

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: P320126

Luminaire Tested: **GAN-SA2C-827-U-SL4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P320126
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-24)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA2C-827-U-SL4
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10109 lumens
Efficiency: N/A
Efficacy: 89.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

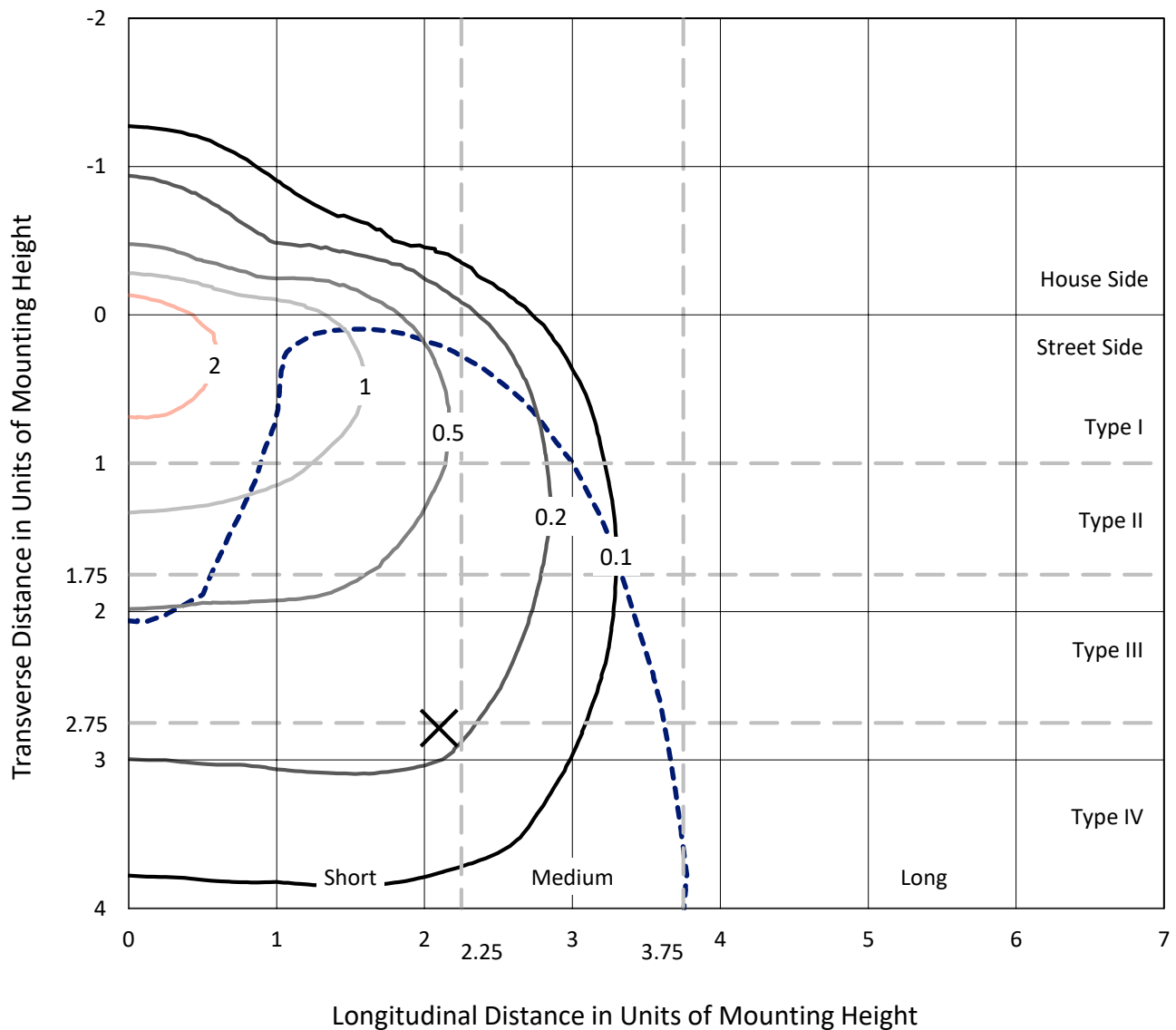
Input Watts (W): 113
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

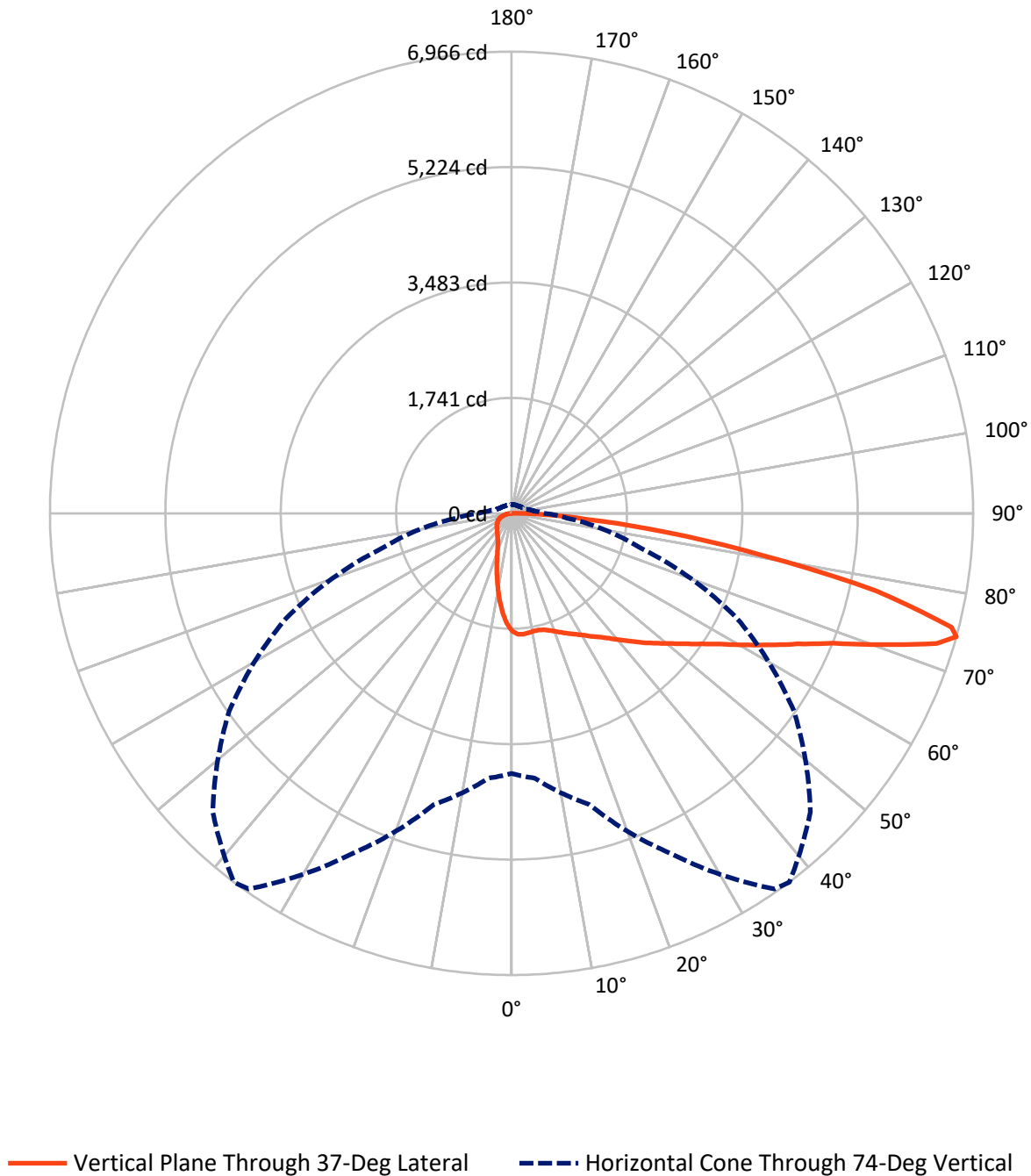
× Max cd
 - - - 1/2 Max cd



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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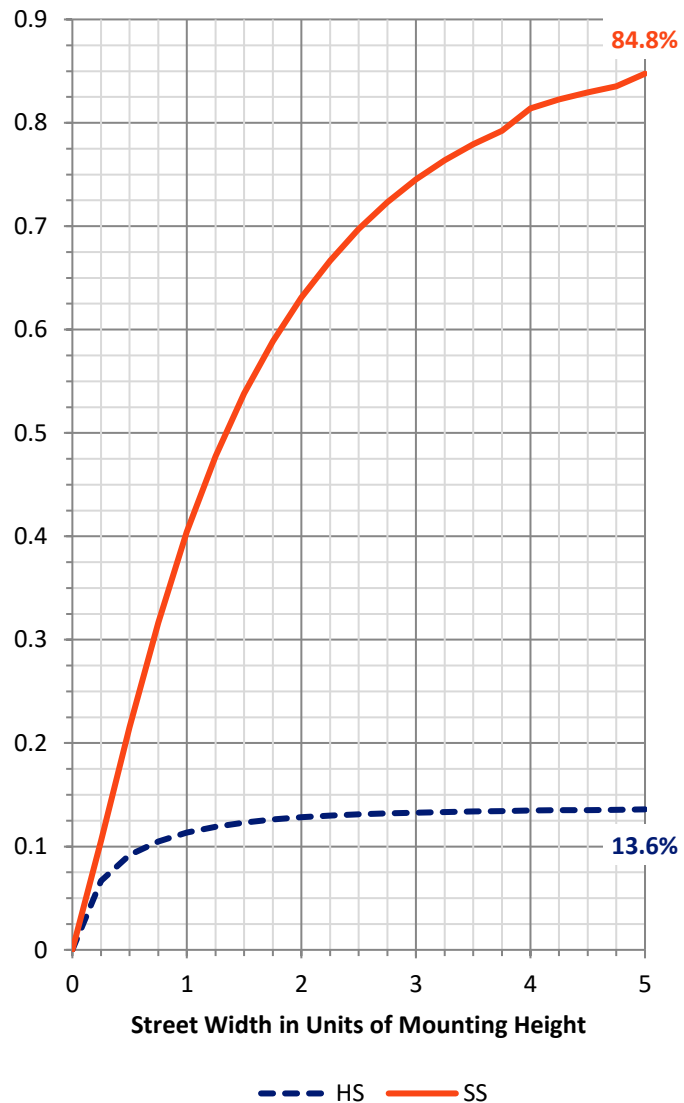
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1390.9	0.0	1390.9
	% Fixture	13.8	0.0	13.8
Street Side	Lumens	8718.1	0.0	8718.1
	% Fixture	86.2	0.0	86.2
Total	Lumens	10109.0	0.0	10109.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	156.9	1.6
10°-20°	402.1	4.0
20°-30°	619.5	6.1
30°-40°	900.8	8.9
40°-50°	1325.9	13.1
50°-60°	1861.9	18.4
60°-70°	2356.6	23.3
70°-80°	2075.1	20.5
80°-90°	410.3	4.1
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°	10109.0	100.0
0°-180°	10109.0	100.0

Coefficient of Utilization



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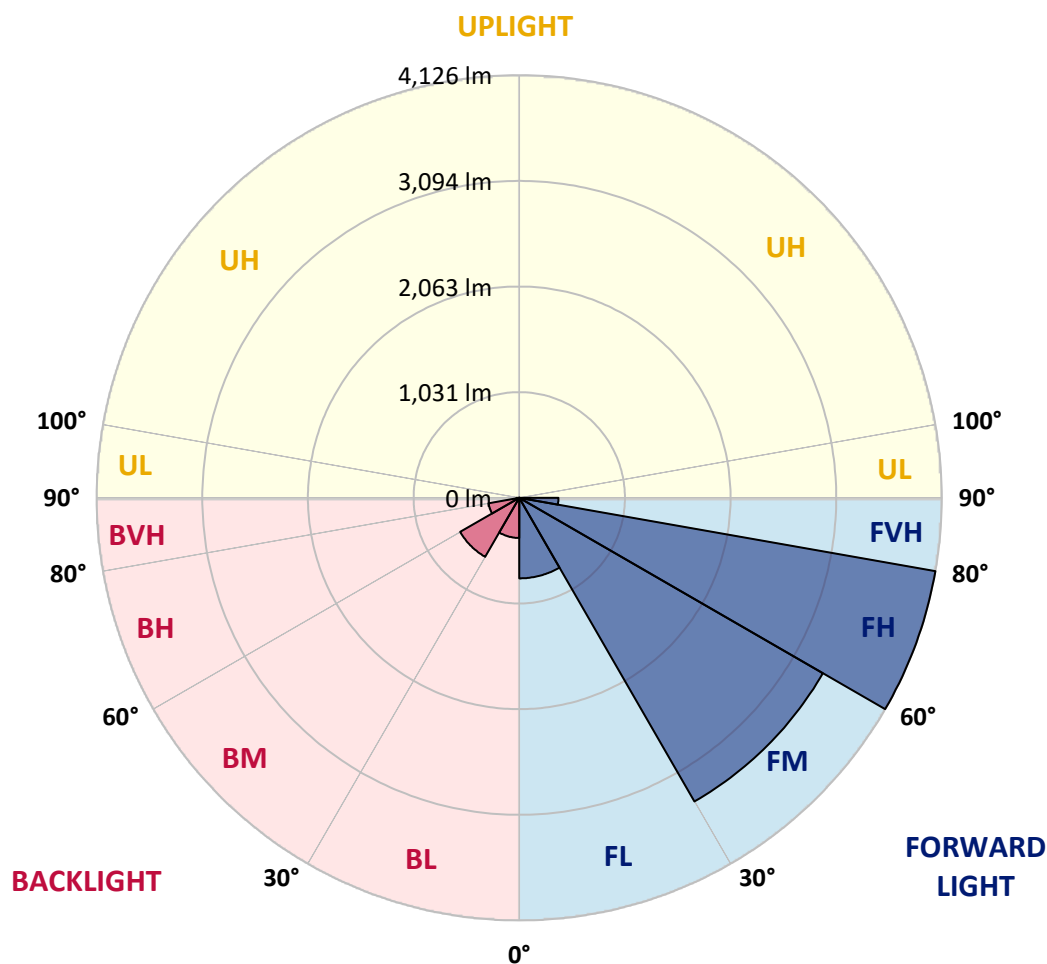
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	786.6	7.8			
FM	(30°-60°)	3423.0	33.9			
FH	(60°-80°)	4126.0	40.8			G2/5000
FVH	(80°-90°)	382.5	3.8			G3/500
BL	(0°-30°)	391.8	3.9	B1/500		
BM	(30°-60°)	665.6	6.6	B1/1000		
BH	(60°-80°)	305.7	3.0	B1/500		G1/500
BVH	(80°-90°)	27.8	0.3			G1/100
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°	35°	37°	45°	55°	65°	75°	85°
0°	1781.2	1781.2	1781.2	1781.2	1781.2	1781.2	1781.2	1781.2	1781.2	1781.2	1781.2
2.5°	1842.1	1842.4	1842.1	1839.2	1832.4	1826.7	1822.1	1815.4	1800.4	1789.0	1771.9
5°	1859.5	1857.4	1855.9	1850.6	1839.9	1833.5	1824.6	1811.8	1787.2	1764.4	1736.7
7.5°	1851.3	1848.8	1845.6	1839.2	1827.1	1821.8	1809.3	1792.6	1763.0	1733.1	1693.2
10°	1826.0	1825.3	1823.9	1822.5	1812.1	1807.9	1796.5	1778.7	1749.5	1713.2	1666.5
12.5°	1797.9	1799.7	1805.4	1812.9	1808.2	1806.1	1799.0	1786.9	1757.0	1717.8	1661.5
15°	1780.1	1785.1	1800.4	1820.0	1823.9	1823.2	1821.4	1813.6	1781.9	1738.4	1672.9
17.5°	1774.0	1782.2	1811.4	1843.8	1855.2	1857.7	1858.4	1844.9	1809.7	1763.7	1684.7
20°	1785.1	1795.4	1838.1	1882.7	1900.8	1902.2	1899.0	1875.5	1836.0	1785.4	1691.1
22.5°	1818.6	1827.8	1881.2	1931.4	1952.1	1954.2	1944.6	1909.0	1863.8	1811.1	1700.0
25°	1883.0	1894.4	1947.8	1998.0	2008.7	2009.1	1995.2	1951.0	1900.1	1847.0	1719.2
27.5°	1967.0	1978.4	2026.5	2075.7	2070.0	2066.8	2047.9	2003.7	1947.5	1896.5	1753.4
30°	2060.7	2073.2	2118.7	2153.6	2140.1	2133.7	2118.4	2061.4	2013.3	1964.2	1805.7
32.5°	2157.6	2168.9	2208.8	2232.7	2215.6	2212.7	2189.6	2137.6	2099.2	2067.5	1890.5
35°	2256.9	2265.1	2304.3	2317.8	2295.0	2294.3	2287.9	2240.2	2216.0	2230.9	2013.7
37.5°	2358.4	2360.5	2394.0	2394.7	2387.9	2390.8	2397.6	2367.6	2374.4	2421.1	2173.9
40°	2448.8	2454.5	2478.7	2486.2	2498.0	2507.9	2541.8	2522.2	2574.5	2657.2	2373.3
42.5°	2515.8	2526.8	2565.6	2584.9	2623.0	2638.6	2686.3	2704.5	2809.9	2933.8	2610.5
45°	2572.4	2589.5	2651.8	2691.3	2755.8	2783.2	2851.6	2912.5	3075.9	3234.0	2860.1
47.5°	2633.6	2655.4	2733.4	2808.8	2896.4	2927.4	3051.7	3142.9	3359.7	3536.0	3095.5
50°	2723.7	2740.5	2816.7	2935.3	3044.6	3084.5	3256.5	3387.1	3648.2	3823.7	3299.5
52.5°	2849.4	2843.0	2907.5	3073.8	3220.5	3269.6	3475.1	3647.1	3940.5	4084.0	3471.9
55°	2975.9	2965.2	3010.4	3218.7	3425.6	3477.2	3715.8	3908.1	4218.6	4318.3	3604.0
57.5°	3116.5	3096.2	3134.3	3382.2	3659.2	3720.8	3985.4	4185.5	4492.1	4507.8	3688.0
60°	3261.4	3234.0	3276.7	3584.8	3955.8	4028.5	4300.9	4456.1	4749.9	4659.4	3715.1
62.5°	3388.2	3369.0	3434.9	3810.9	4290.2	4369.9	4610.7	4743.8	5004.1	4722.5	3617.5
65°	3498.9	3502.2	3616.1	4065.1	4663.0	4748.1	4966.0	5098.5	5204.3	4685.1	3389.3
67.5°	3631.1	3649.2	3843.6	4399.9	5132.3	5225.6	5483.1	5485.2	5316.1	4465.7	2939.9
70°	3823.7	3861.1	4156.6	4864.2	5799.7	5927.8	6126.5	5712.4	5159.0	3871.1	2313.2
72.5°	3994.6	4064.4	4489.6	5395.5	6613.0	6710.2	6502.9	5581.4	4502.8	2901.1	1441.1
74°	3925.2	4011.7	4550.1	5657.2	6919.2	6965.8	6375.8	5198.9	3754.3	2009.1	837.5
75°	3775.6	3869.6	4461.8	5654.7	6880.4	6854.4	6068.9	4762.0	3091.9	1370.2	557.3
77.5°	3047.1	3146.4	3759.6	4846.4	5641.5	5617.0	4661.9	3194.5	1354.2	449.4	283.1
80°	1771.6	1847.4	2333.8	3077.7	3804.1	3848.6	3065.9	1580.7	532.7	252.5	191.9
82.5°	787.0	839.3	1127.4	1571.1	2295.7	2353.0	1605.6	828.3	329.0	153.5	115.4
85°	516.3	555.1	684.4	748.1	1093.2	1132.4	785.9	644.9	217.2	84.4	84.7
87.5°	371.4	408.8	508.5	444.0	501.7	475.0	427.7	596.8	87.2	48.1	28.5
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°	1781.2	1781.2	1781.2	1781.2	1781.2	1781.2	1781.2	1781.2	1781.2	1781.2	1781.2
2.5°	1764.4	1758.7	1745.9	1721.7	1708.2	1696.8	1677.9	1666.9	1661.9	1661.5	1663.7
5°	1720.6	1707.5	1674.3	1633.7	1601.3	1571.8	1535.1	1513.0	1497.4	1488.1	1490.6
7.5°	1669.7	1649.1	1597.1	1532.3	1480.3	1422.9	1366.3	1332.5	1306.1	1286.6	1290.1
10°	1634.8	1606.3	1530.5	1437.2	1350.7	1267.3	1189.3	1142.7	1105.7	1077.2	1079.3
12.5°	1623.1	1584.6	1479.6	1354.9	1233.5	1119.5	1017.7	946.1	908.0	875.6	878.1
15°	1624.8	1573.2	1436.8	1280.9	1128.1	984.6	861.0	777.3	725.7	703.3	703.6
17.5°	1626.3	1560.0	1392.0	1201.5	1023.8	858.5	724.3	639.5	590.8	570.1	570.5
20°	1621.6	1538.7	1336.4	1110.3	914.8	742.8	612.8	540.9	503.9	487.8	487.8
22.5°	1615.6	1513.4	1273.7	1018.8	807.3	642.4	533.1	478.2	456.9	446.2	445.8
25°	1618.4	1494.5	1209.6	924.8	708.3	562.3	480.0	443.7	429.4	422.7	422.3
27.5°	1633.7	1485.6	1150.5	831.1	621.7	502.1	444.4	418.8	409.5	405.2	405.2
30°	1661.5	1485.6	1088.9	751.4	549.8	457.6	417.0	399.5	393.1	390.3	390.3
32.5°	1709.9	1493.8	1029.5	672.3	492.5	422.7	394.2	382.4	377.5	376.0	376.0
35°	1793.3	1521.6	971.4	597.5	446.2	394.2	372.5	365.7	362.1	361.8	362.9
37.5°	1910.4	1578.2	916.9	542.3	413.4	371.0	354.3	349.0	346.8	348.6	350.0
40°	2057.8	1655.1	867.4	492.5	388.5	352.5	337.6	334.0	332.9	335.4	337.6
42.5°	2235.9	1759.1	826.8	456.5	369.3	336.9	323.3	319.1	318.0	320.8	323.7
45°	2428.5	1870.9	798.4	429.8	354.3	325.1	310.9	306.2	304.1	305.5	308.7
47.5°	2603.7	1976.7	787.0	410.9	340.1	315.1	299.8	294.1	290.6	289.9	292.4
50°	2751.5	2055.4	792.3	399.5	328.7	304.1	289.1	282.7	277.4	274.2	276.0
52.5°	2859.1	2104.9	797.3	394.5	319.8	292.0	277.4	271.3	264.2	258.9	258.9
55°	2937.0	2116.2	786.2	390.6	313.0	278.8	264.2	258.5	251.4	245.3	244.6
57.5°	2967.7	2084.2	745.3	384.9	308.4	266.4	250.3	246.1	240.0	232.9	232.5
60°	2926.4	1985.2	666.2	372.8	302.3	256.0	236.4	233.6	230.7	224.0	223.6
62.5°	2760.4	1768.0	564.0	348.3	290.2	245.0	223.6	225.0	225.4	220.8	220.1
65°	2459.5	1469.6	464.3	316.2	272.1	231.8	210.4	217.2	221.1	220.4	219.4
67.5°	2022.2	1143.8	393.5	282.4	248.2	213.7	196.2	204.0	207.2	209.7	209.0
70°	1500.9	806.5	325.5	246.8	219.4	192.3	177.7	181.6	179.5	182.3	183.4
72.5°	836.8	483.9	265.3	211.2	189.4	167.4	157.0	156.3	151.7	151.7	151.7
74°	502.1	355.0	233.2	189.1	171.3	151.0	142.1	138.9	134.6	135.0	134.6
75°	403.8	305.2	214.0	174.5	158.5	141.4	132.5	128.2	125.0	125.0	124.6
77.5°	255.0	231.8	172.3	138.9	126.8	116.4	110.4	104.7	104.7	104.3	104.0
80°	192.6	184.5	134.2	105.0	97.2	89.4	85.5	83.0	83.0	84.0	83.7
82.5°	132.1	138.9	94.4	73.4	69.4	63.7	63.0	63.4	62.3	60.9	60.5
85°	96.5	104.3	63.7	46.3	42.4	38.8	41.7	43.1	41.3	38.1	36.7
87.5°	37.0	68.4	34.2	19.2	17.8	15.3	17.8	18.5	19.9	15.7	16.0
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)