

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: P841866

Luminaire Tested: **ARCH4-240-722-U-T2R**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P841866
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: ARCH4-240-722-U-T2R
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2200K, 940mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31364 lumens
Efficiency: N/A
Efficacy: 130.6 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): 240.2
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

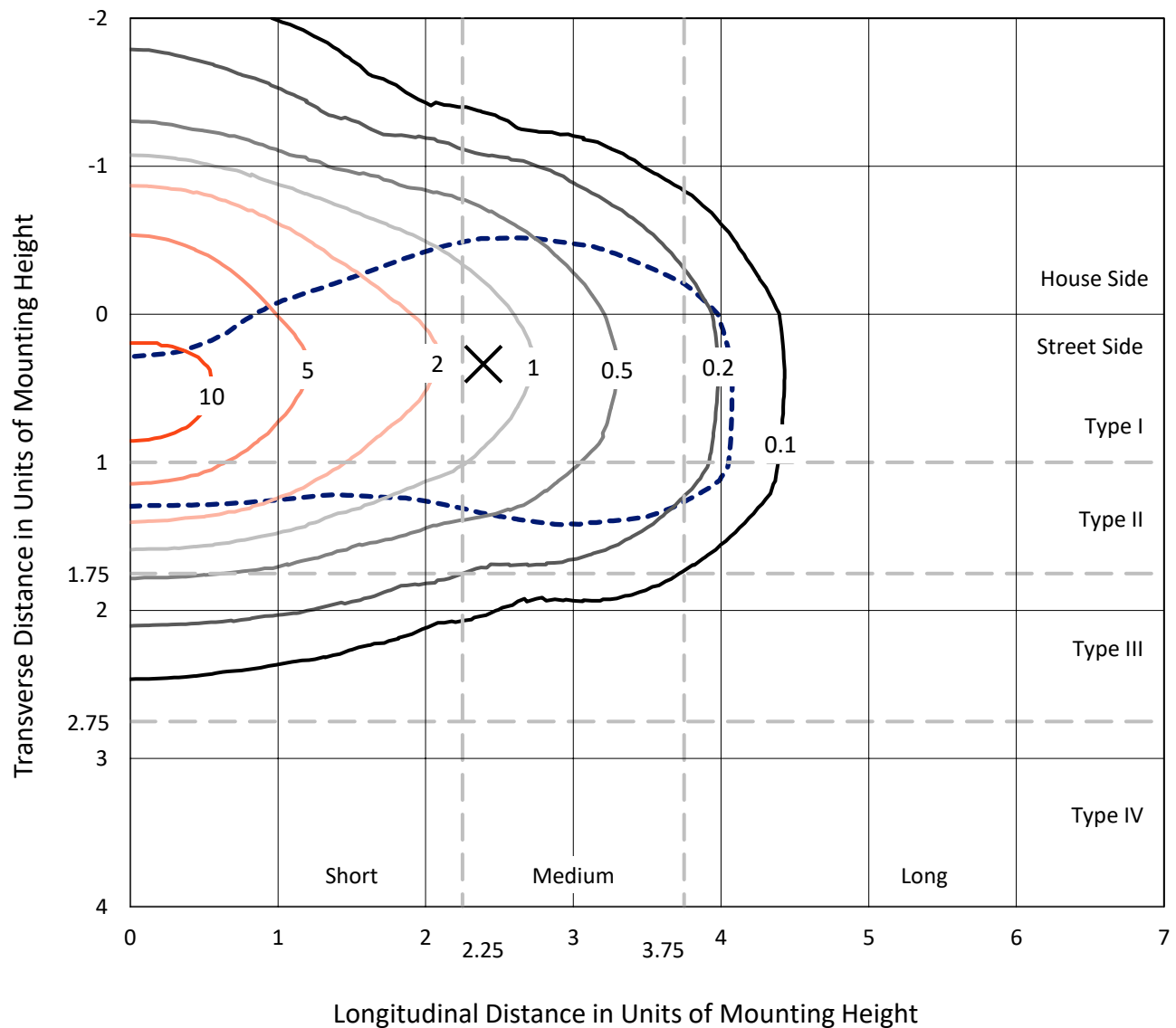


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Iso-Footcandle Lines of Horizontal Illumination

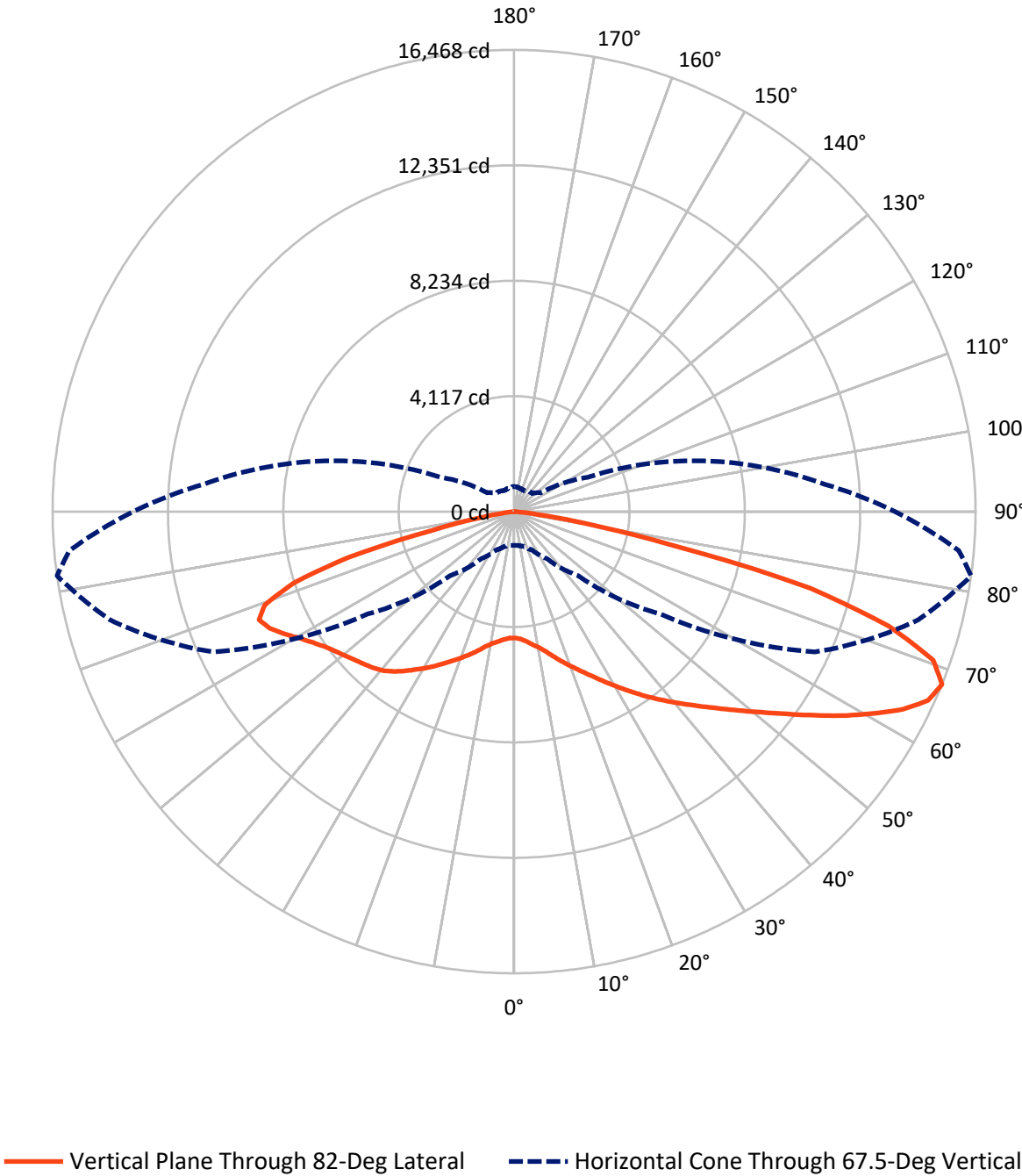
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.8 fc
Type II - Medium - N/A

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Luminous Intensity Polar Plot



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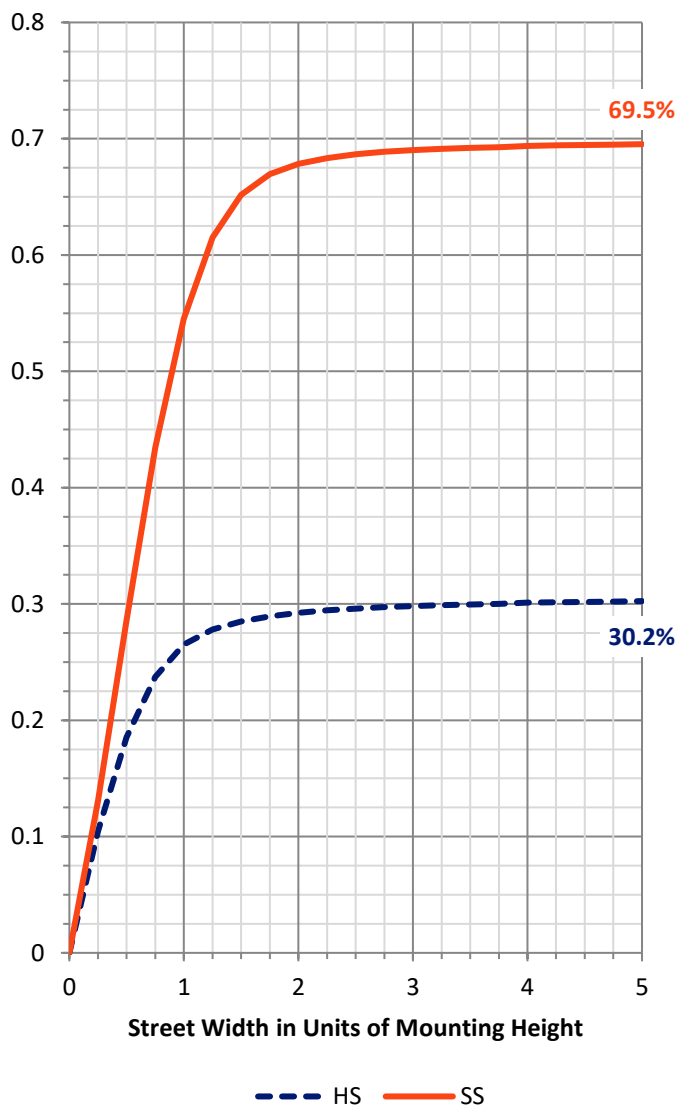
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9551.6	0.0	9551.6
	% Fixture	30.5	0.0	30.5
Street Side	Lumens	21812.4	0.0	21812.4
	% Fixture	69.5	0.0	69.5
Total	Lumens	31364.0	0.0	31364.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	466.0	1.5
10°-20°	1678.3	5.4
20°-30°	3373.1	10.8
30°-40°	5298.6	16.9
40°-50°	6454.7	20.6
50°-60°	6098.9	19.4
60°-70°	5036.3	16.1
70°-80°	2742.5	8.7
80°-90°	215.6	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°	31364.0	100.0
0°-180°	31364.0	100.0

Coefficient of Utilization



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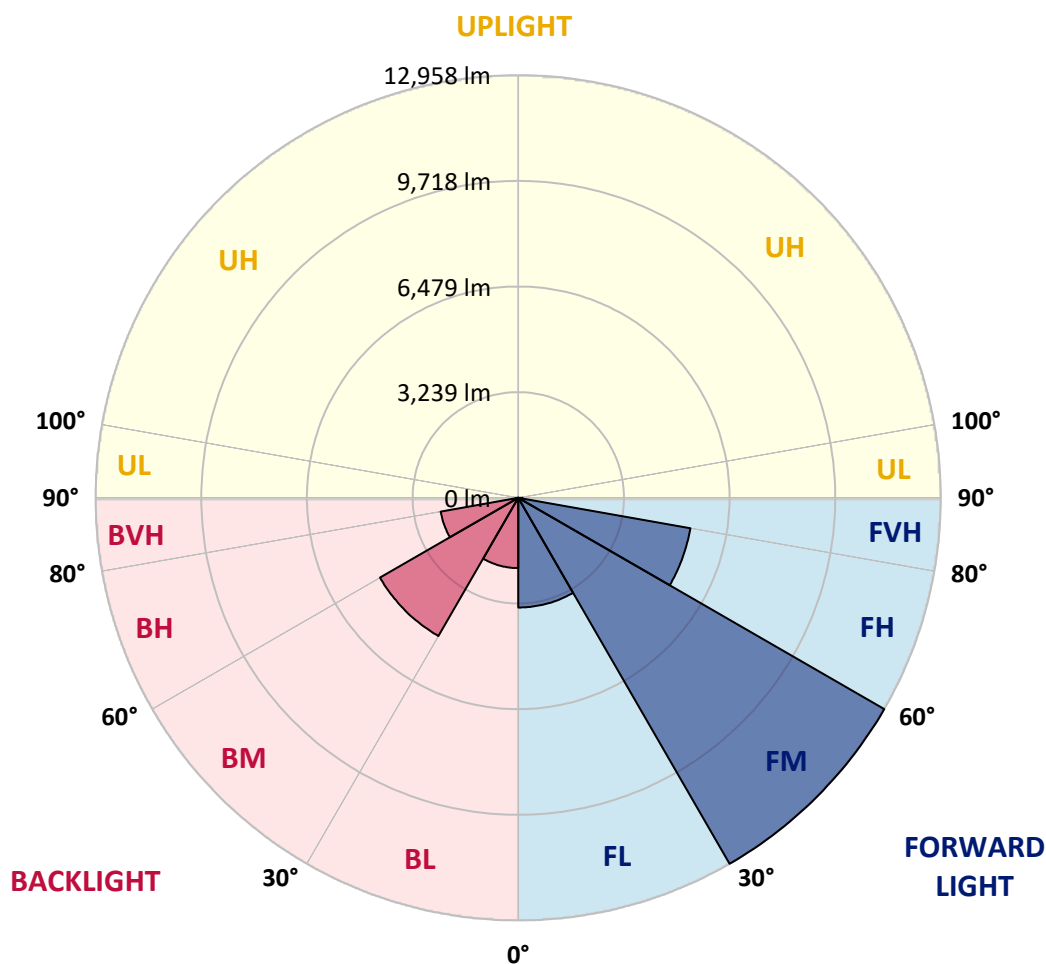
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3363.4	10.7			
FM	(30°-60°)	12957.8	41.3			
FH	(60°-80°)	5361.2	17.1			G3/7500
FVH	(80°-90°)	130.0	0.4			G2/225
BL	(0°-30°)	2154.0	6.9	B3/2500		
BM	(30°-60°)	4894.4	15.6	B3/5000		
BH	(60°-80°)	2417.6	7.7	B3/2500		G3/2500
BVH	(80°-90°)	85.7	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°	4508.6	4508.6	4508.6	4508.6	4508.6	4508.6	4508.6	4508.6	4508.6	4508.6	4508.6
2.5°	4713.5	4713.5	4749.9	4749.9	4718.0	4668.0	4654.3	4599.6	4549.5	4549.5	4554.1
5°	5164.3	5159.8	5187.1	5150.7	5073.3	4973.1	4904.8	4786.4	4686.2	4654.3	4649.7
7.5°	5715.4	5710.8	5724.5	5665.3	5519.6	5355.6	5219.0	5027.7	4863.8	4795.5	4777.3
10°	6330.2	6325.6	6312.0	6211.8	6016.0	5760.9	5556.0	5291.9	5045.9	4936.6	4913.9
12.5°	7036.1	7027.0	6995.1	6849.4	6580.7	6252.8	5956.8	5615.2	5287.3	5137.0	5086.9
15°	7823.9	7810.3	7751.1	7573.5	7213.7	6799.3	6416.7	5979.5	5578.8	5382.9	5314.6
17.5°	8652.8	8652.8	8561.7	8297.6	7896.8	7382.2	6908.6	6353.0	5883.9	5642.5	5560.6
20°	9495.3	9490.7	9376.9	9058.1	8584.5	7992.4	7391.3	6781.1	6198.1	5906.7	5806.5
22.5°	10383.3	10374.2	10233.1	9868.7	9304.0	8634.6	7933.2	7204.6	6544.2	6193.6	6066.1
25°	11403.5	11389.8	11216.7	10770.4	10101.0	9345.0	8543.5	7701.0	6940.4	6512.4	6362.1
27.5°	12487.3	12469.1	12264.2	11745.0	11011.8	10101.0	9217.5	8274.8	7377.6	6867.6	6699.1
30°	13452.8	13439.1	13216.0	12683.2	11840.7	10852.4	9859.6	8848.6	7837.6	7245.6	7036.1
32.5°	14181.5	14181.5	13981.1	13457.4	12583.0	11572.0	10506.3	9390.6	8315.8	7650.9	7405.0
35°	14623.2	14636.9	14463.8	14044.8	13220.6	12250.5	11175.8	10028.1	8825.8	8083.5	7819.4
37.5°	14687.0	14732.5	14632.3	14350.0	13662.3	12815.2	11831.6	10642.9	9354.1	8520.7	8224.7
40°	14391.0	14422.8	14427.4	14318.1	13844.5	13220.6	12409.9	11294.2	9914.3	8980.7	8639.1
42.5°	13798.9	13821.7	13862.7	13894.6	13712.4	13398.2	12851.7	11899.9	10510.9	9449.8	9049.0
45°	13033.8	13029.3	13097.6	13234.2	13225.1	13298.0	13097.6	12450.9	11130.2	9982.6	9504.4
47.5°	11890.8	11868.0	12109.4	12419.0	12573.9	12915.4	13102.1	12883.5	11804.2	10570.1	10023.6
50°	10101.0	10078.2	10606.5	11335.2	11790.6	12309.7	12851.7	13143.1	12510.1	11230.4	10588.3
52.5°	7924.1	7901.4	8570.8	9846.0	10838.8	11594.7	12346.2	13202.3	13179.6	11968.2	11225.9
55°	5893.0	5874.8	6526.0	7905.9	9513.5	10765.9	11726.8	13047.5	13808.0	12815.2	12000.1
57.5°	4153.3	4144.2	4708.9	5852.0	7810.3	9754.9	11130.2	12746.9	14386.4	13735.2	12874.4
60°	2914.6	2901.0	3310.8	4194.3	5906.7	8229.3	10538.2	12346.2	14819.0	14641.4	13803.5
62.5°	1962.8	1953.7	2245.2	2982.9	4194.3	6334.8	9641.0	12077.5	15065.0	15552.3	14741.6
65°	1489.2	1484.6	1616.7	2022.0	2969.3	4549.5	8215.6	12045.6	15096.8	16235.4	15538.6
67.5°	1202.3	1206.8	1279.7	1512.0	2053.9	3233.4	6371.2	11845.2	14928.3	16467.6	15925.7
70°	983.7	983.7	1015.6	1170.4	1516.5	2181.4	4449.4	10934.4	14459.3	15861.9	15465.7
72.5°	751.4	756.0	856.2	947.3	1143.1	1530.2	2850.9	9049.0	13352.6	13985.6	13685.1
75°	596.6	592.0	651.2	778.8	888.0	1093.0	1748.8	6489.6	11362.5	10929.8	10738.6
77.5°	428.1	423.5	469.1	578.4	674.0	774.2	1042.9	3274.4	6179.9	5679.0	5537.8
80°	291.5	282.4	323.3	400.8	446.3	455.4	510.1	1256.9	2696.0	2541.2	2509.3
82.5°	150.3	150.3	173.1	227.7	232.3	236.8	227.7	405.3	892.6	833.4	797.0
85°	59.2	59.2	63.8	77.4	77.4	82.0	82.0	104.7	95.6	91.1	86.5
87.5°	4.6	4.6	9.1	9.1	13.7	13.7	13.7	18.2	22.8	22.8	22.8
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°	4508.6	4508.6	4508.6	4508.6	4508.6	4508.6	4508.6	4508.6	4508.6	4508.6	4508.6
2.5°	4545.0	4526.8	4467.6	4453.9	4444.8	4431.1	4435.7	4403.8	4390.2	4394.7	4376.5
5°	4627.0	4595.1	4522.2	4490.3	4481.2	4467.6	4481.2	4458.5	4435.7	4444.8	4435.7
7.5°	4740.8	4695.3	4604.2	4572.3	4567.8	4554.1	4572.3	4554.1	4535.9	4545.0	4526.8
10°	4859.2	4800.0	4699.8	4668.0	4668.0	4663.4	4681.6	4654.3	4636.1	4640.6	4631.5
12.5°	5032.3	4954.9	4845.6	4818.2	4804.6	4818.2	4822.8	4786.4	4754.5	4759.0	4745.4
15°	5241.8	5155.2	5036.8	4995.8	4986.7	4982.2	4964.0	4918.4	4877.4	4872.9	4859.2
17.5°	5469.5	5360.2	5219.0	5178.0	5137.0	5123.4	5077.8	5018.6	4954.9	4954.9	4936.6
20°	5688.1	5565.1	5396.6	5337.4	5278.2	5223.6	5146.1	5050.5	4968.5	4954.9	4936.6
22.5°	5924.9	5779.2	5583.3	5496.8	5392.1	5282.8	5150.7	5023.2	4918.4	4895.7	4882.0
25°	6189.0	6006.9	5774.6	5647.1	5478.6	5310.1	5114.3	4950.3	4827.3	4790.9	4781.8
27.5°	6480.5	6261.9	5979.5	5792.8	5546.9	5282.8	5032.3	4836.5	4686.2	4640.6	4627.0
30°	6776.5	6516.9	6166.3	5893.0	5546.9	5196.2	4882.0	4654.3	4481.2	4417.5	4408.4
32.5°	7072.5	6781.1	6334.8	5947.7	5492.2	5050.5	4686.2	4417.5	4221.7	4144.2	4162.4
35°	7427.7	7072.5	6489.6	5970.4	5401.2	4872.9	4463.0	4148.8	3948.4	3880.1	3893.8
37.5°	7796.6	7364.0	6612.6	5952.2	5273.6	4672.5	4212.5	3907.4	3656.9	3538.5	3552.2
40°	8115.4	7628.1	6699.1	5888.5	5109.7	4444.8	3966.6	3565.9	3219.7	3105.9	3092.2
42.5°	8416.0	7823.9	6744.6	5792.8	4923.0	4180.7	3616.0	3101.3	2755.2	2614.1	2618.6
45°	8730.2	8015.2	6726.4	5665.3	4690.7	3871.0	3165.1	2645.9	2340.8	2213.3	2217.8
47.5°	9090.0	8220.2	6708.2	5528.7	4408.4	3470.2	2732.5	2245.2	1981.0	1890.0	1880.8
50°	9472.5	8447.9	6685.4	5360.2	4094.1	3023.9	2304.4	1871.7	1648.6	1589.4	1575.7
52.5°	9905.2	8693.8	6671.8	5159.8	3716.1	2550.3	1921.8	1543.8	1393.6	1352.6	1348.0
55°	10424.3	8980.7	6690.0	4918.4	3260.7	2104.0	1598.5	1329.8	1229.6	1206.8	1202.3
57.5°	11057.4	9349.6	6744.6	4636.1	2782.6	1716.9	1361.7	1197.7	1134.0	1115.8	1115.8
60°	11745.0	9768.5	6844.8	4317.3	2304.4	1416.3	1206.8	1093.0	1065.7	1088.4	1088.4
62.5°	12487.3	10260.4	7022.4	3930.2	1858.1	1197.7	1083.9	1006.5	988.2	1033.8	1038.3
65°	13175.0	10738.6	7136.3	3465.7	1475.5	1038.3	988.2	919.9	929.0	974.6	970.0
67.5°	13598.5	11134.8	6976.9	2882.7	1170.4	919.9	888.0	828.8	851.6	888.0	892.6
70°	13339.0	10911.6	6189.0	2176.9	915.4	801.5	778.8	742.3	760.5	806.1	824.3
72.5°	12068.4	9773.1	4813.7	1471.0	737.8	674.0	683.1	664.9	687.7	728.7	769.6
75°	9795.9	7386.7	3228.9	942.7	582.9	573.8	587.5	573.8	582.9	623.9	646.7
77.5°	5114.3	3602.3	1607.6	587.5	432.6	446.3	469.1	473.6	501.0	510.1	519.2
80°	2386.3	1621.3	669.5	327.9	286.9	314.2	359.8	364.3	373.4	387.1	391.7
82.5°	778.8	487.3	309.7	177.6	163.9	177.6	232.3	277.8	282.4	309.7	309.7
85°	82.0	50.1	68.3	72.9	63.8	77.4	104.7	100.2	45.5	27.3	27.3
87.5°	22.8	18.2	22.8	22.8	18.2	18.2	13.7	4.6	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)