

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: P841328

Luminaire Tested: **ARCH4-160-740-U-T2U**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P841328
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-18)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-160-740-U-T2U
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 4000K, 1305mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27414 lumens
Efficiency: N/A
Efficacy: 170.6 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): 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

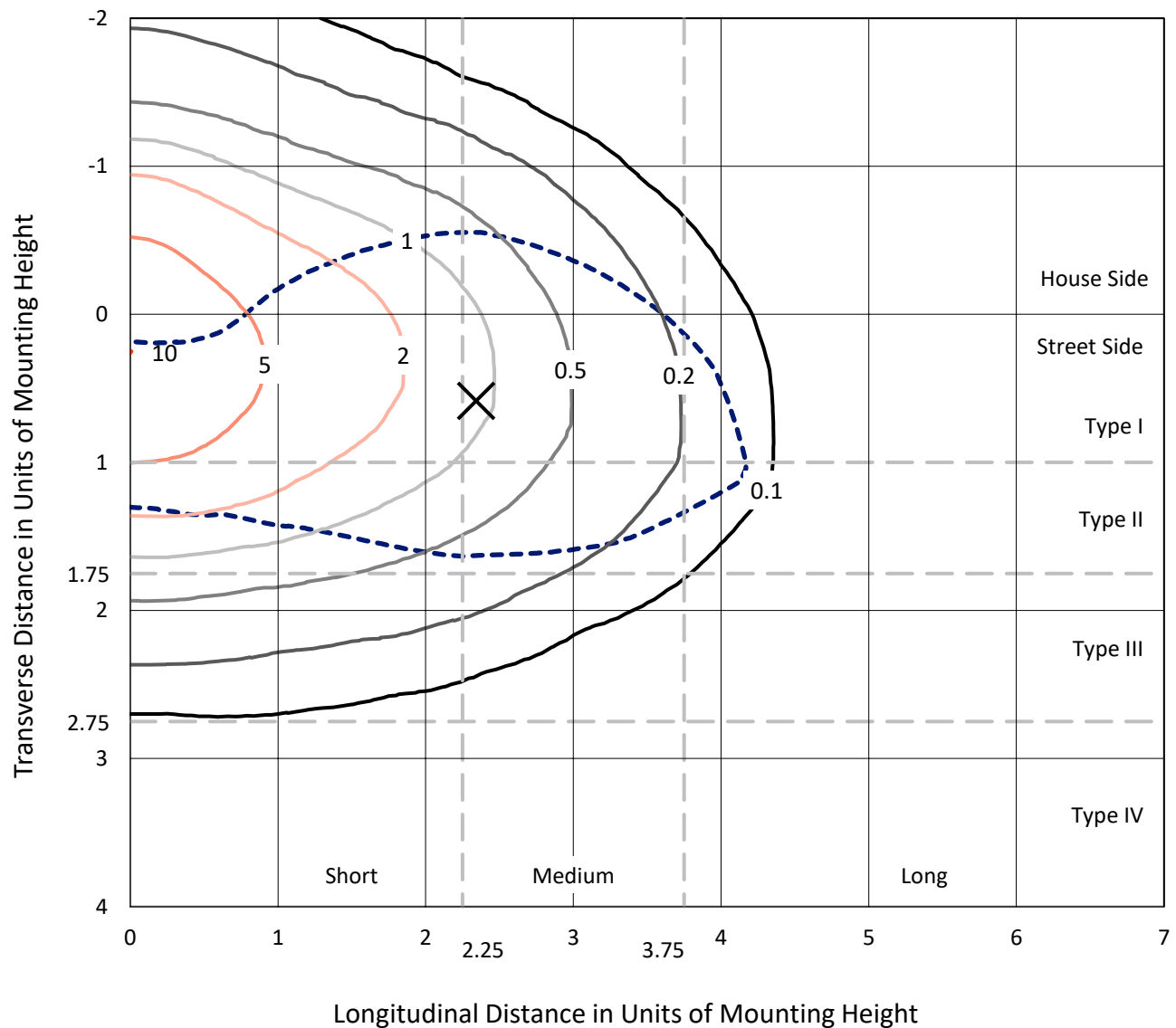


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Iso-Footcandle Lines of Horizontal Illumination

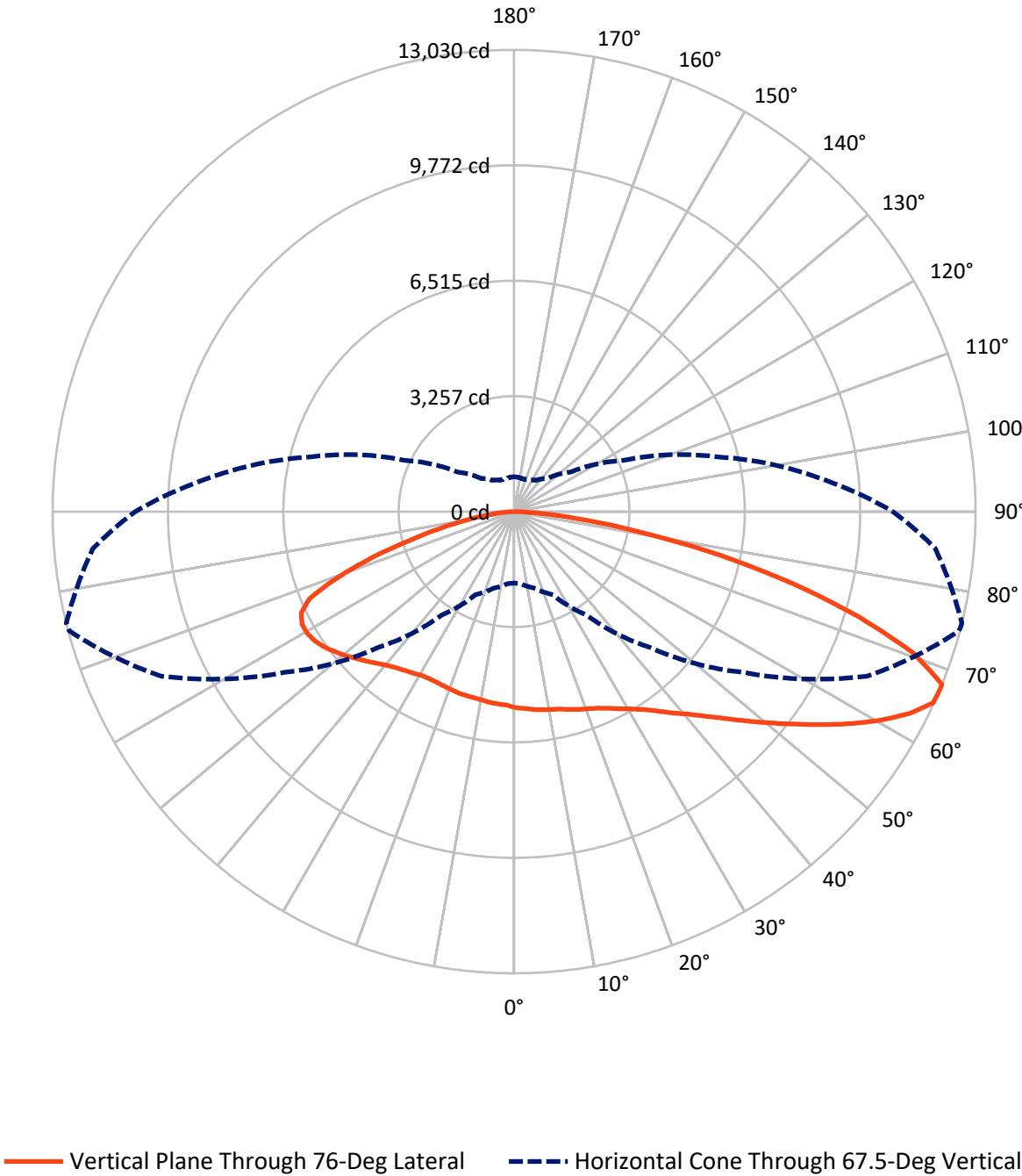
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10 fc
Type II - Medium - N/A

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Luminous Intensity Polar Plot



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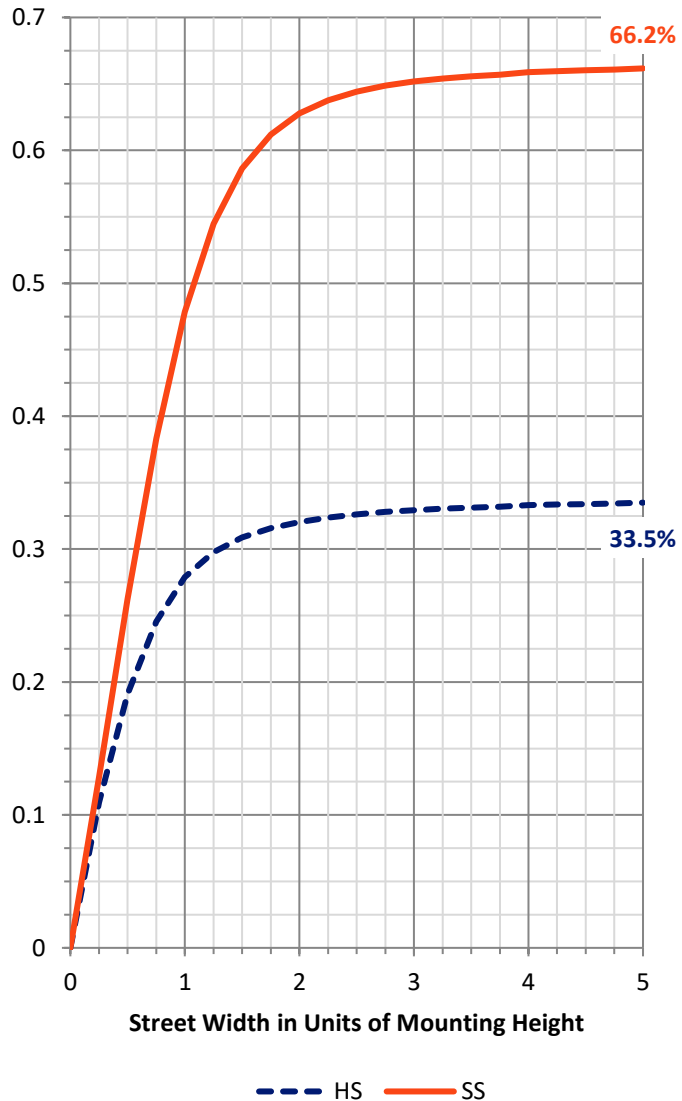
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9263.3	0.0	9263.3
	% Fixture	33.8	0.0	33.8
Street Side	Lumens	18150.7	0.0	18150.7
	% Fixture	66.2	0.0	66.2
Total	Lumens	27414.0	0.0	27414.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	534.0	1.9
10°-20°	1632.5	6.0
20°-30°	2773.6	10.1
30°-40°	3946.5	14.4
40°-50°	4984.2	18.2
50°-60°	5396.4	19.7
60°-70°	5019.2	18.3
70°-80°	2695.8	9.8
80°-90°	432.0	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°	27414.0	100.0
0°-180°	27414.0	100.0

Coefficient of Utilization



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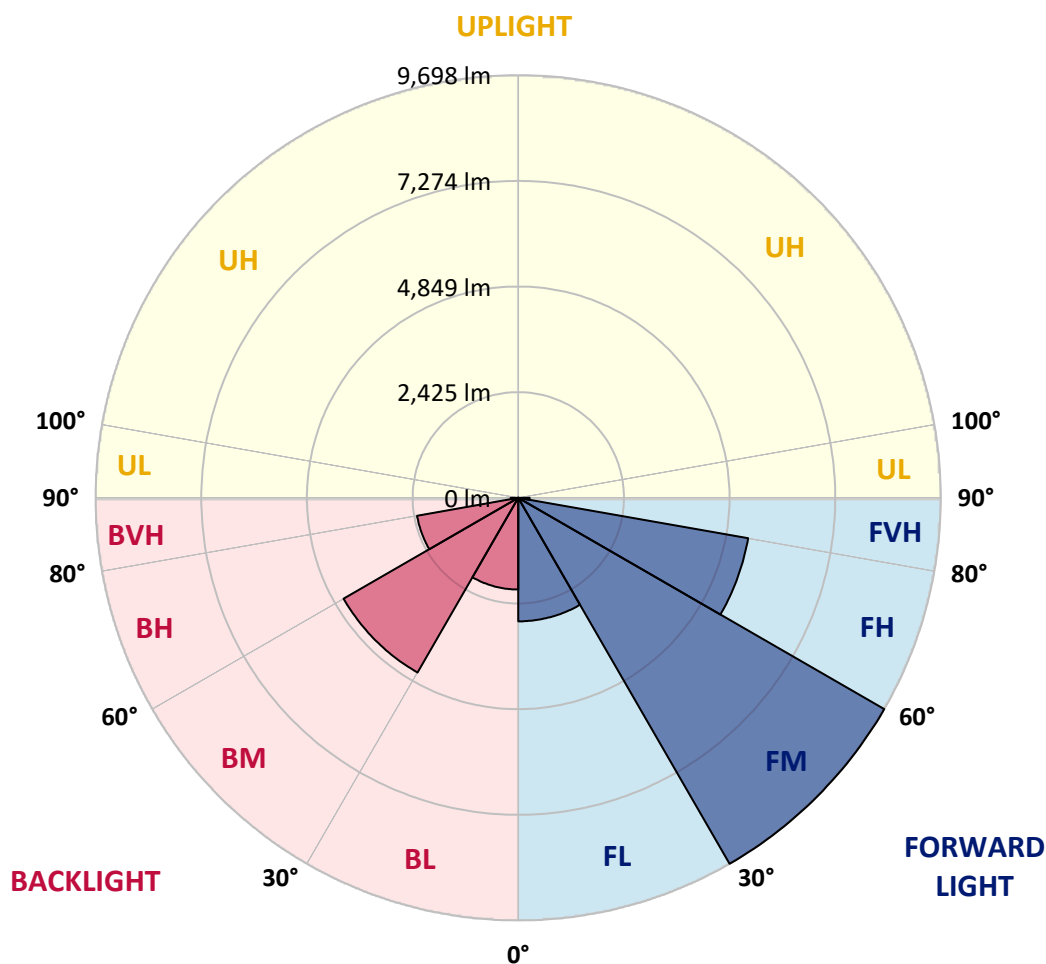
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2834.9	10.3			
FM	(30°-60°)	9698.0	35.4			
FH	(60°-80°)	5356.4	19.5			G3/7500
FVH	(80°-90°)	261.3	1.0			G3/500
BL	(0°-30°)	2105.1	7.7	B3/2500		
BM	(30°-60°)	4629.0	16.9	B3/5000		
BH	(60°-80°)	2358.5	8.6	B3/2500		G3/2500
BVH	(80°-90°)	170.7	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°	5537.6	5537.6	5537.6	5537.6	5537.6	5537.6	5537.6	5537.6	5537.6	5537.6	5537.6
2.5°	5705.5	5695.3	5654.6	5659.7	5659.7	5654.6	5593.6	5568.1	5568.1	5563.0	5507.0
5°	5909.1	5893.8	5848.0	5837.9	5817.5	5792.1	5695.3	5639.4	5613.9	5608.8	5532.5
7.5°	6148.3	6128.0	6072.0	6041.4	5990.5	5924.4	5802.2	5715.7	5654.6	5649.5	5542.7
10°	6387.5	6367.2	6301.0	6245.0	6173.8	6066.9	5909.1	5781.9	5685.2	5675.0	5547.7
12.5°	6672.6	6652.2	6570.8	6499.5	6392.6	6250.1	6041.4	5868.4	5736.1	5720.8	5563.0
15°	6972.9	6942.3	6860.9	6779.4	6647.1	6463.9	6214.5	5985.5	5817.5	5792.1	5608.8
17.5°	7222.3	7181.5	7115.4	7033.9	6886.3	6672.6	6387.5	6102.5	5893.8	5873.5	5654.6
20°	7436.0	7405.5	7334.2	7257.9	7100.1	6866.0	6550.4	6219.6	5965.1	5939.7	5690.3
22.5°	7639.6	7598.9	7558.2	7502.2	7329.1	7069.6	6738.7	6362.1	6056.7	6026.2	5736.1
25°	7873.7	7827.9	7812.7	7782.1	7578.5	7313.9	6967.8	6540.2	6184.0	6148.3	5817.5
27.5°	8163.8	8112.9	8082.4	8082.4	7838.1	7563.3	7212.1	6748.9	6331.6	6301.0	5919.3
30°	8469.2	8408.1	8362.3	8362.3	8087.5	7812.7	7451.3	6957.6	6499.5	6463.9	6051.6
32.5°	8739.0	8677.9	8627.0	8621.9	8336.9	8062.0	7700.7	7186.6	6703.1	6657.3	6214.5
35°	8947.7	8891.7	8845.9	8856.0	8586.3	8316.5	7980.6	7492.0	6957.6	6906.7	6428.3
37.5°	9074.9	9054.5	9029.1	9064.7	8815.3	8560.8	8270.7	7787.2	7247.7	7201.9	6692.9
40°	9141.1	9125.8	9227.6	9273.4	9008.7	8779.7	8560.8	8092.6	7563.3	7512.4	6998.3
42.5°	9237.8	9365.0	9405.7	9395.5	9151.2	8947.7	8825.5	8423.4	7934.8	7889.0	7364.8
45°	8891.7	8861.1	9085.1	9207.2	9161.4	9054.5	9074.9	8820.4	8367.4	8321.6	7787.2
47.5°	8428.5	8387.8	8515.0	8815.3	8993.5	9095.3	9298.8	9232.7	8866.2	8825.5	8280.9
50°	7451.3	7507.3	7980.6	8382.7	8733.9	9085.1	9487.2	9675.5	9415.9	9375.2	8810.2
52.5°	6367.2	6423.2	6916.9	7843.2	8418.3	9008.7	9624.6	10118.3	10011.4	9965.6	9375.2
55°	5578.3	5700.4	6260.3	6932.1	7970.4	8769.5	9706.0	10571.3	10652.7	10612.0	9991.0
57.5°	4794.5	4886.1	5308.5	5904.0	7359.7	8352.2	9700.9	10993.7	11324.5	11283.8	10617.1
60°	3873.2	3990.3	4326.2	4967.5	6545.3	7853.4	9558.4	11324.5	11970.9	11940.4	11222.7
62.5°	3242.1	3277.8	3517.0	4071.7	5496.9	7222.3	9237.8	11502.7	12556.2	12535.9	11767.3
65°	2611.0	2616.1	2834.9	3298.1	4484.0	6438.4	8693.2	11436.5	12999.0	13009.2	12159.2
67.5°	2015.5	2041.0	2239.5	2590.6	3562.8	5420.5	7914.4	10988.6	13004.1	13029.6	11935.3
70°	1394.6	1414.9	1715.2	2056.2	2753.5	4321.1	6860.9	9802.7	11935.3	11955.6	10698.5
72.5°	982.3	992.5	1313.1	1644.0	2152.9	3257.4	5176.2	8107.9	10174.3	10189.5	8998.5
75°	732.9	743.1	926.3	1247.0	1649.1	2254.7	3537.3	6209.4	8128.2	8128.2	7105.2
77.5°	519.1	524.2	600.6	860.2	1099.4	1521.8	2127.5	4066.7	5965.1	5975.3	5176.2
80°	351.2	356.3	391.9	580.2	687.1	824.5	1155.4	2132.6	3761.3	3776.5	3287.9
82.5°	183.2	193.4	218.9	295.2	346.1	458.1	595.5	1084.1	2081.7	2122.4	1974.8
85°	71.3	71.3	81.4	96.7	127.2	178.1	274.8	412.3	941.6	972.1	870.3
87.5°	25.4	25.4	30.5	30.5	35.6	40.7	45.8	61.1	106.9	106.9	101.8
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°	5537.6	5537.6	5537.6	5537.6	5537.6	5537.6	5537.6	5537.6	5537.6	5537.6	5537.6
2.5°	5486.7	5486.7	5461.2	5471.4	5466.3	5456.1	5446.0	5461.2	5446.0	5410.3	5405.2
5°	5496.9	5486.7	5446.0	5440.9	5425.6	5405.2	5379.8	5390.0	5364.5	5334.0	5328.9
7.5°	5501.9	5481.6	5425.6	5405.2	5374.7	5334.0	5293.3	5293.3	5257.6	5227.1	5222.0
10°	5491.8	5466.3	5390.0	5349.2	5293.3	5232.2	5176.2	5160.9	5120.2	5084.6	5084.6
12.5°	5496.9	5461.2	5364.5	5298.4	5222.0	5145.7	5074.4	5054.0	5018.4	4982.8	4977.7
15°	5527.4	5476.5	5354.3	5267.8	5155.8	5069.3	4993.0	4977.7	4947.2	4921.7	4921.7
17.5°	5557.9	5491.8	5339.1	5216.9	5079.5	4982.8	4911.5	4911.5	4891.2	4875.9	4875.9
20°	5573.2	5496.9	5308.5	5145.7	4987.9	4886.1	4819.9	4830.1	4825.0	4819.9	4819.9
22.5°	5608.8	5507.0	5283.1	5079.5	4891.2	4784.3	4723.2	4738.5	4733.4	4733.4	4738.5
25°	5664.8	5532.5	5262.7	5018.4	4799.6	4682.5	4616.3	4626.5	4626.5	4626.5	4626.5
27.5°	5741.2	5583.4	5257.6	4962.4	4708.0	4575.6	4494.2	4494.2	4473.8	4478.9	4484.0
30°	5858.2	5680.1	5267.8	4911.5	4611.2	4443.3	4346.6	4331.3	4326.2	4336.4	4341.5
32.5°	6000.7	5812.4	5328.9	4875.9	4509.5	4295.7	4173.5	4168.4	4153.2	4153.2	4153.2
35°	6178.9	5939.7	5384.9	4870.8	4407.7	4137.9	4005.6	3990.3	3954.7	3939.4	3939.4
37.5°	6407.9	6138.1	5451.0	4835.2	4321.1	3985.2	3827.4	3776.5	3735.8	3730.7	3730.7
40°	6687.8	6362.1	5547.7	4794.5	4229.5	3827.4	3618.8	3532.2	3537.3	3557.7	3557.7
42.5°	7018.7	6636.9	5669.9	4774.1	4097.2	3664.6	3374.5	3272.7	3308.3	3328.6	3333.7
45°	7405.5	6962.7	5807.3	4748.7	3975.0	3481.3	3114.9	2987.6	3002.9	3008.0	3013.1
47.5°	7853.4	7324.0	5949.8	4728.3	3837.6	3252.3	2829.9	2661.9	2656.8	2626.3	2636.5
50°	8321.6	7705.8	6097.4	4692.7	3669.7	2982.6	2529.6	2331.1	2290.4	2244.5	2249.6
52.5°	8820.4	8097.7	6234.9	4636.7	3461.0	2707.7	2244.5	2030.8	1949.3	1898.4	1908.6
55°	9370.1	8499.8	6367.2	4550.2	3242.1	2432.9	1990.1	1771.2	1669.4	1628.7	1633.8
57.5°	9874.0	8886.6	6463.9	4443.3	3002.9	2183.5	1766.1	1552.4	1486.2	1481.1	1486.2
60°	10362.6	9212.3	6504.6	4295.7	2758.6	1954.4	1557.4	1394.6	1348.8	1374.2	1379.3
62.5°	10774.8	9421.0	6484.2	4097.2	2509.2	1735.6	1389.5	1272.4	1241.9	1292.8	1297.9
65°	11014.1	9487.2	6341.7	3812.2	2239.5	1521.8	1231.7	1104.5	1089.2	1119.7	1135.0
67.5°	10698.5	9074.9	5954.9	3420.3	1939.2	1323.3	1079.0	977.2	951.8	977.2	977.2
70°	9482.1	7863.5	5038.8	2799.3	1608.3	1129.9	936.5	865.2	844.9	865.2	860.2
72.5°	7899.2	6540.2	3969.9	2183.5	1267.3	951.8	814.3	748.2	727.8	707.5	697.3
75°	6128.0	4967.5	2880.8	1603.2	956.9	763.5	682.0	620.9	570.0	590.4	580.2
77.5°	4489.1	3486.4	2041.0	1109.5	687.1	590.4	534.4	488.6	453.0	493.7	488.6
80°	2890.9	2254.7	1364.0	743.1	473.3	412.3	391.9	366.5	402.1	524.2	534.4
82.5°	1766.1	1430.2	814.3	483.5	310.5	274.8	254.5	254.5	412.3	453.0	458.1
85°	788.9	758.4	442.8	249.4	173.0	157.8	142.5	183.2	168.0	122.2	127.2
87.5°	127.2	132.3	96.7	86.5	66.2	66.2	50.9	35.6	25.4	15.3	15.3
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)