

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: P199935

Luminaire Tested: **GAP-AF-01-LED-U-AFL-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P199935
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24165)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAP-AF-01-LED-U-AFL-7030
Description: GALLEON PEDESTRIAN LUMINAIRE
(1) 70 CRI, 3000K, 1050mA LIGHTSQUARE WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6307.5 lumens
Efficiency: N/A
Efficacy: 106.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B1 - U0 - G1

Input Watts (W): 59
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: 28.75 FT



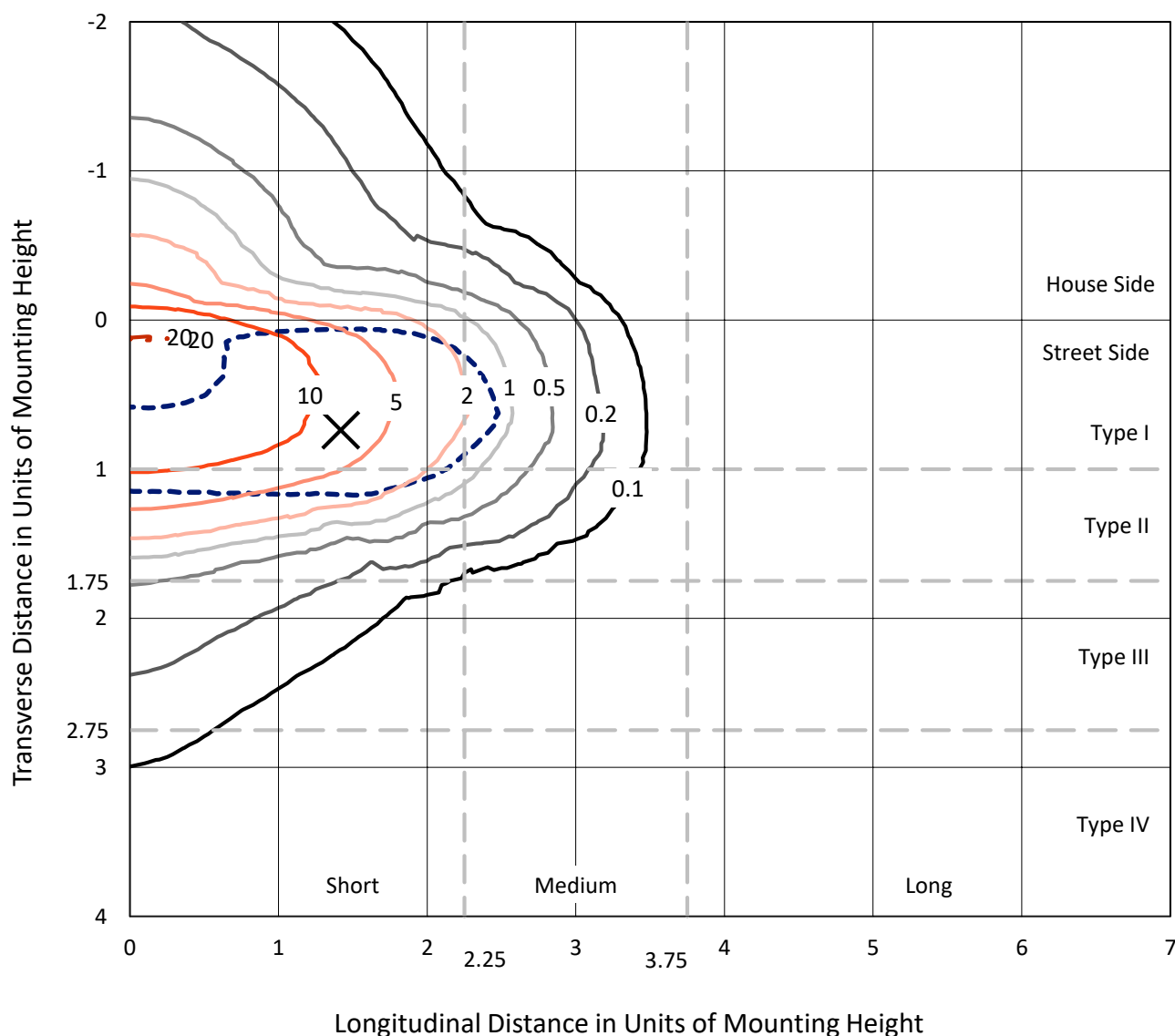
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

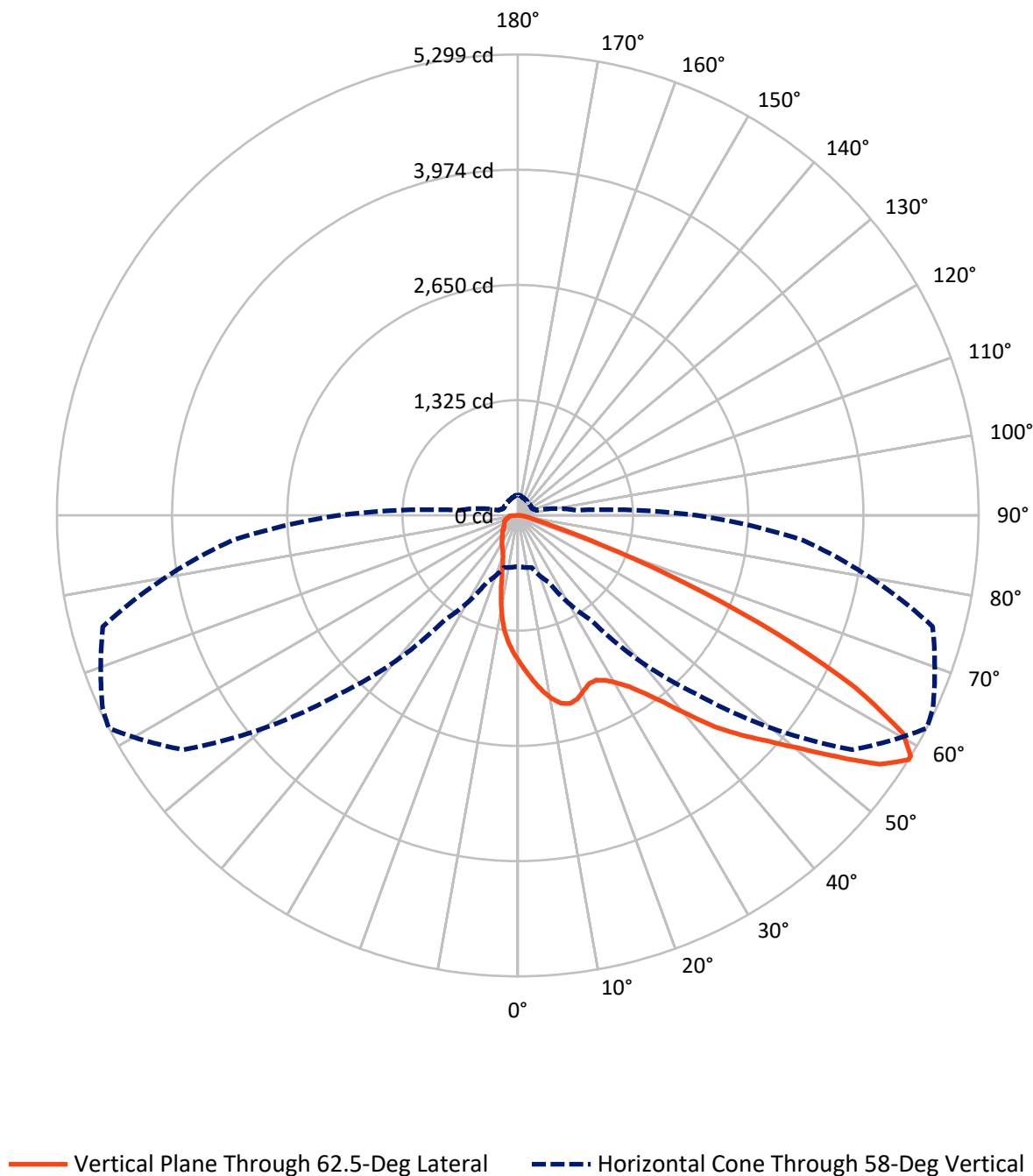


Based on 10 foot mounting height. Maximum calculated value = 20.4 fc
 Type II - Short - Full Cutoff

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Luminous Intensity Polar Plot



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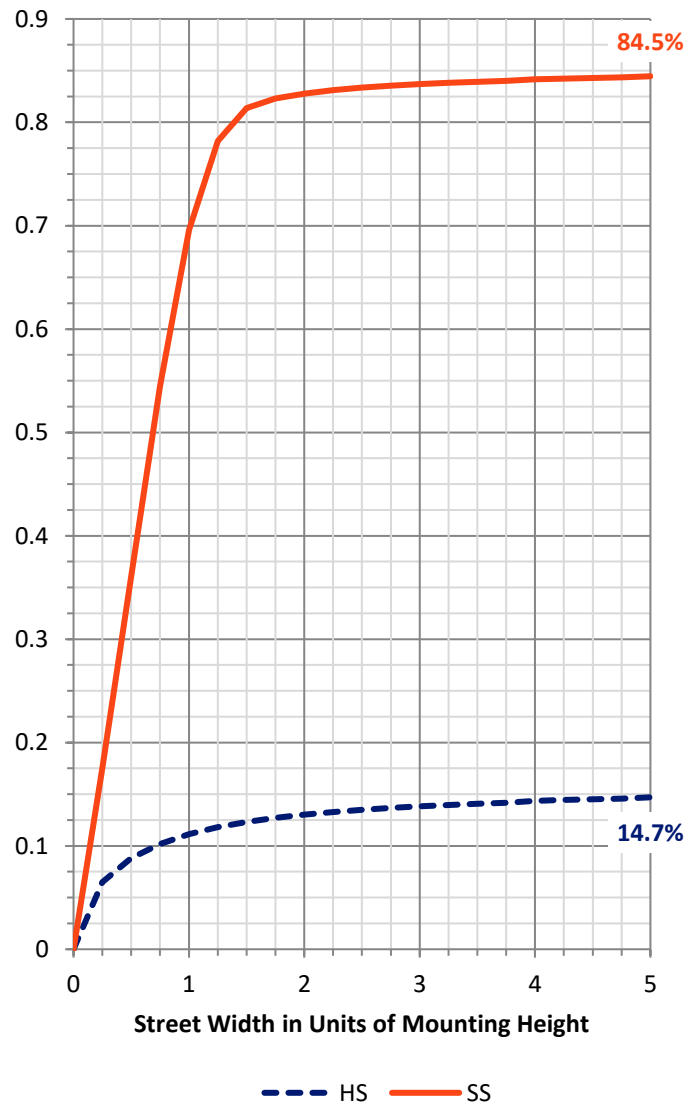
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	961.9	0.0	961.9
	% Fixture	15.3	0.0	15.3
Street Side	Lumens	5345.6	0.0	5345.6
	% Fixture	84.7	0.0	84.7
Total	Lumens	6307.5	0.0	6307.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	149.8	2.4
10°-20°	383.0	6.1
20°-30°	619.2	9.8
30°-40°	982.9	15.6
40°-50°	1438.2	22.8
50°-60°	1504.3	23.8
60°-70°	888.7	14.1
70°-80°	250.4	4.0
80°-90°	90.9	1.4
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°	6307.5	100.0
0°-180°	6307.5	100.0

Coefficient of Utilization



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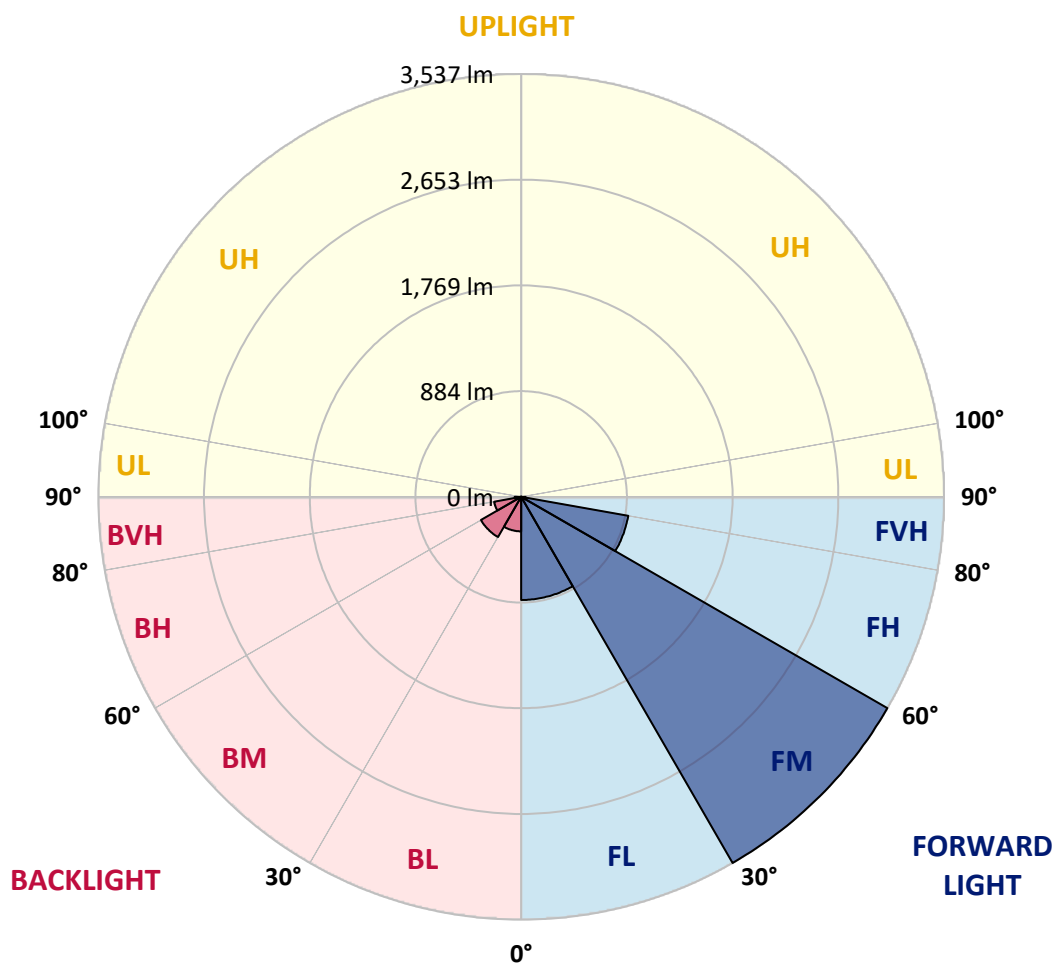
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	863.0	13.7			
FM	(30°-60°)	3537.2	56.1			
FH	(60°-80°)	909.6	14.4			G1/1800
FVH	(80°-90°)	35.9	0.6			G1/100
BL	(0°-30°)	289.1	4.6	B1/500		
BM	(30°-60°)	388.2	6.2	B1/1000		
BH	(60°-80°)	229.5	3.6	B1/500		G1/500
BVH	(80°-90°)	55.0	0.9			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	62.5°	65°	75°	85°
0°	1675.5	1675.5	1675.5	1675.5	1675.5	1675.5	1675.5	1675.5	1675.5	1675.5	1675.5
2.5°	1914.5	1899.2	1889.3	1880.7	1869.4	1845.4	1812.9	1792.5	1782.1	1746.7	1704.9
5°	2102.2	2088.6	2078.5	2066.9	2046.8	2009.1	1956.8	1915.2	1894.7	1824.0	1740.2
7.5°	2058.3	2064.0	2081.5	2112.1	2138.2	2133.2	2086.6	2033.7	2006.6	1908.3	1781.3
10°	1793.4	1803.3	1833.5	1905.1	2020.9	2139.8	2175.9	2139.4	2112.1	1991.8	1823.4
12.5°	1740.2	1740.0	1742.2	1761.3	1830.2	1997.5	2178.9	2215.8	2199.4	2071.3	1866.4
15°	1762.0	1762.5	1760.7	1768.7	1790.1	1856.4	2088.1	2245.2	2256.8	2151.6	1911.1
17.5°	1818.9	1817.4	1810.7	1810.7	1818.3	1844.2	1981.1	2217.9	2271.3	2222.6	1950.2
20°	1914.5	1907.7	1889.6	1873.0	1864.6	1878.6	1937.1	2154.8	2246.1	2284.6	1982.6
22.5°	2030.4	2025.0	1995.6	1960.0	1931.1	1930.9	1959.7	2099.9	2202.3	2343.2	2010.0
25°	2180.0	2171.5	2127.9	2070.8	2020.3	2001.0	2009.1	2097.2	2178.6	2406.8	2034.3
27.5°	2355.9	2340.3	2288.6	2206.3	2131.9	2093.1	2081.5	2145.7	2200.3	2485.4	2068.2
30°	2569.2	2551.1	2484.9	2377.6	2272.8	2208.9	2184.3	2231.5	2272.1	2581.4	2122.5
32.5°	2811.9	2785.7	2709.1	2590.9	2453.1	2355.6	2315.5	2344.9	2377.4	2696.9	2190.5
35°	3147.2	3116.0	3005.1	2842.2	2686.4	2552.6	2488.4	2509.8	2541.3	2869.1	2288.8
37.5°	3375.9	3361.9	3288.2	3134.9	2965.8	2811.6	2712.4	2724.8	2742.6	3084.5	2414.7
40°	3373.8	3379.5	3380.9	3382.4	3267.2	3119.6	3013.0	2999.8	2996.3	3320.9	2557.9
42.5°	3204.8	3227.9	3302.8	3454.6	3524.7	3457.0	3359.2	3321.5	3302.8	3599.5	2709.6
45°	2946.0	2958.6	3098.8	3395.2	3656.6	3791.1	3717.1	3598.4	3564.5	3855.5	2835.6
47.5°	2812.8	2826.4	2914.6	3237.8	3655.0	4061.0	4103.9	3877.5	3817.0	4078.3	2944.3
50°	2495.3	2523.8	2634.8	2963.8	3521.8	4185.2	4508.1	4210.2	4084.8	4295.2	3053.4
52.5°	1912.1	1956.2	2080.7	2513.6	3183.4	4123.8	4831.6	4613.6	4436.6	4519.7	3146.8
55°	1206.2	1238.9	1343.5	1775.3	2546.7	3803.9	4954.3	5049.9	4892.4	4732.3	3227.9
57.5°	655.8	670.5	709.5	980.2	1656.5	3096.7	4775.4	5298.2	5232.9	4913.0	3289.1
58°	586.9	596.7	621.0	849.5	1469.0	2903.3	4696.1	5299.1	5266.4	4939.4	3293.9
60°	435.4	430.4	408.7	484.8	817.7	2005.8	4216.8	5087.0	5182.9	4971.8	3270.7
62.5°	382.5	370.4	326.1	321.1	397.7	924.0	3226.5	4357.5	4584.2	4786.9	3130.0
65°	359.4	346.4	289.3	270.9	287.0	390.8	1900.6	3268.1	3552.3	4226.8	2769.9
67.5°	342.2	325.3	265.8	240.6	241.8	258.4	761.9	2058.3	2378.2	3209.3	2154.6
70°	325.5	307.1	246.0	216.8	210.0	204.4	302.9	1030.4	1320.5	2027.1	1373.7
72.5°	307.7	289.5	228.4	198.1	184.7	166.1	197.8	421.4	588.7	959.1	623.1
75°	281.9	265.5	210.9	181.5	162.5	137.5	149.3	220.0	264.1	382.0	300.3
77.5°	250.1	236.8	191.3	167.8	144.0	111.7	114.9	152.6	169.4	218.6	178.5
80°	179.7	184.4	170.2	150.9	128.3	90.5	88.2	111.3	120.3	140.5	116.2
82.5°	126.2	128.9	140.8	123.3	106.0	71.2	65.0	78.4	83.8	92.4	62.8
85°	87.1	84.0	96.4	85.9	76.6	47.5	44.6	53.2	56.5	57.4	32.3
87.5°	52.2	52.2	55.8	46.0	41.3	24.7	24.0	30.3	32.3	30.9	17.8
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°	1675.5	1675.5	1675.5	1675.5	1675.5	1675.5	1675.5	1675.5	1675.5	1675.5	1675.5
2.5°	1680.0	1658.9	1614.0	1578.0	1532.6	1485.4	1458.9	1430.8	1411.4	1397.4	1419.8
5°	1692.7	1649.6	1557.0	1469.0	1372.0	1270.9	1194.3	1122.9	1073.4	1042.6	1071.7
7.5°	1712.8	1646.6	1499.0	1348.7	1174.4	1006.3	856.0	761.9	706.9	679.9	696.7
10°	1736.0	1641.9	1431.1	1185.7	936.3	724.4	612.2	574.1	561.7	556.5	559.0
12.5°	1755.4	1631.8	1347.6	988.5	703.1	572.1	539.6	538.7	541.5	542.0	542.9
15°	1769.0	1616.9	1223.7	783.0	562.2	521.2	519.5	524.9	529.9	532.0	533.1
17.5°	1778.2	1586.3	1083.9	619.0	503.6	496.6	500.7	507.6	513.0	514.4	515.6
20°	1777.3	1541.5	917.2	516.2	472.0	472.0	479.1	484.4	484.8	482.9	483.8
22.5°	1768.2	1480.0	755.6	461.5	443.7	448.8	455.9	450.9	430.1	416.4	417.3
25°	1752.7	1406.7	617.2	426.7	417.6	426.5	424.5	386.4	356.7	343.4	343.4
27.5°	1739.1	1320.0	510.9	396.5	391.4	402.5	365.6	331.2	318.7	312.5	310.4
30°	1729.2	1226.3	439.9	367.4	366.8	358.8	317.2	307.7	305.6	300.6	298.9
32.5°	1731.6	1131.6	394.4	341.9	343.9	307.1	294.0	296.1	294.4	289.0	286.6
35°	1751.2	1041.7	364.7	318.7	312.5	277.4	280.4	284.3	283.6	276.2	273.8
37.5°	1786.3	956.3	345.2	299.4	272.7	262.6	267.3	273.2	271.7	266.7	265.0
40°	1823.1	876.1	329.1	284.3	249.2	252.5	256.6	259.9	261.3	262.9	261.6
42.5°	1859.0	792.4	309.5	268.8	239.4	243.0	244.7	248.0	256.0	261.6	261.3
45°	1880.5	713.7	289.3	246.8	231.6	233.7	232.6	239.1	248.9	258.1	258.4
47.5°	1904.2	652.5	273.2	226.6	224.2	225.7	222.2	228.7	237.6	248.9	250.1
50°	1933.1	616.0	260.5	210.6	214.1	214.1	213.3	219.2	231.6	244.7	247.2
52.5°	1965.7	608.9	249.7	199.0	204.1	203.8	204.7	213.6	227.3	240.1	242.1
55°	2005.5	628.2	238.1	190.4	194.3	195.5	198.5	208.4	220.0	234.7	235.6
57.5°	2051.8	667.3	229.0	183.5	185.3	189.2	193.9	203.1	215.7	231.6	232.6
58°	2059.5	675.7	227.5	183.0	183.5	188.0	193.4	202.2	214.7	232.2	233.2
60°	2059.7	703.3	224.2	180.3	176.7	184.1	190.1	199.0	213.3	234.4	236.4
62.5°	1986.8	703.1	221.9	176.5	169.6	178.8	185.6	196.0	211.8	239.4	243.5
65°	1749.5	638.8	210.6	170.5	164.0	174.0	181.8	193.9	215.9	261.3	264.1
67.5°	1368.4	523.7	189.4	162.1	156.6	169.4	179.4	193.6	220.3	266.4	268.2
70°	904.6	391.8	166.3	152.6	148.8	163.7	180.6	203.8	215.3	255.7	251.0
72.5°	469.6	275.0	147.6	140.8	139.9	158.7	197.8	202.5	210.4	240.6	234.7
75°	246.5	190.9	131.3	127.8	129.3	157.5	233.5	197.2	203.8	230.2	241.5
77.5°	150.9	154.2	117.4	115.9	118.8	153.8	233.2	190.4	194.3	211.8	224.2
80°	100.9	125.0	106.6	107.0	109.0	140.8	209.4	179.7	182.7	200.2	212.9
82.5°	63.8	74.0	96.8	101.8	99.2	116.2	177.9	163.7	167.8	229.0	242.1
85°	32.3	46.3	84.0	98.0	89.4	81.4	144.3	143.4	145.6	165.1	172.5
87.5°	14.9	25.5	65.7	85.5	67.4	50.8	104.9	106.3	114.6	117.4	117.4
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)