

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: P841236

Luminaire Tested: **ARCH4-150-730-U-T2R**

Issue Date: 5/27/2024

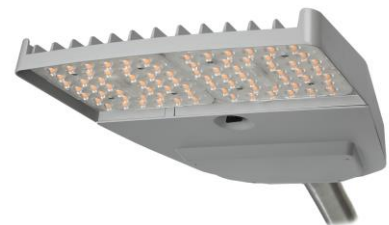
Test Information

Test Method: LM-79-08
Report Number: P841236
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2403-329-1)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-150-730-U-T2R
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 1230mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24759 lumens
Efficiency: N/A
Efficacy: 164.2 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

Input Watts (W): 150.8
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: 24 FT



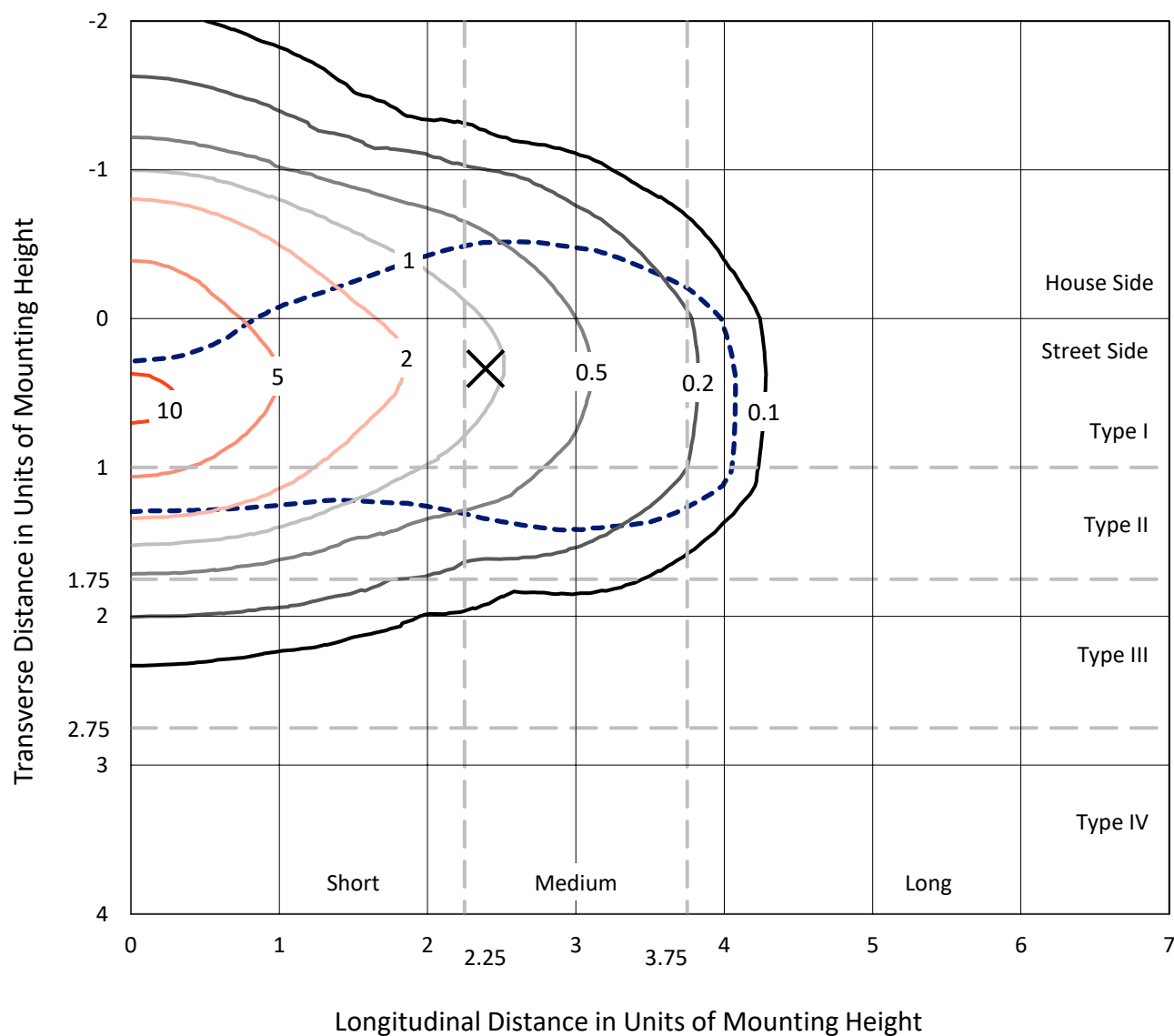
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

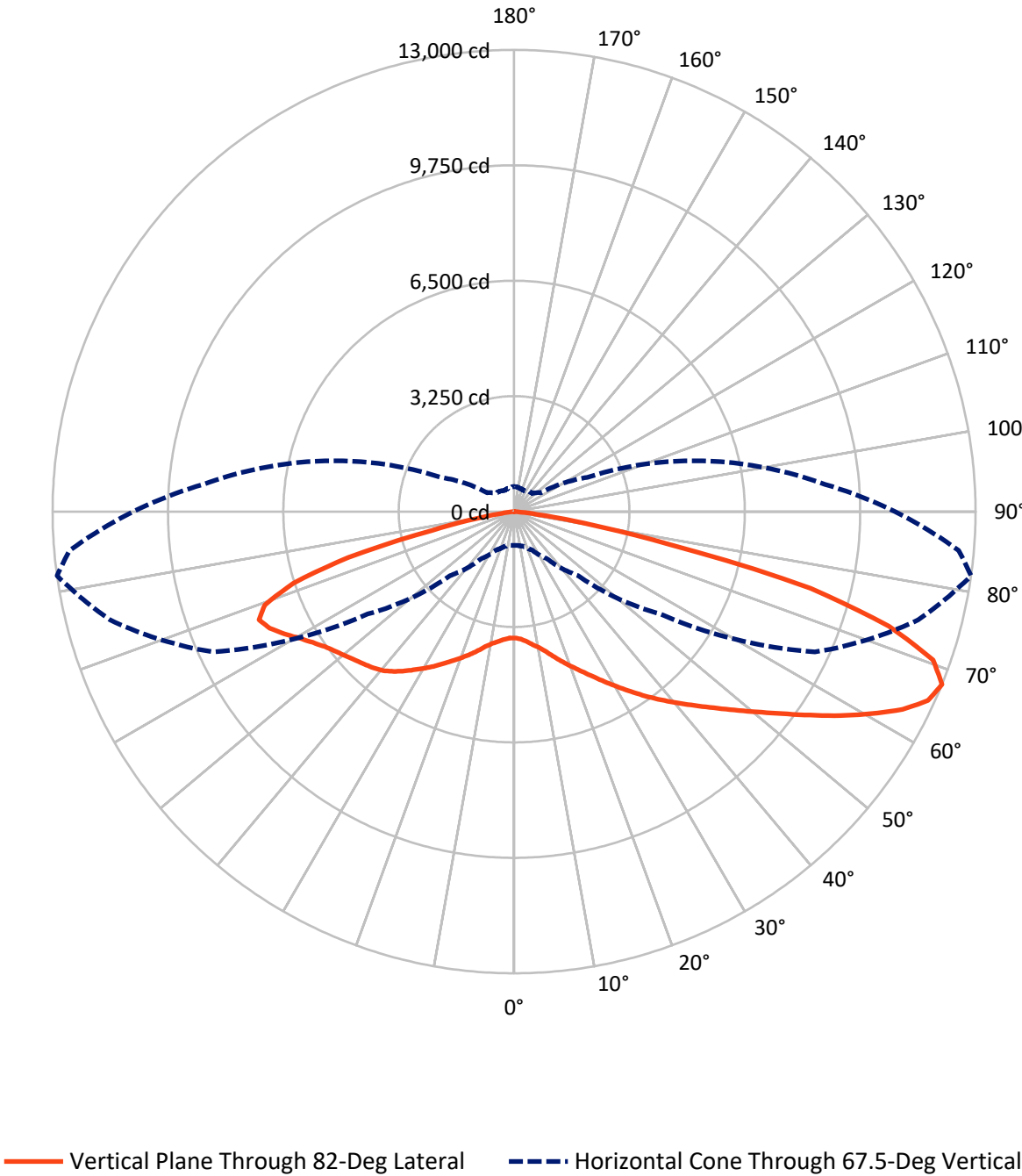
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.9 fc
Type II - Medium - N/A

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Luminous Intensity Polar Plot



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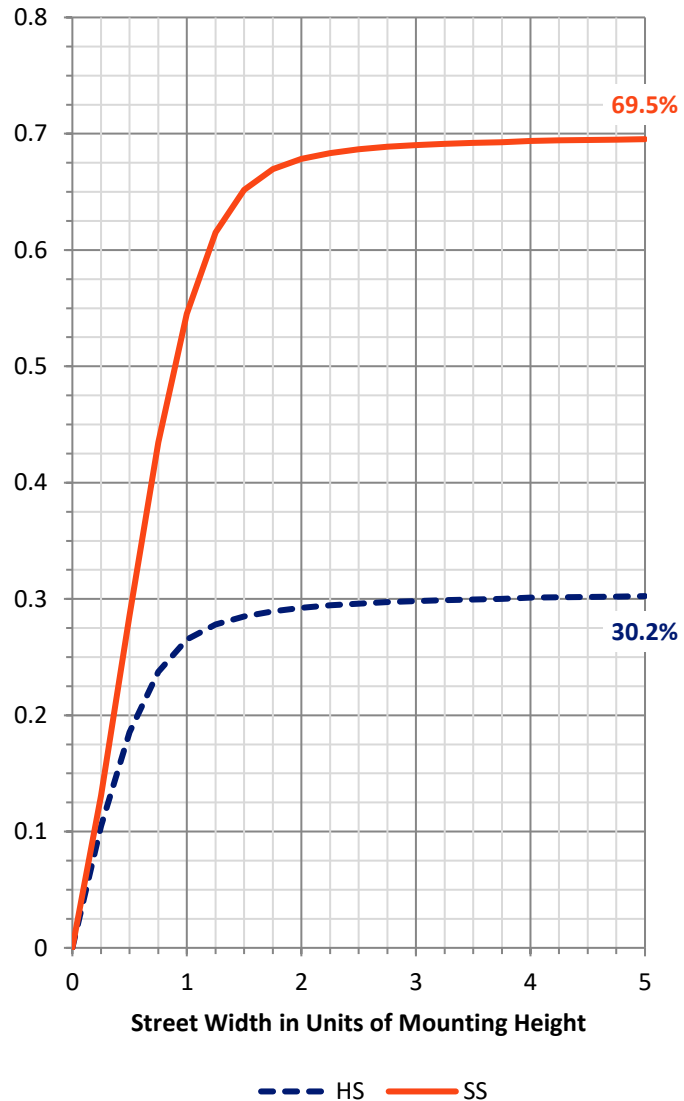
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7540.1	0.0	7540.1
	% Fixture	30.5	0.0	30.5
Street Side	Lumens	17218.9	0.0	17218.9
	% Fixture	69.5	0.0	69.5
Total	Lumens	24759.0	0.0	24759.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	367.8	1.5
10°-20°	1324.9	5.4
20°-30°	2662.7	10.8
30°-40°	4182.7	16.9
40°-50°	5095.4	20.6
50°-60°	4814.5	19.4
60°-70°	3975.7	16.1
70°-80°	2165.0	8.7
80°-90°	170.2	0.7
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°	24759.0	100.0
0°-180°	24759.0	100.0

Coefficient of Utilization



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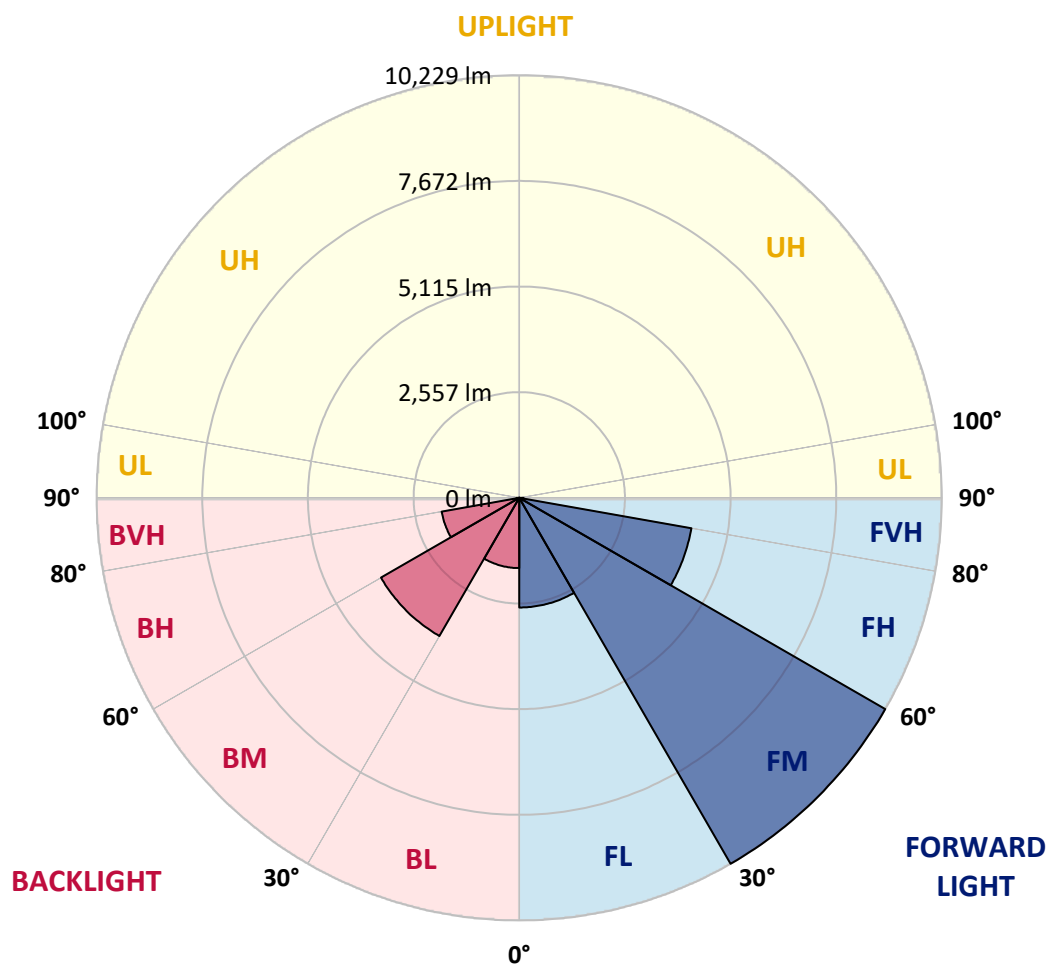
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2655.1	10.7			
FM	(30°-60°)	10229.0	41.3			
FH	(60°-80°)	4232.2	17.1			G2/5000
FVH	(80°-90°)	102.6	0.4			G2/225
BL	(0°-30°)	1700.4	6.9	B3/2500		
BM	(30°-60°)	3863.7	15.6	B3/5000		
BH	(60°-80°)	1908.4	7.7	B3/2500		G3/2500
BVH	(80°-90°)	67.6	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°	85°
0°	3559.1	3559.1	3559.1	3559.1	3559.1	3559.1	3559.1	3559.1	3559.1	3559.1	3559.1
2.5°	3720.9	3720.9	3749.6	3749.6	3724.5	3684.9	3674.1	3631.0	3591.4	3591.4	3595.0
5°	4076.8	4073.2	4094.8	4066.0	4004.9	3925.8	3871.9	3778.4	3699.3	3674.1	3670.5
7.5°	4511.8	4508.2	4519.0	4472.2	4357.2	4227.8	4119.9	3968.9	3839.5	3785.6	3771.2
10°	4997.1	4993.5	4982.7	4903.6	4749.1	4547.7	4386.0	4177.4	3983.3	3897.0	3879.1
12.5°	5554.3	5547.2	5522.0	5406.9	5194.8	4936.0	4702.3	4432.7	4173.8	4055.2	4015.7
15°	6176.3	6165.5	6118.8	5978.6	5694.5	5367.4	5065.4	4720.3	4403.9	4249.3	4195.4
17.5°	6830.6	6830.6	6758.7	6550.2	6233.8	5827.6	5453.7	5015.1	4644.8	4454.3	4389.5
20°	7495.7	7492.1	7402.2	7150.5	6776.7	6309.3	5834.8	5353.0	4892.9	4662.8	4583.7
22.5°	8196.7	8189.5	8078.1	7790.5	7344.7	6816.2	6262.6	5687.4	5166.1	4889.3	4788.6
25°	9002.0	8991.2	8854.6	8502.3	7973.8	7377.0	6744.3	6079.2	5478.8	5140.9	5022.3
27.5°	9857.6	9843.2	9681.5	9271.6	8692.8	7973.8	7276.4	6532.2	5824.0	5421.3	5288.3
30°	10619.8	10609.0	10432.8	10012.2	9347.1	8567.0	7783.3	6985.2	6187.1	5719.7	5554.3
32.5°	11195.0	11195.0	11036.8	10623.4	9933.1	9135.0	8293.8	7413.0	6564.6	6039.7	5845.5
35°	11543.7	11554.5	11417.9	11087.1	10436.4	9670.7	8822.2	7916.3	6967.2	6381.2	6172.7
37.5°	11594.0	11630.0	11550.9	11328.0	10785.1	10116.5	9339.9	8401.6	7384.2	6726.3	6492.6
40°	11360.3	11385.5	11389.1	11302.8	10928.9	10436.4	9796.5	8915.7	7826.4	7089.4	6819.8
42.5°	10893.0	10911.0	10943.3	10968.5	10824.7	10576.6	10145.2	9393.8	8297.4	7459.7	7143.4
45°	10289.0	10285.4	10339.3	10447.2	10440.0	10497.5	10339.3	9828.8	8786.3	7880.3	7502.9
47.5°	9386.7	9368.7	9559.2	9803.7	9925.9	10195.5	10342.9	10170.4	9318.4	8344.1	7912.7
50°	7973.8	7955.8	8372.9	8948.1	9307.6	9717.4	10145.2	10375.3	9875.6	8865.4	8358.5
52.5°	6255.4	6237.4	6765.9	7772.5	8556.2	9153.0	9746.2	10422.0	10404.1	9447.8	8861.8
55°	4652.0	4637.6	5151.7	6241.0	7510.0	8498.7	9257.2	10299.8	10900.2	10116.5	9472.9
57.5°	3278.7	3271.5	3717.3	4619.6	6165.5	7700.6	8786.3	10062.5	11356.7	10842.7	10163.2
60°	2300.8	2290.0	2613.6	3311.0	4662.8	6496.2	8318.9	9746.2	11698.3	11558.1	10896.6
62.5°	1549.5	1542.3	1772.4	2354.8	3311.0	5000.7	7610.7	9534.1	11892.4	12277.1	11637.2
65°	1175.6	1172.0	1276.2	1596.2	2344.0	3591.4	6485.5	9508.9	11917.6	12816.3	12266.3
67.5°	949.1	952.7	1010.2	1193.6	1621.4	2552.5	5029.5	9350.7	11784.6	12999.7	12571.9
70°	776.5	776.5	801.7	923.9	1197.1	1722.0	3512.4	8631.7	11414.3	12521.5	12208.8
72.5°	593.2	596.8	675.9	747.8	902.4	1207.9	2250.5	7143.4	10540.7	11040.4	10803.1
75°	471.0	467.4	514.1	614.8	701.0	862.8	1380.5	5122.9	8969.6	8628.1	8477.1
77.5°	337.9	334.3	370.3	456.6	532.1	611.2	823.3	2584.8	4878.5	4483.0	4371.6
80°	230.1	222.9	255.2	316.4	352.3	359.5	402.6	992.2	2128.3	2006.0	1980.9
82.5°	118.6	118.6	136.6	179.8	183.3	186.9	179.8	320.0	704.6	657.9	629.1
85°	46.7	46.7	50.3	61.1	61.1	64.7	64.7	82.7	75.5	71.9	68.3
87.5°	3.6	3.6	7.2	7.2	10.8	10.8	10.8	14.4	18.0	18.0	18.0
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°	3559.1	3559.1	3559.1	3559.1	3559.1	3559.1	3559.1	3559.1	3559.1	3559.1	3559.1
2.5°	3587.9	3573.5	3526.7	3516.0	3508.8	3498.0	3501.6	3476.4	3465.6	3469.2	3454.8
5°	3652.6	3627.4	3569.9	3544.7	3537.5	3526.7	3537.5	3519.5	3501.6	3508.8	3501.6
7.5°	3742.4	3706.5	3634.6	3609.4	3605.8	3595.0	3609.4	3595.0	3580.7	3587.9	3573.5
10°	3835.9	3789.2	3710.1	3684.9	3684.9	3681.3	3695.7	3674.1	3659.8	3663.3	3656.2
12.5°	3972.5	3911.4	3825.1	3803.6	3792.8	3803.6	3807.2	3778.4	3753.2	3756.8	3746.0
15°	4137.9	4069.6	3976.1	3943.8	3936.6	3933.0	3918.6	3882.6	3850.3	3846.7	3835.9
17.5°	4317.6	4231.4	4119.9	4087.6	4055.2	4044.4	4008.5	3961.7	3911.4	3911.4	3897.0
20°	4490.2	4393.1	4260.1	4213.4	4166.7	4123.5	4062.4	3986.9	3922.2	3911.4	3897.0
22.5°	4677.2	4562.1	4407.5	4339.2	4256.5	4170.3	4066.0	3965.3	3882.6	3864.7	3853.9
25°	4885.7	4741.9	4558.5	4457.9	4324.8	4191.8	4037.2	3907.8	3810.7	3782.0	3774.8
27.5°	5115.7	4943.2	4720.3	4572.9	4378.8	4170.3	3972.5	3817.9	3699.3	3663.3	3652.6
30°	5349.4	5144.5	4867.7	4652.0	4378.8	4101.9	3853.9	3674.1	3537.5	3487.2	3480.0
32.5°	5583.1	5353.0	5000.7	4695.1	4335.6	3986.9	3699.3	3487.2	3332.6	3271.5	3285.9
35°	5863.5	5583.1	5122.9	4713.1	4263.7	3846.7	3523.1	3275.1	3116.9	3063.0	3073.8
37.5°	6154.7	5813.2	5220.0	4698.7	4163.1	3688.5	3325.4	3084.5	2886.8	2793.3	2804.1
40°	6406.4	6021.7	5288.3	4648.4	4033.6	3508.8	3131.3	2814.9	2541.7	2451.8	2441.0
42.5°	6643.6	6176.3	5324.3	4572.9	3886.2	3300.3	2854.5	2448.2	2175.0	2063.6	2067.2
45°	6891.7	6327.3	5309.9	4472.2	3702.9	3055.8	2498.6	2088.7	1847.9	1747.2	1750.8
47.5°	7175.7	6489.1	5295.5	4364.4	3480.0	2739.4	2157.0	1772.4	1563.8	1491.9	1484.8
50°	7477.7	6668.8	5277.5	4231.4	3231.9	2387.1	1819.1	1477.6	1301.4	1254.7	1243.9
52.5°	7819.2	6862.9	5266.7	4073.2	2933.6	2013.2	1517.1	1218.7	1100.1	1067.7	1064.1
55°	8229.1	7089.4	5281.1	3882.6	2574.1	1660.9	1261.9	1049.8	970.7	952.7	949.1
57.5°	8728.8	7380.6	5324.3	3659.8	2196.6	1355.3	1074.9	945.5	895.2	880.8	880.8
60°	9271.6	7711.4	5403.4	3408.1	1819.1	1118.1	952.7	862.8	841.2	859.2	859.2
62.5°	9857.6	8099.6	5543.6	3102.5	1466.8	945.5	855.6	794.5	780.1	816.1	819.7
65°	10400.5	8477.1	5633.4	2735.8	1164.8	819.7	780.1	726.2	733.4	769.3	765.7
67.5°	10734.8	8789.9	5507.6	2275.7	923.9	726.2	701.0	654.3	672.3	701.0	704.6
70°	10529.9	8613.7	4885.7	1718.4	722.6	632.7	614.8	586.0	600.4	636.3	650.7
72.5°	9526.9	7715.0	3800.0	1161.2	582.4	532.1	539.3	524.9	542.9	575.2	607.6
75°	7732.9	5831.2	2548.9	744.2	460.2	453.0	463.8	453.0	460.2	492.5	510.5
77.5°	4037.2	2843.7	1269.1	463.8	341.5	352.3	370.3	373.9	395.5	402.6	409.8
80°	1883.8	1279.8	528.5	258.8	226.5	248.1	284.0	287.6	294.8	305.6	309.2
82.5°	614.8	384.7	244.5	140.2	129.4	140.2	183.3	219.3	222.9	244.5	244.5
85°	64.7	39.5	53.9	57.5	50.3	61.1	82.7	79.1	36.0	21.6	21.6
87.5°	18.0	14.4	18.0	18.0	14.4	14.4	10.8	3.6	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)