

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: P322697

Luminaire Tested: **GAN-SA3D-827-U-T4FT-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322697
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-827-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 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: 12366 lumens
Efficiency: N/A
Efficacy: 64.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

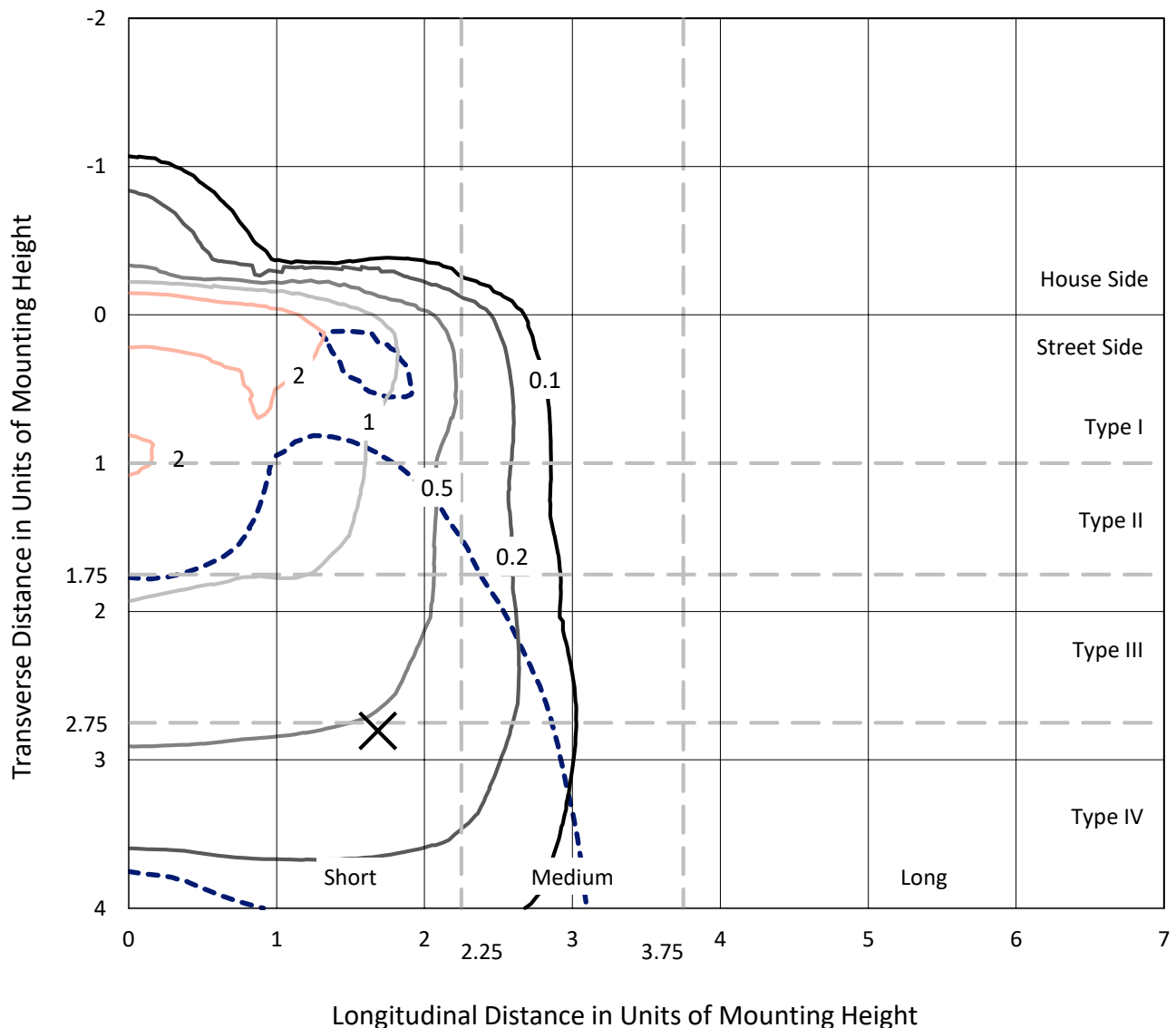
Input Watts (W): 191
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

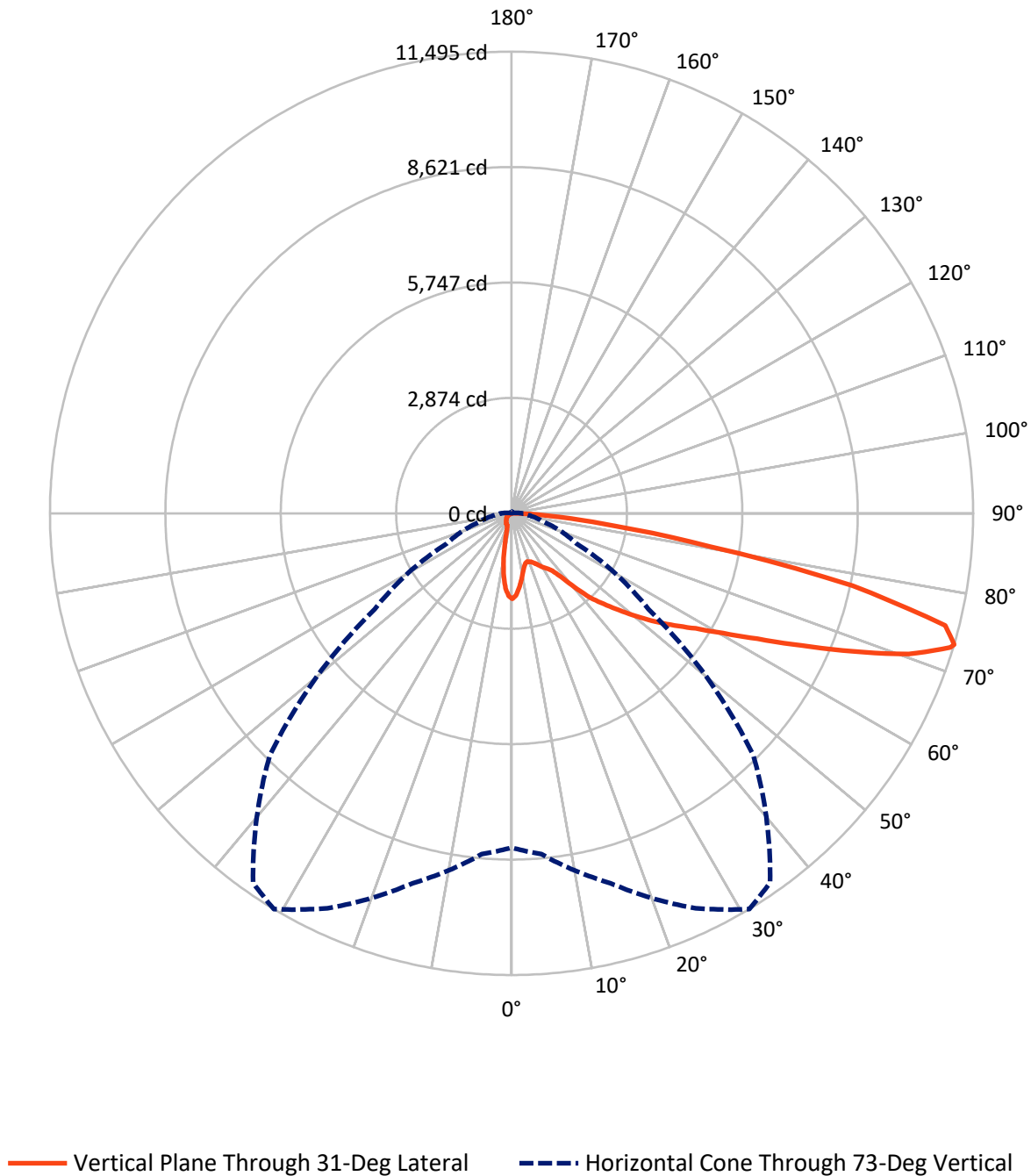
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.4 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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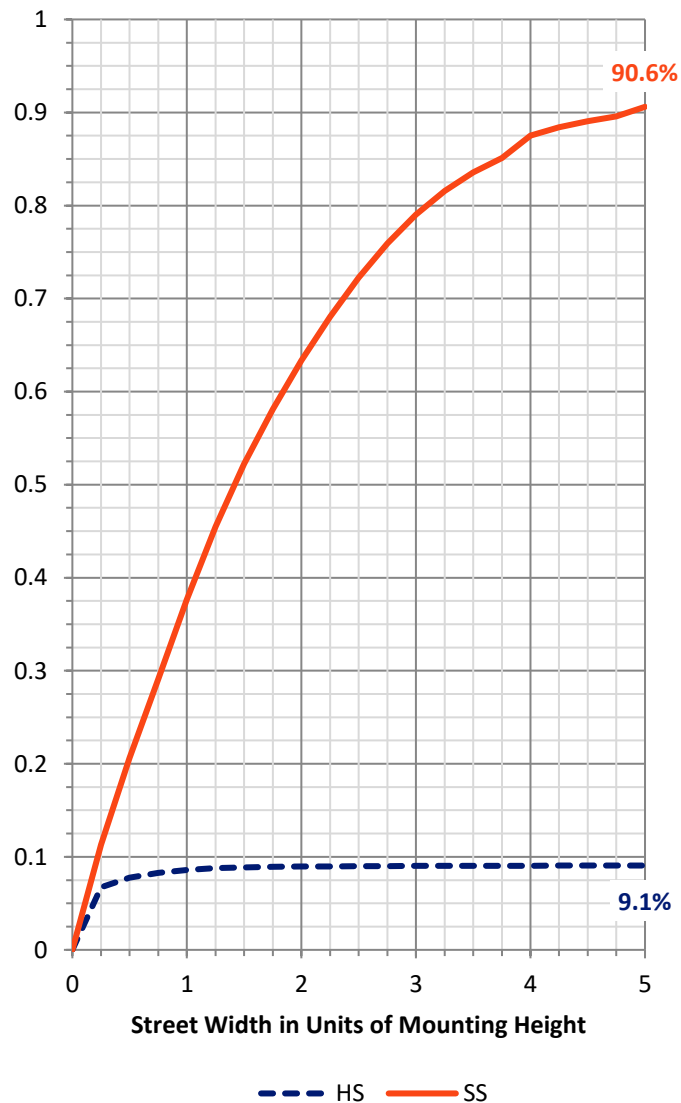
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1127.2	0.0	1127.2
	% Fixture	9.1	0.0	9.1
Street Side	Lumens	11238.8	0.0	11238.8
	% Fixture	90.9	0.0	90.9
Total	Lumens	12366.0	0.0	12366.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	176.4	1.4
10°-20°	383.0	3.1
20°-30°	573.9	4.6
30°-40°	913.1	7.4
40°-50°	1630.5	13.2
50°-60°	2530.0	20.5
60°-70°	3363.3	27.2
70°-80°	2529.9	20.5
80°-90°	265.8	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°	12366.0	100.0
0°-180°	12366.0	100.0

Coefficient of Utilization



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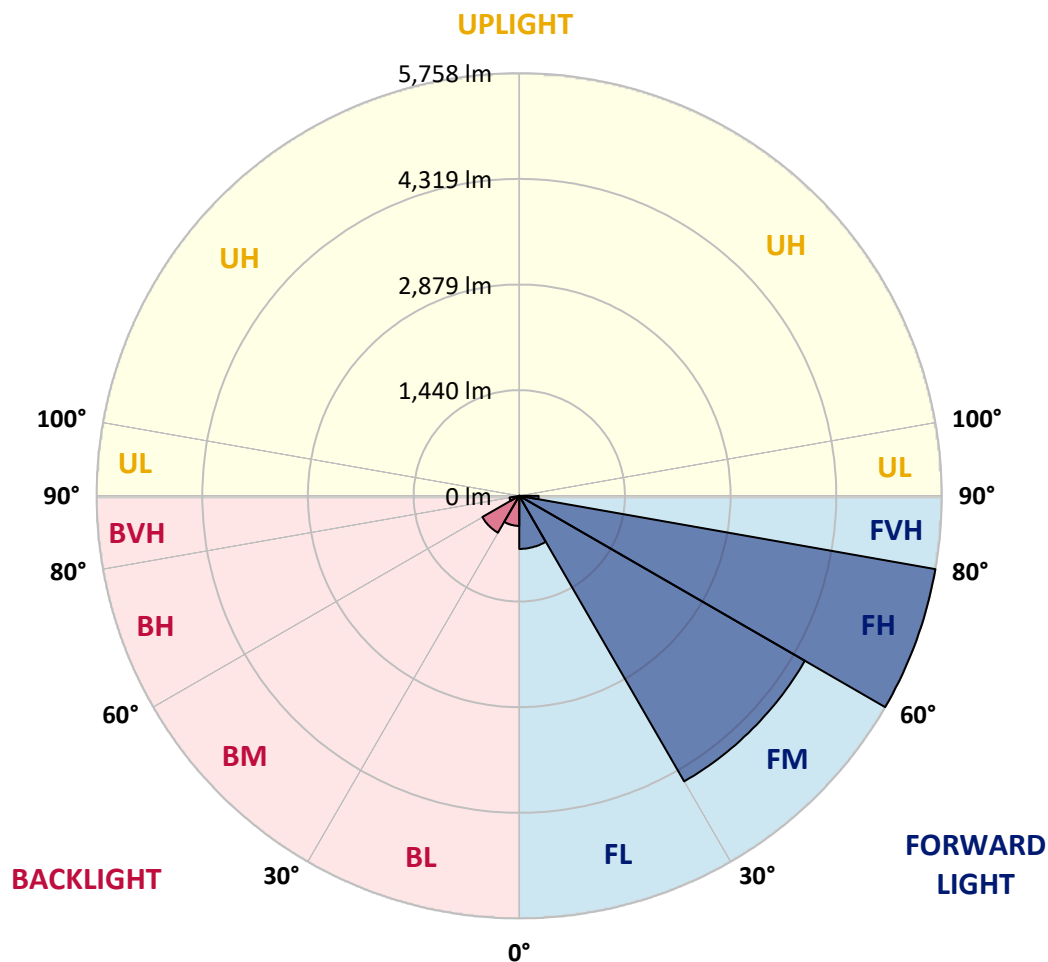
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	723.4	5.9			
FM	(30°-60°)	4493.4	36.3			
FH	(60°-80°)	5758.4	46.6			G3/7500
FVH	(80°-90°)	263.6	2.1			G3/500
BL	(0°-30°)	409.9	3.3	B1/500		
BM	(30°-60°)	580.2	4.7	B1/1000		
BH	(60°-80°)	134.9	1.1	B1/500		G1/500
BVH	(80°-90°)	2.2	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°	2127.6	2127.6	2127.6	2127.6	2127.6	2127.6	2127.6	2127.6	2127.6	2127.6	2127.6
2.5°	2016.3	2024.7	2033.8	2035.6	2050.7	2051.4	2073.1	2089.5	2105.8	2121.5	2127.0
5°	1809.3	1823.2	1839.6	1855.9	1888.0	1900.7	1953.9	2008.4	2060.4	2110.0	2134.3
7.5°	1588.4	1604.2	1627.2	1667.7	1703.4	1728.2	1812.3	1909.1	2006.0	2097.3	2150.0
10°	1386.9	1401.5	1425.7	1468.6	1523.7	1557.6	1670.7	1805.1	1947.3	2085.8	2173.6
12.5°	1258.6	1266.5	1279.8	1325.8	1375.4	1413.6	1546.7	1713.1	1898.9	2085.2	2211.7
15°	1235.0	1237.5	1226.6	1247.1	1285.9	1322.8	1457.7	1638.7	1861.9	2094.9	2261.3
17.5°	1272.6	1271.4	1235.0	1232.6	1263.5	1293.7	1414.2	1587.2	1835.9	2117.3	2325.5
20°	1329.4	1325.2	1262.3	1250.8	1283.5	1311.9	1411.1	1567.9	1826.2	2154.8	2403.5
22.5°	1405.1	1397.8	1299.2	1287.1	1322.2	1351.8	1448.7	1586.6	1834.7	2205.1	2494.3
25°	1498.9	1488.0	1362.7	1349.4	1385.1	1414.8	1515.8	1640.5	1860.1	2266.2	2609.3
27.5°	1604.8	1589.0	1464.4	1429.9	1470.4	1501.3	1605.4	1722.8	1900.1	2330.9	2750.3
30°	1704.6	1684.0	1571.5	1514.6	1564.2	1598.7	1702.2	1820.8	1964.2	2430.8	2943.3
32.5°	1805.1	1782.1	1667.1	1599.3	1644.1	1681.6	1802.0	1955.7	2084.6	2583.2	3199.9
35°	2036.2	2012.0	1871.0	1759.1	1758.5	1779.7	1941.8	2140.3	2243.8	2795.6	3506.1
37.5°	2425.3	2411.4	2277.1	2064.7	2007.8	1984.2	2132.4	2360.6	2472.5	3087.9	3851.6
40°	2851.3	2839.2	2688.5	2496.1	2409.6	2351.5	2406.0	2667.4	2795.6	3444.9	4204.4
42.5°	3332.4	3274.9	3006.2	2948.7	2871.3	2827.1	2778.1	3045.6	3192.6	3833.4	4554.1
45°	3769.3	3672.5	3323.9	3236.8	3219.2	3230.1	3257.4	3553.9	3639.2	4295.1	4902.7
47.5°	4029.5	3953.2	3685.8	3602.3	3597.4	3669.4	3875.2	4128.1	4083.9	4697.5	5209.5
50°	4277.0	4208.0	3985.9	4006.5	4028.9	4126.9	4576.5	4718.7	4490.0	5062.4	5490.8
52.5°	4477.3	4372.0	4255.8	4371.4	4481.5	4639.4	5300.2	5248.8	4778.0	5352.9	5731.7
55°	4592.8	4545.0	4601.3	4717.5	4924.5	5181.0	5983.4	5689.9	4988.6	5617.9	5892.0
57.5°	5016.4	4922.6	5034.6	5135.0	5404.9	5763.8	6568.6	6018.5	5140.5	5781.9	5928.9
60°	5529.0	5453.3	5519.3	5686.3	6050.6	6472.3	7115.6	6286.6	5219.7	5887.2	5833.3
62.5°	6344.7	6244.8	6203.7	6390.7	6873.5	7334.0	7530.7	6472.3	5202.2	5840.6	5505.4
65°	7437.5	7334.0	7150.1	7319.5	7933.7	8258.7	7994.8	6511.7	5081.2	5463.6	4676.4
67.5°	8557.0	8481.9	8324.6	8610.2	9164.5	9269.2	8485.6	6416.1	4691.5	4430.1	3303.9
70°	9296.4	9264.4	9366.6	9998.4	10492.7	10462.5	8935.8	5902.3	3656.7	2724.2	1634.4
72.5°	8763.3	8917.0	9672.2	10817.7	11421.6	11174.7	8704.6	4532.3	2090.1	1048.1	472.6
73°	8321.6	8518.2	9534.8	10848.6	11494.8	11224.3	8510.4	4160.2	1781.5	827.2	358.2
75°	5789.2	6030.6	7893.8	10103.7	11152.3	10694.3	7093.8	2546.3	825.4	366.7	144.6
77.5°	2810.8	2989.3	4346.6	7300.1	8673.2	8355.5	4416.2	948.8	372.8	229.3	66.6
80°	1049.3	1166.7	1886.8	3715.4	5012.2	5143.5	1942.4	358.8	248.1	184.6	33.9
82.5°	274.7	306.2	695.9	1656.8	2568.7	2688.5	612.4	180.9	181.5	151.9	20.6
85°	87.7	100.4	217.2	743.7	1210.2	1062.6	159.8	87.7	131.9	113.2	11.5
87.5°	10.9	13.9	69.0	174.9	266.9	148.3	24.8	26.0	56.3	62.9	6.7
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°	2127.6	2127.6	2127.6	2127.6	2127.6	2127.6	2127.6	2127.6	2127.6	2127.6	2127.6
2.5°	2132.4	2129.4	2130.0	2114.3	2104.0	2083.4	2062.2	2052.6	2042.3	2038.0	2042.3
5°	2143.3	2137.9	2122.1	2073.7	2022.3	1955.7	1893.4	1846.2	1786.9	1770.6	1787.5
7.5°	2160.3	2149.4	2103.4	2004.8	1890.4	1763.3	1620.5	1516.4	1431.1	1376.0	1396.0
10°	2185.1	2164.5	2071.9	1904.3	1699.8	1474.7	1272.0	1114.0	1002.1	956.1	954.3
12.5°	2226.8	2188.1	2033.2	1773.6	1466.8	1166.7	901.0	729.8	639.0	580.3	579.1
15°	2272.8	2215.9	1984.2	1616.9	1195.7	835.7	580.3	450.2	391.5	372.8	370.3
17.5°	2329.1	2248.0	1920.6	1423.8	911.9	553.7	378.8	341.3	338.9	337.1	337.1
20°	2399.9	2286.1	1839.0	1203.0	646.9	369.7	321.9	324.3	325.6	323.1	323.7
22.5°	2482.2	2324.9	1741.5	965.8	437.5	309.2	308.0	311.0	312.2	311.0	311.6
25°	2577.8	2369.6	1622.9	717.1	315.9	293.5	296.5	300.7	303.8	303.8	303.8
27.5°	2696.4	2424.1	1480.1	500.4	272.9	277.1	285.6	293.5	297.7	298.9	298.9
30°	2850.7	2491.9	1308.9	343.1	248.1	255.4	271.1	286.2	294.1	295.3	295.9
32.5°	3045.6	2568.1	1110.4	253.5	226.9	232.4	249.3	274.7	289.9	292.3	292.3
35°	3268.8	2656.5	896.8	220.9	211.8	213.6	226.9	256.0	282.6	289.2	289.9
37.5°	3513.3	2743.6	682.0	206.3	199.1	199.1	208.8	233.6	265.0	285.6	288.0
40°	3741.4	2796.3	478.0	194.8	187.6	187.6	196.1	214.2	243.9	274.7	281.4
42.5°	3952.0	2814.4	332.8	184.0	176.7	178.5	185.8	200.3	222.7	253.5	259.6
45°	4168.7	2811.4	242.7	171.2	165.8	171.2	176.7	187.6	203.9	221.5	222.7
47.5°	4332.0	2786.0	192.4	159.1	155.5	162.8	167.6	174.9	184.0	182.7	182.7
50°	4485.1	2724.2	154.9	142.8	145.2	153.7	156.1	158.5	159.1	147.6	146.4
52.5°	4601.3	2628.0	124.0	125.3	134.9	143.4	141.0	137.4	131.3	117.4	115.0
55°	4640.0	2442.9	97.4	103.5	119.8	130.7	121.6	113.8	102.3	90.8	88.3
57.5°	4569.9	2203.8	79.3	80.5	101.1	110.1	99.8	90.8	78.1	68.4	66.6
60°	4421.0	1938.2	65.4	60.5	78.1	85.9	79.3	70.2	58.7	51.4	50.8
62.5°	4125.7	1655.0	53.9	47.2	59.3	66.0	61.7	55.1	45.4	40.5	39.9
65°	3504.8	1324.0	43.6	38.1	46.0	51.4	47.8	43.0	35.7	32.1	31.5
67.5°	2446.5	895.0	35.7	31.5	36.3	40.5	37.5	35.1	28.4	27.8	28.4
70°	1180.0	431.4	29.7	25.4	28.4	31.5	30.3	28.4	27.2	31.5	36.3
72.5°	338.3	144.6	23.6	21.2	23.0	24.8	26.0	25.4	29.7	38.1	44.2
73°	260.2	116.8	22.4	20.0	21.8	24.2	25.4	24.8	30.3	38.7	44.2
75°	111.3	56.3	16.9	16.3	18.2	21.2	22.4	22.4	30.3	39.3	42.4
77.5°	50.2	30.3	10.9	12.7	15.7	16.9	18.8	18.8	24.2	30.3	30.3
80°	28.4	16.3	8.5	9.7	11.5	11.5	11.5	10.3	10.9	12.1	13.3
82.5°	18.2	10.9	6.7	7.9	7.3	6.1	4.8	4.8	4.2	4.8	6.1
85°	10.3	6.1	6.1	4.8	3.0	2.4	3.0	2.4	0.6	0.0	0.6
87.5°	6.1	3.6	1.8	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)