

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: P323976

Luminaire Tested: **GAN-SA2D-827-U-SL4-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P323976
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-25)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA2D-827-U-SL4-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 2700K, 1200mA 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: 9472 lumens
Efficiency: N/A
Efficacy: 73.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

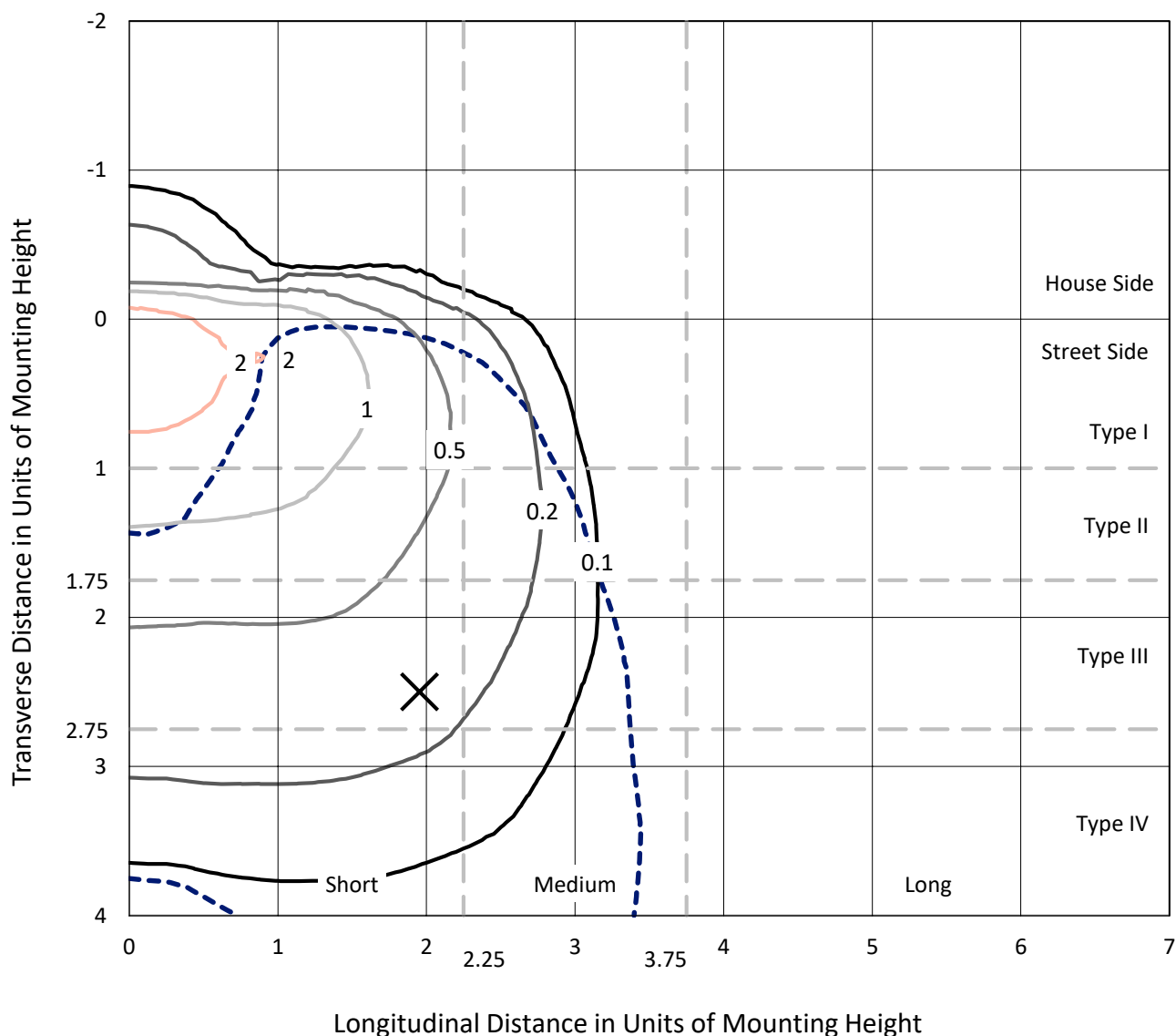
Input Watts (W): 129
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

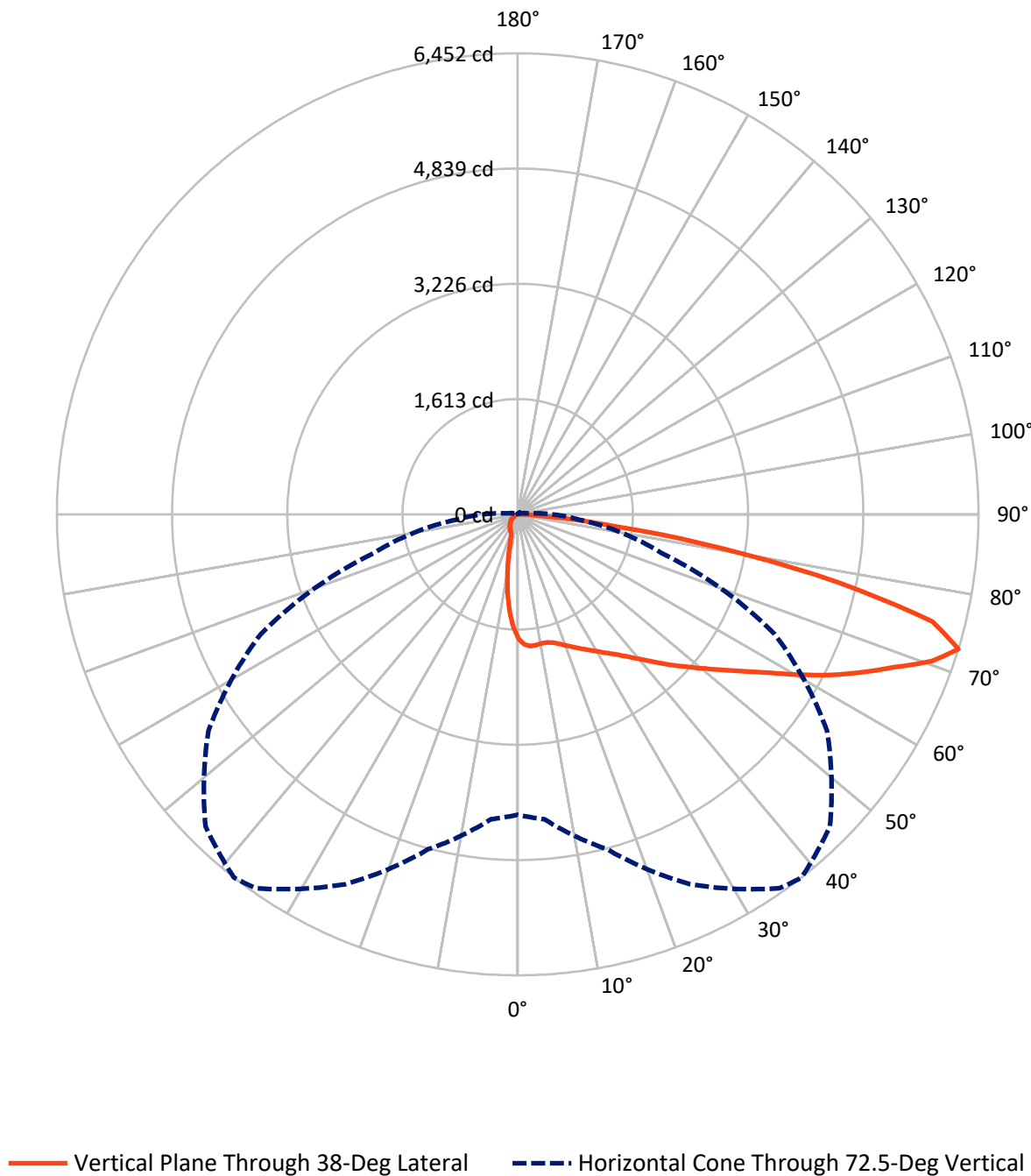
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.9 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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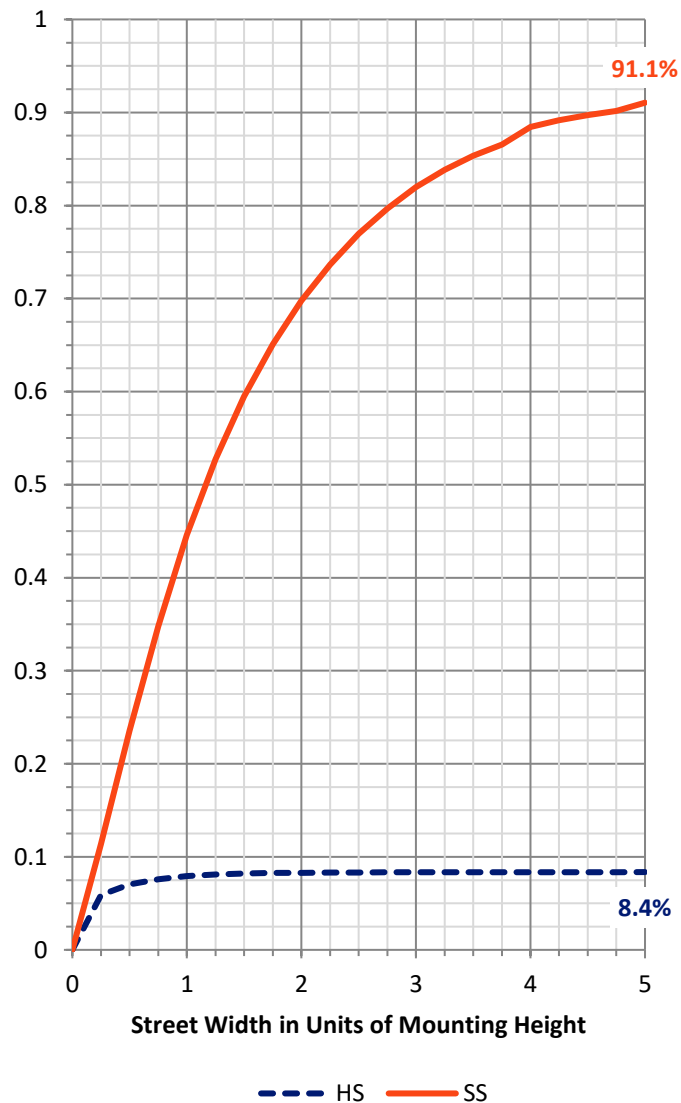
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	797.1	0.0	797.1
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	8674.9	0.0	8674.9
	% Fixture	91.6	0.0	91.6
Total	Lumens	9472.0	0.0	9472.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	148.4	1.6
10°-20°	363.0	3.8
20°-30°	577.3	6.1
30°-40°	867.9	9.2
40°-50°	1324.1	14.0
50°-60°	1871.3	19.8
60°-70°	2347.3	24.8
70°-80°	1755.1	18.5
80°-90°	217.6	2.3
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°	9472.0	100.0
0°-180°	9472.0	100.0

Coefficient of Utilization



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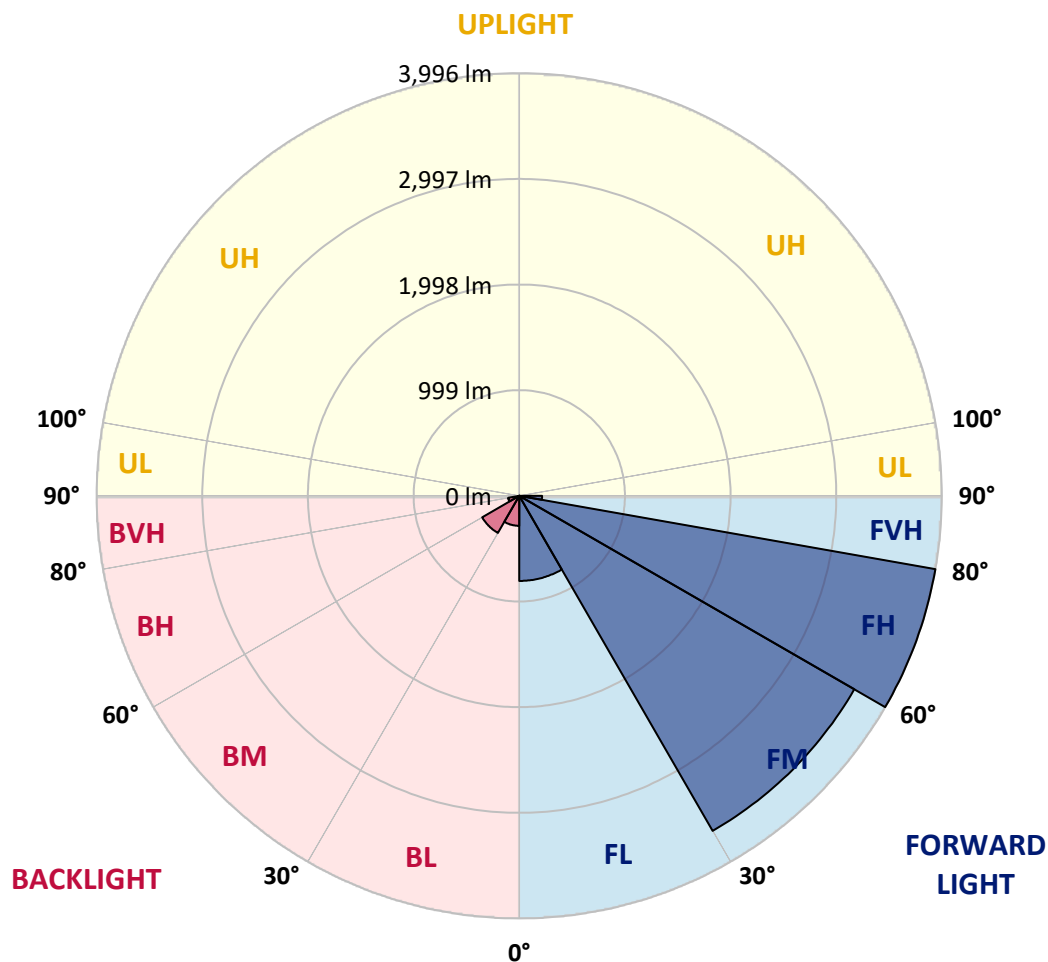
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	804.9	8.5			
FM	(30°-60°)	3658.5	38.6			
FH	(60°-80°)	3995.9	42.2			G2/5000
FVH	(80°-90°)	215.6	2.3			G2/225
BL	(0°-30°)	283.8	3.0	B1/500		
BM	(30°-60°)	404.8	4.3	B1/1000		
BH	(60°-80°)	106.5	1.1	B0/110		G0/110
BVH	(80°-90°)	2.0	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-G2

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	1741.9	1741.9	1741.9	1741.9	1741.9	1741.9	1741.9	1741.9	1741.9	1741.9	1741.9
2.5°	1848.9	1849.3	1844.9	1837.9	1828.8	1824.1	1816.2	1803.6	1790.3	1766.3	1740.3
5°	1886.6	1886.6	1881.1	1871.7	1857.1	1852.8	1837.9	1817.8	1790.3	1751.3	1707.6
7.5°	1882.7	1883.5	1876.0	1866.2	1851.6	1847.7	1829.6	1807.2	1772.9	1725.7	1669.9
10°	1862.2	1864.2	1858.3	1853.6	1840.2	1835.9	1819.0	1796.5	1762.3	1712.0	1647.9
12.5°	1841.4	1843.4	1845.3	1849.7	1841.4	1839.8	1826.4	1807.6	1774.9	1722.6	1650.2
15°	1828.0	1832.0	1846.1	1863.0	1865.0	1863.4	1854.8	1837.1	1804.0	1749.7	1667.1
17.5°	1828.0	1834.3	1863.8	1896.1	1907.5	1908.7	1901.2	1876.4	1837.1	1778.8	1682.9
20°	1843.4	1852.0	1898.0	1943.7	1962.6	1962.6	1948.0	1913.4	1867.4	1805.2	1693.5
22.5°	1882.7	1894.1	1951.9	2004.6	2024.7	2020.4	2000.7	1950.4	1898.8	1835.1	1706.9
25°	1960.2	1968.8	2029.0	2082.1	2094.3	2084.5	2059.7	1995.2	1939.0	1875.6	1731.2
27.5°	2060.1	2061.3	2123.4	2168.3	2160.8	2154.1	2123.1	2051.5	1996.8	1933.4	1773.3
30°	2169.9	2169.9	2224.5	2258.8	2236.0	2230.4	2199.4	2119.5	2070.7	2012.1	1833.1
32.5°	2276.1	2280.8	2325.2	2346.9	2321.3	2315.8	2285.5	2205.7	2169.1	2132.1	1926.4
35°	2378.7	2382.3	2424.4	2436.2	2411.8	2413.4	2391.7	2324.1	2310.3	2305.6	2066.8
37.5°	2478.3	2479.1	2521.9	2529.4	2517.2	2530.6	2532.6	2472.8	2498.3	2536.5	2264.7
40°	2569.1	2569.9	2612.4	2631.7	2652.5	2669.8	2685.2	2653.3	2737.9	2826.4	2500.3
42.5°	2641.9	2650.2	2704.1	2740.7	2795.7	2828.8	2870.5	2868.9	3023.1	3156.1	2785.1
45°	2706.0	2720.2	2795.3	2859.5	2953.9	3006.6	3071.9	3123.0	3344.1	3523.1	3073.4
47.5°	2790.6	2804.0	2889.7	2994.8	3120.7	3189.9	3298.1	3408.6	3696.9	3883.4	3355.1
50°	2909.8	2903.9	2988.5	3139.1	3300.8	3391.7	3545.9	3711.5	4047.1	4197.3	3520.7
52.5°	3036.9	3034.5	3097.1	3296.1	3513.2	3619.5	3823.2	4024.6	4381.8	4413.7	3596.6
55°	3194.2	3177.3	3230.0	3475.1	3765.4	3879.5	4119.4	4334.6	4648.5	4535.6	3634.8
57.5°	3359.0	3331.1	3381.5	3674.5	4049.8	4184.7	4447.5	4636.7	4825.9	4619.0	3634.4
60°	3529.4	3496.3	3556.1	3923.9	4403.1	4559.2	4803.1	4840.9	4991.5	4661.1	3607.7
62.5°	3671.8	3652.1	3741.0	4190.6	4797.6	4951.0	5071.8	5026.6	5131.2	4693.8	3545.1
65°	3822.4	3823.6	3967.2	4501.8	5217.0	5320.4	5330.6	5267.3	5248.0	4687.1	3333.5
67.5°	4026.2	4045.1	4284.7	4924.3	5624.9	5704.7	5704.0	5528.1	5333.4	4421.2	2864.2
70°	4241.8	4286.2	4650.5	5407.7	6070.2	6151.2	6109.5	5694.1	5021.8	3575.0	2027.1
72.5°	4205.6	4282.7	4853.9	5712.6	6390.0	6451.8	6180.7	5286.2	3969.2	2077.8	863.1
75°	3244.6	3333.9	4450.7	5410.5	6054.5	5999.0	5310.6	4113.5	2169.1	579.8	194.3
77.5°	1713.9	1761.5	2940.1	4121.8	4720.9	4604.9	3741.0	2282.0	661.3	143.6	87.3
80°	897.7	908.7	1281.2	2338.6	2913.7	2914.5	2217.1	1002.3	272.6	73.6	58.6
82.5°	480.7	490.1	677.0	1080.6	1526.7	1383.9	848.9	551.5	158.5	41.7	56.3
85°	115.7	117.6	383.9	493.7	600.3	428.8	252.2	463.0	42.9	24.4	45.6
87.5°	44.5	45.2	142.4	213.6	153.0	99.1	118.0	172.7	5.5	9.4	7.1
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°	1741.9	1741.9	1741.9	1741.9	1741.9	1741.9	1741.9	1741.9	1741.9	1741.9	1741.9
2.5°	1724.6	1714.3	1689.2	1657.3	1629.0	1608.5	1577.8	1557.8	1544.4	1544.0	1538.9
5°	1680.9	1660.0	1605.8	1541.2	1482.6	1429.9	1367.8	1318.6	1282.0	1276.1	1263.5
7.5°	1634.1	1599.9	1516.5	1415.8	1317.4	1217.5	1101.5	1029.5	967.7	938.2	935.1
10°	1605.4	1557.4	1439.0	1293.4	1139.2	976.8	824.9	719.9	644.0	622.3	606.2
12.5°	1599.5	1536.1	1379.2	1178.6	958.3	743.5	575.5	463.8	403.2	383.9	378.8
15°	1605.4	1526.3	1328.8	1064.9	775.0	527.5	386.3	321.4	298.6	293.1	292.7
17.5°	1608.9	1514.5	1271.8	938.6	597.1	376.9	295.8	276.9	273.4	273.0	273.8
20°	1608.5	1496.4	1203.7	797.8	444.1	296.2	267.5	263.6	262.8	263.2	262.8
22.5°	1605.8	1475.2	1129.0	652.6	335.5	264.7	255.3	252.9	252.5	252.5	252.5
25°	1610.9	1458.2	1046.8	513.7	276.5	250.2	244.3	242.3	241.9	241.9	241.1
27.5°	1629.4	1448.8	956.7	395.3	249.8	237.2	232.5	232.1	230.9	230.5	231.3
30°	1659.3	1448.8	858.0	307.6	233.7	223.8	220.3	219.5	219.1	218.7	219.1
32.5°	1712.0	1459.8	750.2	255.7	218.3	208.9	206.5	207.7	206.5	206.5	206.5
35°	1807.2	1492.9	637.3	223.0	202.2	194.3	192.0	193.5	192.8	192.8	192.4
37.5°	1946.0	1554.2	523.6	203.4	188.0	179.8	176.6	179.0	178.2	178.2	177.8
40°	2115.2	1643.5	415.4	188.4	174.3	165.6	162.9	164.0	162.1	162.1	162.9
42.5°	2324.1	1756.8	321.0	173.9	160.5	152.2	150.7	149.5	145.9	144.0	144.4
45°	2556.2	1874.8	250.2	159.7	147.5	140.8	138.5	135.3	129.4	125.5	125.9
47.5°	2763.5	1965.7	203.4	145.9	135.7	130.6	127.1	121.2	112.5	107.8	108.2
50°	2872.4	1979.5	173.1	132.2	124.7	119.6	114.5	105.4	95.2	90.1	89.7
52.5°	2900.4	1915.0	150.7	119.6	113.7	107.8	101.1	88.9	77.5	72.0	71.2
55°	2910.6	1816.6	130.6	107.8	101.9	95.2	86.5	72.8	62.2	56.6	56.3
57.5°	2876.8	1669.9	114.9	97.2	90.1	81.8	71.2	58.2	48.0	43.7	43.7
60°	2801.6	1471.2	102.7	85.8	77.9	68.4	57.4	45.2	35.8	32.3	32.3
62.5°	2651.7	1214.0	91.3	74.0	66.5	56.6	46.4	34.2	25.2	23.2	23.6
65°	2368.9	920.9	79.9	63.3	56.6	46.8	36.2	24.4	16.9	16.9	17.7
67.5°	1931.9	639.6	68.1	53.9	48.8	38.2	27.5	16.9	11.8	13.4	14.9
70°	1278.9	358.8	58.2	44.5	41.7	30.3	20.5	11.4	9.4	12.6	15.3
72.5°	482.7	139.6	48.8	35.8	36.2	23.2	14.6	8.7	8.7	13.8	18.1
75°	134.5	68.4	35.0	26.4	28.3	16.9	10.6	7.5	8.3	15.7	21.2
77.5°	79.1	50.4	22.8	15.3	19.3	11.8	7.1	5.9	7.1	13.4	20.5
80°	63.7	26.7	13.4	7.9	10.6	6.7	4.7	3.5	2.0	5.1	10.6
82.5°	63.7	16.1	6.3	5.5	5.5	3.5	2.4	1.6	0.4	0.0	2.8
85°	42.9	6.7	3.9	3.5	2.8	1.2	0.8	0.4	0.0	0.0	0.0
87.5°	7.1	2.8	1.6	0.8	0.4	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)