

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: P269854

Luminaire Tested: **GAP-AF-02-LED-U-AFL-7027-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269854
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-02-LED-U-AFL-7027-600
Description: GALLEON PEDESTRIAN LUMINAIRE
(2) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7295.4 lumens
Efficiency: N/A
Efficacy: 110.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B1 - U0 - G1

Input Watts (W): 66
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

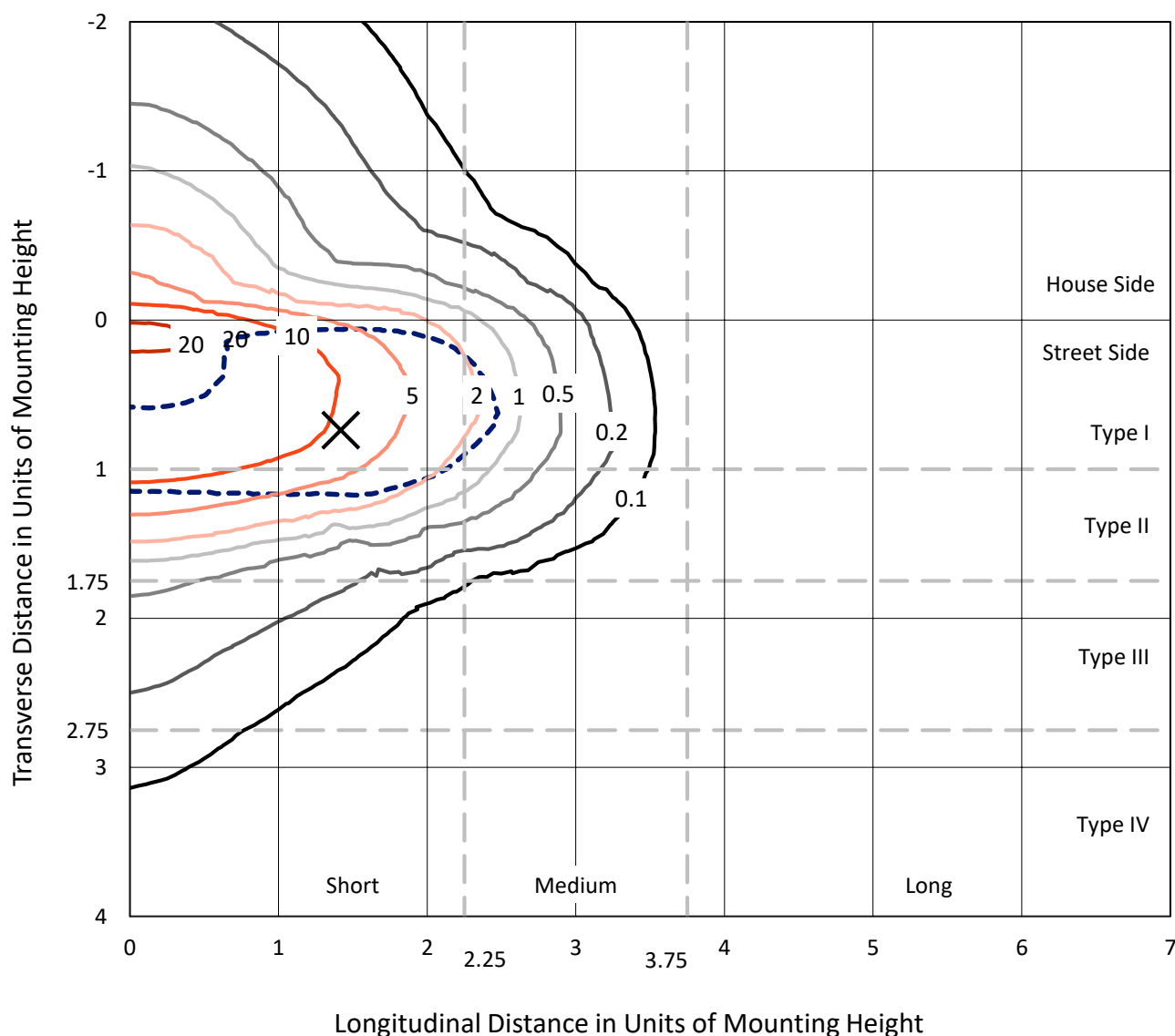


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

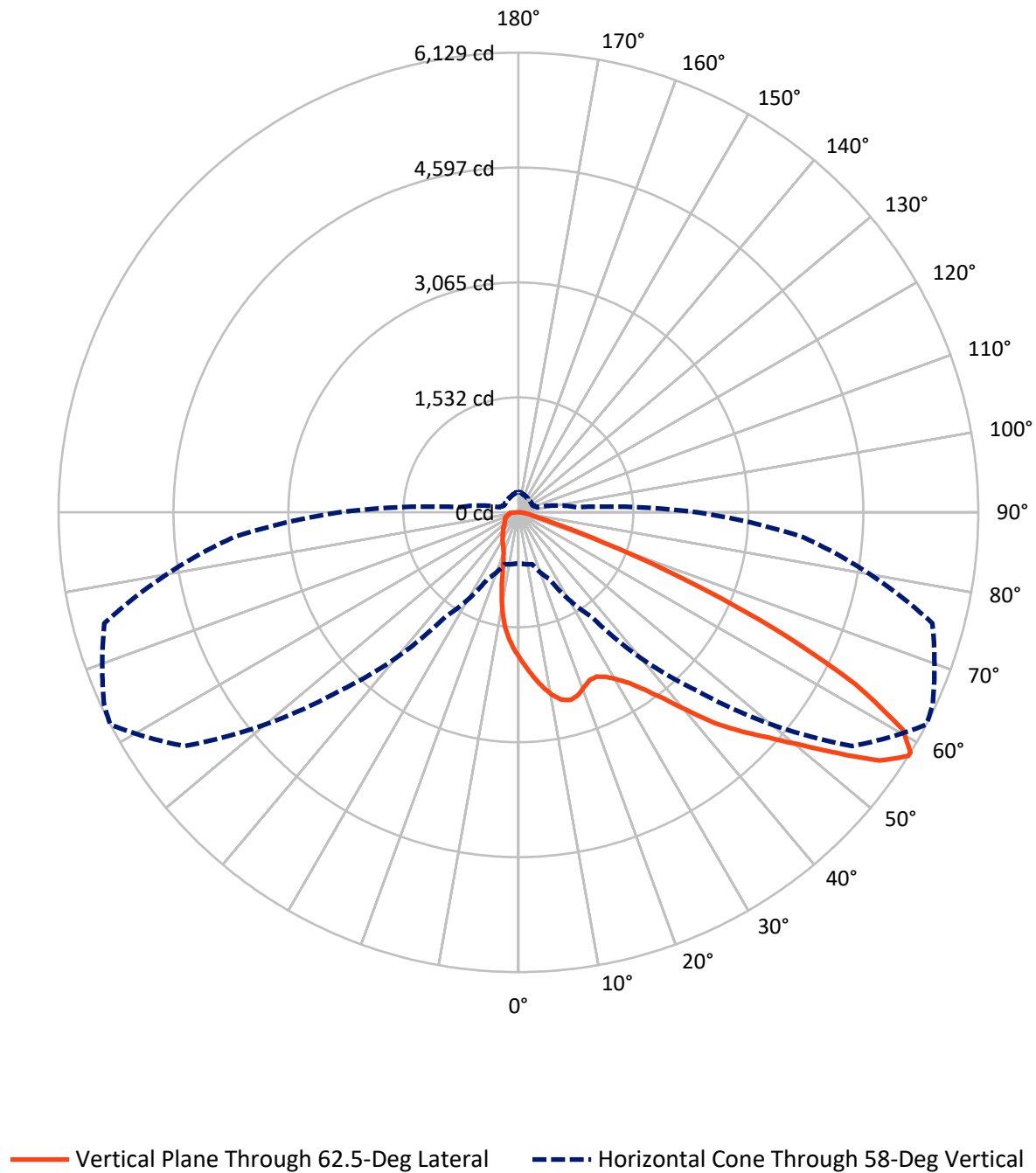


Based on 10 foot mounting height. Maximum calculated value = 23.6 fc
 Type II - Short - Full Cutoff

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Luminous Intensity Polar Plot



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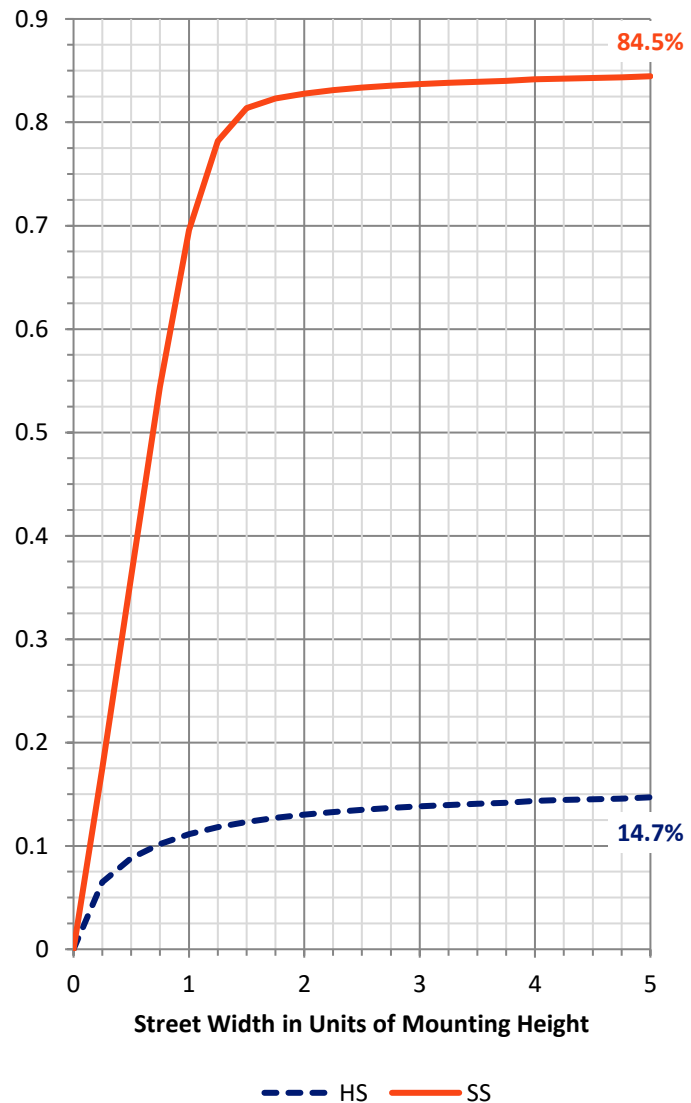
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1112.6	0.0	1112.6
	% Fixture	15.3	0.0	15.3
Street Side	Lumens	6182.8	0.0	6182.8
	% Fixture	84.7	0.0	84.7
Total	Lumens	7295.4	0.0	7295.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	173.3	2.4
10°-20°	443.0	6.1
20°-30°	716.1	9.8
30°-40°	1136.9	15.6
40°-50°	1663.5	22.8
50°-60°	1739.9	23.8
60°-70°	1027.9	14.1
70°-80°	289.6	4.0
80°-90°	105.2	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°	7295.4	100.0
0°-180°	7295.4	100.0

Coefficient of Utilization



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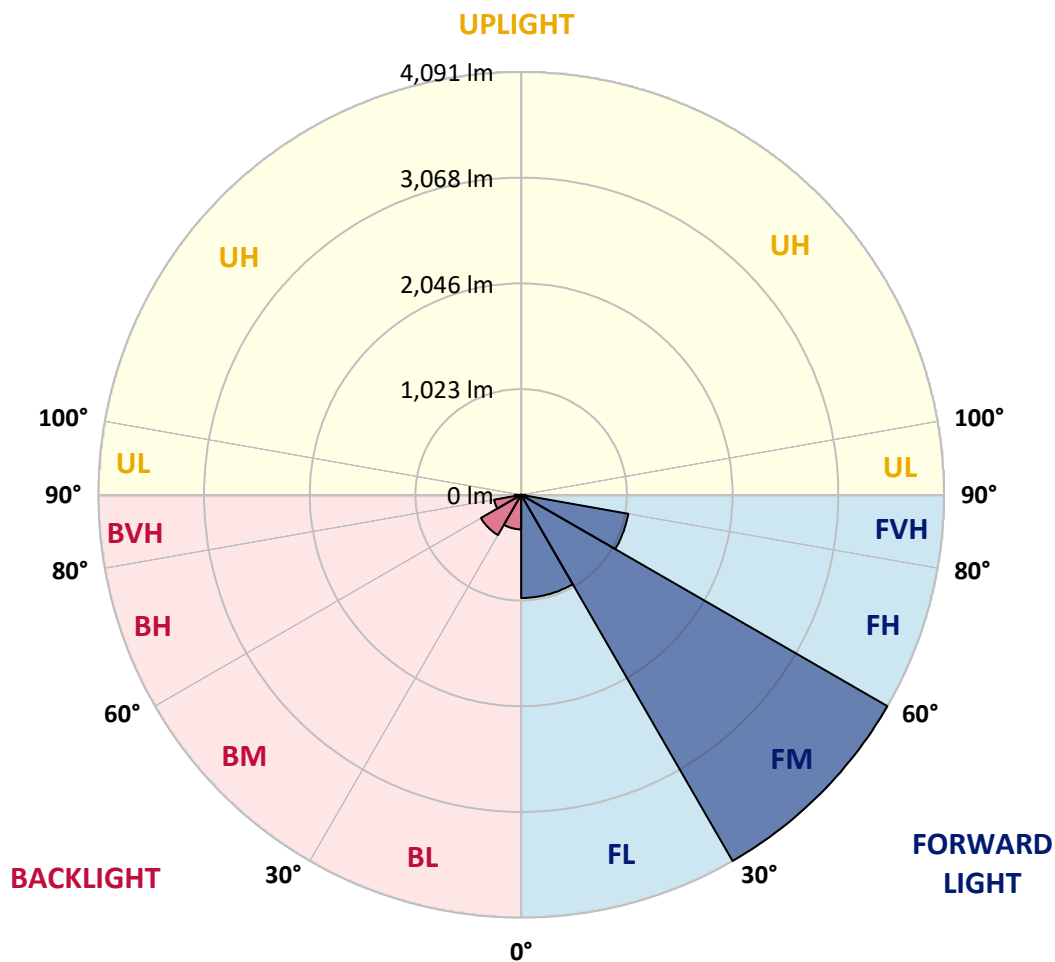
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	998.1	13.7			
FM	(30°-60°)	4091.2	56.1			
FH	(60°-80°)	1052.0	14.4			G1/1800
FVH	(80°-90°)	41.5	0.6			G1/100
BL	(0°-30°)	334.4	4.6	B1/500		
BM	(30°-60°)	449.1	6.2	B1/1000		
BH	(60°-80°)	265.5	3.6	B1/500		G1/500
BVH	(80°-90°)	63.7	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°	1937.9	1937.9	1937.9	1937.9	1937.9	1937.9	1937.9	1937.9	1937.9	1937.9	1937.9
2.5°	2214.4	2196.5	2185.1	2175.2	2162.2	2134.4	2097.0	2073.2	2061.3	2020.3	1971.9
5°	2431.5	2415.7	2404.0	2390.6	2367.3	2323.6	2263.2	2215.1	2191.3	2109.6	2012.7
7.5°	2380.7	2387.2	2407.5	2442.9	2473.0	2467.3	2413.2	2352.1	2321.0	2207.1	2060.2
10°	2074.2	2085.5	2120.5	2203.5	2337.4	2474.8	2516.7	2474.4	2442.9	2303.8	2109.0
12.5°	2012.7	2012.5	2015.2	2037.1	2116.9	2310.3	2520.1	2562.8	2543.8	2395.8	2158.7
15°	2037.8	2038.6	2036.5	2045.7	2070.5	2147.0	2415.1	2596.8	2610.1	2488.6	2210.3
17.5°	2103.8	2102.0	2094.2	2094.2	2103.1	2132.9	2291.3	2565.1	2627.1	2570.6	2255.6
20°	2214.4	2206.4	2185.5	2166.4	2156.7	2172.8	2240.6	2492.3	2597.8	2642.5	2293.1
22.5°	2348.3	2342.2	2308.1	2267.0	2233.6	2233.2	2266.7	2428.7	2547.2	2710.1	2324.6
25°	2521.5	2511.5	2461.0	2395.2	2336.8	2314.4	2323.6	2425.7	2519.7	2783.7	2352.8
27.5°	2724.9	2706.8	2646.9	2551.7	2465.8	2420.8	2407.5	2481.7	2544.9	2874.7	2391.9
30°	2971.6	2950.7	2873.9	2750.0	2628.7	2554.8	2526.4	2580.9	2628.0	2985.6	2454.9
32.5°	3252.3	3222.0	3133.4	2996.7	2837.2	2724.6	2678.1	2712.3	2749.6	3119.3	2533.5
35°	3640.0	3604.0	3475.8	3287.3	3107.2	2952.3	2878.1	2902.9	2939.3	3318.5	2647.2
37.5°	3904.7	3888.5	3803.2	3626.0	3430.2	3251.9	3137.2	3151.6	3172.2	3567.6	2792.9
40°	3902.1	3908.7	3910.4	3912.2	3778.8	3608.1	3484.7	3469.7	3465.5	3841.1	2958.5
42.5°	3706.6	3733.4	3820.0	3995.7	4076.7	3998.4	3885.3	3841.7	3820.0	4163.3	3134.0
45°	3407.5	3422.0	3584.1	3926.9	4229.2	4384.8	4299.3	4161.8	4122.7	4459.4	3279.7
47.5°	3253.2	3269.0	3371.1	3744.9	4227.6	4697.1	4746.6	4484.8	4414.7	4717.0	3405.5
50°	2886.1	2919.0	3047.5	3428.1	4073.3	4840.6	5214.1	4869.5	4724.5	4967.7	3531.4
52.5°	2211.6	2262.6	2406.4	2907.4	3682.0	4769.6	5588.3	5336.1	5131.3	5227.5	3639.8
55°	1395.1	1432.8	1553.8	2053.3	2945.5	4399.5	5730.1	5840.7	5658.7	5473.6	3733.4
57.5°	758.4	775.3	820.7	1133.7	1915.8	3581.6	5523.3	6127.9	6052.3	5682.4	3804.2
58°	678.8	690.2	718.4	982.4	1699.1	3358.0	5431.6	6129.0	6091.1	5713.0	3809.7
60°	503.6	497.8	472.7	560.6	945.7	2319.9	4877.1	5883.7	5994.6	5750.4	3782.9
62.5°	442.4	428.4	377.2	371.4	460.0	1068.8	3731.7	5039.9	5302.1	5536.8	3620.1
65°	415.6	400.6	334.6	313.2	331.8	452.0	2198.2	3779.9	4108.7	4888.8	3203.7
67.5°	395.8	376.2	307.5	278.3	279.6	298.9	881.1	2380.7	2750.7	3711.8	2492.0
70°	376.5	355.2	284.5	250.7	242.9	236.3	350.3	1191.7	1527.4	2344.5	1588.8
72.5°	355.9	335.0	264.2	229.2	213.6	192.1	228.8	487.5	680.8	1109.2	720.7
75°	326.1	307.1	243.9	209.9	187.9	159.1	172.8	254.6	305.5	441.7	347.4
77.5°	289.3	273.9	221.3	194.2	166.6	129.1	132.9	176.5	195.8	252.9	206.5
80°	207.9	213.3	196.9	174.5	148.4	104.8	102.0	128.8	139.1	162.6	134.3
82.5°	146.1	149.1	162.9	142.7	122.7	82.5	75.3	90.6	96.8	106.9	72.6
85°	100.7	97.2	111.7	99.4	88.7	54.9	51.6	61.5	65.2	66.4	37.5
87.5°	60.5	60.5	64.6	53.3	47.8	28.6	27.8	35.0	37.5	35.8	20.7
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°	1937.9	1937.9	1937.9	1937.9	1937.9	1937.9	1937.9	1937.9	1937.9	1937.9	1937.9
2.5°	1943.0	1918.6	1866.8	1825.1	1772.6	1718.0	1687.5	1654.8	1632.5	1616.3	1642.1
5°	1957.8	1908.0	1800.8	1699.1	1586.8	1469.9	1381.4	1298.9	1241.5	1205.7	1239.4
7.5°	1981.1	1904.5	1733.8	1559.9	1358.3	1163.8	990.0	881.1	817.5	786.3	805.9
10°	2007.9	1899.0	1655.1	1371.4	1082.7	837.8	708.0	664.0	649.7	643.7	646.5
12.5°	2030.3	1887.3	1558.6	1143.3	813.1	661.6	624.2	623.2	626.3	626.9	627.9
15°	2046.1	1870.2	1415.4	905.5	650.4	602.9	600.8	607.1	612.9	615.2	616.6
17.5°	2056.7	1834.8	1253.6	715.9	582.6	574.3	579.1	587.1	593.3	594.9	596.4
20°	2055.7	1783.0	1060.8	597.1	545.9	545.9	554.2	560.4	560.6	558.6	559.6
22.5°	2045.0	1711.8	874.0	533.9	513.2	519.1	527.3	521.5	497.4	481.6	482.7
25°	2027.1	1627.0	713.9	493.7	483.0	493.3	491.0	446.9	412.6	397.1	397.1
27.5°	2011.3	1526.7	590.8	458.7	452.7	465.5	422.9	383.0	368.7	361.4	359.1
30°	2000.0	1418.5	508.8	425.0	424.3	414.9	366.9	355.9	353.6	347.6	345.6
32.5°	2002.9	1308.9	456.2	395.4	397.8	355.2	340.1	342.6	340.5	334.3	331.6
35°	2025.5	1204.7	421.8	368.7	361.4	320.9	324.3	328.8	328.2	319.4	316.7
37.5°	2066.0	1106.2	399.1	346.2	315.3	303.6	309.1	316.1	314.3	308.5	306.4
40°	2108.6	1013.4	380.6	328.8	288.3	291.9	296.8	300.7	302.3	304.0	302.6
42.5°	2150.2	916.5	358.0	311.0	276.9	281.0	283.1	286.9	296.1	302.6	302.3
45°	2174.8	825.5	334.6	285.5	268.0	270.4	269.0	276.6	287.8	298.5	298.9
47.5°	2202.4	754.8	316.1	262.1	259.4	261.0	256.9	264.6	274.8	287.8	289.3
50°	2235.7	712.4	301.3	243.6	247.8	247.8	246.7	253.5	268.0	283.1	285.8
52.5°	2273.5	704.2	289.0	230.1	236.1	235.6	236.8	247.0	262.8	277.5	280.0
55°	2319.6	726.5	275.5	220.3	224.7	226.1	229.4	241.1	254.6	271.4	272.5
57.5°	2373.1	772.0	264.9	212.3	214.3	218.8	224.3	234.9	249.4	268.0	269.0
58°	2382.0	781.5	263.2	211.6	212.3	217.5	223.7	234.0	248.4	268.7	269.8
60°	2382.3	813.4	259.4	208.5	204.5	213.0	219.8	230.1	246.7	271.1	273.4
62.5°	2297.9	813.1	256.6	204.1	196.2	206.8	214.8	226.7	245.0	276.9	281.7
65°	2023.4	738.9	243.6	197.2	189.6	201.3	210.3	224.3	249.8	302.3	305.5
67.5°	1582.6	605.6	219.1	187.6	181.1	195.8	207.5	223.9	254.8	308.2	310.3
70°	1046.3	453.1	192.3	176.5	172.1	189.4	208.9	235.6	249.1	295.8	290.3
72.5°	543.1	318.1	170.8	162.9	161.9	183.4	228.8	234.3	243.3	278.3	271.4
75°	285.1	221.0	151.9	147.7	149.5	182.0	270.0	228.1	235.6	266.3	279.4
77.5°	174.5	178.4	135.7	133.9	137.4	178.0	269.8	220.3	224.7	245.0	259.4
80°	116.8	144.6	123.3	123.6	126.1	162.9	242.3	207.9	211.3	231.6	246.3
82.5°	73.9	85.6	112.0	117.9	114.8	134.3	205.8	189.4	194.2	264.9	280.0
85°	37.5	53.5	97.2	113.4	103.5	94.1	166.9	165.9	168.3	191.0	199.7
87.5°	17.2	29.6	75.9	99.0	78.1	58.7	121.4	123.0	132.6	135.7	135.7
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)