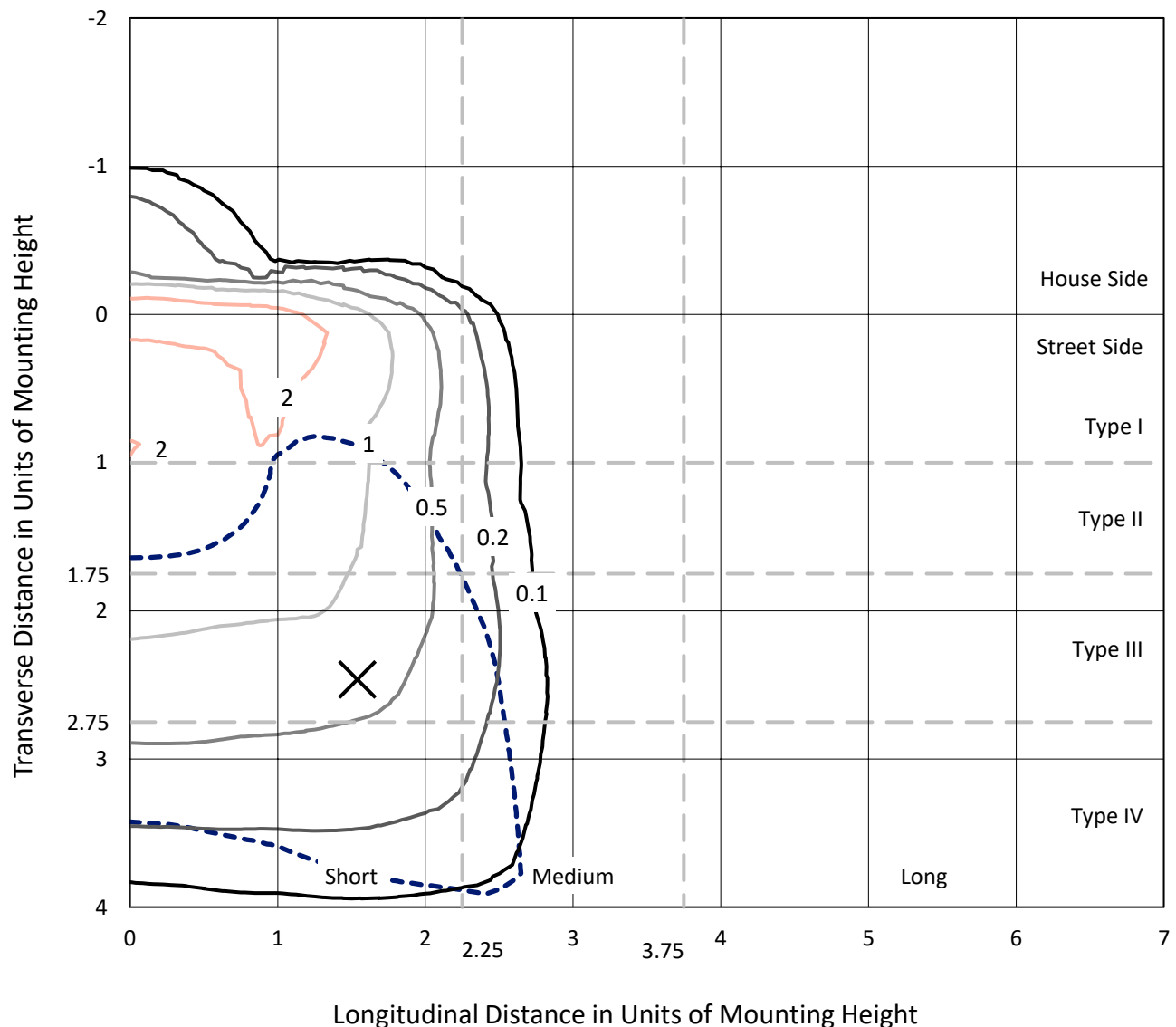
Input Watts (W): 121
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

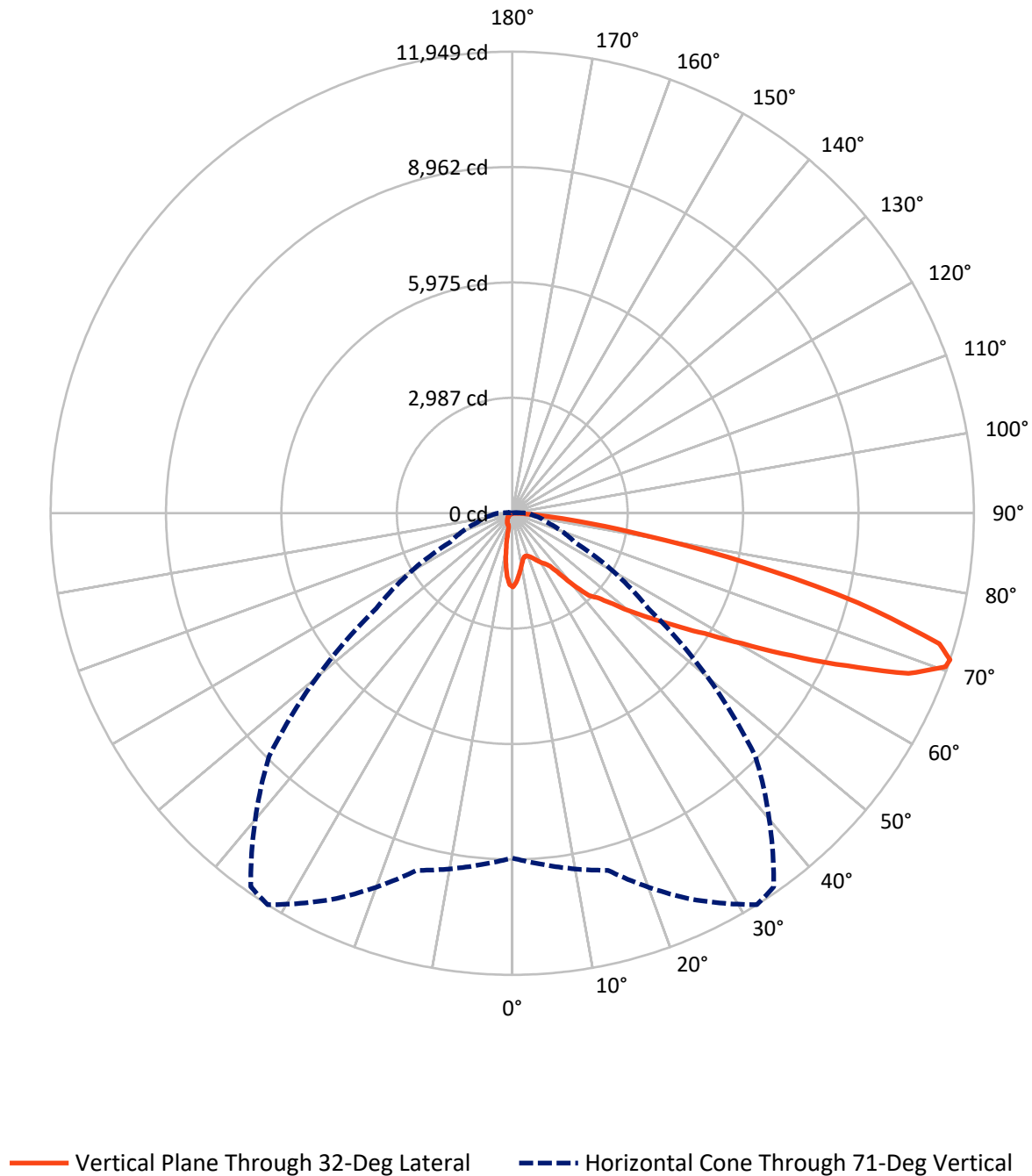
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.1 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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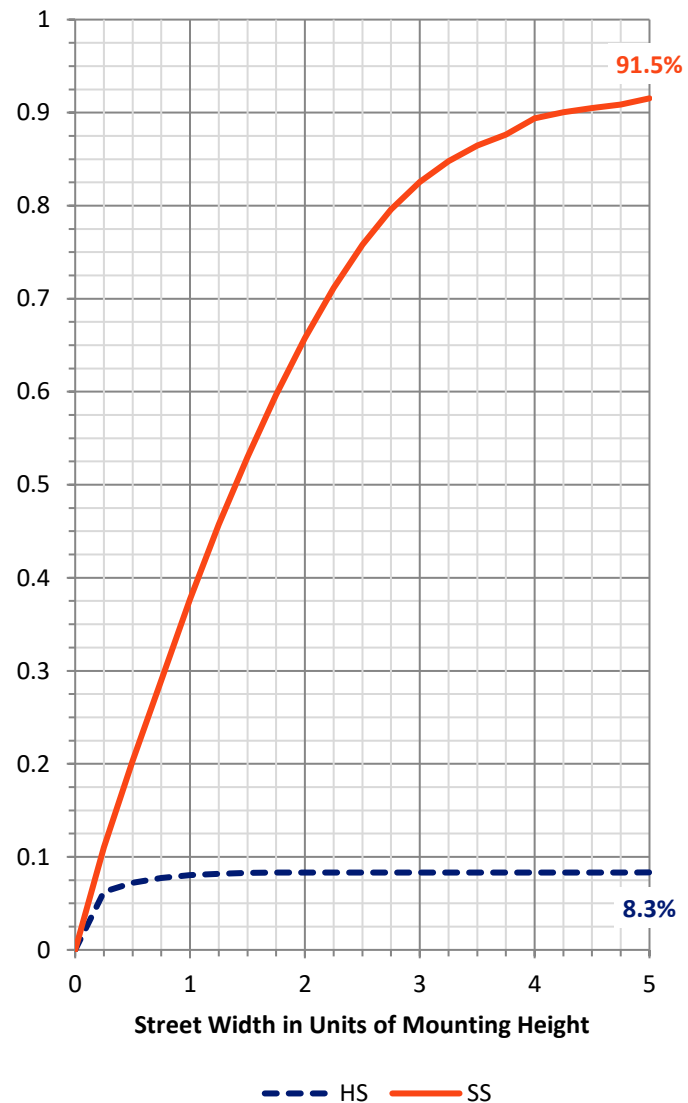
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	993.7	0.0	993.7
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	10870.3	0.0	10870.3
	% Fixture	91.6	0.0	91.6
Total	Lumens	11864.0	0.0	11864.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	155.1	1.3
10°-20°	336.7	2.8
20°-30°	523.8	4.4
30°-40°	872.7	7.4
40°-50°	1623.3	13.7
50°-60°	2606.2	22.0
60°-70°	3505.5	29.5
70°-80°	2079.9	17.5
80°-90°	160.8	1.4
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°	11864.0	100.0
0°-180°	11864.0	100.0

Coefficient of Utilization



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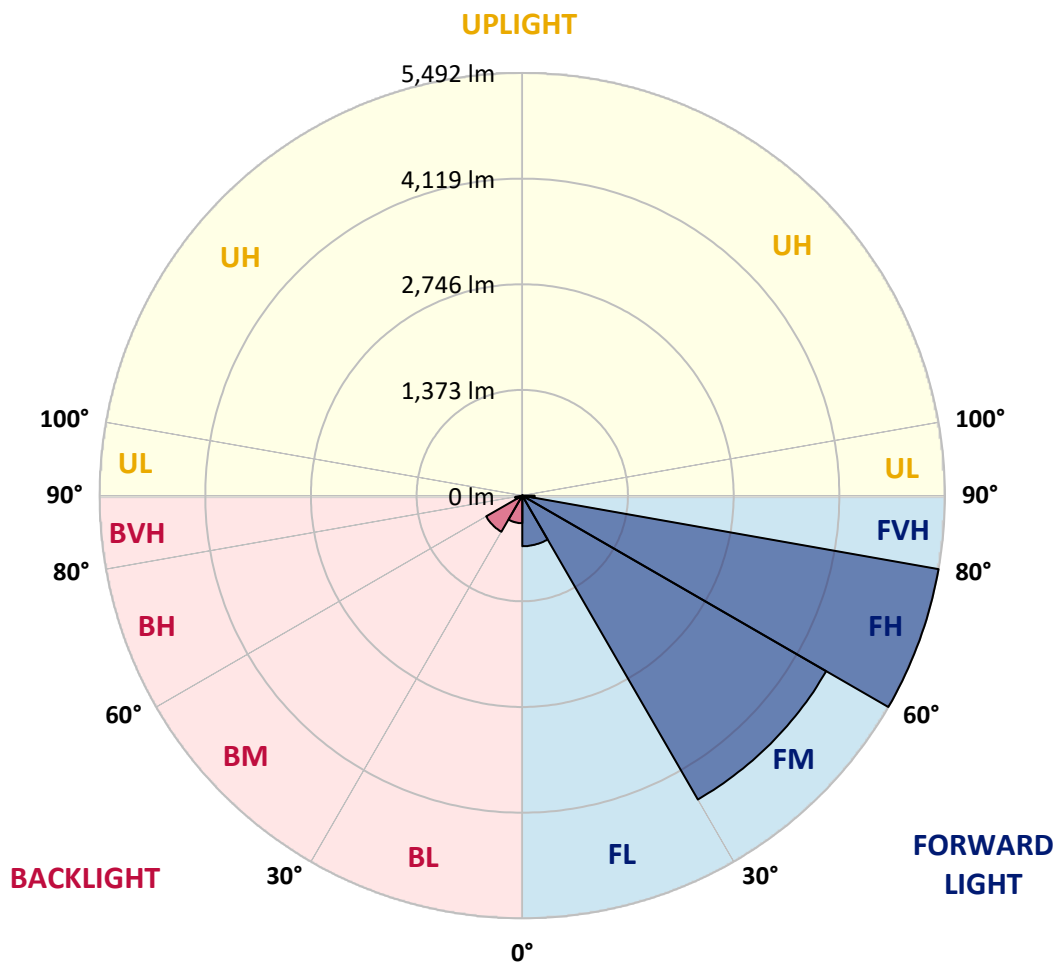
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	657.6	5.5			
FM	(30°-60°)	4560.1	38.4			
FH	(60°-80°)	5492.5	46.3			G3/7500
FVH	(80°-90°)	160.1	1.3			G2/225
BL	(0°-30°)	358.1	3.0	B1/500		
BM	(30°-60°)	542.1	4.6	B1/1000		
BH	(60°-80°)	92.9	0.8	B0/110		G0/110
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-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	32°	35°	45°	55°	65°	75°	85°
0°	1907.9	1907.9	1907.9	1907.9	1907.9	1907.9	1907.9	1907.9	1907.9	1907.9	1907.9
2.5°	1769.5	1787.7	1785.0	1791.3	1806.8	1813.2	1830.5	1849.6	1876.0	1894.3	1906.1
5°	1584.6	1598.3	1600.1	1632.0	1647.5	1664.8	1715.8	1771.3	1833.2	1882.4	1915.2
7.5°	1387.0	1394.3	1408.9	1450.7	1489.9	1507.2	1584.6	1681.2	1778.6	1870.6	1929.8
10°	1224.0	1232.2	1258.6	1303.2	1339.6	1362.4	1469.9	1591.0	1727.6	1864.2	1950.7
12.5°	1131.1	1135.6	1145.7	1185.7	1232.2	1256.8	1372.4	1510.9	1686.6	1866.9	1986.2
15°	1124.7	1122.9	1111.1	1127.4	1169.3	1194.8	1307.8	1456.2	1650.2	1876.0	2028.1
17.5°	1158.4	1153.9	1125.6	1125.6	1160.2	1181.2	1280.4	1427.1	1632.0	1897.0	2087.3
20°	1210.3	1203.0	1156.6	1152.9	1186.6	1208.5	1296.8	1428.9	1635.6	1936.1	2166.6
22.5°	1275.9	1267.7	1197.6	1199.4	1235.8	1257.7	1344.2	1461.7	1658.4	1984.4	2251.3
25°	1361.5	1352.4	1269.5	1265.9	1304.1	1323.2	1414.3	1520.0	1690.3	2044.5	2362.4
27.5°	1475.3	1456.2	1356.9	1351.5	1392.5	1417.0	1499.0	1598.3	1746.7	2127.4	2511.7
30°	1569.1	1548.2	1453.5	1438.9	1482.6	1501.7	1586.4	1703.9	1857.8	2272.2	2718.4
32.5°	1692.1	1661.1	1550.0	1511.8	1558.2	1582.8	1713.0	1900.6	2022.7	2425.2	2964.3
35°	1968.9	1949.8	1814.1	1680.2	1677.5	1708.5	1899.7	2099.2	2192.1	2663.8	3299.5
37.5°	2365.1	2351.4	2207.5	2028.1	1976.2	1961.6	2126.5	2317.7	2462.5	2991.6	3689.2
40°	2825.0	2793.1	2661.1	2509.0	2441.6	2398.8	2394.2	2642.9	2815.9	3437.0	4095.4
42.5°	3154.7	3096.4	2936.1	2925.2	2910.6	2866.0	2736.7	3118.2	3272.1	3916.0	4529.8
45°	3500.7	3412.4	3173.8	3132.8	3127.3	3124.6	3253.9	3681.0	3769.4	4435.1	4976.1
47.5°	3769.4	3699.3	3503.5	3485.2	3508.0	3569.9	3937.9	4278.5	4260.3	4897.7	5350.4
50°	4127.3	4074.5	3856.8	3891.4	4008.9	4110.0	4709.2	4929.6	4663.7	5262.0	5622.7
52.5°	4549.9	4452.4	4250.2	4344.0	4524.4	4692.8	5527.9	5499.7	4946.9	5536.1	5825.7
55°	4916.0	4846.7	4777.5	4875.0	5144.5	5354.9	6267.4	5926.8	5152.7	5756.5	5915.0
57.5°	5535.2	5518.8	5447.8	5547.1	5874.0	6092.6	6929.5	6258.3	5284.8	5871.3	5810.3
60°	6451.4	6425.0	6292.9	6419.5	6845.7	7189.1	7539.7	6556.1	5314.8	5826.7	5508.8
62.5°	7553.3	7463.2	7350.3	7537.0	8121.6	8272.8	8114.3	6732.8	5202.8	5471.5	4782.1
65°	8582.4	8489.5	8492.3	8885.7	9522.3	9625.2	8784.6	6706.4	4875.0	4581.7	3527.1
67.5°	9370.2	9354.7	9465.8	10233.5	11065.9	10994.9	9383.9	6311.2	3903.3	2969.8	1874.2
70°	9410.3	9440.3	9759.1	11055.0	11900.1	11787.2	9332.9	5130.0	2433.4	1366.1	738.6
71°	8925.8	9127.9	9568.7	11029.5	11949.3	11802.7	8903.0	4296.7	1785.0	952.6	532.8
72.5°	7606.2	7712.7	8665.3	10380.2	11560.4	11247.1	7812.9	3011.7	1142.9	582.8	306.0
75°	4189.2	4451.5	5803.0	8143.5	9246.3	8971.3	5091.7	1430.7	570.1	318.7	126.6
77.5°	1994.4	1943.4	2831.4	4843.1	6269.3	6254.7	2565.4	635.7	332.4	215.8	63.7
80°	570.1	641.1	1083.7	2302.2	3480.7	3518.9	985.4	306.9	230.4	168.5	32.8
82.5°	172.1	175.8	398.0	1018.2	1731.2	1632.0	369.7	156.6	165.7	133.9	19.1
85°	30.1	37.3	117.5	358.8	660.3	500.9	92.9	74.7	109.3	88.3	10.9
87.5°	1.8	2.7	39.2	41.0	58.3	33.7	16.4	10.9	23.7	23.7	6.4
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°	1907.9	1907.9	1907.9	1907.9	1907.9	1907.9	1907.9	1907.9	1907.9	1907.9	1907.9
2.5°	1914.3	1919.8	1916.1	1907.9	1894.3	1877.9	1856.0	1837.8	1822.3	1814.1	1824.1
5°	1926.1	1933.4	1915.2	1874.2	1812.3	1744.9	1668.4	1609.2	1562.8	1548.2	1542.7
7.5°	1944.3	1948.9	1899.7	1808.7	1677.5	1518.1	1378.8	1261.3	1170.2	1142.9	1102.9
10°	1968.0	1965.3	1872.4	1703.0	1472.6	1233.1	1017.3	857.0	735.8	692.1	688.5
12.5°	2004.5	1989.9	1837.8	1559.1	1228.5	915.3	648.4	507.3	430.8	405.3	399.8
15°	2050.0	2015.4	1783.2	1390.6	940.8	591.0	399.8	357.0	347.0	345.2	343.3
17.5°	2103.7	2049.1	1711.2	1183.9	661.2	383.4	334.2	333.3	334.2	332.4	331.5
20°	2176.6	2084.6	1625.6	938.9	437.1	323.3	318.7	318.7	319.7	318.7	318.7
22.5°	2254.0	2126.5	1520.0	716.7	329.7	306.9	306.0	307.8	309.6	308.7	308.7
25°	2349.6	2181.1	1380.6	490.9	295.1	293.2	294.2	297.8	301.4	302.4	301.4
27.5°	2488.0	2248.5	1231.3	337.9	270.5	272.3	281.4	290.5	296.0	296.9	296.9
30°	2643.8	2323.2	1036.4	274.1	250.4	250.4	261.4	278.7	290.5	292.3	293.2
32.5°	2844.1	2409.7	820.5	246.8	231.3	229.5	239.5	260.5	282.3	288.7	288.7
35°	3091.8	2511.7	610.2	229.5	217.7	213.1	218.6	235.9	264.1	282.3	284.1
37.5°	3382.3	2608.2	446.2	214.0	204.9	198.5	202.2	215.8	238.6	265.9	273.2
40°	3651.0	2693.9	333.3	201.3	192.2	187.6	190.3	196.7	215.8	241.3	245.9
42.5°	3944.2	2760.3	265.0	187.6	179.4	177.6	177.6	180.3	193.1	207.6	208.6
45°	4236.6	2784.0	222.2	171.2	165.7	167.6	166.7	164.8	170.3	168.5	168.5
47.5°	4445.1	2755.8	184.0	155.7	155.7	158.5	153.9	147.5	144.8	133.9	134.8
50°	4588.1	2652.9	151.2	137.5	144.8	148.4	139.3	129.3	119.3	107.5	104.7
52.5°	4647.3	2469.8	123.9	113.8	128.4	133.0	122.0	110.2	94.7	84.7	82.0
55°	4609.1	2244.0	102.9	92.9	108.4	113.8	102.9	89.2	71.9	61.0	59.2
57.5°	4440.6	1974.4	87.4	73.8	86.5	90.2	82.9	68.3	51.0	40.1	40.1
60°	4149.1	1695.7	71.0	58.3	64.7	70.1	62.8	49.2	34.6	24.6	22.8
62.5°	3558.1	1377.0	57.4	45.5	45.5	50.1	43.7	35.5	21.9	12.7	11.8
65°	2569.1	944.4	45.5	33.7	32.8	32.8	27.3	23.7	12.7	5.5	3.6
67.5°	1396.1	532.8	36.4	25.5	22.8	21.9	17.3	13.7	5.5	0.9	0.0
70°	549.2	204.9	28.2	17.3	14.6	13.7	9.1	6.4	3.6	0.0	0.0
71°	372.5	141.2	24.6	14.6	11.8	10.0	7.3	5.5	2.7	0.0	0.0
72.5°	213.1	87.4	19.1	10.9	9.1	7.3	5.5	3.6	2.7	0.0	0.0
75°	92.9	44.6	11.8	8.2	6.4	4.6	3.6	2.7	0.9	0.0	0.0
77.5°	47.4	24.6	8.2	6.4	3.6	2.7	1.8	0.9	0.0	0.0	0.0
80°	26.4	12.7	5.5	3.6	2.7	1.8	0.9	0.9	0.0	0.0	0.0
82.5°	14.6	7.3	2.7	1.8	0.9	0.0	0.0	0.0	0.0	0.0	0.0
85°	9.1	4.6	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	4.6	1.8	0.0	0.0	0.0	0.0	0.9	0.9	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)