

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: P269860

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269860
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-7027-HSS
Description: GALLEON PEDESTRIAN LUMINAIRE
(2) 70 CRI, 2700K, 1050mA 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: 8835.3 lumens
Efficiency: N/A
Efficacy: 78.2 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): 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: 28.75 FT



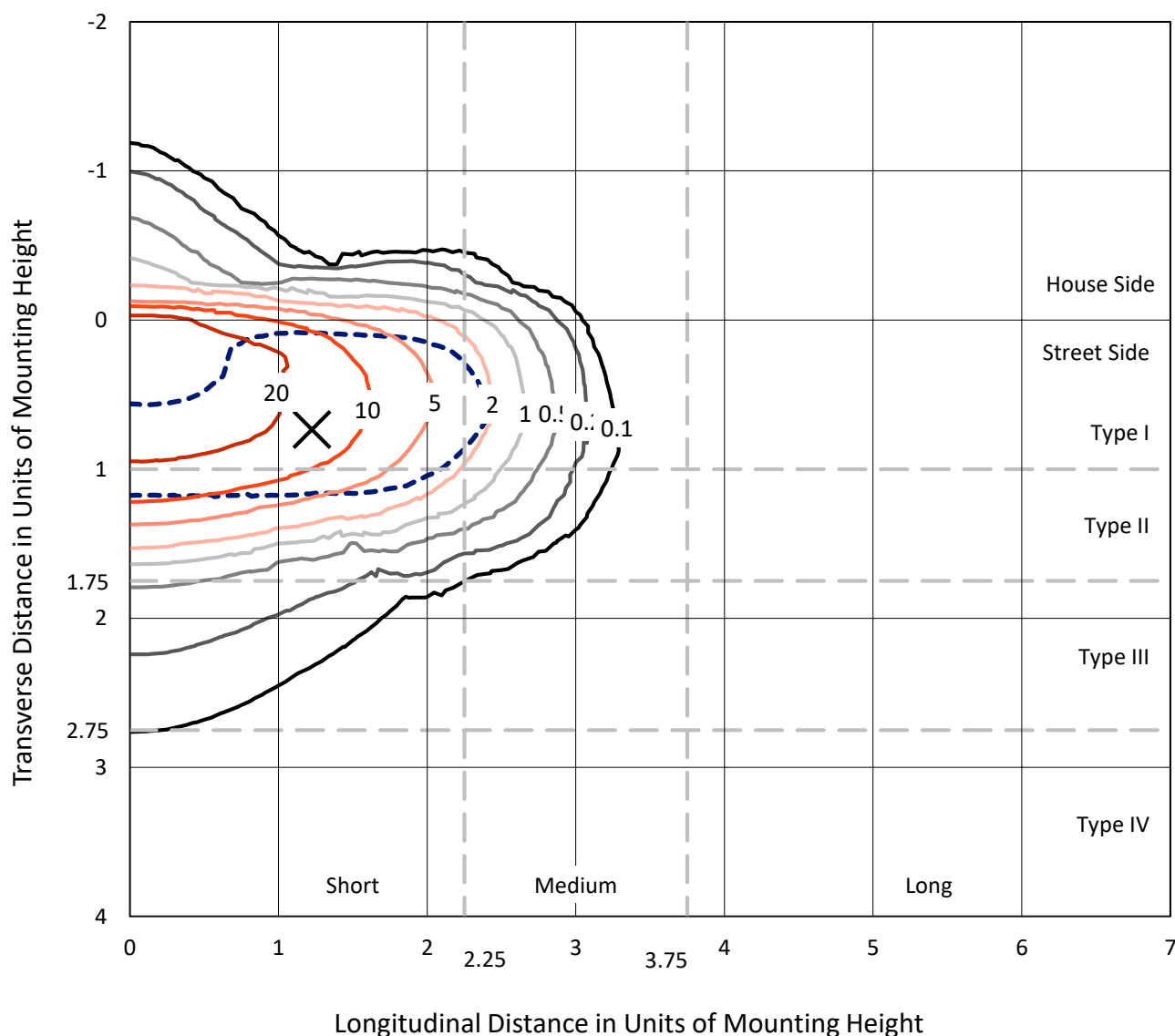
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

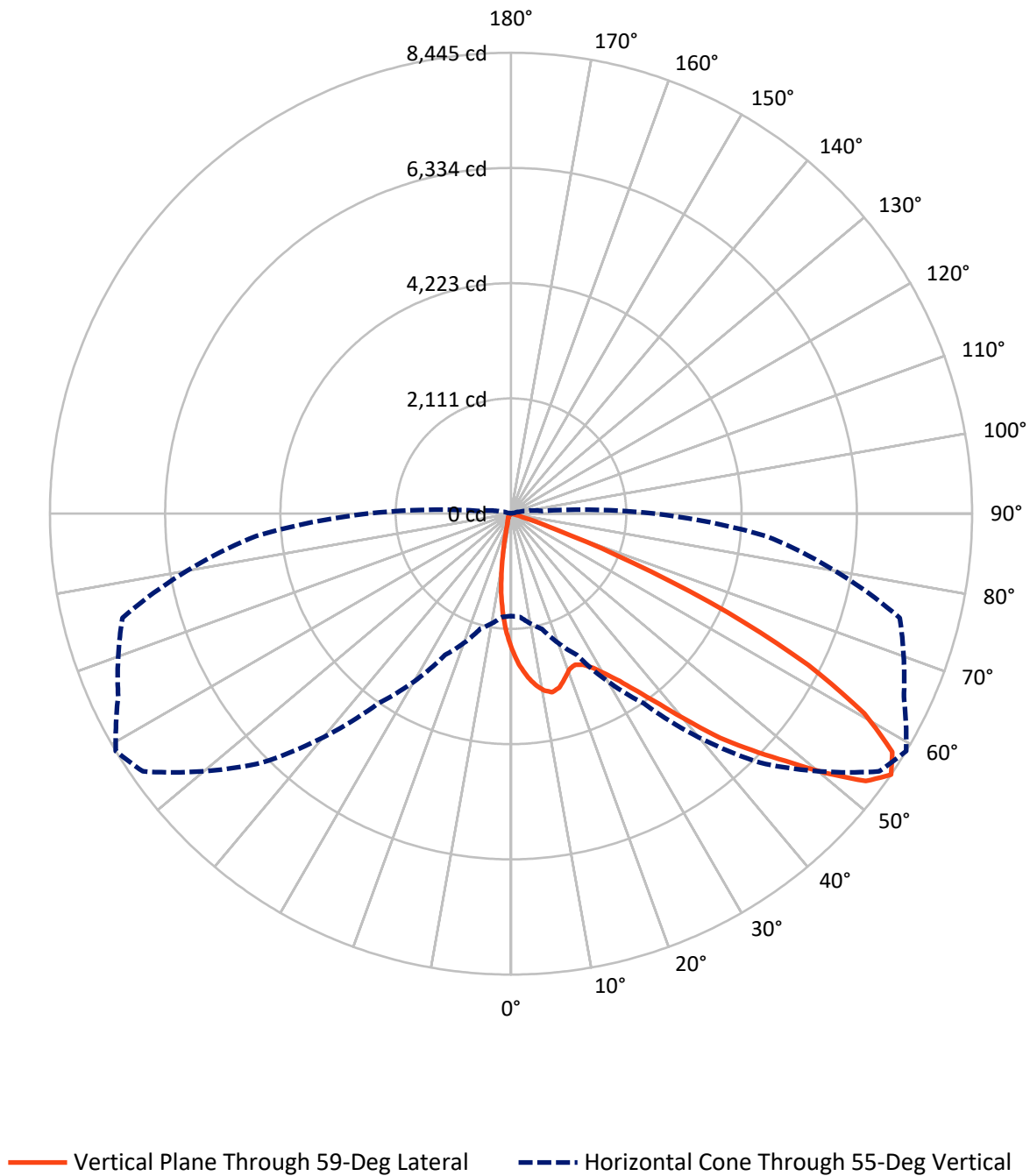


Based on 10 foot mounting height. Maximum calculated value = 30.9 fc
 Type II - Short - Full Cutoff

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Luminous Intensity Polar Plot



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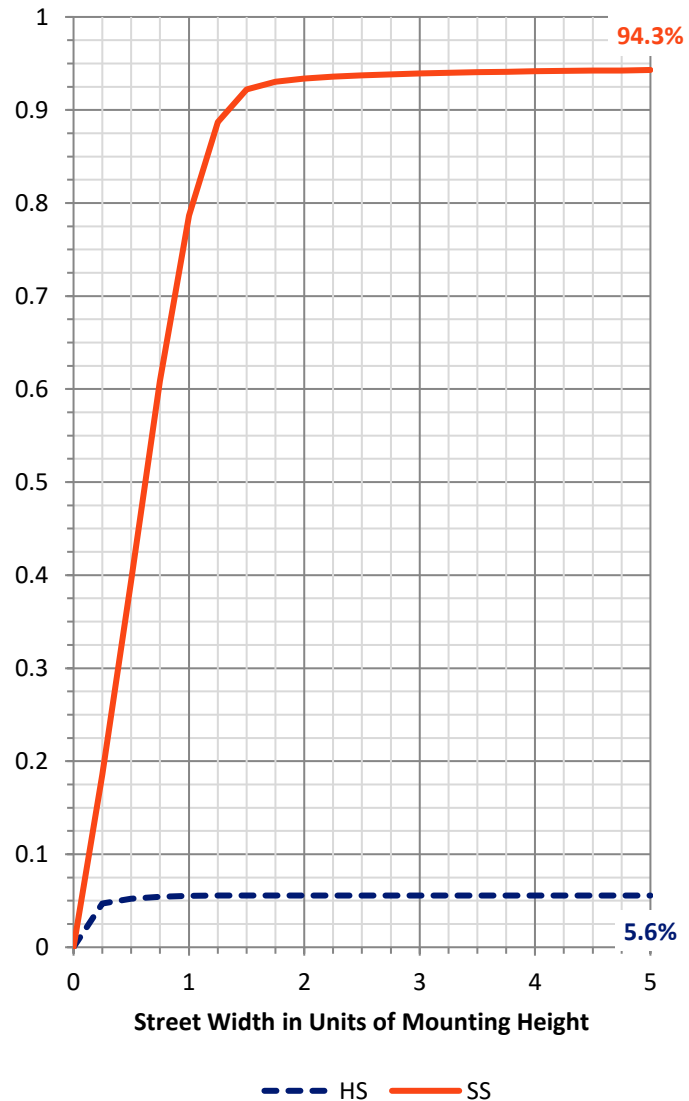
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	493.5	0.0	493.5
	% Fixture	5.6	0.0	5.6
Street Side	Lumens	8341.8	0.0	8341.8
	% Fixture	94.4	0.0	94.4
Total	Lumens	8835.3	0.0	8835.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	208.3	2.4
10°-20°	498.8	5.6
20°-30°	848.7	9.6
30°-40°	1459.6	16.5
40°-50°	2253.5	25.5
50°-60°	2265.5	25.6
60°-70°	1161.8	13.1
70°-80°	125.9	1.4
80°-90°	13.2	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°	8835.3	100.0
0°-180°	8835.3	100.0

Coefficient of Utilization



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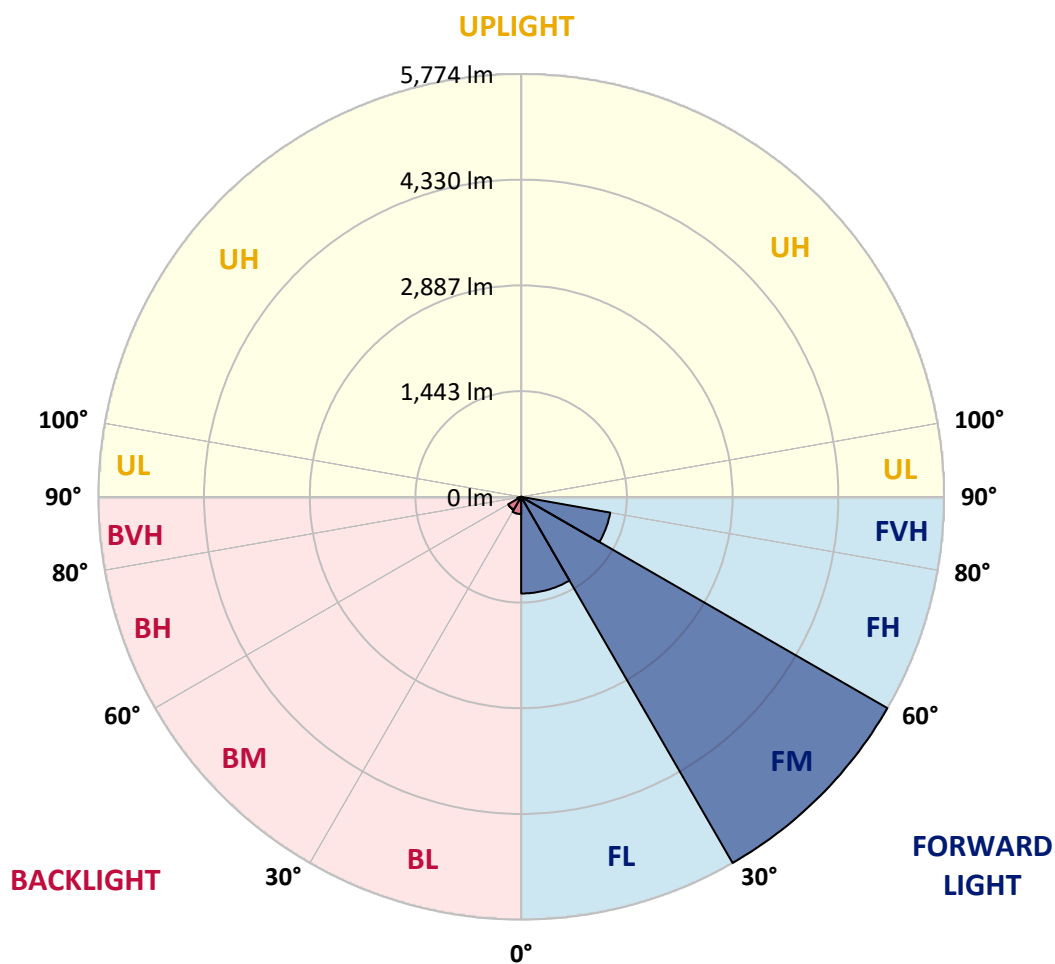
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1320.3	14.9			
FM	(30°-60°)	5773.8	65.3			
FH	(60°-80°)	1234.8	14.0			G1/1800
FVH	(80°-90°)	12.9	0.1			G1/100
BL	(0°-30°)	235.5	2.7	B1/500		
BM	(30°-60°)	204.8	2.3	B0/220		
BH	(60°-80°)	52.9	0.6	B0/110		G0/110
BVH	(80°-90°)	0.3	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°	2487.0	2487.0	2487.0	2487.0	2487.0	2487.0	2487.0	2487.0	2487.0	2487.0	2487.0
2.5°	2942.8	2911.5	2902.2	2895.9	2867.2	2831.3	2782.2	2759.2	2712.3	2636.7	2543.9
5°	3212.3	3206.6	3185.7	3174.3	3143.6	3092.4	3014.3	2976.8	2902.2	2775.0	2608.6
7.5°	3094.5	3130.6	3159.2	3207.2	3267.7	3265.6	3199.9	3160.7	3077.4	2909.4	2680.5
10°	2639.4	2668.5	2715.4	2824.5	3046.6	3242.6	3319.7	3291.6	3224.8	3032.9	2749.9
12.5°	2550.2	2547.1	2555.4	2587.2	2703.4	2982.9	3299.5	3356.2	3342.8	3146.1	2815.6
15°	2597.7	2593.9	2593.0	2603.8	2632.0	2749.9	3146.8	3309.9	3414.6	3251.0	2871.4
17.5°	2730.6	2714.9	2706.7	2697.8	2689.4	2718.6	2963.1	3180.1	3425.6	3342.8	2917.8
20°	2958.5	2932.3	2901.6	2851.6	2804.7	2790.0	2886.0	3046.6	3386.5	3412.7	2948.0
22.5°	3244.7	3211.4	3158.1	3067.0	2971.6	2916.2	2924.1	3004.3	3328.1	3488.7	2962.2
25°	3566.5	3523.6	3452.7	3326.1	3185.7	3087.7	3036.7	3064.7	3301.5	3577.9	2978.3
27.5°	3911.1	3863.6	3770.8	3598.3	3439.3	3306.8	3202.5	3198.9	3346.9	3694.6	3004.3
30°	4252.5	4245.3	4124.3	3941.9	3731.2	3570.0	3419.8	3400.7	3473.6	3856.3	3055.9
32.5°	4708.2	4653.5	4505.4	4317.8	4074.8	3881.3	3703.5	3658.6	3668.0	4044.6	3135.8
35°	5282.9	5222.9	5014.3	4755.2	4483.6	4255.2	4058.6	3997.5	3974.7	4352.6	3270.3
37.5°	5654.1	5653.0	5522.2	5258.4	4966.9	4715.1	4501.2	4429.8	4383.5	4724.9	3478.9
40°	5664.1	5688.5	5705.8	5703.1	5495.7	5263.6	5073.7	4985.7	4877.7	5222.3	3748.4
42.5°	5360.0	5423.2	5574.9	5832.4	5955.6	5863.1	5703.1	5616.7	5455.9	5754.7	4076.9
45°	4949.2	4993.0	5258.4	5732.9	6204.8	6457.6	6335.6	6180.8	5969.1	6310.1	4371.4
47.5°	4765.1	4773.0	4944.5	5465.4	6223.5	6944.5	7018.6	6766.8	6435.2	6757.4	4601.9
50°	4215.0	4229.1	4465.8	5001.9	6003.5	7174.6	7704.9	7466.1	6943.5	7102.1	4685.9
52.5°	3176.9	3196.8	3497.0	4240.1	5398.6	7076.5	8196.0	8138.0	7500.4	7270.5	4690.6
55°	1874.5	1900.5	2187.4	2854.2	4246.3	6453.0	8232.4	8445.1	7939.9	7370.1	4683.3
57.5°	875.5	893.8	1057.9	1470.3	2640.8	5099.9	7682.9	8234.6	8182.4	7422.8	4734.8
60°	465.1	470.4	510.0	636.5	1193.5	3233.8	6610.4	7435.8	7961.4	7495.7	4797.9
62.5°	355.5	357.2	355.1	370.2	501.7	1435.4	4996.6	6113.0	7071.3	7441.0	4728.0
65°	308.2	310.8	296.1	292.5	321.8	512.0	2968.4	4357.4	5556.6	6702.2	4252.0
67.5°	276.4	277.3	259.7	244.6	249.8	276.9	1171.1	2385.4	3678.0	4912.7	3082.1
70°	254.4	253.4	234.1	210.2	203.3	189.3	372.3	874.4	1757.7	2491.3	1433.3
72.5°	225.2	225.7	216.4	185.1	168.9	132.4	172.6	254.9	524.5	678.8	335.7
75°	199.8	197.1	185.6	165.7	139.1	87.0	85.5	113.6	161.7	160.5	72.5
77.5°	144.4	141.8	145.4	136.2	106.9	56.4	42.8	54.7	65.7	63.6	20.3
80°	105.8	104.3	93.9	113.1	94.4	38.5	26.6	29.1	33.9	28.7	6.3
82.5°	72.5	72.0	66.3	62.5	53.7	23.4	16.7	18.2	21.9	16.2	3.1
85°	11.5	13.0	48.0	38.1	31.8	10.4	11.5	12.4	14.6	8.9	1.1
87.5°	0.0	0.0	22.4	19.9	6.3	4.1	6.7	7.2	7.2	4.8	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°	2487.0	2487.0	2487.0	2487.0	2487.0	2487.0	2487.0	2487.0	2487.0	2487.0	2487.0
2.5°	2496.5	2444.4	2347.9	2248.3	2156.0	2046.0	1970.4	1913.6	1847.9	1830.1	1868.7
5°	2513.6	2415.2	2207.7	1981.9	1769.7	1534.5	1354.6	1212.3	1083.4	1039.7	1079.4
7.5°	2540.8	2394.3	2056.0	1684.1	1314.9	947.9	696.5	531.3	425.9	394.7	411.5
10°	2568.0	2364.1	1880.2	1331.6	827.0	461.5	300.4	239.8	217.4	212.7	215.4
12.5°	2590.4	2323.3	1665.8	946.9	442.1	247.2	196.5	186.7	183.6	183.6	184.6
15°	2603.8	2261.8	1412.0	602.3	254.4	186.7	171.5	168.4	168.4	168.9	170.0
17.5°	2602.3	2183.6	1134.1	364.4	190.4	165.3	156.5	153.8	153.3	154.2	154.9
20°	2583.0	2081.5	855.0	240.3	165.7	150.6	141.8	137.1	136.6	137.6	138.7
22.5°	2546.5	1955.3	611.6	185.1	149.7	136.6	125.7	121.5	121.5	122.4	123.5
25°	2502.1	1800.9	418.3	156.9	135.0	121.5	111.1	107.3	108.4	111.1	111.6
27.5°	2447.0	1627.3	284.1	134.6	117.3	106.4	98.5	95.8	98.5	102.1	103.2
30°	2399.6	1446.5	202.8	116.3	99.6	91.7	87.0	87.0	90.6	97.5	99.1
32.5°	2363.0	1271.2	156.5	102.8	86.5	79.8	77.2	79.8	85.5	92.3	93.9
35°	2358.3	1126.7	132.4	91.7	77.2	70.3	69.3	74.0	79.8	85.0	86.1
37.5°	2394.3	993.3	119.5	83.0	68.8	62.5	61.5	67.3	73.0	79.2	80.8
40°	2462.7	888.5	110.0	74.6	62.1	55.2	53.2	57.3	65.1	73.5	75.5
42.5°	2551.2	801.9	99.6	66.3	55.2	45.9	43.3	48.0	56.4	65.1	67.8
45°	2635.6	727.4	88.2	56.9	46.4	35.5	34.5	40.7	44.8	53.7	55.8
47.5°	2682.1	661.6	78.2	46.4	36.0	28.7	28.7	30.3	34.5	44.8	46.9
50°	2666.4	609.1	67.8	34.5	25.1	21.9	21.9	21.4	27.7	36.0	37.5
52.5°	2635.2	578.8	58.4	26.6	17.2	15.6	14.1	15.6	19.4	22.9	23.4
55°	2630.4	573.6	49.0	21.4	11.9	10.4	7.8	7.8	7.8	7.2	6.3
57.5°	2667.0	581.9	41.2	17.2	8.9	6.7	4.1	0.0	0.0	0.0	0.0
60°	2704.5	590.7	35.5	11.9	6.3	3.7	0.4	0.0	0.0	0.0	0.0
62.5°	2641.9	571.0	29.7	7.2	4.8	1.5	0.0	0.0	0.0	0.0	0.0
65°	2320.9	486.0	23.4	5.2	3.1	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	1650.7	325.4	15.6	3.1	0.4	0.0	0.0	0.0	0.0	0.0	0.0
70°	753.4	136.2	9.9	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	161.2	42.2	6.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	32.9	30.7	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	10.4	48.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	6.3	34.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	1.1	5.2	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)