

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: P836111

Luminaire Tested: **ARCH3-140-730-U-T2U**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P836111
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-18)
Test Lab: INNOVATION CENTER
Issue Date: 5/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH3-140-730-U-T2U
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 3000K, 1110mA LIGHTSQUARE WITH 40 LEDS AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20601 lumens
Efficiency: N/A
Efficacy: 144.6 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

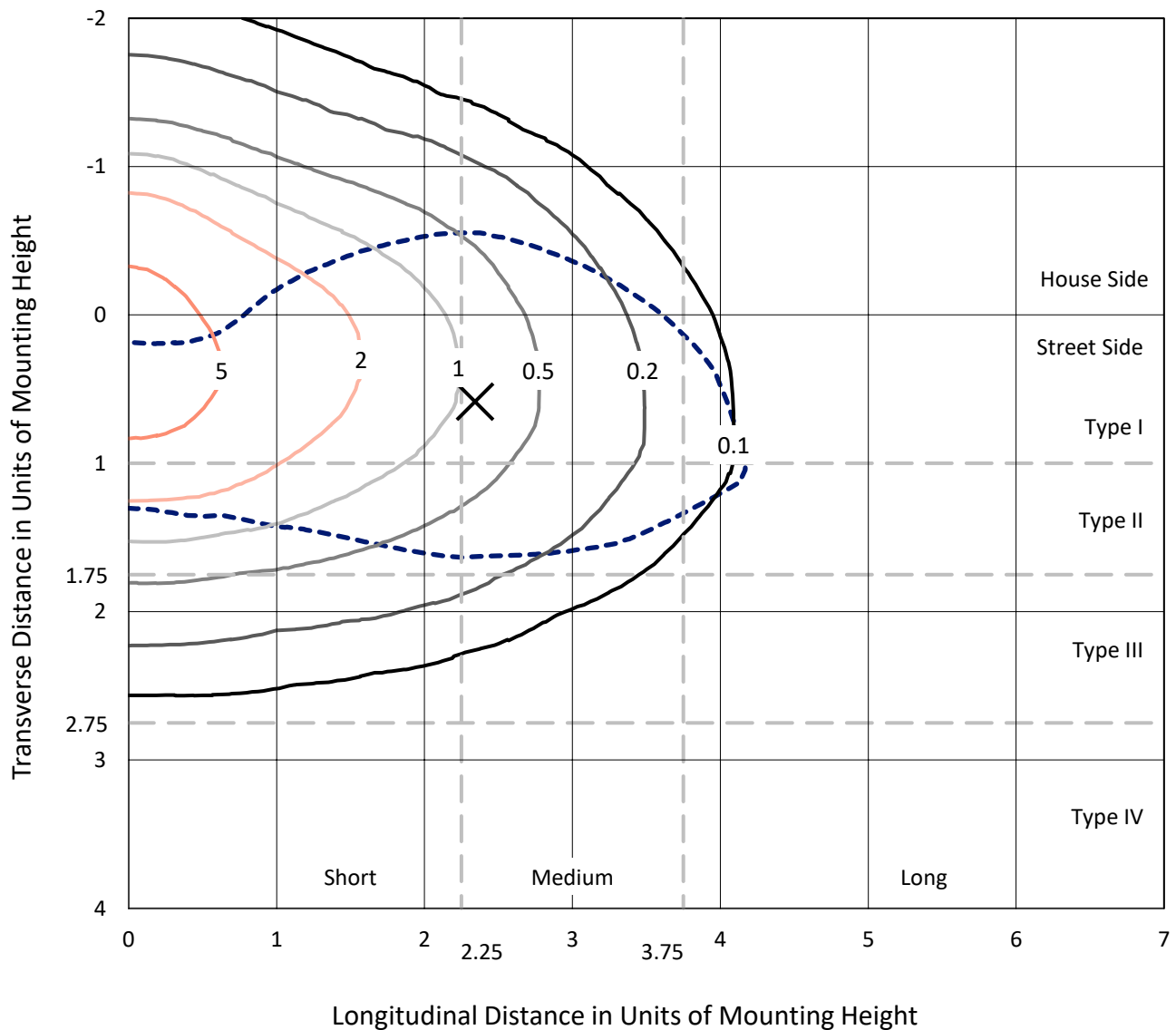
Input Watts (W): 142.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

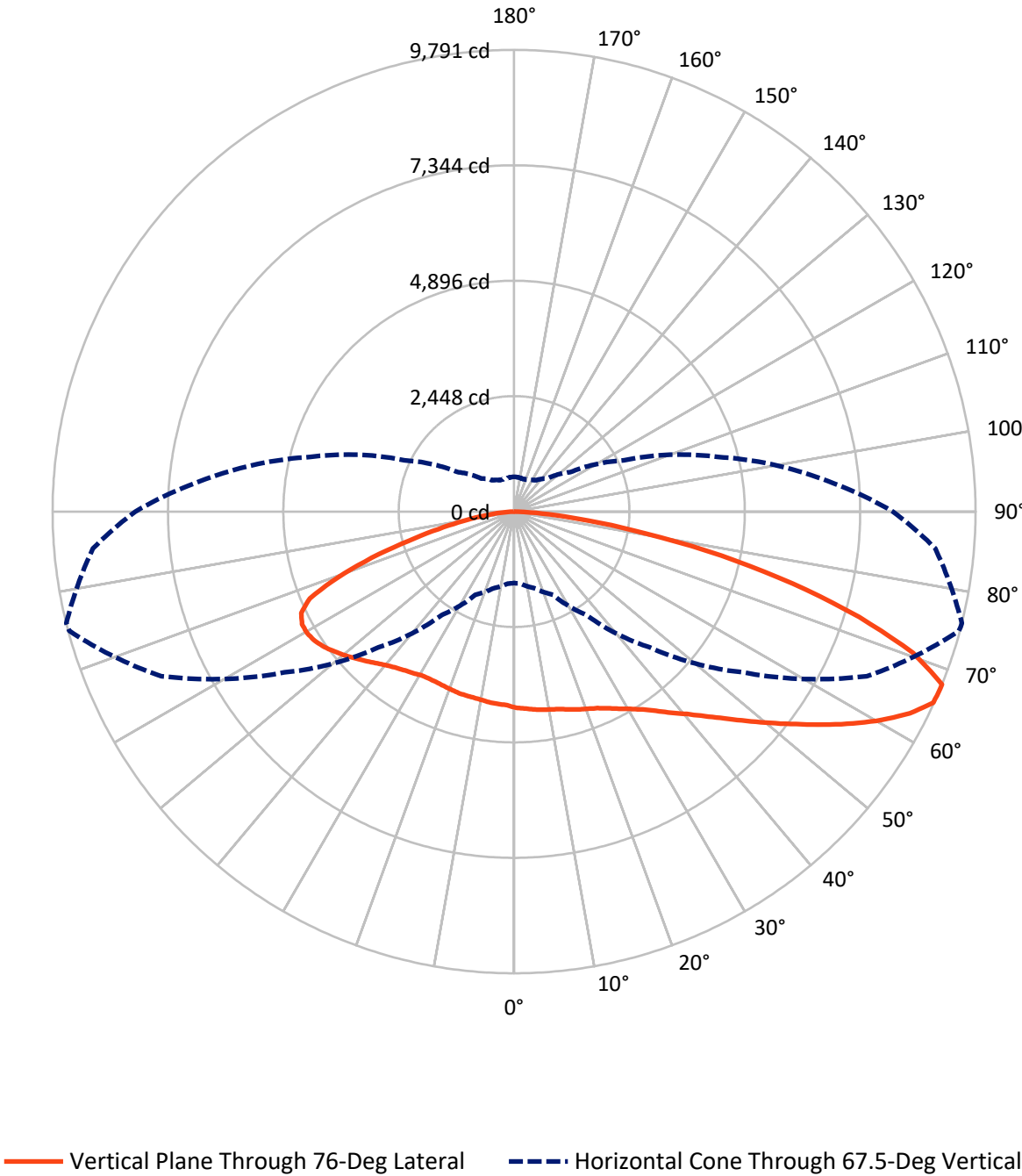
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.5 fc
Type II - Medium - N/A

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Luminous Intensity Polar Plot



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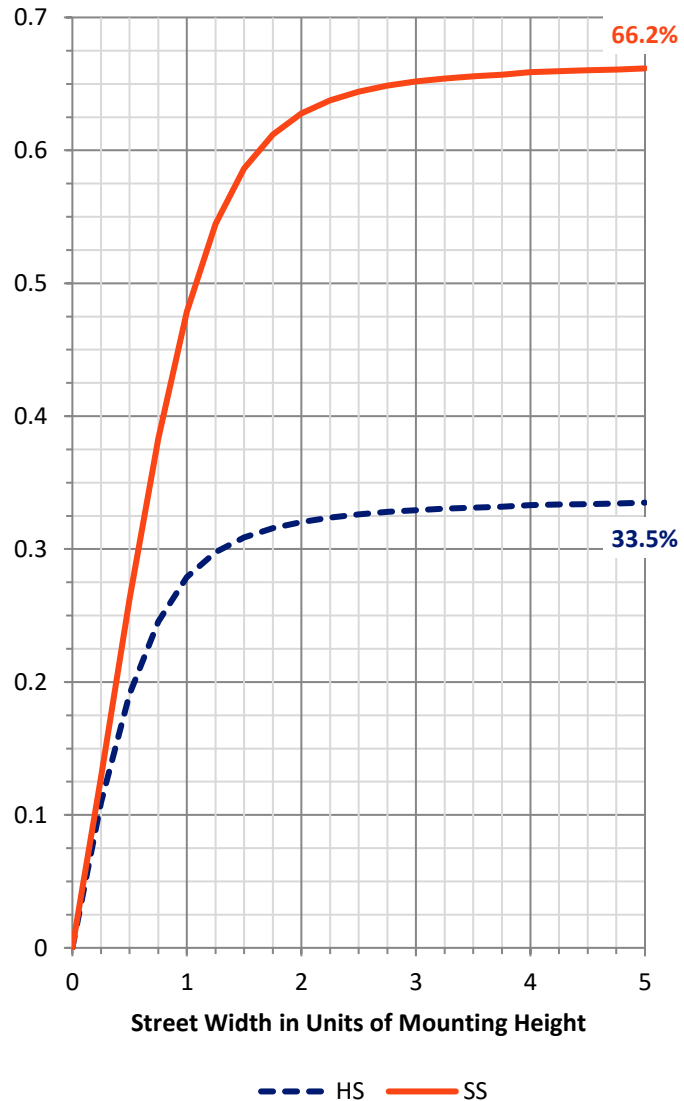
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6961.2	0.0	6961.2
	% Fixture	33.8	0.0	33.8
Street Side	Lumens	13639.8	0.0	13639.8
	% Fixture	66.2	0.0	66.2
Total	Lumens	20601.0	0.0	20601.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	401.3	1.9
10°-20°	1226.8	6.0
20°-30°	2084.3	10.1
30°-40°	2965.7	14.4
40°-50°	3745.5	18.2
50°-60°	4055.2	19.7
60°-70°	3771.8	18.3
70°-80°	2025.8	9.8
80°-90°	324.6	1.6
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°	20601.0	100.0
0°-180°	20601.0	100.0

Coefficient of Utilization



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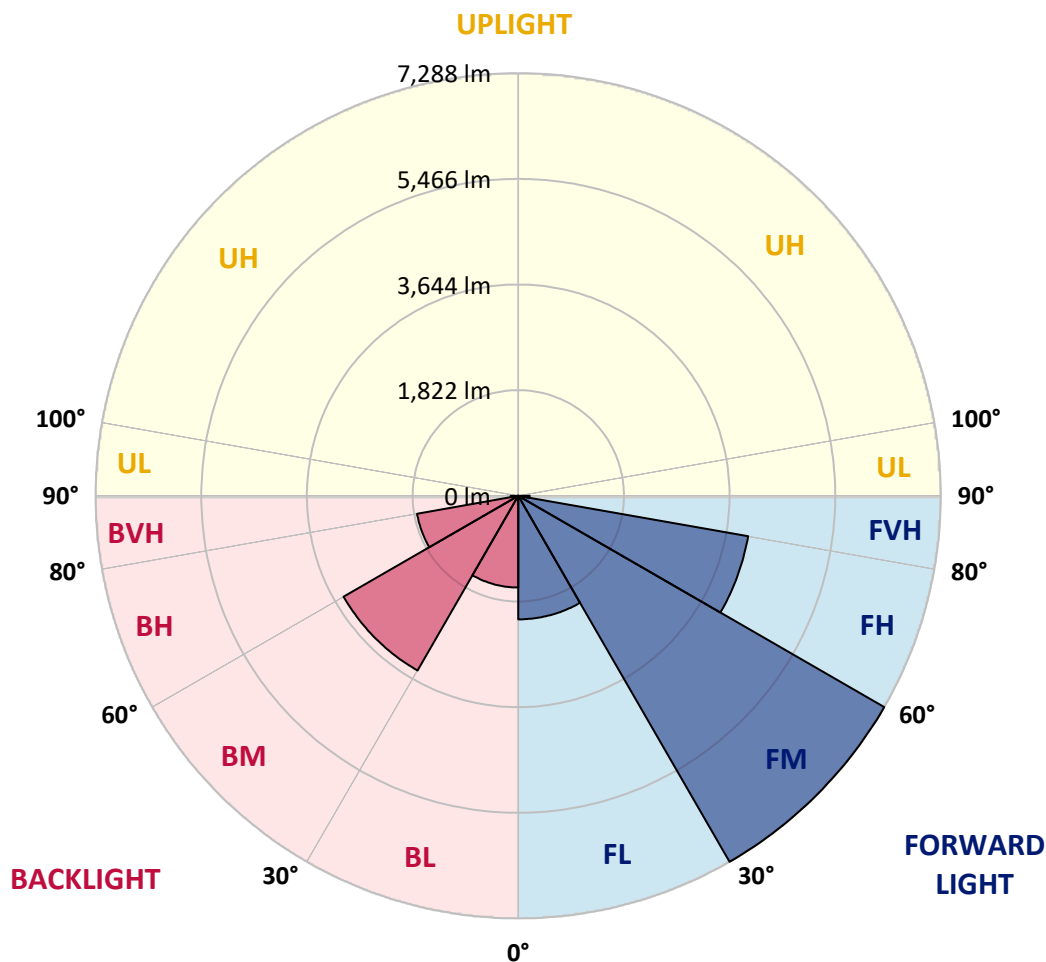
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2130.4	10.3			
FM	(30°-60°)	7287.8	35.4			
FH	(60°-80°)	4025.2	19.5			G2/5000
FVH	(80°-90°)	196.4	1.0			G2/225
BL	(0°-30°)	1582.0	7.7	B3/2500		
BM	(30°-60°)	3478.6	16.9	B3/5000		
BH	(60°-80°)	1772.4	8.6	B3/2500		G3/2500
BVH	(80°-90°)	128.2	0.6			G2/225
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°	76°	85°
0°	4161.4	4161.4	4161.4	4161.4	4161.4	4161.4	4161.4	4161.4	4161.4	4161.4	4161.4
2.5°	4287.6	4279.9	4249.3	4253.2	4253.2	4249.3	4203.4	4184.3	4184.3	4180.5	4138.4
5°	4440.6	4429.1	4394.7	4387.0	4371.7	4352.6	4279.9	4237.9	4218.7	4214.9	4157.5
7.5°	4620.3	4605.0	4563.0	4540.0	4501.8	4452.0	4360.2	4295.2	4249.3	4245.5	4165.2
10°	4800.1	4784.8	4735.1	4693.0	4639.5	4559.1	4440.6	4344.9	4272.3	4264.6	4169.0
12.5°	5014.3	4999.0	4937.8	4884.2	4803.9	4696.8	4540.0	4410.0	4310.5	4299.0	4180.5
15°	5239.9	5217.0	5155.8	5094.6	4995.2	4857.5	4670.1	4497.9	4371.7	4352.6	4214.9
17.5°	5427.4	5396.8	5347.0	5285.8	5174.9	5014.3	4800.1	4585.9	4429.1	4413.8	4249.3
20°	5588.0	5565.0	5511.5	5454.1	5335.6	5159.6	4922.5	4673.9	4482.6	4463.5	4276.1
22.5°	5741.0	5710.4	5679.8	5637.7	5507.7	5312.6	5064.0	4781.0	4551.5	4528.5	4310.5
25°	5916.9	5882.5	5871.0	5848.1	5695.1	5496.2	5236.1	4914.8	4647.1	4620.3	4371.7
27.5°	6134.9	6096.7	6073.7	6073.7	5890.2	5683.6	5419.7	5071.7	4758.0	4735.1	4448.2
30°	6364.4	6318.5	6284.1	6284.1	6077.6	5871.0	5599.5	5228.5	4884.2	4857.5	4547.7
32.5°	6567.1	6521.2	6483.0	6479.2	6265.0	6058.4	5786.9	5400.6	5037.2	5002.8	4670.1
35°	6724.0	6681.9	6647.5	6655.1	6452.4	6249.7	5997.2	5630.1	5228.5	5190.2	4830.7
37.5°	6819.6	6804.3	6785.2	6811.9	6624.5	6433.3	6215.3	5851.9	5446.5	5412.1	5029.6
40°	6869.3	6857.8	6934.3	6968.7	6769.9	6597.7	6433.3	6081.4	5683.6	5645.4	5259.1
42.5°	6942.0	7037.6	7068.2	7060.5	6876.9	6724.0	6632.2	6330.0	5962.8	5928.4	5534.5
45°	6681.9	6658.9	6827.2	6919.0	6884.6	6804.3	6819.6	6628.3	6287.9	6253.5	5851.9
47.5°	6333.8	6303.2	6398.9	6624.5	6758.4	6834.9	6987.9	6938.1	6662.8	6632.2	6222.9
50°	5599.5	5641.5	5997.2	6299.4	6563.3	6827.2	7129.4	7270.9	7075.8	7045.2	6620.7
52.5°	4784.8	4826.9	5197.9	5894.0	6326.2	6769.9	7232.7	7603.7	7523.3	7488.9	7045.2
55°	4192.0	4283.7	4704.5	5209.3	5989.6	6590.1	7293.8	7944.1	8005.3	7974.7	7508.0
57.5°	3602.9	3671.8	3989.2	4436.7	5530.6	6276.5	7290.0	8261.5	8510.1	8479.5	7978.5
60°	2910.7	2998.6	3251.1	3733.0	4918.7	5901.6	7182.9	8510.1	8995.9	8972.9	8433.6
62.5°	2436.4	2463.2	2642.9	3059.8	4130.8	5427.4	6942.0	8644.0	9435.7	9420.4	8842.9
65°	1962.1	1965.9	2130.4	2478.5	3369.6	4838.3	6532.7	8594.3	9768.5	9776.1	9137.4
67.5°	1514.6	1533.7	1682.9	1946.8	2677.3	4073.4	5947.5	8257.7	9772.3	9791.4	8969.1
70°	1048.0	1063.3	1288.9	1545.2	2069.2	3247.2	5155.8	7366.5	8969.1	8984.4	8039.7
72.5°	738.2	745.8	986.8	1235.4	1617.9	2447.9	3889.8	6092.9	7645.7	7657.2	6762.2
75°	550.8	558.4	696.1	937.1	1239.2	1694.4	2658.2	4666.2	6108.2	6108.2	5339.4
77.5°	390.1	394.0	451.3	646.4	826.2	1143.6	1598.8	3056.0	4482.6	4490.3	3889.8
80°	263.9	267.7	294.5	436.0	516.3	619.6	868.2	1602.6	2826.5	2838.0	2470.8
82.5°	137.7	145.3	164.5	221.8	260.1	344.2	447.5	814.7	1564.3	1594.9	1484.0
85°	53.5	53.5	61.2	72.7	95.6	133.9	206.5	309.8	707.6	730.5	654.0
87.5°	19.1	19.1	22.9	22.9	26.8	30.6	34.4	45.9	80.3	80.3	76.5
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°	4161.4	4161.4	4161.4	4161.4	4161.4	4161.4	4161.4	4161.4	4161.4	4161.4	4161.4
2.5°	4123.1	4123.1	4104.0	4111.6	4107.8	4100.2	4092.5	4104.0	4092.5	4065.7	4061.9
5°	4130.8	4123.1	4092.5	4088.7	4077.2	4061.9	4042.8	4050.4	4031.3	4008.4	4004.5
7.5°	4134.6	4119.3	4077.2	4061.9	4039.0	4008.4	3977.8	3977.8	3951.0	3928.0	3924.2
10°	4126.9	4107.8	4050.4	4019.8	3977.8	3931.9	3889.8	3878.3	3847.7	3821.0	3821.0
12.5°	4130.8	4104.0	4031.3	3981.6	3924.2	3866.8	3813.3	3798.0	3771.2	3744.5	3740.6
15°	4153.7	4115.5	4023.7	3958.6	3874.5	3809.5	3752.1	3740.6	3717.7	3698.6	3698.6
17.5°	4176.7	4126.9	4012.2	3920.4	3817.1	3744.5	3690.9	3690.9	3675.6	3664.1	3664.1
20°	4188.1	4130.8	3989.2	3866.8	3748.3	3671.8	3622.1	3629.7	3625.9	3622.1	3622.1
22.5°	4214.9	4138.4	3970.1	3817.1	3675.6	3595.3	3549.4	3560.9	3557.0	3557.0	3560.9
25°	4257.0	4157.5	3954.8	3771.2	3606.8	3518.8	3469.1	3476.7	3476.7	3476.7	3476.7
27.5°	4314.3	4195.8	3951.0	3729.2	3537.9	3438.5	3377.3	3377.3	3362.0	3365.8	3369.6
30°	4402.3	4268.5	3958.6	3690.9	3465.2	3339.0	3266.4	3254.9	3251.1	3258.7	3262.5
32.5°	4509.4	4367.9	4004.5	3664.1	3388.8	3228.1	3136.3	3132.5	3121.0	3121.0	3121.0
35°	4643.3	4463.5	4046.6	3660.3	3312.3	3109.5	3010.1	2998.6	2971.9	2960.4	2960.4
37.5°	4815.4	4612.7	4096.3	3633.5	3247.2	2994.8	2876.2	2838.0	2807.4	2803.6	2803.6
40°	5025.8	4781.0	4169.0	3602.9	3178.4	2876.2	2719.4	2654.4	2658.2	2673.5	2673.5
42.5°	5274.4	4987.5	4260.8	3587.6	3078.9	2753.8	2535.8	2459.3	2486.1	2501.4	2505.2
45°	5565.0	5232.3	4364.1	3568.5	2987.2	2616.1	2340.8	2245.1	2256.6	2260.4	2264.3
47.5°	5901.6	5503.9	4471.2	3553.2	2883.9	2444.0	2126.6	2000.4	1996.5	1973.6	1981.2
50°	6253.5	5790.7	4582.1	3526.4	2757.7	2241.3	1900.9	1751.7	1721.1	1686.7	1690.6
52.5°	6628.3	6085.2	4685.4	3484.4	2600.8	2034.8	1686.7	1526.1	1464.9	1426.6	1434.3
55°	7041.4	6387.4	4784.8	3419.3	2436.4	1828.2	1495.5	1331.0	1254.5	1223.9	1227.8
57.5°	7420.1	6678.1	4857.5	3339.0	2256.6	1640.8	1327.2	1166.6	1116.8	1113.0	1116.8
60°	7787.2	6922.8	4888.1	3228.1	2073.0	1468.7	1170.4	1048.0	1013.6	1032.7	1036.5
62.5°	8097.1	7079.7	4872.8	3078.9	1885.6	1304.2	1044.2	956.2	933.2	971.5	975.3
65°	8276.8	7129.4	4765.7	2864.8	1682.9	1143.6	925.6	830.0	818.5	841.5	852.9
67.5°	8039.7	6819.6	4475.0	2570.2	1457.2	994.4	810.9	734.4	715.2	734.4	734.4
70°	7125.6	5909.3	3786.5	2103.6	1208.6	849.1	703.8	650.2	634.9	650.2	646.4
72.5°	5936.1	4914.8	2983.3	1640.8	952.4	715.2	612.0	562.2	546.9	531.6	524.0
75°	4605.0	3733.0	2164.8	1204.8	719.1	573.7	512.5	466.6	428.4	443.7	436.0
77.5°	3373.5	2620.0	1533.7	833.8	516.3	443.7	401.6	367.2	340.4	371.0	367.2
80°	2172.5	1694.4	1025.0	558.4	355.7	309.8	294.5	275.4	302.2	394.0	401.6
82.5°	1327.2	1074.8	612.0	363.4	233.3	206.5	191.2	191.2	309.8	340.4	344.2
85°	592.8	569.9	332.8	187.4	130.0	118.6	107.1	137.7	126.2	91.8	95.6
87.5°	95.6	99.4	72.7	65.0	49.7	49.7	38.2	26.8	19.1	11.5	11.5
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)