

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: P322497

Luminaire Tested: **GAN-SA3D-727-U-T4FT-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322497
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-17)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA3D-727-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 2700K, 1200mA 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: 14069 lumens
Efficiency: N/A
Efficacy: 73.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

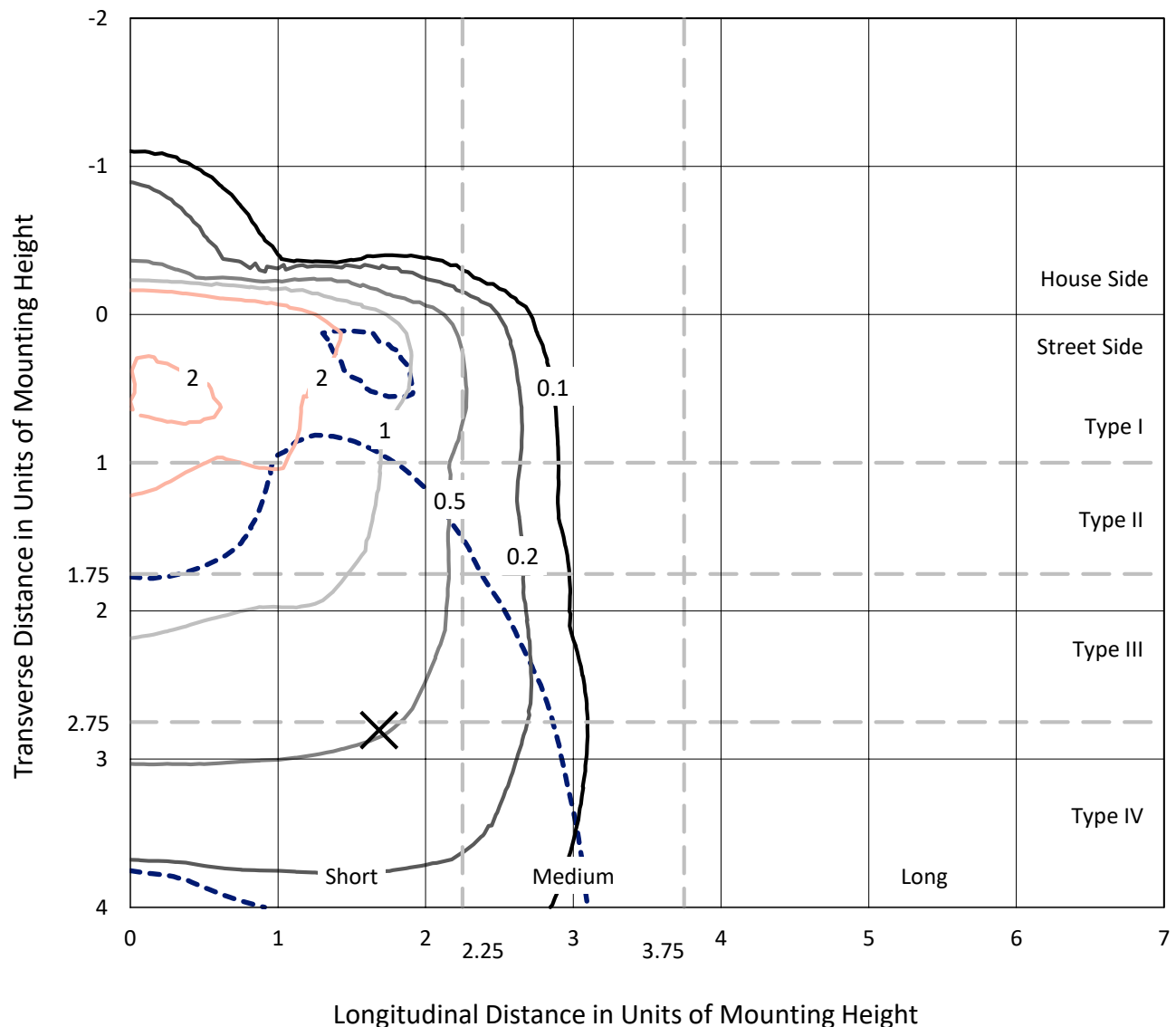
Input Watts (W): 191
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

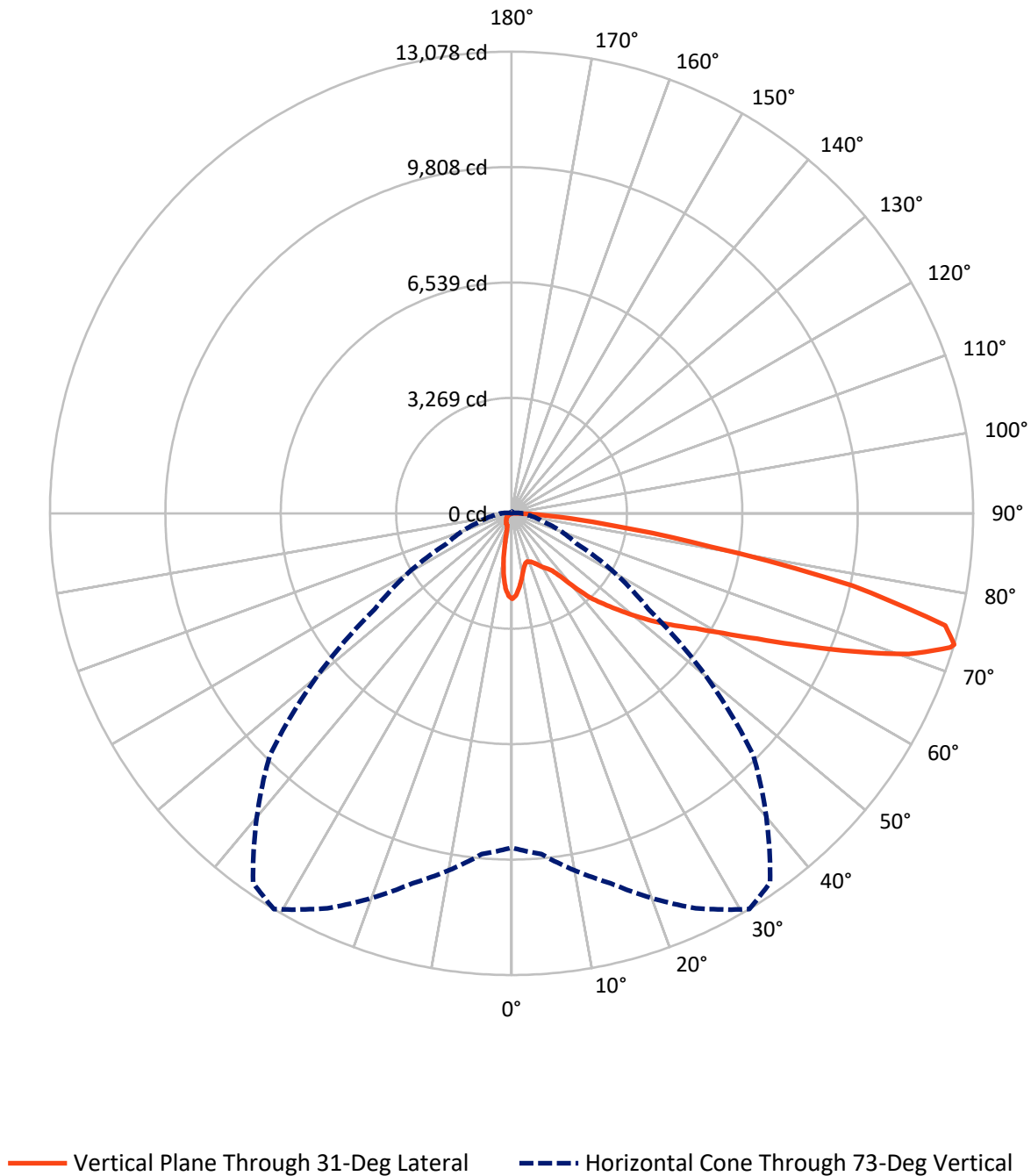
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.9 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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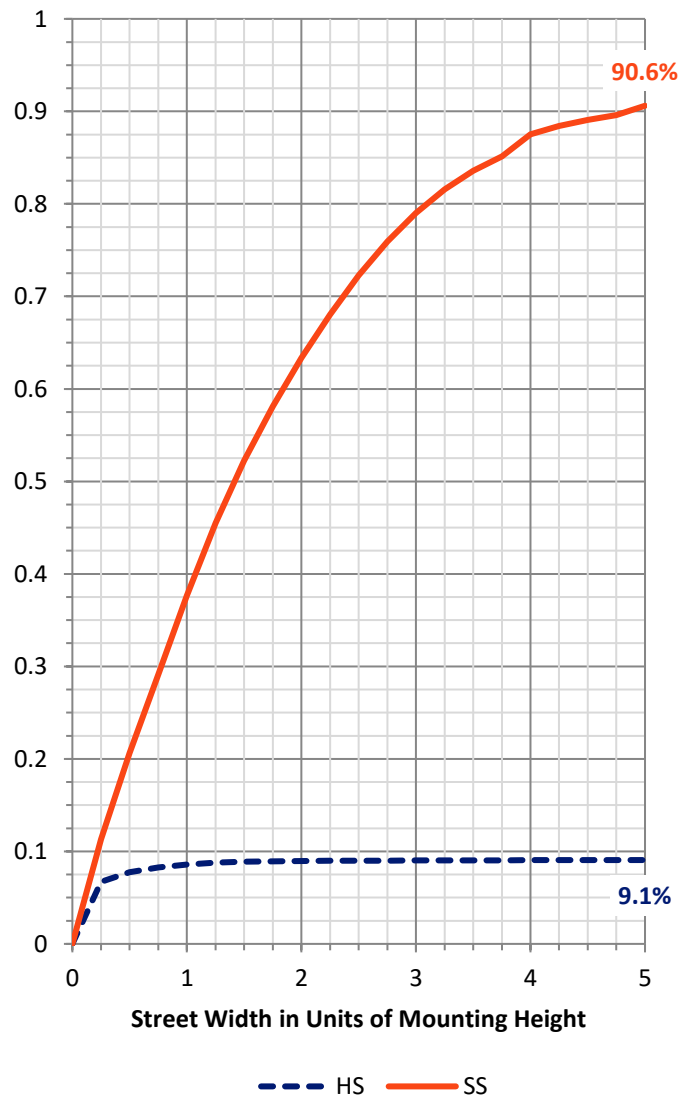
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1282.4	0.0	1282.4
	% Fixture	9.1	0.0	9.1
Street Side	Lumens	12786.6	0.0	12786.6
	% Fixture	90.9	0.0	90.9
Total	Lumens	14069.0	0.0	14069.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	200.7	1.4
10°-20°	435.8	3.1
20°-30°	652.9	4.6
30°-40°	1038.8	7.4
40°-50°	1855.0	13.2
50°-60°	2878.5	20.5
60°-70°	3826.5	27.2
70°-80°	2878.3	20.5
80°-90°	302.5	2.1
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°	14069.0	100.0
0°-180°	14069.0	100.0

Coefficient of Utilization



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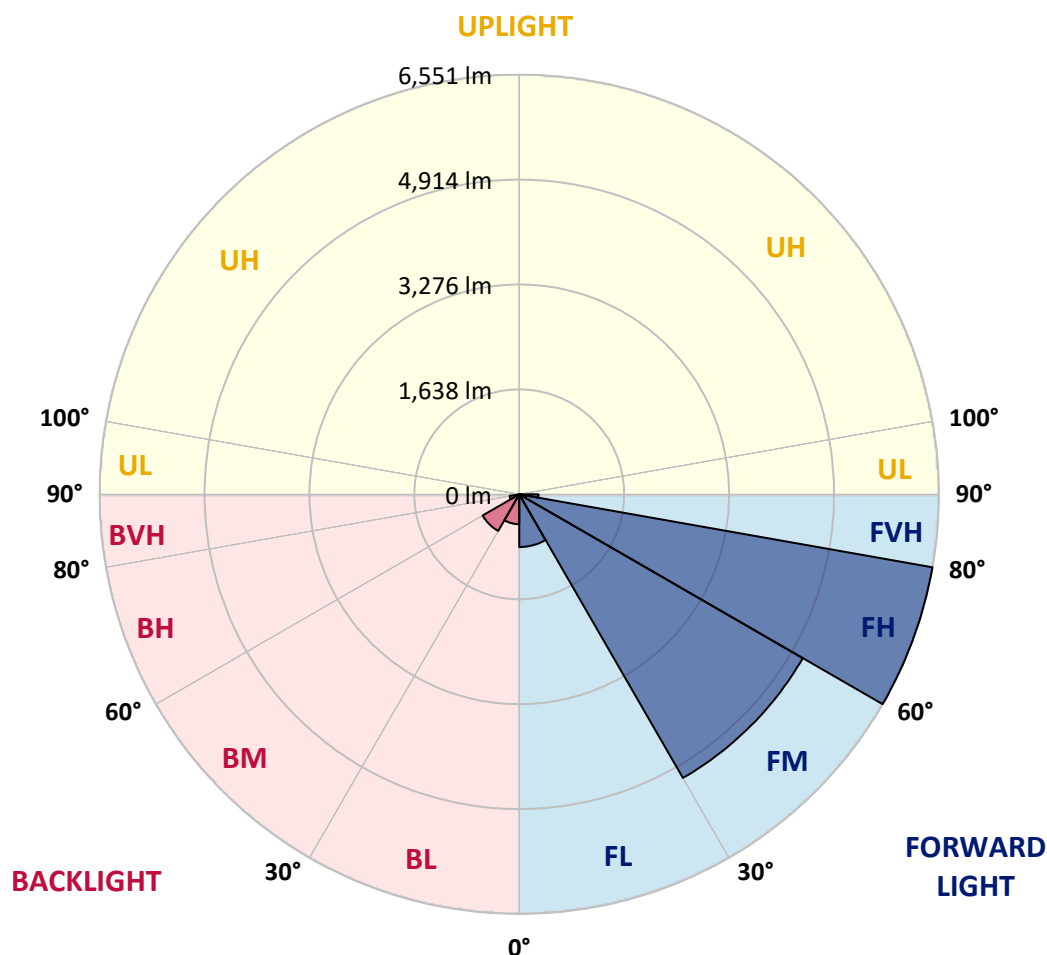
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	823.1	5.9			
FM	(30°-60°)	5112.2	36.3			
FH	(60°-80°)	6551.4	46.6			G3/7500
FVH	(80°-90°)	299.9	2.1			G3/500
BL	(0°-30°)	466.3	3.3	B1/500		
BM	(30°-60°)	660.1	4.7	B1/1000		
BH	(60°-80°)	153.4	1.1	B1/500		G1/500
BVH	(80°-90°)	2.5	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°	31°	35°	45°	55°	65°	75°	85°
0°	2420.6	2420.6	2420.6	2420.6	2420.6	2420.6	2420.6	2420.6	2420.6	2420.6	2420.6
2.5°	2293.9	2303.6	2313.9	2316.0	2333.2	2333.9	2358.6	2377.2	2395.8	2413.7	2419.9
5°	2058.5	2074.3	2092.9	2111.5	2148.0	2162.4	2223.0	2285.0	2344.2	2400.6	2428.2
7.5°	1807.2	1825.1	1851.2	1897.4	1938.0	1966.2	2061.9	2172.1	2282.2	2386.2	2446.1
10°	1577.9	1594.5	1622.0	1670.9	1733.5	1772.1	1900.8	2053.7	2215.4	2373.1	2472.9
12.5°	1432.0	1440.9	1456.1	1508.4	1564.9	1608.2	1759.7	1949.0	2160.4	2372.4	2516.3
15°	1405.1	1407.9	1395.5	1418.9	1463.0	1505.0	1658.5	1864.3	2118.4	2383.4	2572.7
17.5°	1447.8	1446.4	1405.1	1402.4	1437.5	1471.9	1608.9	1805.8	2088.8	2408.9	2645.7
20°	1512.5	1507.7	1436.1	1423.0	1460.2	1492.6	1605.5	1783.8	2077.8	2451.6	2734.5
22.5°	1598.6	1590.3	1478.1	1464.3	1504.3	1538.0	1648.2	1805.1	2087.4	2508.7	2837.8
25°	1705.3	1692.9	1550.4	1535.2	1575.9	1609.6	1724.6	1866.4	2116.3	2578.3	2968.6
27.5°	1825.8	1807.9	1666.1	1626.8	1672.9	1708.1	1826.5	1960.0	2161.7	2651.9	3129.0
30°	1939.4	1916.0	1787.9	1723.2	1779.7	1818.9	1936.6	2071.6	2234.7	2765.5	3348.6
32.5°	2053.7	2027.5	1896.7	1819.6	1870.5	1913.2	2050.2	2225.1	2371.7	2939.0	3640.5
35°	2316.6	2289.1	2128.7	2001.3	2000.6	2024.7	2209.2	2435.1	2552.8	3180.7	3988.9
37.5°	2759.3	2743.5	2590.6	2349.0	2284.3	2257.4	2426.1	2685.7	2813.0	3513.2	4382.0
40°	3244.0	3230.2	3058.8	2839.9	2741.4	2675.3	2737.3	3034.7	3180.7	3919.4	4783.4
42.5°	3791.3	3725.9	3420.2	3354.8	3266.7	3216.5	3160.7	3465.0	3632.3	4361.3	5181.3
45°	4288.4	4178.2	3781.7	3682.5	3662.6	3675.0	3705.9	4043.3	4140.4	4886.6	5577.8
47.5°	4584.4	4497.7	4193.4	4098.4	4092.9	4174.8	4408.9	4696.6	4646.4	5344.5	5926.9
50°	4866.0	4787.5	4534.8	4558.2	4583.7	4695.2	5206.8	5368.6	5108.3	5759.6	6247.0
52.5°	5093.9	4974.1	4841.9	4973.4	5098.7	5278.4	6030.2	5971.6	5436.0	6090.1	6521.0
55°	5225.4	5171.0	5235.0	5367.2	5602.6	5894.5	6807.4	6473.5	5675.6	6391.6	6703.5
57.5°	5707.3	5600.6	5727.9	5842.2	6149.3	6557.5	7473.2	6847.4	5848.4	6578.2	6745.5
60°	6290.4	6204.3	6279.4	6469.4	6883.8	7363.7	8095.5	7152.3	5938.6	6698.0	6636.7
62.5°	7218.4	7104.8	7058.0	7270.8	7820.1	8344.0	8567.8	7363.7	5918.6	6644.9	6263.5
65°	8461.8	8344.0	8134.8	8327.5	9026.3	9396.0	9095.8	7408.4	5780.9	6216.0	5320.4
67.5°	9735.4	9650.0	9471.0	9796.0	10426.6	10545.7	9654.2	7299.7	5337.6	5040.2	3759.0
70°	10576.7	10540.2	10656.6	11375.3	11937.8	11903.4	10166.4	6715.2	4160.3	3099.4	1859.5
72.5°	9970.2	10145.0	11004.2	12307.5	12994.5	12713.7	9903.4	5156.5	2377.9	1192.4	537.7
73°	9467.6	9691.4	10848.0	12342.6	13077.9	12770.1	9682.4	4733.1	2026.8	941.1	407.6
75°	6586.4	6861.1	8980.9	11495.1	12688.2	12167.0	8070.7	2897.0	939.0	417.2	164.5
77.5°	3197.9	3401.0	4945.2	8305.5	9867.6	9506.2	5024.3	1079.5	424.1	260.9	75.7
80°	1193.8	1327.3	2146.6	4227.1	5702.5	5851.8	2209.9	408.3	282.3	210.0	38.6
82.5°	312.6	348.4	791.7	1885.0	2922.5	3058.8	696.7	205.8	206.5	172.8	23.4
85°	99.8	114.3	247.2	846.1	1376.9	1208.9	181.8	99.8	150.1	128.7	13.1
87.5°	12.4	15.8	78.5	199.0	303.6	168.7	28.2	29.6	64.0	71.6	7.6
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°	2420.6	2420.6	2420.6	2420.6	2420.6	2420.6	2420.6	2420.6	2420.6	2420.6	2420.6
2.5°	2426.1	2422.7	2423.4	2405.5	2393.8	2370.3	2346.2	2335.2	2323.5	2318.7	2323.5
5°	2438.5	2432.3	2414.4	2359.3	2300.8	2225.1	2154.2	2100.5	2033.0	2014.4	2033.7
7.5°	2457.8	2445.4	2393.1	2280.8	2150.7	2006.2	1843.7	1725.3	1628.2	1565.5	1588.3
10°	2486.0	2462.6	2357.3	2166.6	1933.9	1677.8	1447.1	1267.4	1140.1	1087.8	1085.7
12.5°	2533.5	2489.4	2313.2	2017.9	1668.8	1327.3	1025.1	830.3	727.0	660.2	658.8
15°	2585.8	2521.1	2257.4	1839.5	1360.4	950.8	660.2	512.2	445.4	424.1	421.3
17.5°	2649.9	2557.6	2185.1	1619.9	1037.5	629.9	431.0	388.3	385.5	383.5	383.5
20°	2730.4	2601.0	2092.2	1368.6	736.0	420.6	366.3	369.0	370.4	367.6	368.3
22.5°	2824.0	2645.0	1981.4	1098.8	497.8	351.8	350.4	353.9	355.2	353.9	354.6
25°	2932.8	2696.0	1846.4	815.8	359.4	333.9	337.3	342.2	345.6	345.6	345.6
27.5°	3067.7	2757.9	1684.0	569.4	310.5	315.3	324.9	333.9	338.7	340.1	340.1
30°	3243.3	2835.0	1489.1	390.4	282.3	290.5	308.4	325.6	334.6	336.0	336.7
32.5°	3465.0	2921.8	1263.3	288.5	258.2	264.4	283.6	312.6	329.8	332.5	332.5
35°	3719.0	3022.3	1020.3	251.3	241.0	243.0	258.2	291.2	321.5	329.1	329.8
37.5°	3997.2	3121.4	775.9	234.8	226.5	226.5	237.5	265.7	301.5	324.9	327.7
40°	4256.7	3181.3	543.9	221.7	213.4	213.4	223.1	243.7	277.4	312.6	320.1
42.5°	4496.3	3202.0	378.6	209.3	201.0	203.1	211.4	227.9	253.4	288.5	295.3
45°	4742.8	3198.6	276.1	194.8	188.6	194.8	201.0	213.4	232.0	252.0	253.4
47.5°	4928.6	3169.6	218.9	181.1	176.9	185.2	190.7	199.0	209.3	207.9	207.9
50°	5102.8	3099.4	176.2	162.5	165.2	174.9	177.6	180.4	181.1	168.0	166.6
52.5°	5235.0	2990.0	141.1	142.5	153.5	163.2	160.4	156.3	149.4	133.6	130.8
55°	5279.1	2779.3	110.8	117.7	136.3	148.7	138.4	129.4	116.3	103.3	100.5
57.5°	5199.2	2507.3	90.2	91.6	115.0	125.3	113.6	103.3	88.8	77.8	75.7
60°	5029.8	2205.1	74.4	68.8	88.8	97.8	90.2	79.9	66.8	58.5	57.8
62.5°	4693.9	1882.9	61.3	53.7	67.5	75.0	70.2	62.6	51.6	46.1	45.4
65°	3987.5	1506.3	49.6	43.4	52.3	58.5	54.4	48.9	40.6	36.5	35.8
67.5°	2783.4	1018.2	40.6	35.8	41.3	46.1	42.7	39.9	32.4	31.7	32.4
70°	1342.5	490.9	33.7	28.9	32.4	35.8	34.4	32.4	31.0	35.8	41.3
72.5°	384.8	164.5	26.8	24.1	26.2	28.2	29.6	28.9	33.7	43.4	50.3
73°	296.0	132.9	25.5	22.7	24.8	27.5	28.9	28.2	34.4	44.1	50.3
75°	126.7	64.0	19.3	18.6	20.7	24.1	25.5	25.5	34.4	44.7	48.2
77.5°	57.1	34.4	12.4	14.5	17.9	19.3	21.3	21.3	27.5	34.4	34.4
80°	32.4	18.6	9.6	11.0	13.1	13.1	13.1	11.7	12.4	13.8	15.1
82.5°	20.7	12.4	7.6	8.9	8.3	6.9	5.5	5.5	4.8	5.5	6.9
85°	11.7	6.9	6.9	5.5	3.4	2.8	3.4	2.8	0.7	0.0	0.7
87.5°	6.9	4.1	2.1	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)