

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: P199926

Luminaire Tested: **GAP-AF-02-LED-U-AFL-7030-800-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P199926
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: GAP-AF-02-LED-U-AFL-7030-800-HSS
Description: GALLEON PEDESTRIAN LUMINAIRE
(2) 70 CRI, 3000K, 800mA 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: 7946.4 lumens
Efficiency: N/A
Efficacy: 92.4 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): 86
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

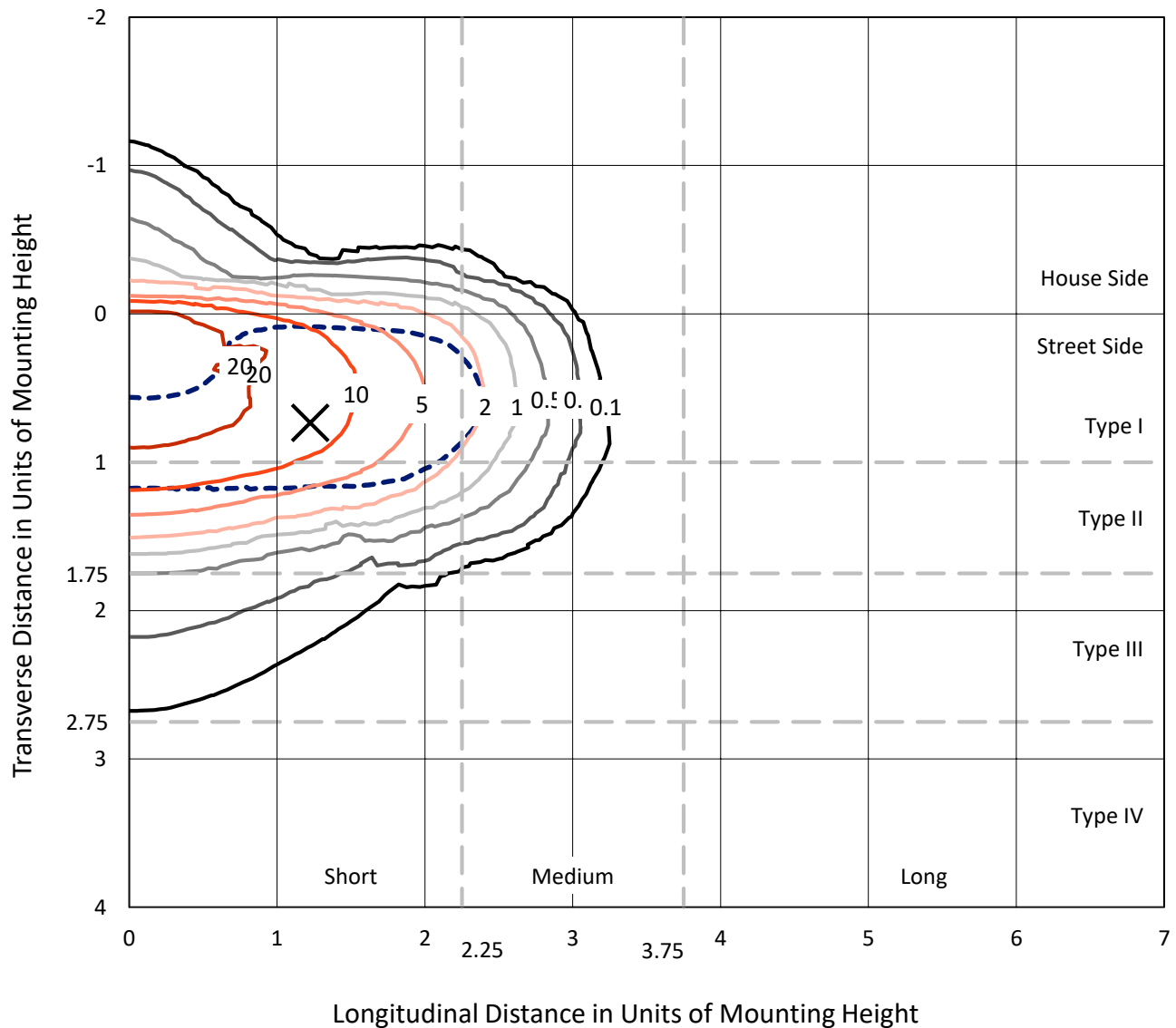


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

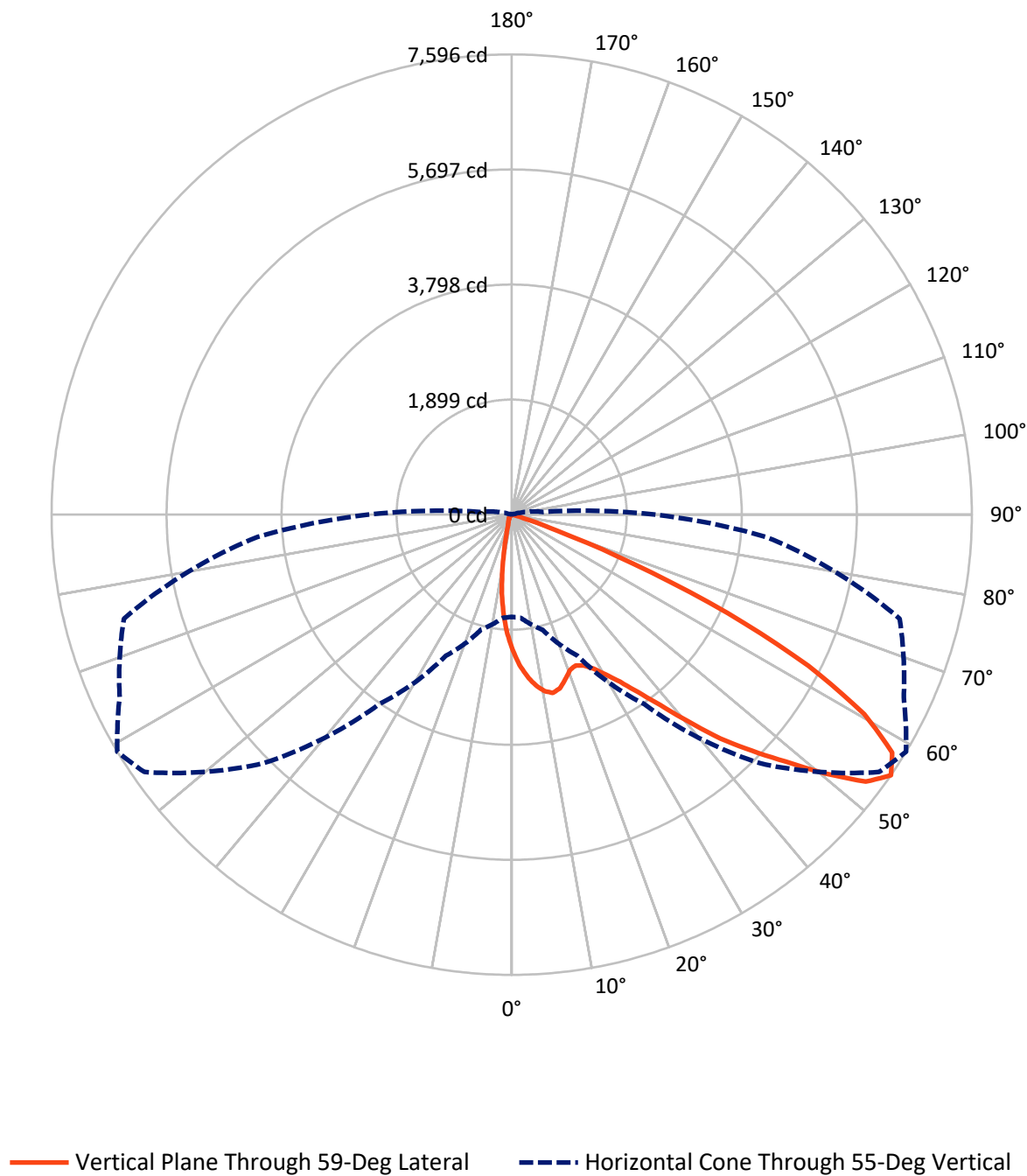


Based on 10 foot mounting height. Maximum calculated value = 27.8 fc
 Type II - Short - Full Cutoff

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Luminous Intensity Polar Plot



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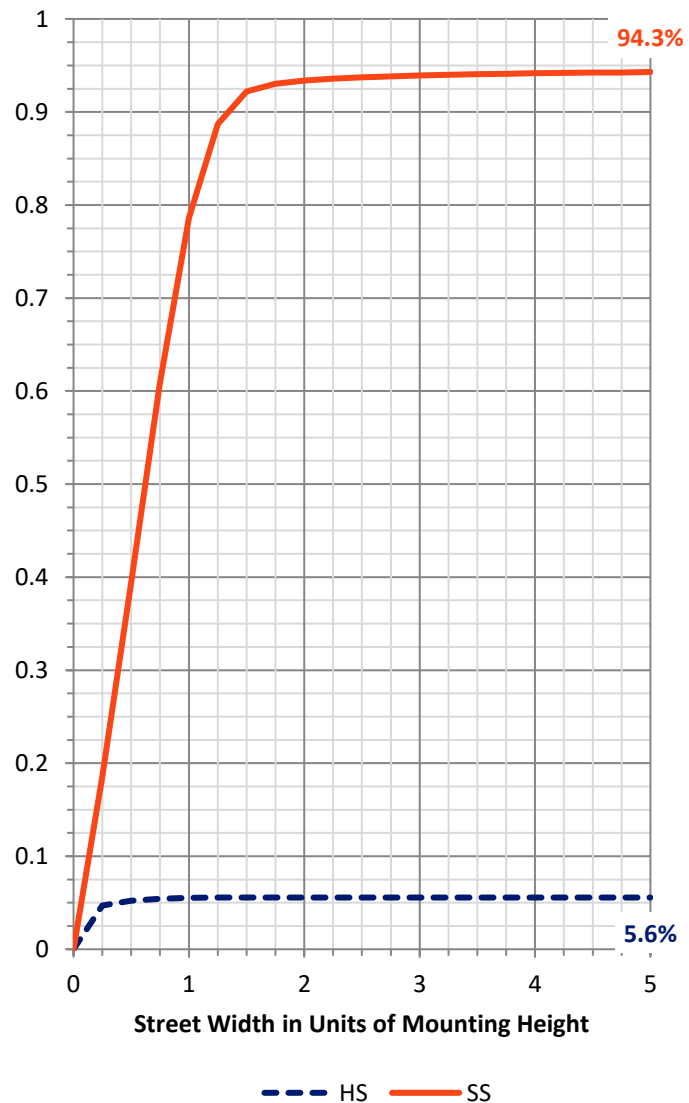
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	443.9	0.0	443.9
	% Fixture	5.6	0.0	5.6
Street Side	Lumens	7502.6	0.0	7502.6
	% Fixture	94.4	0.0	94.4
Total	Lumens	7946.4	0.0	7946.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	187.4	2.4
10°-20°	448.6	5.6
20°-30°	763.3	9.6
30°-40°	1312.8	16.5
40°-50°	2026.8	25.5
50°-60°	2037.6	25.6
60°-70°	1044.9	13.1
70°-80°	113.2	1.4
80°-90°	11.8	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°	7946.4	100.0
0°-180°	7946.4	100.0

Coefficient of Utilization



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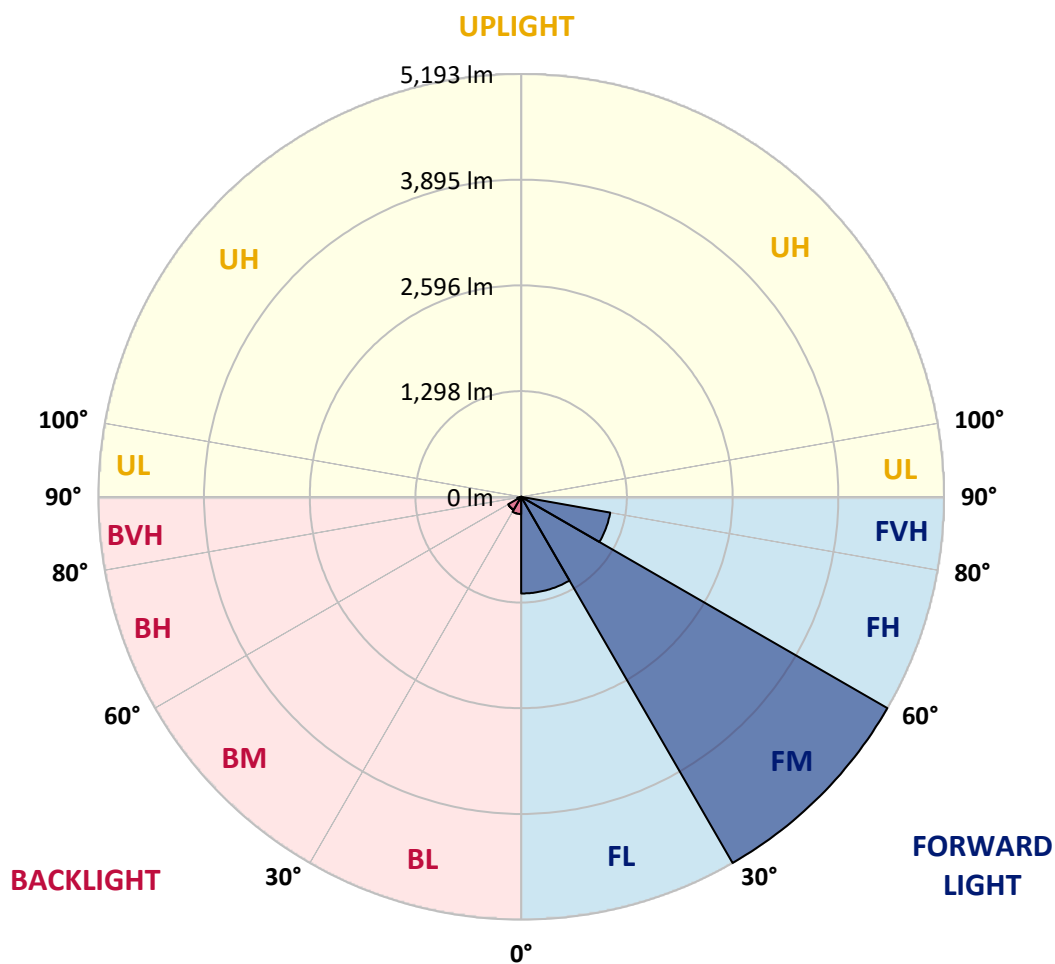
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1187.5	14.9			
FM	(30°-60°)	5193.0	65.3			
FH	(60°-80°)	1110.6	14.0			G1/1800
FVH	(80°-90°)	11.6	0.1			G1/100
BL	(0°-30°)	211.9	2.7	B1/500		
BM	(30°-60°)	184.2	2.3	B0/220		
BH	(60°-80°)	47.6	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°	2236.9	2236.9	2236.9	2236.9	2236.9	2236.9	2236.9	2236.9	2236.9	2236.9	2236.9
2.5°	2646.8	2618.6	2610.2	2604.5	2578.7	2546.4	2502.4	2481.8	2439.4	2371.5	2288.0
5°	2889.3	2884.0	2865.4	2855.0	2827.3	2781.3	2711.0	2677.2	2610.2	2495.7	2346.2
7.5°	2783.3	2815.6	2841.4	2884.6	2938.8	2937.0	2878.0	2842.8	2767.7	2616.8	2411.0
10°	2373.8	2400.1	2442.3	2540.3	2740.1	2916.3	2985.8	2960.5	2900.5	2727.8	2473.2
12.5°	2293.7	2290.8	2298.3	2326.9	2431.4	2682.9	2967.5	3018.7	3006.5	2829.6	2532.3
15°	2336.3	2333.0	2332.1	2342.0	2367.2	2473.2	2830.2	2976.9	3071.2	2923.9	2582.5
17.5°	2455.9	2441.8	2434.3	2426.3	2418.9	2445.1	2665.1	2860.1	3081.0	3006.5	2624.2
20°	2660.8	2637.4	2609.6	2564.7	2522.5	2509.3	2595.7	2740.1	3045.8	3069.3	2651.4
22.5°	2918.4	2888.3	2840.4	2758.4	2672.6	2622.9	2629.9	2702.1	2993.2	3137.7	2664.1
25°	3207.7	3169.2	3105.3	2991.4	2865.4	2777.2	2731.2	2756.5	2969.3	3217.9	2678.6
27.5°	3517.6	3474.9	3391.4	3236.3	3093.2	2974.0	2880.3	2877.1	3010.2	3323.0	2702.1
30°	3824.7	3818.2	3709.4	3545.3	3355.8	3210.9	3075.8	3058.5	3124.2	3468.3	2748.5
32.5°	4234.7	4185.4	4052.2	3883.4	3664.9	3490.9	3331.0	3290.7	3299.1	3637.7	2820.3
35°	4751.3	4697.5	4509.9	4276.9	4032.5	3827.2	3650.4	3595.4	3574.9	3914.8	2941.3
37.5°	5085.3	5084.4	4966.6	4729.4	4467.2	4240.7	4048.5	3984.2	3942.5	4249.6	3128.8
40°	5094.2	5116.3	5131.7	5129.4	4942.8	4734.1	4563.3	4484.1	4387.0	4696.9	3371.3
42.5°	4820.8	4877.6	5014.0	5245.6	5356.3	5273.3	5129.4	5051.5	4907.1	5175.8	3666.7
45°	4451.2	4490.7	4729.4	5156.1	5580.5	5807.9	5698.2	5558.9	5368.6	5675.3	3931.7
47.5°	4285.7	4292.8	4447.1	4915.6	5597.4	6246.0	6312.6	6086.1	5787.8	6077.5	4139.0
50°	3791.0	3803.7	4016.6	4498.6	5399.5	6452.8	6929.7	6714.8	6245.0	6387.6	4214.4
52.5°	2857.3	2875.1	3145.2	3813.4	4855.5	6364.6	7371.4	7319.4	6745.8	6539.0	4218.7
55°	1685.9	1709.4	1967.2	2567.0	3819.1	5803.8	7404.3	7595.6	7141.1	6628.6	4212.1
57.5°	787.3	803.8	951.5	1322.5	2375.2	4586.8	6910.0	7406.1	7359.2	6676.0	4258.5
60°	418.4	423.0	458.7	572.6	1073.5	2908.4	5945.4	6687.6	7160.5	6741.7	4315.3
62.5°	319.8	321.2	319.4	332.9	451.1	1291.0	4494.0	5497.9	6359.9	6692.3	4252.5
65°	277.2	279.4	266.4	263.1	289.3	460.5	2669.8	3919.0	4997.6	6027.9	3824.3
67.5°	248.6	249.4	233.5	219.9	224.6	249.0	1053.3	2145.5	3308.0	4418.5	2771.9
70°	228.9	228.0	210.6	189.0	182.9	170.2	334.9	786.4	1580.9	2240.7	1289.1
72.5°	202.5	203.0	194.6	166.5	152.0	119.1	155.2	229.3	471.8	610.5	302.0
75°	179.6	177.2	166.9	149.1	125.2	78.3	76.9	102.2	145.5	144.4	65.2
77.5°	129.9	127.5	130.8	122.4	96.1	50.7	38.5	49.2	59.1	57.3	18.2
80°	95.2	93.8	84.4	101.7	84.9	34.8	23.9	26.2	30.5	25.7	5.7
82.5°	65.2	64.7	59.5	56.3	48.3	21.1	15.0	16.4	19.6	14.5	2.8
85°	10.3	11.7	43.1	34.2	28.6	9.4	10.3	11.3	13.1	7.9	1.0
87.5°	0.0	0.0	20.2	17.8	5.7	3.8	6.1	6.5	6.5	4.3	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°	2236.9	2236.9	2236.9	2236.9	2236.9	2236.9	2236.9	2236.9	2236.9	2236.9	2236.9
2.5°	2245.3	2198.4	2111.7	2022.1	1939.2	1840.2	1772.1	1721.1	1662.0	1646.0	1680.7
5°	2260.8	2172.2	1985.6	1782.4	1591.6	1380.2	1218.4	1090.3	974.5	935.0	970.8
7.5°	2285.1	2153.4	1849.1	1514.7	1182.7	852.6	626.5	477.9	383.2	355.0	370.0
10°	2309.6	2126.1	1691.0	1197.7	743.7	414.9	270.1	215.7	195.6	191.3	193.7
12.5°	2329.7	2089.7	1498.3	851.5	397.7	222.3	176.8	167.9	165.1	165.1	166.0
15°	2342.0	2034.3	1269.9	541.6	228.9	167.9	154.3	151.5	151.5	152.0	152.9
17.5°	2340.6	1963.9	1019.9	327.8	171.2	148.7	140.7	138.3	137.8	138.8	139.3
20°	2323.2	1872.0	769.0	216.3	149.1	135.5	127.5	123.4	122.9	123.8	124.8
22.5°	2290.4	1758.5	550.1	166.5	134.6	122.9	113.0	109.3	109.3	110.3	111.1
25°	2250.5	1619.8	376.1	141.2	121.5	109.3	99.9	96.5	97.6	99.9	100.4
27.5°	2200.8	1463.6	255.5	121.0	105.6	95.7	88.6	86.4	88.6	91.9	92.9
30°	2158.1	1300.8	182.5	104.6	89.6	82.5	78.3	78.3	81.6	87.7	89.0
32.5°	2125.3	1143.3	140.7	92.5	77.8	71.8	69.4	71.8	76.9	83.0	84.4
35°	2121.0	1013.4	119.1	82.5	69.4	63.3	62.4	66.5	71.8	76.5	77.3
37.5°	2153.4	893.3	107.4	74.6	62.0	56.3	55.2	60.5	65.7	71.2	72.6
40°	2214.9	799.1	99.0	67.0	55.8	49.7	47.8	51.6	58.7	66.1	68.0
42.5°	2294.6	721.2	89.6	59.5	49.7	41.3	38.9	43.1	50.7	58.7	60.9
45°	2370.5	654.1	79.2	51.2	41.7	31.9	30.9	36.6	40.3	48.3	50.1
47.5°	2412.2	595.1	70.4	41.7	32.3	25.7	25.7	27.2	30.9	40.3	42.2
50°	2398.2	547.7	60.9	30.9	22.5	19.6	19.6	19.2	24.8	32.3	33.8
52.5°	2370.1	520.5	52.6	23.9	15.6	14.1	12.7	14.1	17.4	20.6	21.1
55°	2365.9	515.8	44.0	19.2	10.8	9.4	7.0	7.0	7.0	6.5	5.7
57.5°	2398.7	523.4	37.0	15.6	7.9	6.1	3.8	0.0	0.0	0.0	0.0
60°	2432.4	531.3	31.9	10.8	5.7	3.3	0.4	0.0	0.0	0.0	0.0
62.5°	2376.2	513.5	26.8	6.5	4.3	1.4	0.0	0.0	0.0	0.0	0.0
65°	2087.3	437.0	21.1	4.7	2.8	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	1484.8	292.6	14.1	2.8	0.4	0.0	0.0	0.0	0.0	0.0	0.0
70°	677.6	122.4	9.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	144.9	38.0	6.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	29.5	27.7	2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	9.4	43.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	5.7	31.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	1.0	4.7	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)