

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: P269859

Luminaire Tested: **GAP-AF-02-LED-U-AFL-7027-1200-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269859
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-7027-1200-HSS
Description: GALLEON PEDESTRIAN LUMINAIRE
(2) 70 CRI, 2700K, 1200mA 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: 9692.1 lumens
Efficiency: N/A
Efficacy: 75.1 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): 129
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

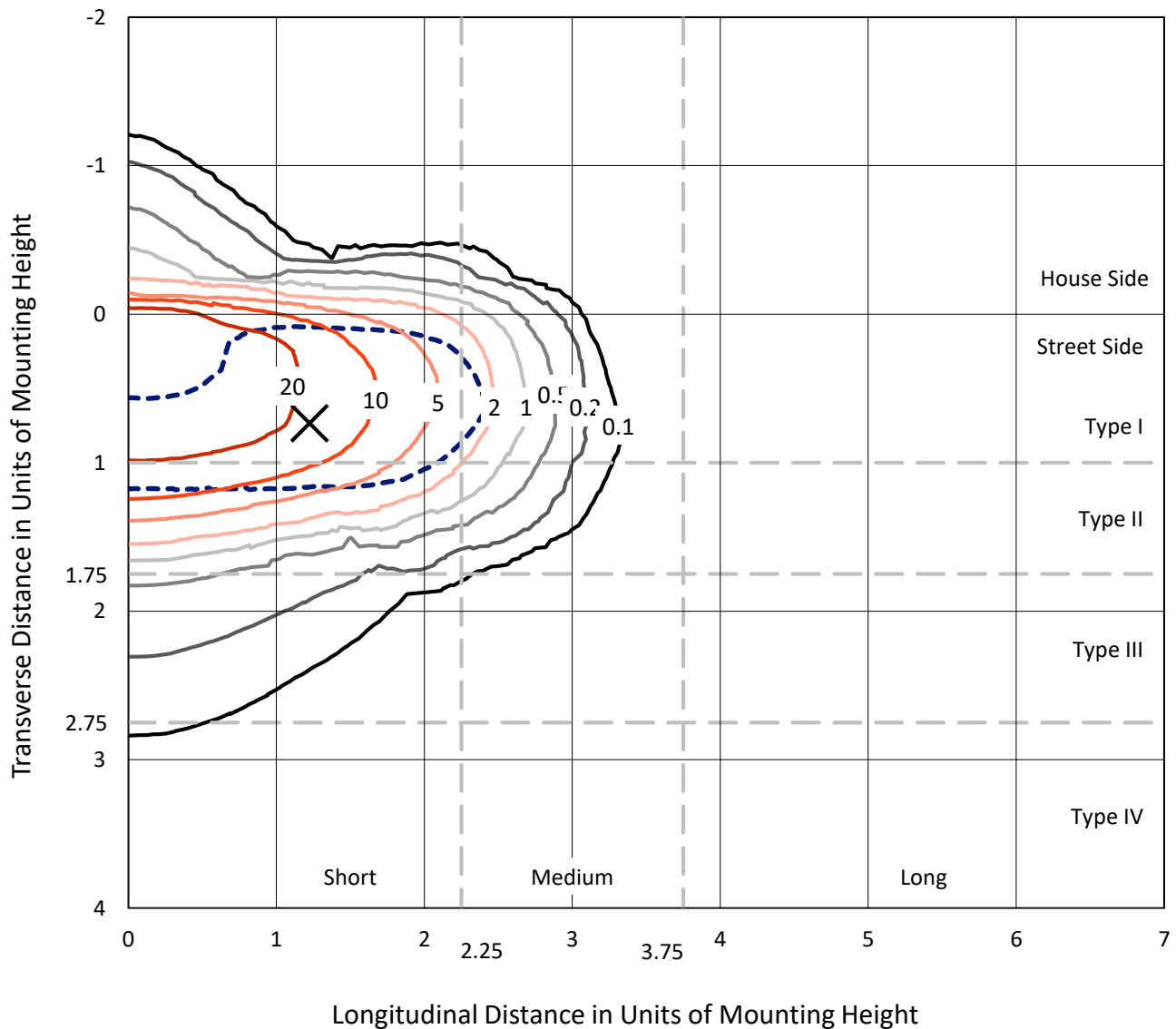


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

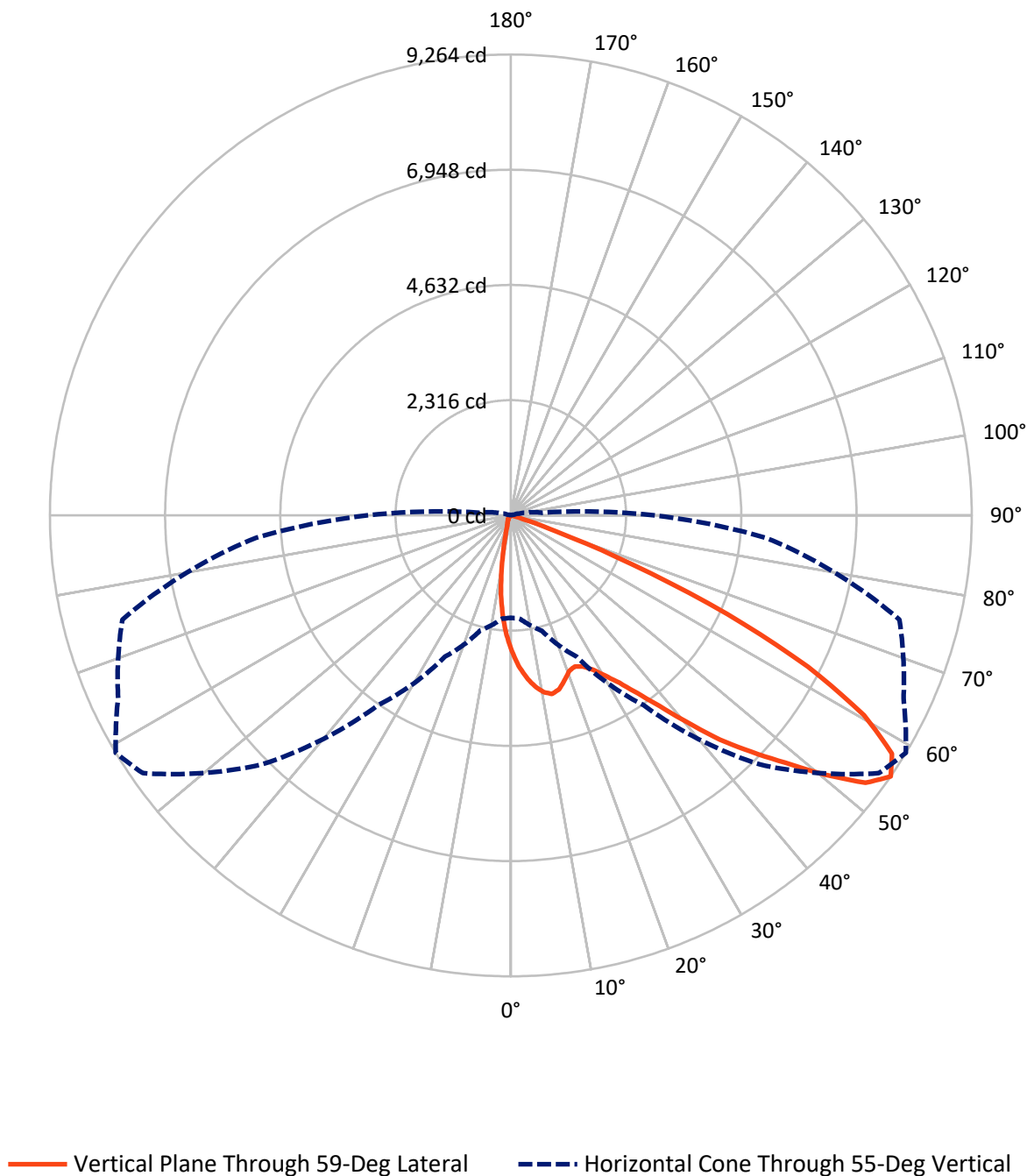


Based on 10 foot mounting height. Maximum calculated value = 33.9 fc
 Type II - Short - Full Cutoff

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Luminous Intensity Polar Plot



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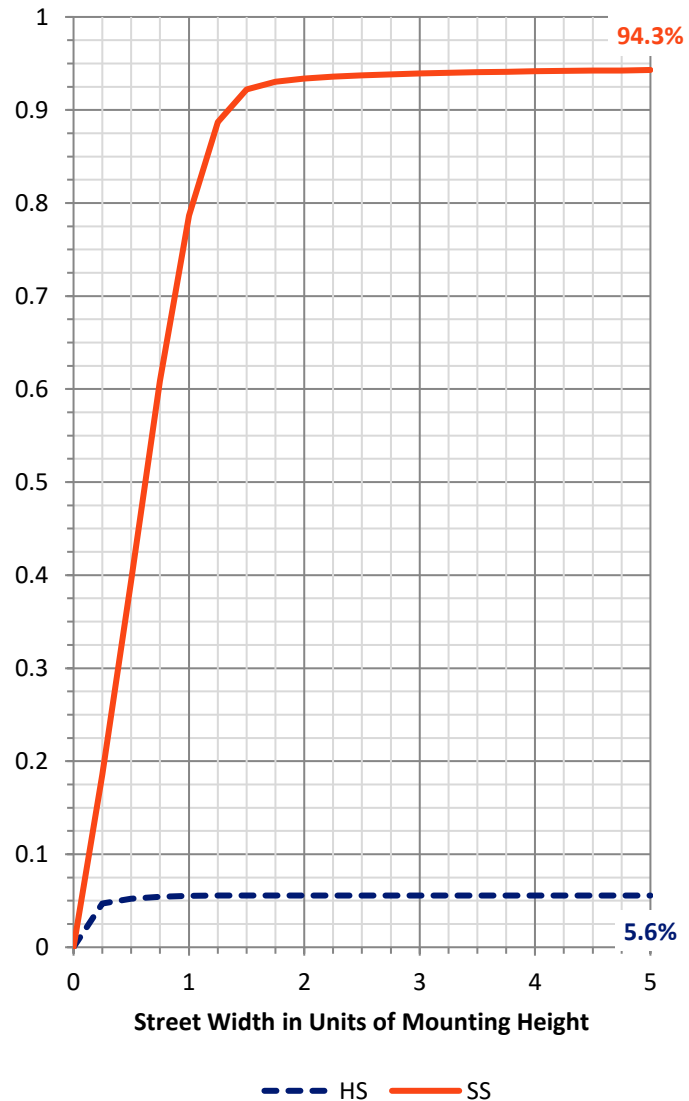
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	541.4	0.0	541.4
	% Fixture	5.6	0.0	5.6
Street Side	Lumens	9150.8	0.0	9150.8
	% Fixture	94.4	0.0	94.4
Total	Lumens	9692.1	0.0	9692.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	228.5	2.4
10°-20°	547.2	5.6
20°-30°	931.0	9.6
30°-40°	1601.2	16.5
40°-50°	2472.1	25.5
50°-60°	2485.2	25.6
60°-70°	1274.4	13.1
70°-80°	138.1	1.4
80°-90°	14.4	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°	9692.1	100.0
0°-180°	9692.1	100.0

Coefficient of Utilization



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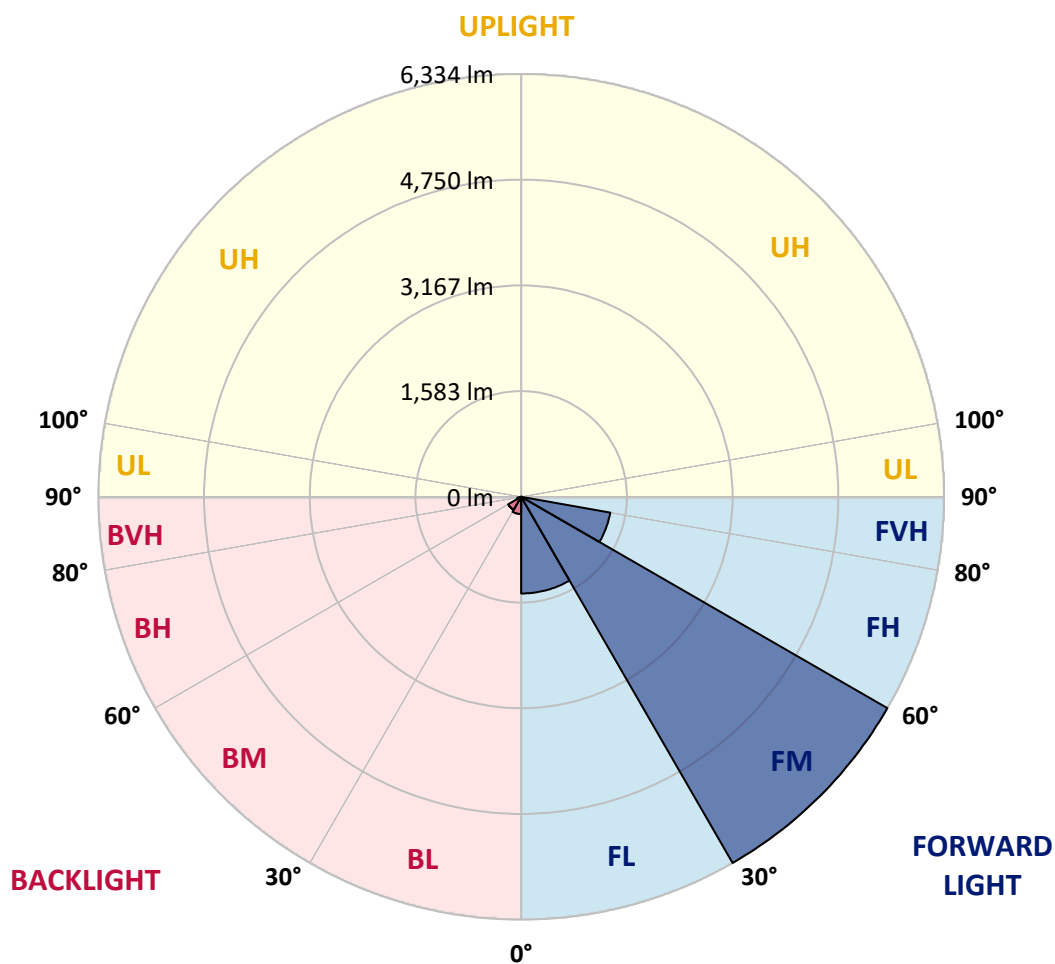
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1448.3	14.9			
FM	(30°-60°)	6333.8	65.3			
FH	(60°-80°)	1354.5	14.0			G1/1800
FVH	(80°-90°)	14.1	0.1			G1/100
BL	(0°-30°)	258.4	2.7	B1/500		
BM	(30°-60°)	224.7	2.3	B1/1000		
BH	(60°-80°)	58.0	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°	2728.3	2728.3	2728.3	2728.3	2728.3	2728.3	2728.3	2728.3	2728.3	2728.3	2728.3
2.5°	3228.1	3193.8	3183.7	3176.8	3145.2	3105.8	3052.0	3026.8	2975.4	2892.5	2790.7
5°	3524.0	3517.7	3494.8	3482.2	3448.5	3392.4	3306.5	3265.3	3183.7	3044.0	2861.6
7.5°	3394.7	3434.1	3465.7	3518.2	3584.5	3582.3	3510.1	3467.3	3375.8	3191.6	2940.5
10°	2895.2	2927.3	2978.8	3098.3	3342.1	3557.1	3641.6	3610.8	3537.6	3327.1	3016.6
12.5°	2797.5	2794.1	2803.3	2838.1	2965.7	3272.3	3619.5	3681.8	3666.9	3451.3	3088.6
15°	2849.6	2845.6	2844.5	2856.4	2887.3	3016.6	3451.8	3630.9	3745.8	3566.2	3149.8
17.5°	2995.4	2978.2	2969.1	2959.3	2950.3	2982.3	3250.4	3488.5	3757.8	3666.9	3200.8
20°	3245.3	3216.8	3183.1	3128.1	3076.7	3060.6	3165.8	3342.1	3714.9	3743.5	3233.9
22.5°	3559.4	3522.8	3464.5	3364.3	3259.7	3199.0	3207.6	3295.7	3650.9	3827.0	3249.3
25°	3912.3	3865.3	3787.7	3648.6	3494.8	3387.1	3331.2	3362.0	3621.7	3924.9	3267.0
27.5°	4290.3	4238.4	4136.4	3947.2	3772.7	3627.4	3513.0	3509.0	3671.6	4053.1	3295.7
30°	4665.0	4657.1	4524.4	4324.1	4092.9	3916.3	3751.5	3730.4	3810.5	4230.3	3352.4
32.5°	5164.9	5104.9	4942.5	4736.6	4470.0	4257.7	4062.8	4013.4	4023.8	4436.8	3439.8
35°	5795.1	5729.4	5500.6	5216.4	4918.4	4667.9	4452.2	4385.3	4360.2	4774.9	3587.4
37.5°	6202.4	6201.3	6057.7	5768.3	5448.6	5172.4	4937.9	4859.4	4808.5	5183.2	3816.2
40°	6213.2	6240.2	6259.1	6256.2	6028.5	5774.0	5565.9	5469.2	5350.8	5728.9	4111.9
42.5°	5879.9	5949.0	6115.5	6398.1	6533.1	6431.9	6256.2	6161.2	5985.0	6312.7	4472.2
45°	5429.1	5477.1	5768.3	6288.9	6806.5	7083.9	6949.9	6780.1	6547.9	6922.0	4795.4
47.5°	5227.2	5235.9	5424.0	5995.4	6827.1	7618.0	7699.4	7423.1	7059.3	7412.8	5048.3
50°	4623.8	4639.2	4898.9	5486.8	6585.7	7870.3	8452.1	8190.0	7616.9	7790.8	5140.3
52.5°	3485.1	3506.8	3836.2	4651.2	5922.2	7762.9	8990.7	8927.4	8227.8	7975.5	5145.4
55°	2056.2	2084.8	2399.5	3131.0	4658.2	7078.7	9030.8	9264.2	8710.0	8084.7	5137.4
57.5°	960.4	980.4	1160.5	1612.9	2897.0	5594.5	8428.0	9033.1	8976.0	8142.5	5194.1
60°	510.1	515.9	559.4	698.4	1309.2	3547.3	7251.5	8156.9	8733.4	8222.6	5263.3
62.5°	390.0	391.8	389.5	406.2	550.2	1574.5	5481.2	6705.8	7757.0	8162.5	5186.6
65°	338.0	340.8	324.8	320.9	352.9	561.7	3256.3	4779.9	6095.4	7352.1	4664.4
67.5°	303.2	304.3	284.9	268.2	274.0	303.6	1284.7	2616.8	4034.6	5389.1	3381.0
70°	279.2	277.9	256.8	230.5	223.0	207.6	408.4	959.2	1928.1	2732.9	1572.4
72.5°	247.2	247.7	237.3	203.0	185.3	145.3	189.4	279.7	575.5	744.8	368.3
75°	219.0	216.2	203.6	181.8	152.7	95.5	93.9	124.7	177.3	176.2	79.5
77.5°	158.5	155.5	159.5	149.3	117.3	61.8	46.9	60.0	72.0	69.8	22.3
80°	116.2	114.4	102.9	124.1	103.6	42.3	29.1	32.0	37.2	31.5	6.8
82.5°	79.5	79.0	72.7	68.6	58.8	25.7	18.2	20.0	24.1	17.7	3.5
85°	12.5	14.4	52.6	41.7	34.9	11.5	12.5	13.7	16.0	9.7	1.2
87.5°	0.0	0.0	24.7	21.6	6.8	4.6	7.5	8.1	8.1	5.1	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°	2728.3	2728.3	2728.3	2728.3	2728.3	2728.3	2728.3	2728.3	2728.3	2728.3	2728.3
2.5°	2738.7	2681.4	2575.6	2466.3	2365.1	2244.4	2161.5	2099.1	2027.0	2007.6	2049.9
5°	2757.4	2649.5	2421.7	2174.1	1941.2	1683.3	1485.9	1329.9	1188.5	1140.5	1184.0
7.5°	2787.3	2626.5	2255.3	1847.5	1442.5	1039.9	764.2	582.8	467.3	433.1	451.3
10°	2816.9	2593.2	2062.5	1460.9	907.2	506.1	329.5	263.2	238.5	233.4	236.3
12.5°	2841.6	2548.8	1827.4	1038.7	485.1	271.1	215.7	204.8	201.3	201.3	202.5
15°	2856.4	2481.2	1548.9	660.7	279.2	204.8	188.1	184.7	184.7	185.3	186.5
17.5°	2854.8	2395.4	1244.1	399.8	208.8	181.3	171.5	168.7	168.2	169.3	169.9
20°	2833.6	2283.3	938.0	263.7	181.8	165.3	155.5	150.5	149.8	150.9	152.2
22.5°	2793.5	2145.0	670.9	203.0	164.2	149.8	137.8	133.3	133.3	134.3	135.6
25°	2745.0	1975.6	458.8	172.1	148.1	133.3	121.8	117.8	118.9	121.8	122.3
27.5°	2684.2	1785.1	311.7	147.6	128.6	116.7	108.1	105.2	108.1	112.1	113.2
30°	2632.3	1586.6	222.5	127.6	109.2	100.7	95.5	95.5	99.5	107.0	108.7
32.5°	2592.1	1394.4	171.5	112.6	95.0	87.6	84.6	87.6	93.9	101.1	102.9
35°	2586.9	1236.0	145.3	100.7	84.6	77.3	76.0	81.2	87.6	93.2	94.4
37.5°	2626.5	1089.6	131.1	91.0	75.5	68.6	67.6	73.8	80.0	87.0	88.7
40°	2701.5	974.7	120.7	81.7	68.0	60.6	58.3	62.9	71.4	80.7	83.0
42.5°	2798.7	879.7	109.2	72.7	60.6	50.3	47.5	52.6	61.8	71.4	74.4
45°	2891.4	798.0	96.7	62.3	50.9	38.8	37.8	44.6	49.1	58.8	61.3
47.5°	2942.2	725.8	85.8	50.9	39.4	31.5	31.5	33.1	37.8	49.1	51.5
50°	2925.1	668.1	74.4	37.8	27.5	24.1	24.1	23.4	30.4	39.4	41.2
52.5°	2890.7	634.9	64.0	29.1	18.9	17.2	15.5	17.2	21.2	25.2	25.7
55°	2885.5	629.2	53.8	23.4	13.1	11.5	8.5	8.5	8.5	8.1	6.8
57.5°	2925.6	638.3	45.2	18.9	9.7	7.5	4.6	0.0	0.0	0.0	0.0
60°	2966.8	648.0	38.8	13.1	6.8	4.0	0.5	0.0	0.0	0.0	0.0
62.5°	2898.2	626.3	32.6	8.1	5.1	1.6	0.0	0.0	0.0	0.0	0.0
65°	2545.8	533.1	25.7	5.7	3.5	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	1810.9	356.8	17.2	3.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0
70°	826.5	149.3	10.9	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	176.7	46.4	7.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	36.0	33.7	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	11.5	53.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	6.8	38.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	1.2	5.7	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)