

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: P192650

Luminaire Tested: **GAN-AF-02-LED-U-AFL-7030-600-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192650
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24297)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-AF-02-LED-U-AFL-7030-600-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6353.4 lumens
Efficiency: N/A
Efficacy: 96.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' 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



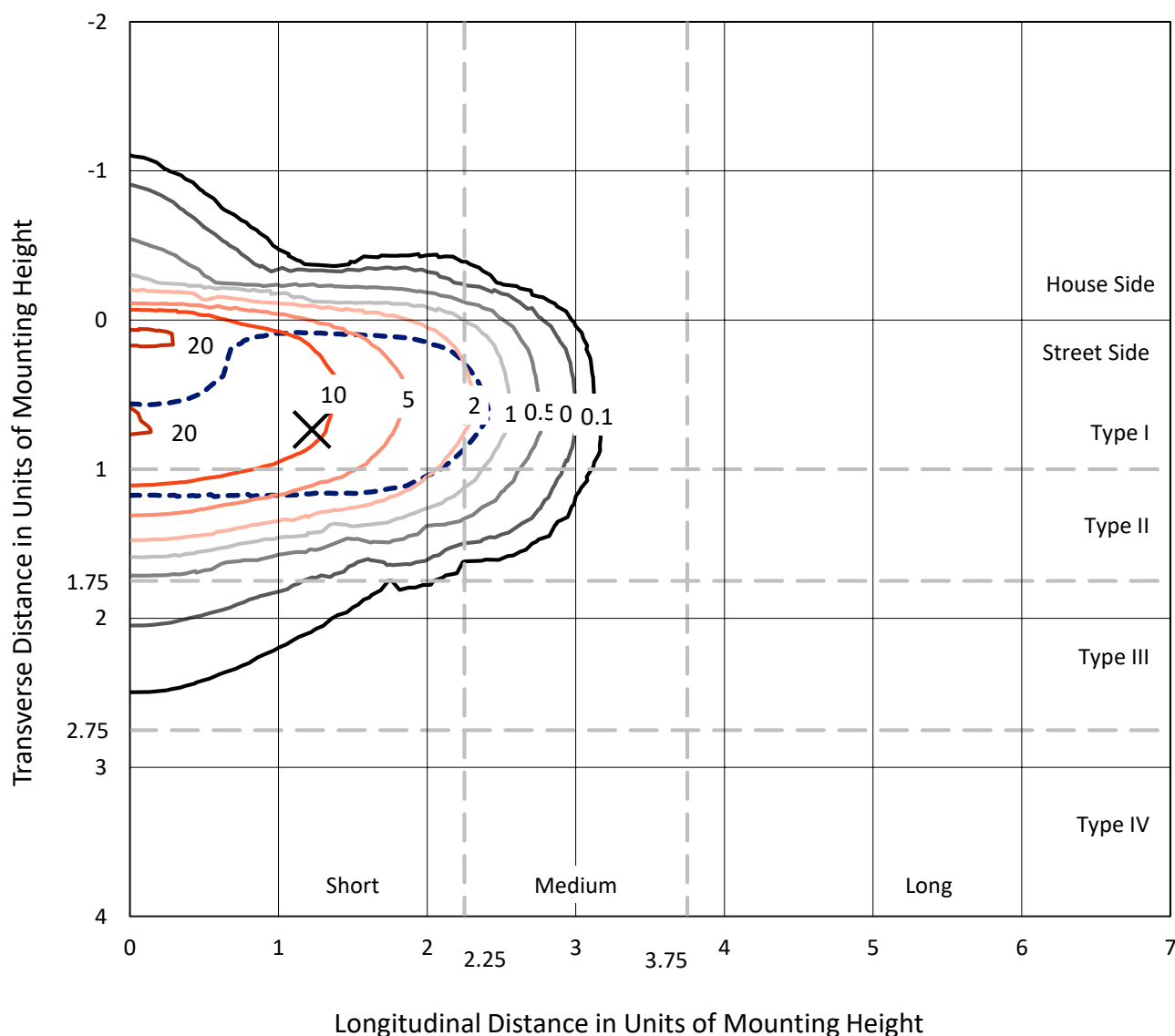
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

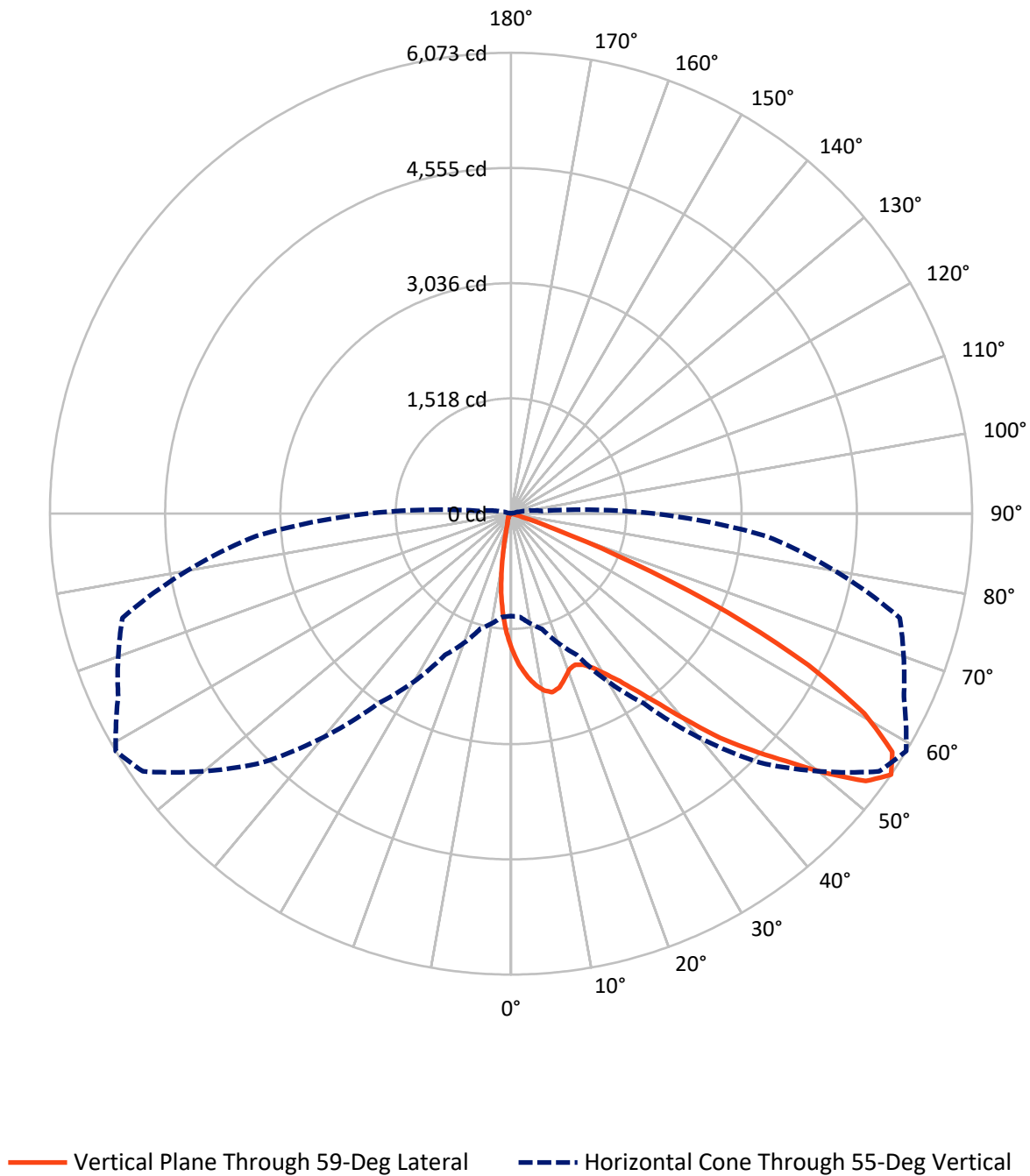


Based on 10 foot mounting height. Maximum calculated value = 22.2 fc
 Type II - Short - Full Cutoff

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Luminous Intensity Polar Plot



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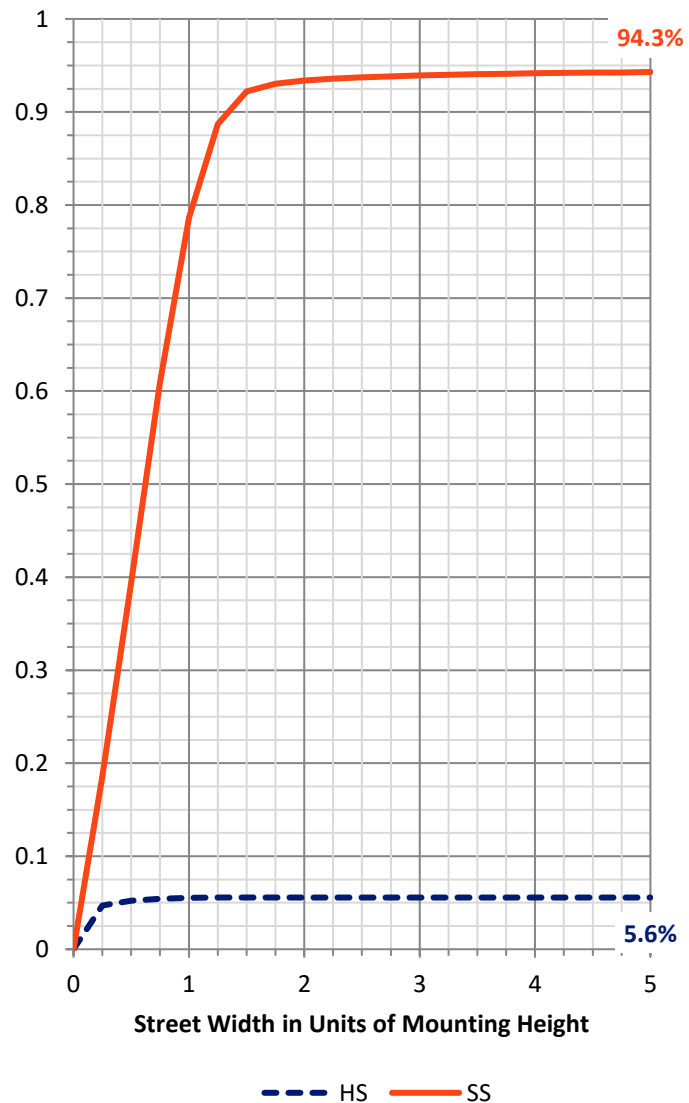
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	354.9	0.0	354.9
	% Fixture	5.6	0.0	5.6
Street Side	Lumens	5998.6	0.0	5998.6
	% Fixture	94.4	0.0	94.4
Total	Lumens	6353.4	0.0	6353.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	149.8	2.4
10°-20°	358.7	5.6
20°-30°	610.3	9.6
30°-40°	1049.6	16.5
40°-50°	1620.5	25.5
50°-60°	1629.1	25.6
60°-70°	835.4	13.1
70°-80°	90.5	1.4
80°-90°	9.5	0.1
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°	6353.4	100.0
0°-180°	6353.4	100.0

Coefficient of Utilization



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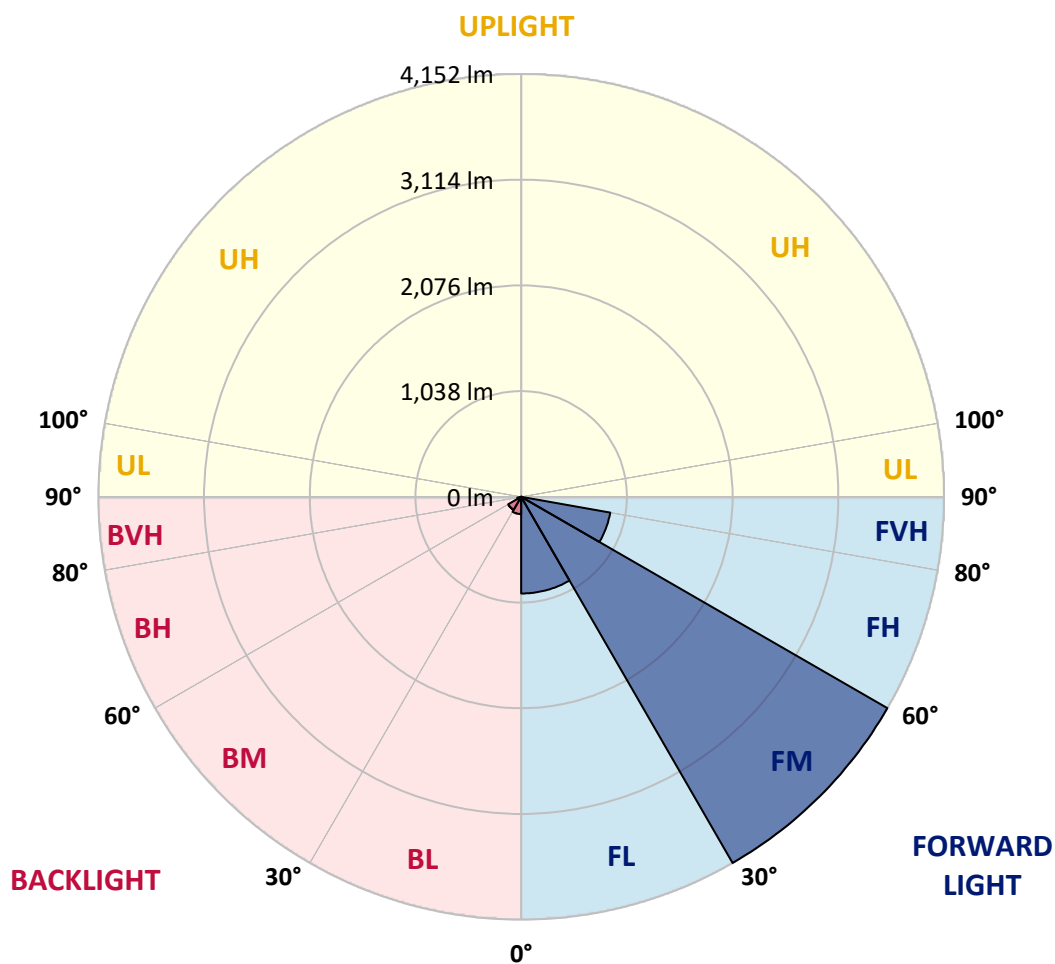
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	949.4	14.9			
FM	(30°-60°)	4151.9	65.3			
FH	(60°-80°)	887.9	14.0			G1/1800
FVH	(80°-90°)	9.3	0.1			G0/10
BL	(0°-30°)	169.4	2.7	B1/500		
BM	(30°-60°)	147.3	2.3	B0/220		
BH	(60°-80°)	38.0	0.6	B0/110		G0/110
BVH	(80°-90°)	0.2	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-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	1788.5	1788.5	1788.5	1788.5	1788.5	1788.5	1788.5	1788.5	1788.5	1788.5	1788.5
2.5°	2116.2	2093.6	2087.0	2082.4	2061.8	2035.9	2000.6	1984.1	1950.4	1896.0	1829.3
5°	2310.0	2305.9	2290.8	2282.7	2260.5	2223.8	2167.4	2140.5	2087.0	1995.4	1875.9
7.5°	2225.3	2251.2	2271.7	2306.3	2349.7	2348.2	2301.0	2272.9	2212.9	2092.2	1927.6
10°	1898.0	1918.9	1952.7	2031.0	2190.7	2331.7	2387.2	2367.0	2319.0	2181.1	1977.5
12.5°	1833.8	1831.6	1837.6	1860.4	1944.0	2145.1	2372.7	2413.5	2403.7	2262.4	2024.7
15°	1868.0	1865.4	1864.6	1872.4	1892.7	1977.5	2262.8	2380.1	2455.5	2337.7	2064.8
17.5°	1963.6	1952.4	1946.4	1939.9	1933.9	1954.9	2130.8	2286.8	2463.4	2403.7	2098.3
20°	2127.4	2108.7	2086.6	2050.6	2016.8	2006.3	2075.3	2190.7	2435.3	2454.0	2119.9
22.5°	2333.2	2309.3	2271.1	2205.4	2136.8	2097.0	2102.7	2160.4	2393.3	2508.7	2130.0
25°	2564.7	2533.8	2482.8	2391.8	2290.8	2220.3	2183.6	2203.9	2374.1	2572.8	2141.7
27.5°	2812.5	2778.4	2711.6	2587.5	2473.1	2377.9	2302.8	2300.2	2406.8	2656.8	2160.4
30°	3058.0	3052.8	2965.8	2834.5	2683.1	2567.3	2459.2	2445.3	2497.8	2773.1	2197.5
32.5°	3385.7	3346.4	3239.9	3104.9	2930.2	2791.0	2663.2	2631.0	2637.7	2908.4	2254.9
35°	3799.0	3755.8	3605.8	3419.5	3224.1	3060.0	2918.6	2874.7	2858.2	3130.0	2351.6
37.5°	4065.9	4065.1	3971.0	3781.3	3571.6	3390.6	3237.0	3185.5	3152.1	3397.8	2501.6
40°	4072.9	4090.5	4103.0	4101.0	3951.9	3785.1	3648.5	3585.3	3507.6	3755.3	2695.4
42.5°	3854.3	3899.8	4008.8	4194.1	4282.5	4216.2	4101.0	4038.9	3923.4	4138.2	2931.7
45°	3558.9	3590.5	3781.3	4122.5	4461.8	4643.6	4555.9	4444.5	4292.4	4537.5	3143.5
47.5°	3426.6	3432.2	3555.6	3930.2	4475.3	4993.8	5047.1	4866.0	4627.5	4859.2	3309.3
50°	3031.1	3041.1	3211.3	3596.9	4317.1	5159.2	5540.5	5368.8	4993.0	5107.1	3369.5
52.5°	2284.5	2298.9	2514.7	3049.0	3882.1	5088.6	5893.7	5852.0	5393.5	5228.2	3373.0
55°	1347.9	1366.7	1572.9	2052.4	3053.5	4640.2	5919.8	6072.9	5709.6	5299.8	3367.7
57.5°	629.6	642.7	760.8	1057.3	1899.0	3667.3	5524.8	5921.5	5883.9	5337.7	3404.8
60°	334.5	338.1	366.7	457.8	858.2	2325.4	4753.6	5347.0	5724.9	5390.2	3450.2
62.5°	255.6	256.9	255.3	266.1	360.7	1032.2	3593.1	4395.8	5084.9	5350.8	3399.9
65°	221.6	223.4	212.9	210.4	231.3	368.2	2134.5	3133.3	3995.7	4819.5	3057.6
67.5°	198.8	199.5	186.8	175.8	179.6	199.1	842.2	1715.4	2644.8	3532.7	2216.4
70°	183.0	182.3	168.4	151.1	146.2	136.1	267.6	628.8	1263.9	1791.5	1030.8
72.5°	161.9	162.4	155.5	133.1	121.5	95.3	124.1	183.3	377.2	488.2	241.5
75°	143.5	141.7	133.6	119.2	100.1	62.6	61.5	81.7	116.3	115.5	52.1
77.5°	103.9	101.9	104.6	97.9	76.8	40.5	30.7	39.4	47.2	45.8	14.6
80°	76.2	75.0	67.5	81.4	67.8	27.8	19.1	21.0	24.4	20.6	4.5
82.5°	52.1	51.8	47.6	45.1	38.6	16.8	12.0	13.1	15.8	11.6	2.3
85°	8.2	9.4	34.5	27.5	22.8	7.5	8.2	9.0	10.5	6.3	0.8
87.5°	0.0	0.0	16.2	14.2	4.5	2.9	4.9	5.3	5.3	3.4	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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1788.5	1788.5	1788.5	1788.5	1788.5	1788.5	1788.5	1788.5	1788.5	1788.5	1788.5
2.5°	1795.2	1757.8	1688.4	1616.7	1550.4	1471.2	1416.9	1376.0	1328.8	1316.0	1343.8
5°	1807.5	1736.6	1587.5	1425.2	1272.6	1103.4	974.0	871.8	779.1	747.7	776.2
7.5°	1827.1	1721.7	1478.4	1211.0	945.6	681.7	501.0	382.1	306.4	283.8	295.9
10°	1846.6	1700.0	1352.1	957.5	594.7	331.8	216.0	172.5	156.3	153.0	154.8
12.5°	1862.7	1670.7	1197.9	680.9	318.0	177.8	141.4	134.3	131.9	131.9	132.8
15°	1872.4	1626.6	1015.3	433.1	183.0	134.3	123.4	121.1	121.1	121.5	122.3
17.5°	1871.3	1570.3	815.5	262.1	136.9	118.9	112.4	110.6	110.3	111.0	111.3
20°	1857.4	1496.8	614.9	172.8	119.2	108.3	101.9	98.7	98.3	99.0	99.8
22.5°	1831.1	1406.0	439.8	133.1	107.6	98.3	90.3	87.4	87.4	88.1	88.8
25°	1799.4	1295.0	300.7	112.9	97.1	87.4	79.9	77.2	78.0	79.9	80.2
27.5°	1759.6	1170.1	204.4	96.7	84.3	76.5	70.9	69.0	70.9	73.5	74.2
30°	1725.4	1040.0	145.9	83.6	71.6	66.0	62.6	62.6	65.2	70.2	71.2
32.5°	1699.2	914.1	112.4	73.9	62.3	57.4	55.5	57.4	61.5	66.3	67.5
35°	1695.8	810.2	95.3	66.0	55.5	50.6	49.8	53.2	57.4	61.0	61.8
37.5°	1721.7	714.2	85.9	59.6	49.5	45.1	44.2	48.4	52.5	57.1	58.1
40°	1770.9	638.9	79.1	53.6	44.6	39.8	38.2	41.2	46.9	52.9	54.4
42.5°	1834.6	576.7	71.6	47.6	39.8	33.0	31.1	34.5	40.5	46.9	48.7
45°	1895.3	523.1	63.4	40.9	33.4	25.4	24.7	29.3	32.2	38.6	40.1
47.5°	1928.7	475.9	56.3	33.4	25.9	20.6	20.6	21.8	24.7	32.2	33.8
50°	1917.5	437.9	48.7	24.7	18.0	15.8	15.8	15.4	19.8	25.9	27.0
52.5°	1895.0	416.2	41.9	19.1	12.3	11.3	10.2	11.3	13.8	16.5	16.8
55°	1891.6	412.5	35.3	15.4	8.6	7.5	5.6	5.6	5.6	5.3	4.5
57.5°	1917.8	418.5	29.6	12.3	6.3	4.9	2.9	0.0	0.0	0.0	0.0
60°	1944.9	424.8	25.4	8.6	4.5	2.6	0.3	0.0	0.0	0.0	0.0
62.5°	1899.8	410.6	21.5	5.3	3.4	1.1	0.0	0.0	0.0	0.0	0.0
65°	1668.8	349.4	16.8	3.8	2.3	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	1187.1	234.0	11.3	2.3	0.3	0.0	0.0	0.0	0.0	0.0	0.0
70°	541.8	97.9	7.1	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	115.9	30.4	4.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	23.6	22.1	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	7.5	34.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	4.5	25.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.8	3.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	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)