

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: P841119

Luminaire Tested: **ARCH4-130-750-U-T2R**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P841119
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: ARCH4-130-750-U-T2R
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 5000K, 1080mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23207 lumens
Efficiency: N/A
Efficacy: 175.8 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): 132
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



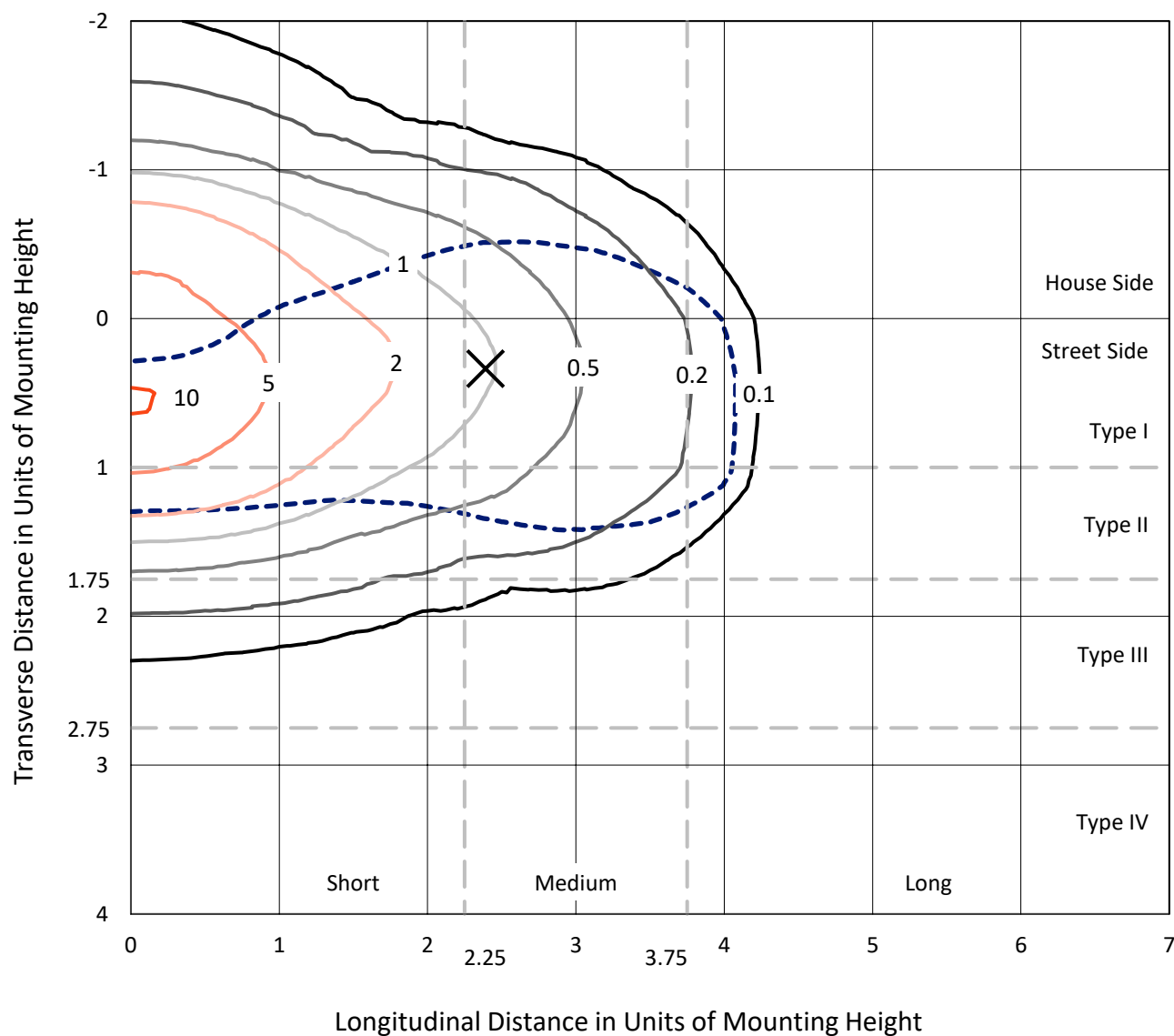
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

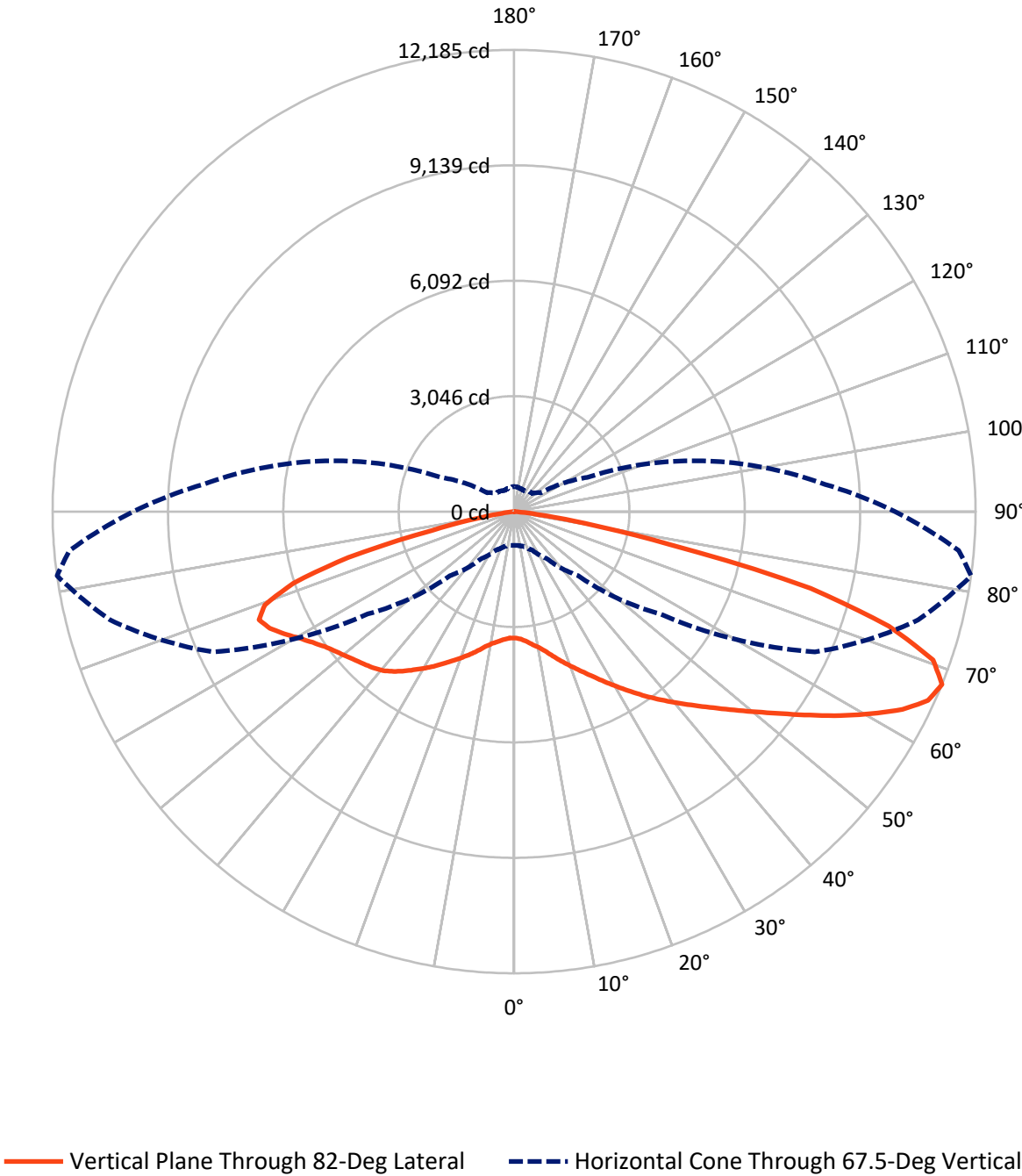
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.2 fc
Type II - Medium - N/A

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Luminous Intensity Polar Plot



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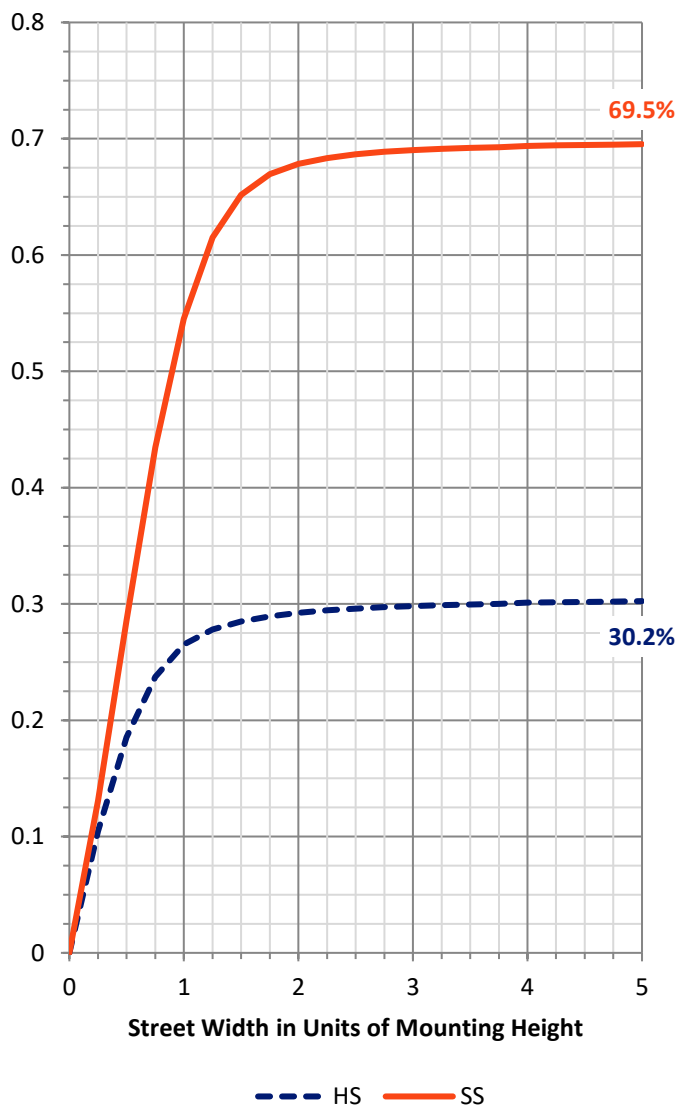
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7067.5	0.0	7067.5
	% Fixture	30.5	0.0	30.5
Street Side	Lumens	16139.5	0.0	16139.5
	% Fixture	69.5	0.0	69.5
Total	Lumens	23207.0	0.0	23207.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	344.8	1.5
10°-20°	1241.8	5.4
20°-30°	2495.8	10.8
30°-40°	3920.6	16.9
40°-50°	4776.0	20.6
50°-60°	4512.7	19.4
60°-70°	3726.5	16.1
70°-80°	2029.2	8.7
80°-90°	159.5	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°	23207.0	100.0
0°-180°	23207.0	100.0

Coefficient of Utilization



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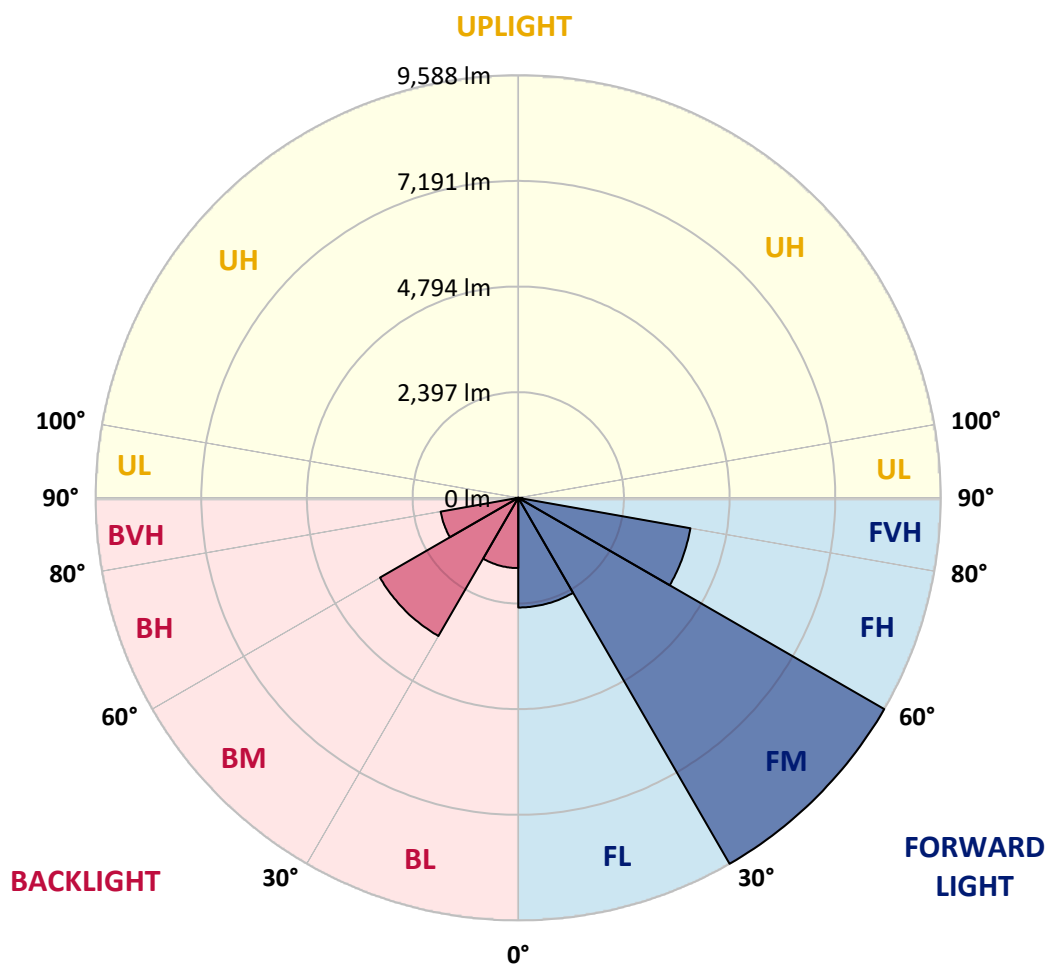
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2488.6	10.7			
FM	(30°-60°)	9587.8	41.3			
FH	(60°-80°)	3966.9	17.1			G2/5000
FVH	(80°-90°)	96.2	0.4			G1/100
BL	(0°-30°)	1593.8	6.9	B3/2500		
BM	(30°-60°)	3621.5	15.6	B3/5000		
BH	(60°-80°)	1788.8	7.7	B3/2500		G3/2500
BVH	(80°-90°)	63.4	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°	3336.0	3336.0	3336.0	3336.0	3336.0	3336.0	3336.0	3336.0	3336.0	3336.0	3336.0
2.5°	3487.6	3487.6	3514.6	3514.6	3491.0	3453.9	3443.8	3403.4	3366.3	3366.3	3369.7
5°	3821.2	3817.9	3838.1	3811.1	3753.8	3679.7	3629.2	3541.5	3467.4	3443.8	3440.5
7.5°	4229.0	4225.6	4235.7	4191.9	4084.1	3962.8	3861.7	3720.1	3598.8	3548.3	3534.8
10°	4683.9	4680.5	4670.4	4596.3	4451.4	4262.7	4111.0	3915.6	3733.6	3652.7	3635.9
12.5°	5206.2	5199.4	5175.8	5068.0	4869.2	4626.6	4407.6	4154.8	3912.2	3801.0	3763.9
15°	5789.1	5779.0	5735.2	5603.8	5337.6	5030.9	4747.9	4424.4	4127.9	3983.0	3932.4
17.5°	6402.4	6402.4	6335.0	6139.6	5843.0	5462.3	5111.8	4700.7	4353.6	4175.0	4114.4
20°	7025.8	7022.4	6938.2	6702.3	6351.9	5913.8	5469.0	5017.5	4586.1	4370.5	4296.4
22.5°	7682.9	7676.2	7571.7	7302.1	6884.3	6388.9	5870.0	5330.9	4842.2	4582.8	4488.4
25°	8437.7	8427.6	8299.5	7969.3	7474.0	6914.6	6321.5	5698.1	5135.4	4818.7	4707.5
27.5°	9239.7	9226.2	9074.6	8690.4	8147.9	7474.0	6820.3	6122.7	5458.9	5081.5	4956.8
30°	9954.1	9944.0	9778.8	9384.6	8761.2	8030.0	7295.4	6547.3	5799.2	5361.2	5206.2
32.5°	10493.2	10493.2	10345.0	9957.4	9310.5	8562.4	7773.9	6948.3	6153.1	5661.1	5479.1
35°	10820.1	10830.2	10702.1	10392.1	9782.2	9064.5	8269.2	7420.1	6530.5	5981.2	5785.8
37.5°	10867.3	10901.0	10826.8	10617.9	10109.1	9482.3	8754.5	7875.0	6921.3	6304.7	6085.7
40°	10648.2	10671.8	10675.2	10594.3	10243.9	9782.2	9182.4	8356.8	7335.8	6645.0	6392.3
42.5°	10210.2	10227.0	10257.3	10280.9	10146.1	9913.6	9509.3	8805.0	7777.2	6992.1	6695.6
45°	9644.1	9640.7	9691.2	9792.3	9785.6	9839.5	9691.2	9212.7	8235.5	7386.4	7032.5
47.5°	8798.3	8781.4	8960.0	9189.1	9303.7	9556.4	9694.6	9532.9	8734.2	7821.1	7416.7
50°	7474.0	7457.1	7848.0	8387.2	8724.1	9108.3	9509.3	9724.9	9256.5	8309.7	7834.5
52.5°	5863.3	5846.4	6341.8	7285.3	8019.9	8579.2	9135.2	9768.7	9751.9	8855.5	8306.3
55°	4360.4	4346.9	4828.8	5849.8	7039.3	7965.9	8677.0	9654.2	10216.9	9482.3	8879.1
57.5°	3073.2	3066.4	3484.3	4330.1	5779.0	7217.9	8235.5	9431.8	10644.9	10163.0	9526.1
60°	2156.6	2146.5	2449.8	3103.5	4370.5	6089.0	7797.5	9135.2	10965.0	10833.6	10213.5
62.5°	1452.3	1445.6	1661.3	2207.1	3103.5	4687.2	7133.6	8936.4	11146.9	11507.5	10907.7
65°	1101.9	1098.5	1196.2	1496.1	2197.0	3366.3	6078.9	8912.8	11170.5	12012.9	11497.4
67.5°	889.6	893.0	946.9	1118.7	1519.7	2392.5	4714.2	8764.6	11045.8	12184.8	11783.8
70°	727.9	727.9	751.4	866.0	1122.1	1614.1	3292.2	8090.6	10698.8	11736.6	11443.5
72.5°	556.0	559.4	633.5	700.9	845.8	1132.2	2109.4	6695.6	9879.9	10348.3	10125.9
75°	441.4	438.1	481.9	576.2	657.1	808.7	1294.0	4801.8	8407.4	8087.3	7945.7
77.5°	316.8	313.4	347.1	428.0	498.7	572.8	771.7	2422.8	4572.7	4202.0	4097.5
80°	215.7	208.9	239.2	296.5	330.2	337.0	377.4	930.0	1994.9	1880.3	1856.7
82.5°	111.2	111.2	128.0	168.5	171.9	175.2	168.5	299.9	660.5	616.7	589.7
85°	43.8	43.8	47.2	57.3	57.3	60.7	60.7	77.5	70.8	67.4	64.0
87.5°	3.4	3.4	6.7	6.7	10.1	10.1	10.1	13.5	16.8	16.8	16.8
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°	3336.0	3336.0	3336.0	3336.0	3336.0	3336.0	3336.0	3336.0	3336.0	3336.0	3336.0
2.5°	3363.0	3349.5	3305.7	3295.6	3288.8	3278.7	3282.1	3258.5	3248.4	3251.8	3238.3
5°	3423.6	3400.0	3346.1	3322.5	3315.8	3305.7	3315.8	3298.9	3282.1	3288.8	3282.1
7.5°	3507.8	3474.2	3406.8	3383.2	3379.8	3369.7	3383.2	3369.7	3356.2	3363.0	3349.5
10°	3595.5	3551.7	3477.5	3453.9	3453.9	3450.6	3464.0	3443.8	3430.3	3433.7	3427.0
12.5°	3723.5	3666.2	3585.4	3565.1	3555.0	3565.1	3568.5	3541.5	3518.0	3521.3	3511.2
15°	3878.5	3814.5	3726.9	3696.6	3689.8	3686.4	3673.0	3639.3	3608.9	3605.6	3595.5
17.5°	4047.0	3966.1	3861.7	3831.3	3801.0	3790.9	3757.2	3713.4	3666.2	3666.2	3652.7
20°	4208.7	4117.8	3993.1	3949.3	3905.5	3865.0	3807.8	3737.0	3676.3	3666.2	3652.7
22.5°	4384.0	4276.1	4131.2	4067.2	3989.7	3908.8	3811.1	3716.8	3639.3	3622.4	3612.3
25°	4579.4	4444.6	4272.8	4178.4	4053.7	3929.1	3784.2	3662.9	3571.9	3544.9	3538.2
27.5°	4795.1	4633.3	4424.4	4286.2	4104.3	3908.8	3723.5	3578.6	3467.4	3433.7	3423.6
30°	5014.1	4822.0	4562.6	4360.4	4104.3	3844.8	3612.3	3443.8	3315.8	3268.6	3261.9
32.5°	5233.1	5017.5	4687.2	4400.8	4063.8	3737.0	3467.4	3268.6	3123.7	3066.4	3079.9
35°	5496.0	5233.1	4801.8	4417.7	3996.5	3605.6	3302.3	3069.8	2921.5	2871.0	2881.1
37.5°	5768.9	5448.8	4892.8	4404.2	3902.1	3457.3	3117.0	2891.2	2705.9	2618.3	2628.4
40°	6004.8	5644.2	4956.8	4357.0	3780.8	3288.8	2935.0	2638.5	2382.4	2298.1	2288.0
42.5°	6227.2	5789.1	4990.5	4286.2	3642.6	3093.4	2675.5	2294.8	2038.7	1934.2	1937.6
45°	6459.7	5930.7	4977.0	4191.9	3470.8	2864.2	2341.9	1957.8	1732.0	1637.7	1641.0
47.5°	6725.9	6082.3	4963.6	4090.8	3261.9	2567.7	2021.8	1661.3	1465.8	1398.4	1391.7
50°	7009.0	6250.8	4946.7	3966.1	3029.4	2237.5	1705.1	1384.9	1219.8	1176.0	1165.9
52.5°	7329.1	6432.7	4936.6	3817.9	2749.7	1887.0	1422.0	1142.3	1031.1	1000.8	997.4
55°	7713.2	6645.0	4950.1	3639.3	2412.7	1556.8	1182.8	983.9	909.8	893.0	889.6
57.5°	8181.6	6918.0	4990.5	3430.3	2058.9	1270.4	1007.5	886.2	839.1	825.6	825.6
60°	8690.4	7228.0	5064.6	3194.5	1705.1	1048.0	893.0	808.7	788.5	805.4	805.4
62.5°	9239.7	7591.9	5196.1	2908.0	1374.8	886.2	802.0	744.7	731.2	764.9	768.3
65°	9748.5	7945.7	5280.3	2564.3	1091.8	768.3	731.2	680.7	687.4	721.1	717.7
67.5°	10061.9	8238.9	5162.4	2133.0	866.0	680.7	657.1	613.3	630.1	657.1	660.5
70°	9869.8	8073.8	4579.4	1610.7	677.3	593.1	576.2	549.3	562.7	596.4	609.9
72.5°	8929.7	7231.4	3561.8	1088.4	545.9	498.7	505.5	492.0	508.8	539.2	569.5
75°	7248.2	5465.6	2389.1	697.5	431.3	424.6	434.7	424.6	431.3	461.6	478.5
77.5°	3784.2	2665.4	1189.5	434.7	320.1	330.2	347.1	350.4	370.7	377.4	384.1
80°	1765.7	1199.6	495.3	242.6	212.3	232.5	266.2	269.6	276.3	286.4	289.8
82.5°	576.2	360.6	229.1	131.4	121.3	131.4	171.9	205.6	208.9	229.1	229.1
85°	60.7	37.1	50.5	53.9	47.2	57.3	77.5	74.1	33.7	20.2	20.2
87.5°	16.8	13.5	16.8	16.8	13.5	13.5	10.1	3.4	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)