

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: P452788

Luminaire Tested: **GLAN-SA3D-730-U-T2-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P452788
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-11)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA3D-730-U-T2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15722 lumens
Efficiency: N/A
Efficacy: 85.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G3

Input Watts (W): 184
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

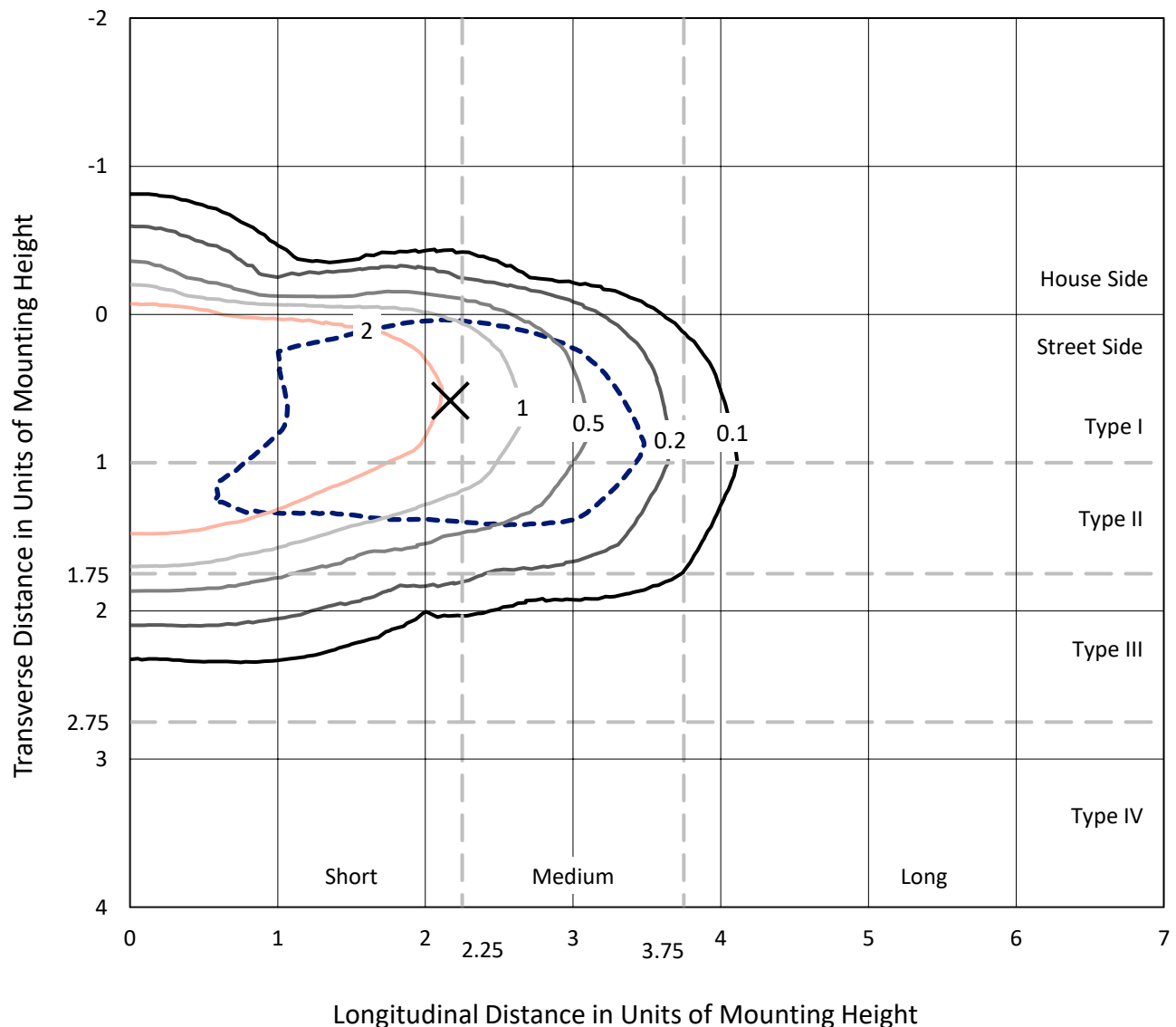


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

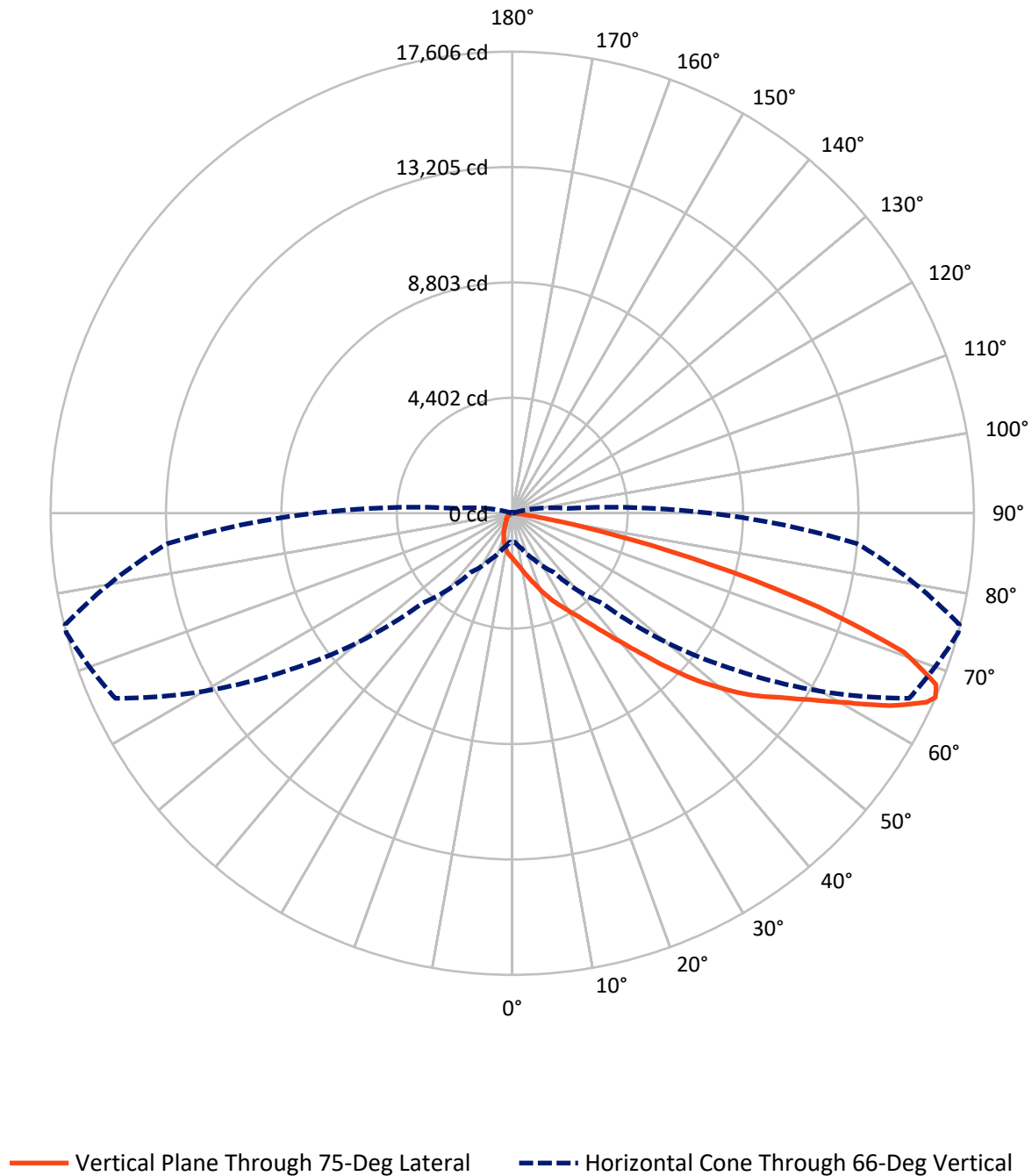


Based on 25 foot mounting height. Maximum calculated value = 4.7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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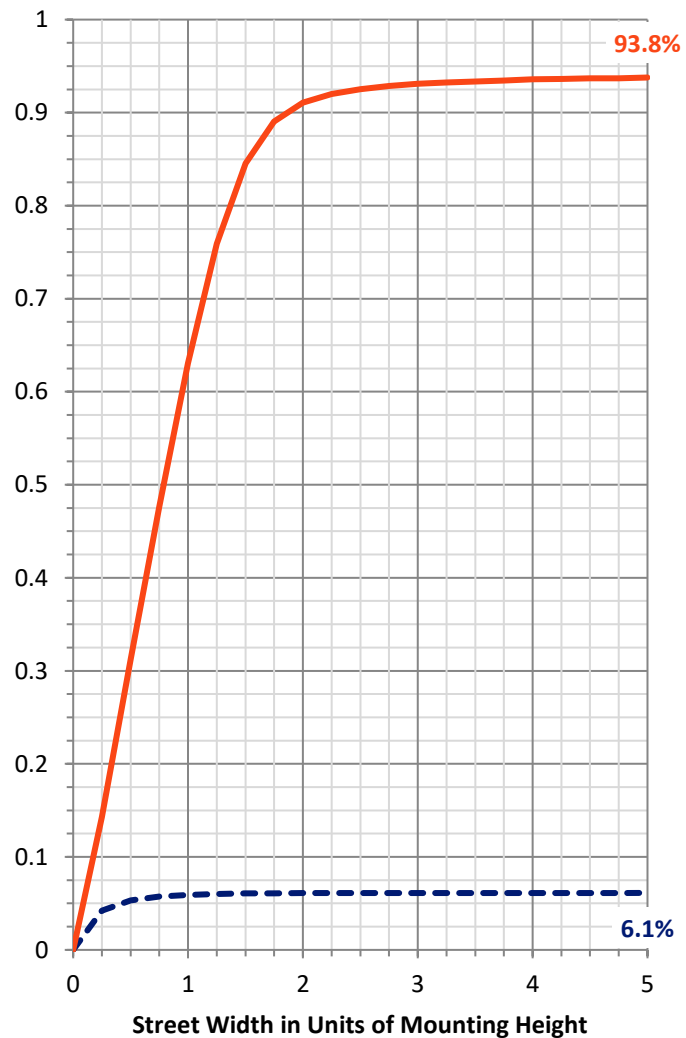
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	970.6	0.0	970.6
	% Fixture	6.2	0.0	6.2
Street Side	Lumens	14751.4	0.0	14751.4
	% Fixture	93.8	0.0	93.8
Total	Lumens	15722.0	0.0	15722.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	165.8	1.1
10°-20°	488.1	3.1
20°-30°	842.8	5.4
30°-40°	1520.2	9.7
40°-50°	2746.3	17.5
50°-60°	4281.4	27.2
60°-70°	4067.2	25.9
70°-80°	1524.3	9.7
80°-90°	86.0	0.5
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°	15722.0	100.0
0°-180°	15722.0	100.0

Coefficient of Utilization



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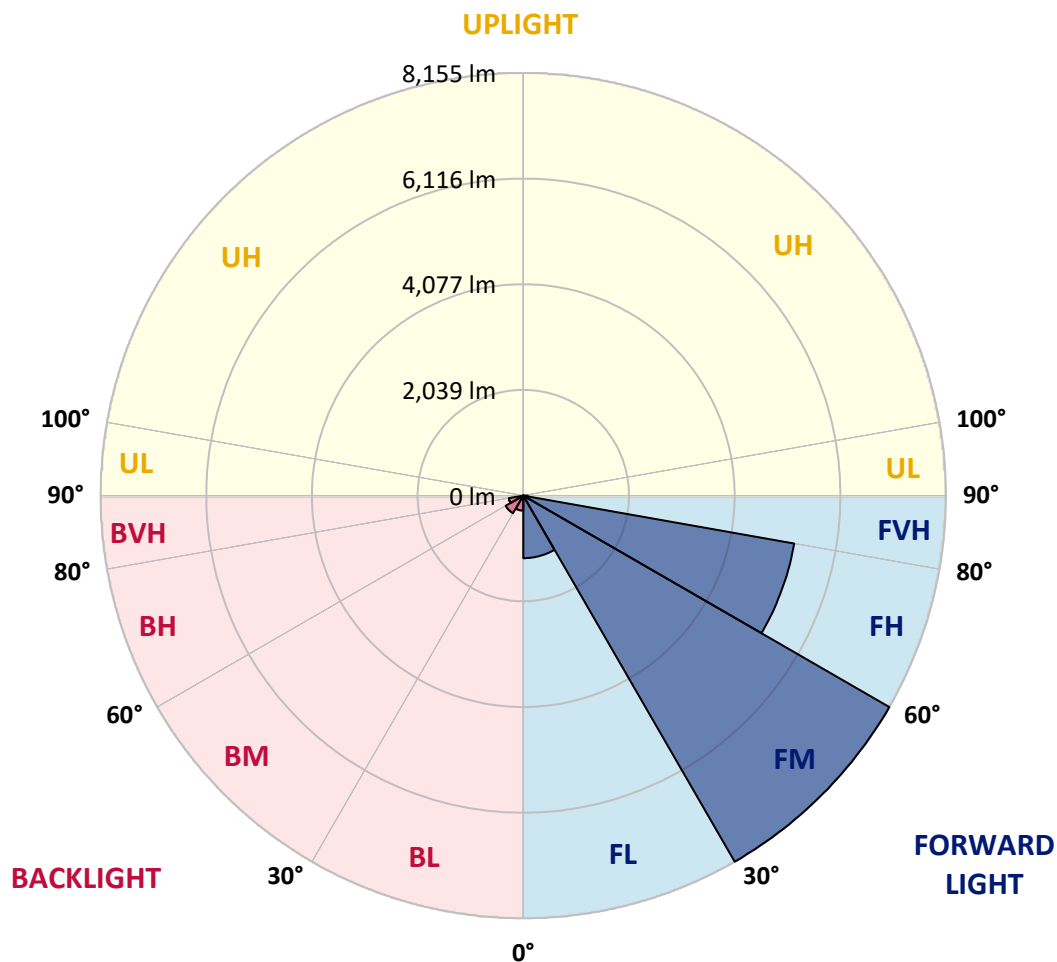
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1206.8	7.7			
FM	(30°-60°)	8155.0	51.9			
FH	(60°-80°)	5308.0	33.8			G3/7500
FVH	(80°-90°)	81.6	0.5			G1/100
BL	(0°-30°)	289.9	1.8	B1/500		
BM	(30°-60°)	392.9	2.5	B1/1000		
BH	(60°-80°)	283.4	1.8	B1/500		G1/500
BVH	(80°-90°)	4.4	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 II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1719.4	1719.4	1719.4	1719.4	1719.4	1719.4	1719.4	1719.4	1719.4	1719.4	1719.4
2.5°	2054.2	2028.6	2036.7	2025.1	1998.4	1958.8	1924.0	1874.0	1824.0	1815.8	1760.0
5°	2325.0	2318.1	2308.7	2275.0	2256.4	2196.0	2123.9	2037.9	1934.4	1915.8	1814.7
7.5°	2509.9	2506.4	2511.0	2493.6	2477.3	2422.7	2346.0	2228.5	2068.1	2057.6	1889.1
10°	2570.3	2579.6	2597.1	2625.0	2650.5	2633.1	2575.0	2428.5	2241.3	2211.1	1973.9
12.5°	2535.4	2545.9	2587.8	2662.2	2744.7	2792.4	2769.1	2662.2	2425.0	2400.6	2069.3
15°	2445.9	2458.7	2518.0	2633.1	2780.7	2915.6	2973.7	2897.0	2638.9	2599.4	2184.4
17.5°	2313.4	2332.0	2416.9	2569.2	2771.4	3003.9	3167.8	3142.3	2866.8	2829.6	2309.9
20°	2213.4	2227.4	2299.4	2473.8	2731.9	3052.8	3352.7	3424.8	3148.1	3084.1	2457.6
22.5°	2279.7	2284.3	2308.7	2413.4	2661.0	3065.5	3515.4	3718.9	3446.8	3389.9	2611.0
25°	2604.0	2557.5	2533.1	2509.9	2645.9	3053.9	3663.1	4025.8	3744.5	3684.0	2763.3
27.5°	3115.5	3094.6	2971.4	2806.3	2774.9	3069.0	3760.7	4316.4	4024.6	3959.5	2912.1
30°	3672.4	3636.3	3560.8	3319.0	3076.0	3176.0	3831.6	4598.9	4355.9	4269.9	3048.1
32.5°	4183.9	4207.1	4094.4	3845.6	3564.3	3403.8	3923.5	4907.0	4736.1	4629.1	3206.2
35°	4780.3	4826.8	4653.5	4415.2	4086.2	3815.4	4102.5	5254.6	5218.5	5083.7	3450.3
37.5°	5385.9	5413.8	5308.0	4973.2	4676.8	4338.5	4439.6	5683.5	5812.6	5697.5	3742.1
40°	5895.1	5933.5	5855.6	5558.0	5241.8	4944.2	4929.1	6150.9	6519.4	6400.8	4176.9
42.5°	6284.5	6313.6	6315.9	6105.5	5820.7	5685.8	5553.3	6747.2	7405.2	7268.0	4681.4
45°	6776.3	6818.1	6793.7	6650.7	6438.0	6413.6	6345.0	7468.0	8465.4	8292.2	5335.9
47.5°	7536.6	7564.5	7504.0	7335.5	7119.2	7157.6	7116.9	8275.9	9546.6	9397.8	6013.7
50°	8064.3	8110.9	8196.9	8264.3	8107.4	7965.5	7844.6	9030.4	10573.1	10439.4	6706.5
52.5°	8058.5	8135.3	8407.3	8746.7	9089.7	9046.7	8699.1	9863.9	11553.1	11388.0	7357.5
55°	7515.6	7664.4	8064.3	8666.5	9616.3	10089.4	9931.3	10828.8	12399.4	12287.8	8112.0
57.5°	6395.0	6485.7	7041.3	7883.0	9322.2	10580.0	11358.9	12136.6	13414.2	13361.9	9283.8
60°	4301.3	4342.0	5056.9	6097.4	7936.5	10090.6	12405.2	13718.8	14663.9	14638.4	10652.1
62.5°	2464.5	2482.0	3000.4	3878.1	5647.5	8551.4	12493.5	15670.7	16162.4	16176.4	12235.4
65°	1326.4	1335.7	1754.2	2276.2	3436.4	6095.1	11234.5	16740.2	17373.8	17400.5	13216.6
66°	1145.1	1100.9	1396.2	1940.2	2734.2	4851.2	10438.2	16701.8	17606.3	17577.2	13181.7
67.5°	870.7	910.2	1114.8	1491.5	2026.3	3449.2	8617.7	15959.0	17429.6	17338.9	12645.8
70°	623.1	639.4	794.0	1063.7	1379.9	1892.6	5506.8	13255.0	15841.6	15719.5	11017.1
72.5°	402.2	419.7	562.7	769.6	997.4	1033.5	3083.0	9576.8	12213.4	12195.9	8296.9
75°	287.1	303.4	372.0	551.0	749.8	639.4	1484.5	6454.3	7764.4	7712.1	5132.5
77.5°	208.1	216.2	248.8	360.4	535.9	458.0	688.2	3446.8	3865.4	4047.9	2268.1
80°	119.7	126.7	173.2	219.7	362.7	312.7	329.0	1383.4	1426.4	1357.8	709.1
82.5°	59.3	67.4	103.5	150.0	226.7	210.4	151.1	416.2	439.4	427.8	179.0
85°	14.0	17.4	58.1	98.8	110.4	94.2	73.2	122.1	151.1	147.6	68.6
87.5°	1.2	2.3	20.9	17.4	18.6	31.4	25.6	31.4	48.8	45.3	24.4
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°	1719.4	1719.4	1719.4	1719.4	1719.4	1719.4	1719.4	1719.4	1719.4	1719.4	1719.4
2.5°	1734.5	1712.4	1648.4	1585.7	1533.4	1478.7	1428.7	1399.7	1388.0	1375.3	1381.1
5°	1758.9	1705.4	1576.4	1464.8	1355.5	1262.5	1188.1	1140.4	1117.2	1113.7	1107.9
7.5°	1791.4	1699.6	1499.6	1325.3	1182.3	1078.8	993.9	925.4	904.4	885.8	870.7
10°	1831.0	1689.1	1404.3	1178.8	1026.5	896.3	784.7	703.3	661.5	649.8	658.0
12.5°	1872.8	1669.4	1304.3	1043.9	868.4	702.2	598.7	558.0	546.4	541.7	542.9
15°	1914.7	1645.0	1199.7	913.7	691.7	560.3	512.7	502.2	497.6	495.2	492.9
17.5°	1953.0	1605.4	1082.3	787.0	560.3	479.0	461.5	452.2	442.9	439.4	433.6
20°	1998.4	1560.1	976.5	645.2	474.3	433.6	412.7	395.3	381.3	372.0	370.8
22.5°	2041.4	1502.0	866.1	534.8	432.5	389.4	355.7	337.1	320.9	309.2	312.7
25°	2064.6	1431.1	767.3	466.2	394.1	345.3	308.1	284.8	267.4	261.6	260.4
27.5°	2064.6	1343.9	670.8	426.6	359.2	305.7	267.4	245.3	233.7	225.5	226.7
30°	2048.3	1247.4	581.3	396.4	329.0	270.9	234.8	215.1	205.8	200.0	198.8
32.5°	2035.6	1155.5	504.5	367.4	297.6	240.6	209.3	194.1	184.8	179.0	179.0
35°	2055.3	1076.5	445.2	338.3	268.5	217.4	189.5	175.5	166.2	161.6	160.4
37.5°	2107.6	1004.4	399.9	306.9	241.8	197.6	175.5	159.3	150.0	144.2	141.8
40°	2236.7	963.7	366.2	277.8	216.2	181.4	159.3	144.2	132.5	126.7	125.6
42.5°	2443.6	964.9	333.6	251.1	196.5	167.4	145.3	127.9	115.1	109.3	108.1
45°	2755.2	1009.1	308.1	225.5	179.0	152.3	130.2	111.6	100.0	94.2	94.2
47.5°	3128.3	1095.1	286.0	203.4	162.8	138.3	115.1	96.5	84.9	80.2	80.2
50°	3532.9	1206.7	263.9	180.2	148.8	123.2	98.8	83.7	74.4	70.9	70.9
52.5°	3945.6	1341.5	241.8	161.6	133.7	107.0	84.9	74.4	66.3	63.9	62.8
55°	4487.3	1513.6	218.6	141.8	117.4	91.8	75.6	65.1	55.8	52.3	51.2
57.5°	5320.8	1772.8	193.0	124.4	96.5	76.7	65.1	54.6	44.2	38.4	37.2
60°	6326.4	2089.0	166.2	109.3	77.9	62.8	52.3	41.9	32.6	25.6	24.4
62.5°	7268.0	2290.1	140.7	91.8	61.6	47.7	37.2	31.4	23.3	16.3	15.1
65°	7684.2	2222.7	116.3	74.4	48.8	33.7	24.4	22.1	14.0	7.0	5.8
66°	7545.9	2122.7	107.0	67.4	44.2	29.1	20.9	18.6	10.5	3.5	3.5
67.5°	7137.8	1886.8	93.0	58.1	38.4	23.3	16.3	14.0	5.8	1.2	0.0
70°	6116.0	1526.4	73.2	43.0	27.9	16.3	9.3	7.0	3.5	0.0	0.0
72.5°	4697.7	1136.9	58.1	32.6	19.8	9.3	4.7	2.3	3.5	0.0	0.0
75°	2878.4	649.8	45.3	24.4	12.8	5.8	3.5	0.0	3.5	1.2	0.0
77.5°	1277.6	291.8	30.2	16.3	9.3	4.7	2.3	0.0	2.3	1.2	0.0
80°	323.2	95.3	17.4	11.6	7.0	3.5	1.2	0.0	2.3	2.3	1.2
82.5°	88.4	34.9	12.8	9.3	5.8	3.5	1.2	0.0	2.3	2.3	2.3
85°	34.9	16.3	11.6	9.3	7.0	3.5	1.2	0.0	2.3	2.3	2.3
87.5°	16.3	11.6	11.6	10.5	8.1	3.5	1.2	0.0	2.3	1.2	2.3
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)