

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: P841313

Luminaire Tested: **ARCH4-160-730-U-T4W-HSS**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P841313
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-27)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-160-730-U-T4W-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 1305mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE IV WIDE
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17984 lumens
Efficiency: N/A
Efficacy: 111.9 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

Input Watts (W): 160.7
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



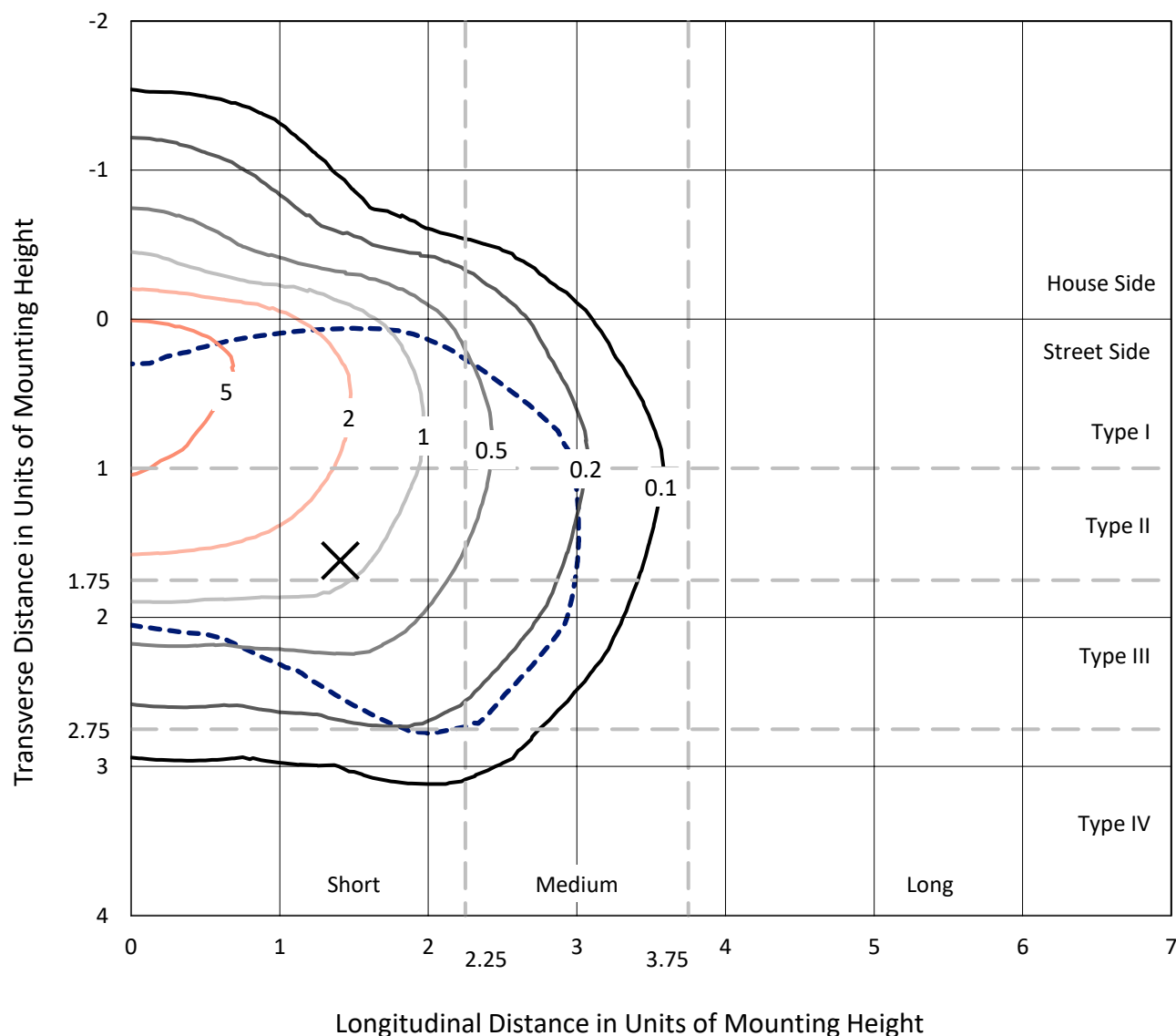
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

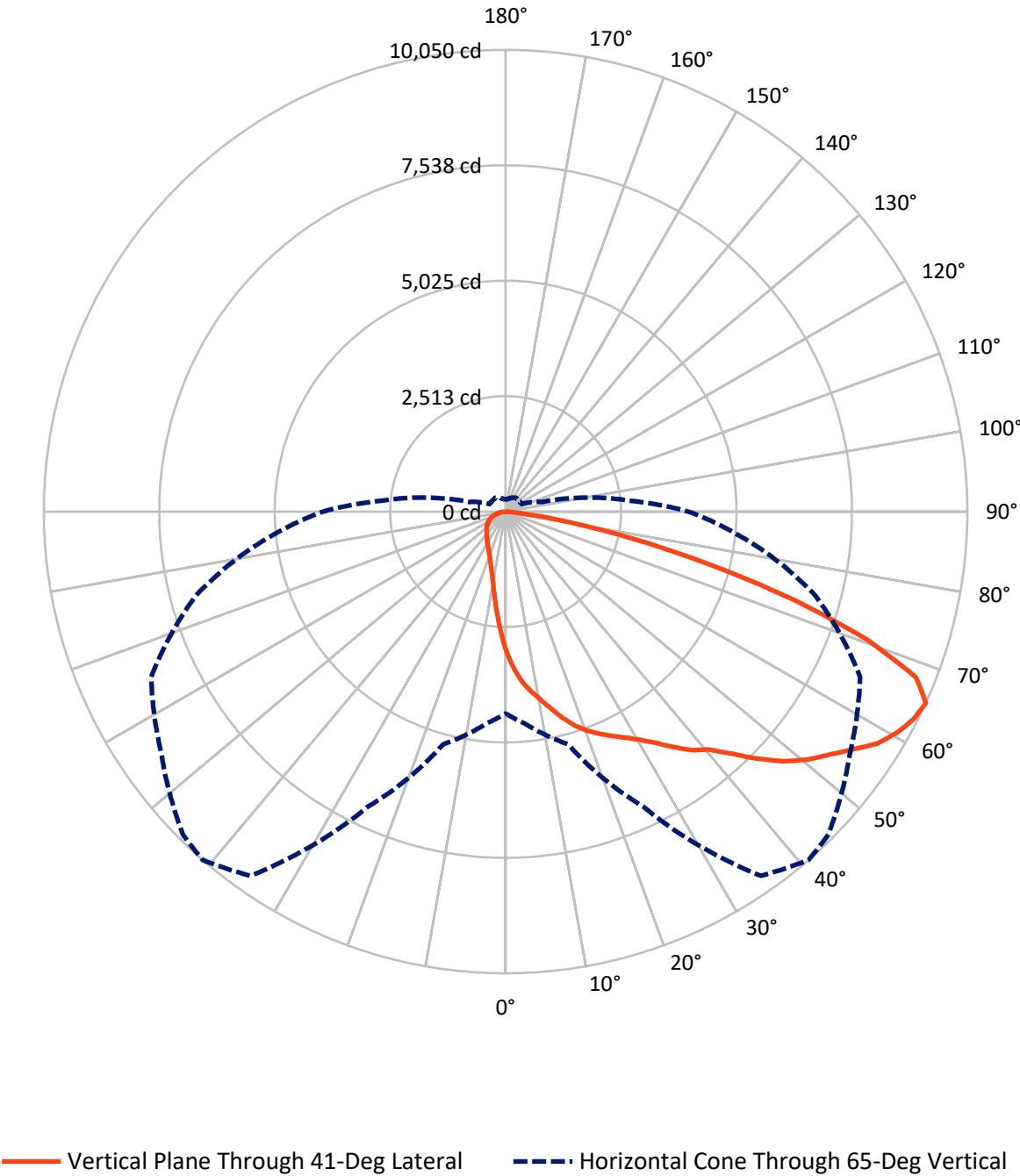


Based on 25 foot mounting height. Maximum calculated value = 7.1 fc

Type III - Short - N/A

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Luminous Intensity Polar Plot



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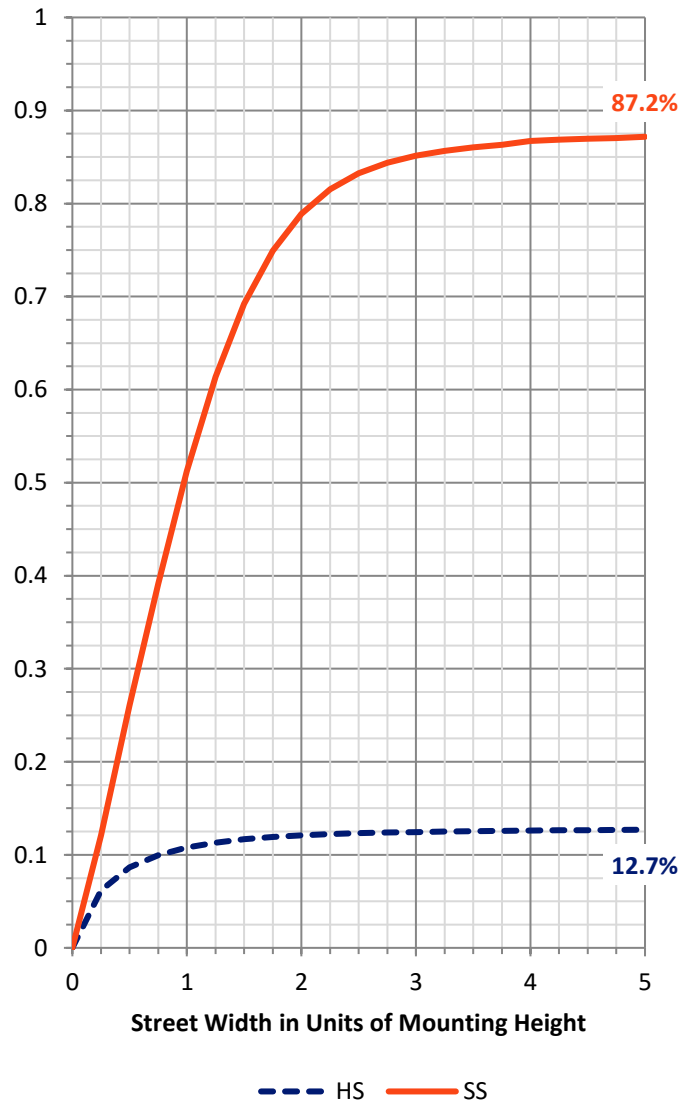
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2308.9	0.0	2308.9
	% Fixture	12.8	0.0	12.8
Street Side	Lumens	15675.1	0.0	15675.1
	% Fixture	87.2	0.0	87.2
Total	Lumens	17984.0	0.0	17984.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	285.5	1.6
10°-20°	856.2	4.8
20°-30°	1472.9	8.2
30°-40°	2233.9	12.4
40°-50°	3272.7	18.2
50°-60°	4132.7	23.0
60°-70°	3875.1	21.5
70°-80°	1727.1	9.6
80°-90°	127.9	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°	17984.0	100.0
0°-180°	17984.0	100.0

Coefficient of Utilization



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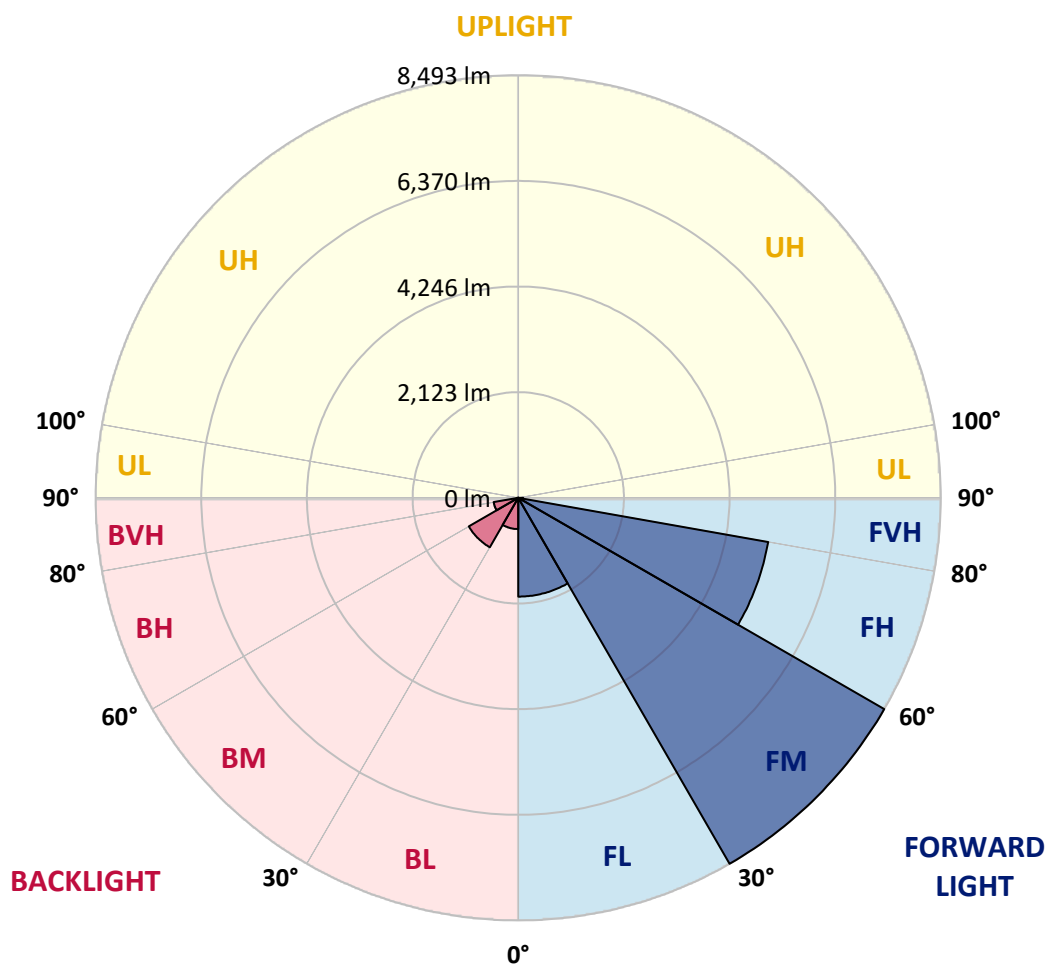
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1986.1	11.0			
FM	(30°-60°)	8492.7	47.2			
FH	(60°-80°)	5100.7	28.4			G3/7500
FVH	(80°-90°)	95.6	0.5			G1/100
BL	(0°-30°)	628.4	3.5	B2/1000		
BM	(30°-60°)	1146.5	6.4	B2/2500		
BH	(60°-80°)	501.6	2.8	B2/1000		G2/1000
BVH	(80°-90°)	32.4	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	41°	45°	55°	65°	75°	85°
0°	3064.4	3064.4	3064.4	3064.4	3064.4	3064.4	3064.4	3064.4	3064.4	3064.4	3064.4
2.5°	3534.7	3523.3	3515.7	3474.0	3474.0	3417.1	3420.9	3367.8	3303.3	3200.9	3090.9
5°	3868.4	3853.2	3834.3	3792.5	3777.4	3720.5	3712.9	3637.1	3527.1	3348.8	3151.6
7.5°	4160.4	4145.3	4118.7	4058.0	4016.3	3948.0	3929.1	3830.5	3709.1	3489.1	3212.3
10°	4425.9	4414.5	4380.4	4304.5	4247.7	4164.2	4130.1	3997.3	3845.6	3602.9	3261.6
12.5°	4695.2	4680.0	4634.5	4570.0	4501.8	4403.1	4361.4	4190.8	3997.3	3728.1	3333.7
15°	4945.5	4922.7	4888.6	4820.3	4759.6	4664.8	4619.3	4418.3	4183.2	3868.4	3428.5
17.5°	5108.6	5089.6	5059.3	5021.3	4972.0	4900.0	4854.5	4657.3	4369.0	4004.9	3527.1
20°	5207.2	5199.6	5188.2	5165.5	5142.7	5093.4	5059.3	4873.4	4570.0	4137.7	3621.9
22.5°	5283.0	5275.4	5271.6	5271.6	5275.4	5256.5	5233.7	5074.4	4763.4	4278.0	3709.1
25°	5400.6	5396.8	5389.2	5381.6	5408.2	5412.0	5404.4	5294.4	5006.2	4463.8	3819.1
27.5°	5563.7	5552.3	5537.1	5529.5	5556.1	5575.0	5590.2	5514.4	5264.1	4653.5	3944.3
30°	5814.0	5779.8	5741.9	5715.4	5734.3	5764.7	5798.8	5753.3	5529.5	4888.6	4073.2
32.5°	6109.8	6068.1	5980.8	5931.5	5980.8	6003.6	6030.2	6007.4	5806.4	5142.7	4202.1
35°	6470.1	6420.8	6329.8	6257.7	6344.9	6295.6	6284.3	6261.5	6068.1	5393.0	4346.3
37.5°	7069.3	6997.3	6853.1	6693.8	6693.8	6587.7	6545.9	6477.7	6303.2	5616.8	4486.6
40°	7763.3	7668.5	7482.7	7247.6	7031.4	6811.4	6784.9	6735.6	6580.1	5874.7	4645.9
42.5°	8525.7	8343.6	8085.7	7801.3	7452.4	7202.1	7141.4	7001.0	6849.3	6136.3	4805.2
45°	9371.4	8992.1	8616.7	8472.6	7896.1	7668.5	7554.8	7300.7	7130.0	6409.4	4972.0
47.5°	9507.9	9212.1	8961.8	8939.0	8309.5	8119.8	7990.9	7626.8	7433.4	6701.4	5146.5
50°	9432.1	9253.8	9280.4	9189.3	8612.9	8487.7	8389.1	7975.7	7733.0	6982.1	5305.8
52.5°	9113.5	9212.1	9363.8	9196.9	8901.1	8798.7	8749.4	8351.2	8013.7	7240.0	5449.9
55°	8734.2	8802.5	9128.7	9333.5	9234.9	9143.8	9098.3	8787.3	8290.5	7456.2	5582.6
57.5°	8180.5	8150.2	8510.5	9310.7	9583.8	9530.7	9481.4	9215.9	8548.4	7611.6	5666.1
60°	7350.0	7285.5	7740.6	8855.6	9697.5	9781.0	9758.2	9500.3	8745.6	7607.9	5631.9
62.5°	5912.6	6071.9	6701.4	8112.3	9746.9	9959.2	9917.5	9523.1	8810.1	7387.9	5415.8
65°	4395.6	4623.1	5241.3	7088.3	9678.6	10050.3	9936.5	9151.4	8510.5	6951.7	4941.7
67.5°	3166.8	3367.8	3819.1	5832.9	9022.5	9633.1	9500.3	8544.6	7820.2	6333.6	4285.6
70°	2165.5	2309.7	2616.9	4247.7	7702.7	8328.4	8245.0	7638.2	6731.8	5597.8	3481.6
72.5°	1528.4	1589.1	1786.3	2802.7	5851.9	6534.6	6436.0	6284.3	5408.2	4653.5	2707.9
75°	1145.3	1183.3	1289.5	1812.8	3948.0	4528.3	4437.3	4524.5	4039.1	3523.3	1972.1
77.5°	432.4	470.3	732.0	1156.7	2336.2	2779.9	2688.9	2742.0	2245.2	1778.7	982.3
80°	117.6	125.2	242.7	549.9	1061.9	1384.3	1259.1	1080.9	834.4	819.2	519.6
82.5°	49.3	56.9	110.0	295.8	379.3	379.3	318.6	394.4	318.6	383.0	250.3
85°	19.0	22.8	26.5	75.9	49.3	53.1	56.9	75.9	64.5	79.6	56.9
87.5°	0.0	0.0	0.0	3.8	3.8	7.6	3.8	7.6	11.4	11.4	11.4
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°	3064.4	3064.4	3064.4	3064.4	3064.4	3064.4	3064.4	3064.4	3064.4	3064.4	3064.4
2.5°	3045.4	3003.7	2943.0	2844.4	2742.0	2685.1	2613.1	2601.7	2525.8	2518.3	2487.9
5°	3064.4	2977.2	2821.7	2632.0	2446.2	2302.1	2195.9	2139.0	2029.0	2029.0	1998.7
7.5°	3079.5	2943.0	2692.7	2412.1	2158.0	1964.5	1820.4	1759.7	1661.1	1653.6	1630.8
10°	3083.3	2901.3	2552.4	2188.3	1877.3	1680.1	1539.8	1471.5	1384.3	1376.7	1361.5
12.5°	3113.7	2878.5	2427.2	1994.9	1676.3	1463.9	1327.4	1270.5	1202.2	1194.7	1179.5
15°	3163.0	2878.5	2321.0	1831.8	1498.1	1300.8	1183.3	1130.2	1080.9	1073.3	1065.7
17.5°	3212.3	2871.0	2214.8	1680.1	1350.1	1171.9	1069.5	1027.8	989.9	986.1	978.5
20°	3257.8	2867.2	2108.7	1551.2	1236.4	1065.7	986.1	948.1	917.8	917.8	914.0
22.5°	3303.3	2859.6	2006.3	1429.8	1137.8	986.1	917.8	876.1	853.3	853.3	849.5
25°	3371.6	2859.6	1911.4	1327.4	1058.1	925.4	857.1	826.8	807.8	804.0	804.0
27.5°	3451.2	2882.3	1828.0	1236.4	989.9	864.7	811.6	781.3	758.5	750.9	754.7
30°	3538.4	2901.3	1752.2	1156.7	925.4	819.2	762.3	732.0	709.2	701.6	705.4
32.5°	3625.7	2924.1	1683.9	1084.7	860.9	777.5	720.6	686.5	663.7	659.9	659.9
35°	3720.5	2946.8	1615.6	1024.0	807.8	735.8	682.7	644.7	629.6	622.0	625.8
37.5°	3815.3	2984.7	1551.2	967.1	769.9	697.8	648.5	610.6	599.2	595.4	595.4
40°	3929.1	3041.6	1524.6	929.2	735.8	663.7	622.0	584.1	572.7	572.7	572.7
42.5°	4023.9	3087.1	1501.8	887.5	709.2	633.4	595.4	565.1	557.5	553.7	557.5
45°	4118.7	3128.9	1471.5	849.5	675.1	603.0	572.7	542.3	534.7	534.7	534.7
47.5°	4213.5	3151.6	1429.8	811.6	644.7	576.5	549.9	523.4	515.8	515.8	515.8
50°	4289.4	3170.6	1369.1	769.9	610.6	553.7	527.2	500.6	493.0	493.0	493.0
52.5°	4365.2	3174.4	1304.6	720.6	576.5	527.2	504.4	477.9	470.3	466.5	466.5
55°	4433.5	3170.6	1228.8	663.7	538.5	496.8	477.9	455.1	439.9	424.8	432.4
57.5°	4482.8	3166.8	1141.6	606.8	500.6	466.5	458.9	428.6	398.2	360.3	367.9
60°	4463.8	3125.1	1046.7	534.7	458.9	436.1	436.1	394.4	341.3	322.4	326.2
62.5°	4342.5	3007.5	948.1	458.9	417.2	405.8	402.0	356.5	314.8	295.8	299.6
65°	3978.4	2711.7	804.0	390.6	375.5	371.7	371.7	330.0	292.0	269.3	273.1
67.5°	3424.7	2275.5	656.1	330.0	333.7	341.3	341.3	303.4	265.5	242.7	246.5
70°	2745.8	1778.7	523.4	284.4	288.2	299.6	307.2	273.1	238.9	216.2	216.2
72.5°	2066.9	1350.1	421.0	238.9	257.9	257.9	269.3	242.7	208.6	185.8	189.6
75°	1498.1	967.1	333.7	201.0	223.8	220.0	220.0	204.8	178.2	163.1	163.1
77.5°	709.2	508.2	265.5	144.1	174.5	170.7	174.5	163.1	151.7	136.5	140.3
80°	348.9	250.3	170.7	102.4	121.4	125.2	136.5	128.9	125.2	113.8	113.8
82.5°	166.9	98.6	79.6	72.1	83.4	87.2	94.8	94.8	98.6	91.0	91.0
85°	45.5	26.5	34.1	45.5	53.1	56.9	64.5	68.3	68.3	64.5	68.3
87.5°	11.4	11.4	15.2	22.8	26.5	30.3	34.1	34.1	15.2	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)