

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: P842032

Luminaire Tested: **ARCH4-260-730-U-T3**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P842032
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2310-189-18)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-260-730-U-T3
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 1010mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 37884 lumens
Efficiency: N/A
Efficacy: 146.2 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B4 - U0 - G4

Input Watts (W): 259.2
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

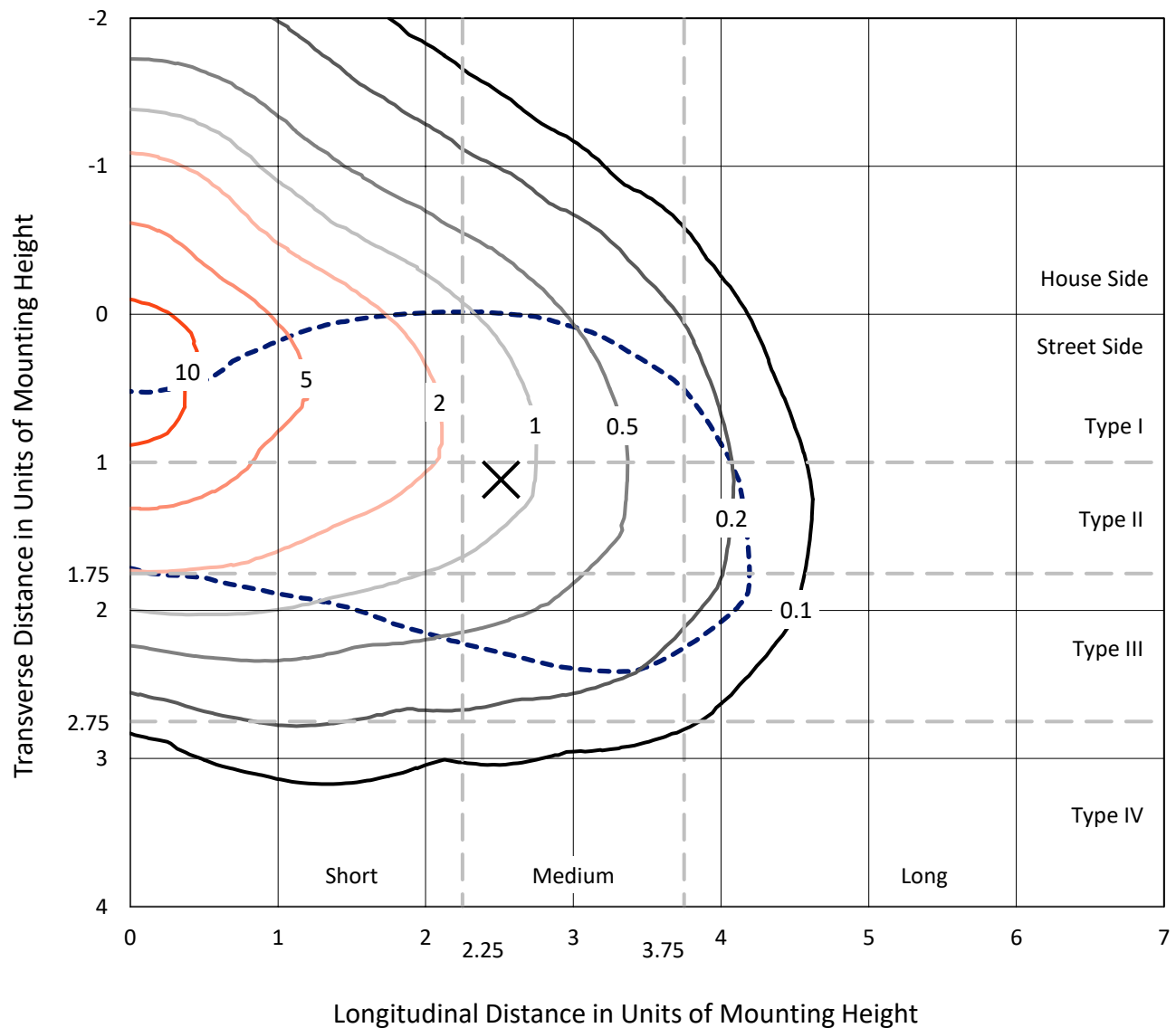


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

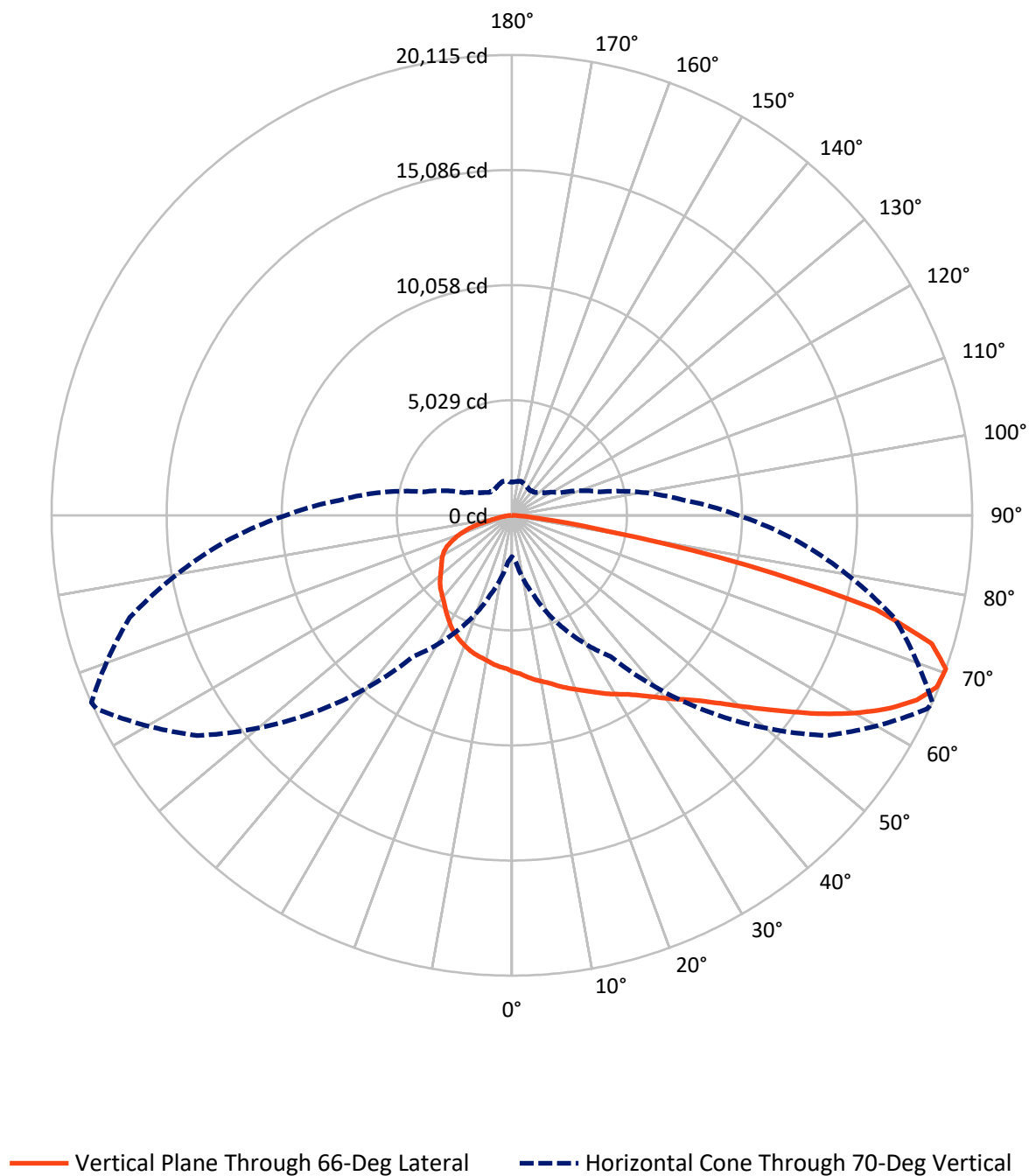


Based on 25 foot mounting height. Maximum calculated value = 11.9 fc
Type III - Medium - N/A

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Luminous Intensity Polar Plot



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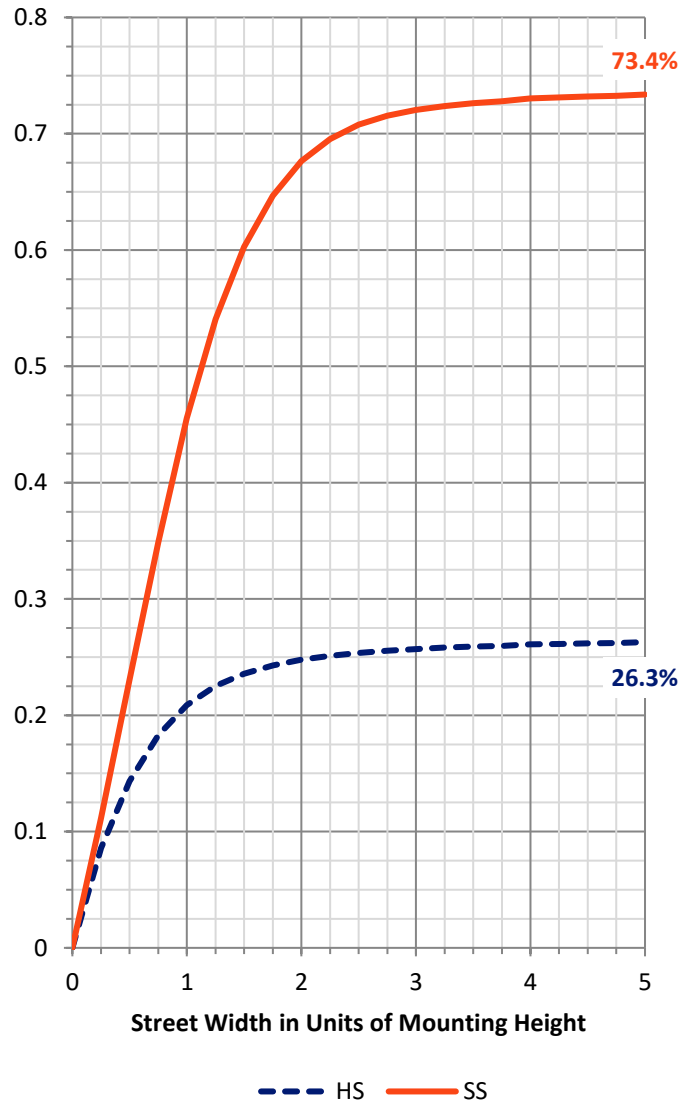
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10038.4	0.0	10038.4
	% Fixture	26.5	0.0	26.5
Street Side	Lumens	27845.6	0.0	27845.6
	% Fixture	73.5	0.0	73.5
Total	Lumens	37884.0	0.0	37884.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	657.0	1.7
10°-20°	1970.7	5.2
20°-30°	3303.6	8.7
30°-40°	4946.5	13.1
40°-50°	6613.5	17.5
50°-60°	7721.5	20.4
60°-70°	7677.8	20.3
70°-80°	4545.4	12.0
80°-90°	448.0	1.2
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°	37884.0	100.0
0°-180°	37884.0	100.0

Coefficient of Utilization



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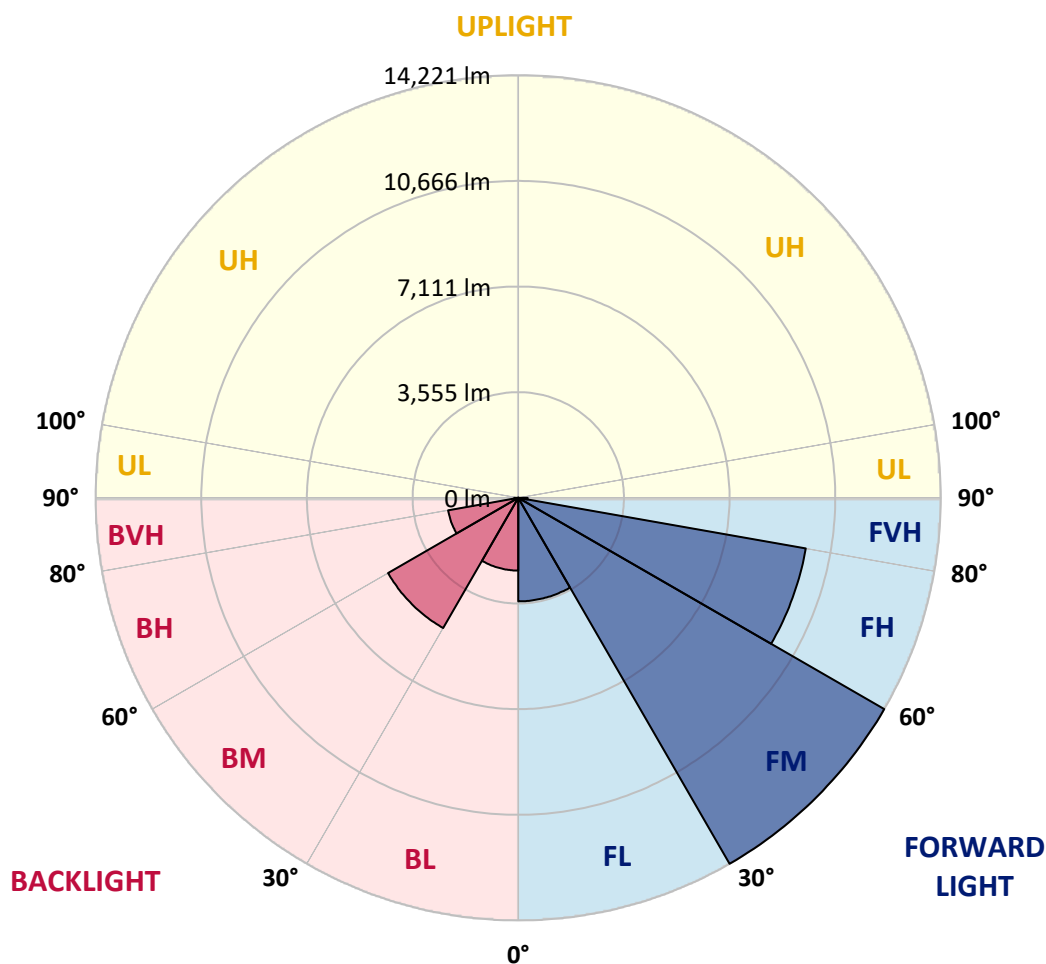
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3484.3	9.2			
FM	(30°-60°)	14221.1	37.5			
FH	(60°-80°)	9825.3	25.9			G4/12000
FVH	(80°-90°)	314.9	0.8			G3/500
BL	(0°-30°)	2446.9	6.5	B3/2500		
BM	(30°-60°)	5060.4	13.4	B4/8500		
BH	(60°-80°)	2397.9	6.3	B3/2500		G3/2500
BVH	(80°-90°)	133.1	0.4			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	6837.2	6837.2	6837.2	6837.2	6837.2	6837.2	6837.2	6837.2	6837.2	6837.2	6837.2
2.5°	7088.6	7077.4	7071.8	7049.5	6999.2	7021.5	6971.3	6937.7	6932.2	6854.0	6809.3
5°	7379.0	7373.5	7362.3	7328.8	7250.6	7261.7	7177.9	7116.5	7099.7	6976.8	6881.9
7.5°	7624.8	7613.6	7608.1	7563.4	7479.6	7474.0	7373.5	7284.1	7256.1	7088.6	6943.3
10°	7814.7	7798.0	7809.2	7764.5	7675.1	7658.3	7529.9	7412.6	7384.6	7172.4	6971.3
12.5°	7976.7	7965.6	7982.3	7943.2	7870.6	7853.8	7725.4	7574.5	7541.0	7295.2	7032.7
15°	8155.5	8116.4	8149.9	8133.1	8082.9	8077.3	7960.0	7792.4	7747.7	7451.7	7127.7
17.5°	8250.4	8228.1	8267.2	8272.8	8250.4	8289.5	8177.8	7976.7	7937.6	7596.9	7211.5
20°	8317.5	8284.0	8328.6	8362.2	8378.9	8457.1	8367.7	8172.2	8127.6	7736.5	7289.7
22.5°	8546.5	8473.9	8479.5	8501.8	8513.0	8624.7	8568.8	8378.9	8334.2	7909.7	7384.6
25°	9121.9	8976.6	8881.7	8814.6	8736.4	8831.4	8797.9	8613.5	8574.4	8116.4	7501.9
27.5°	10015.6	9831.3	9641.3	9445.8	9138.6	9099.5	9043.6	8876.1	8831.4	8323.1	7619.2
30°	11032.2	10847.9	10624.5	10311.7	9736.3	9434.7	9306.2	9121.9	9071.6	8507.4	7731.0
32.5°	12043.3	11881.3	11657.9	11278.0	10456.9	9842.4	9568.7	9378.8	9328.5	8708.5	7865.0
35°	12830.9	12730.4	12585.1	12110.3	11171.9	10322.8	9948.6	9719.5	9663.7	9026.9	8110.8
37.5°	13467.7	13395.1	13272.2	12775.1	11691.4	10803.2	10384.3	10121.7	10060.3	9373.2	8373.3
40°	14406.2	14216.2	14115.7	13395.1	12143.8	11238.9	10875.8	10602.1	10535.1	9741.9	8585.6
42.5°	15204.9	15065.3	14942.4	13948.1	12574.0	11613.2	11339.5	11088.1	10998.7	10105.0	8814.6
45°	15339.0	15394.9	15333.4	14221.8	13255.5	11981.9	11808.7	11646.7	11562.9	10596.5	9161.0
47.5°	15344.6	15344.6	14981.5	14378.2	14098.9	12395.2	12311.4	12367.3	12277.9	11222.2	9574.3
50°	14942.4	15015.0	14825.1	14417.3	14322.4	12808.6	12925.9	13227.5	13138.1	11886.9	10021.2
52.5°	14110.1	14350.3	14344.7	14355.9	13998.4	13160.5	13573.9	14260.9	14110.1	12635.4	10496.0
55°	12641.0	13121.4	13551.5	13920.2	13719.1	13372.8	14367.1	15361.4	15204.9	13473.3	10976.4
57.5°	11384.2	11691.4	12227.6	13272.2	13389.5	13557.1	15110.0	16512.1	16372.4	14400.6	11479.1
60°	9948.6	10373.1	10909.4	12395.2	12987.3	13797.3	15925.5	17634.8	17500.8	15339.0	11965.1
62.5°	7742.1	8289.5	9362.0	11049.0	12400.8	13948.1	16567.9	18623.5	18562.1	16227.2	12400.8
65°	5396.0	5882.0	7384.6	9395.6	11467.9	13881.1	17081.8	19506.1	19450.3	16953.3	12708.0
67.5°	3150.5	3714.7	5412.8	7563.4	9820.1	13417.4	17249.4	20025.6	20025.6	17394.6	12791.8
70°	1798.7	2061.2	3569.4	5513.3	7529.9	12138.3	16780.2	20020.0	20115.0	17294.1	12445.5
72.5°	1256.8	1374.1	2402.0	3709.1	5105.6	9820.1	15551.3	19053.7	19182.1	16344.5	11261.3
75°	977.5	1061.3	1692.5	2530.4	3217.5	6669.6	12864.4	16065.2	16405.9	13931.4	9105.1
77.5°	742.9	804.4	988.7	1580.8	2061.2	3832.0	8490.6	10535.1	10557.4	8529.7	4882.1
80°	541.8	603.3	659.1	966.4	1094.8	1793.1	3206.3	4401.7	4278.8	4128.0	2642.2
82.5°	324.0	385.4	402.2	525.1	536.3	765.3	1122.8	1418.8	1363.0	1815.4	1240.1
85°	139.6	195.5	206.7	240.2	229.0	312.8	446.9	374.3	335.2	385.4	268.1
87.5°	33.5	55.9	55.9	61.4	50.3	78.2	83.8	61.4	55.9	67.0	67.0
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°	6837.2	6837.2	6837.2	6837.2	6837.2	6837.2	6837.2	6837.2	6837.2	6837.2	6837.2
2.5°	6798.1	6781.3	6786.9	6692.0	6664.0	6636.1	6619.3	6608.2	6597.0	6613.8	6630.5
5°	6848.4	6809.3	6764.6	6624.9	6569.1	6507.6	6462.9	6423.8	6407.1	6407.1	6423.8
7.5°	6887.5	6820.4	6725.5	6541.1	6440.6	6356.8	6284.2	6233.9	6206.0	6206.0	6222.7
10°	6893.1	6798.1	6647.3	6423.8	6289.8	6166.9	6083.1	6027.2	5988.1	5988.1	5999.3
12.5°	6926.6	6798.1	6602.6	6334.5	6166.9	6016.1	5915.5	5831.7	5815.0	5815.0	5826.1
15°	6982.4	6826.0	6574.7	6256.3	6055.2	5882.0	5770.3	5680.9	5647.4	5669.7	5675.3
17.5°	7032.7	6842.8	6524.4	6155.7	5915.5	5725.6	5602.7	5524.5	5479.8	5530.1	5530.1
20°	7066.2	6842.8	6451.8	6027.2	5764.7	5552.4	5435.1	5340.2	5306.6	5368.1	5373.7
22.5°	7116.5	6837.2	6373.6	5898.8	5602.7	5379.3	5262.0	5189.3	5172.6	5239.6	5262.0
25°	7172.4	6848.4	6289.8	5753.5	5424.0	5206.1	5116.7	5083.2	5094.4	5178.2	5206.1
27.5°	7233.8	6870.7	6206.0	5591.5	5228.4	5032.9	4982.7	4999.4	5044.1	5150.2	5183.8
30°	7289.7	6876.3	6088.7	5401.6	5005.0	4820.7	4843.0	4915.6	4982.7	5088.8	5127.9
32.5°	7362.3	6881.9	5965.8	5194.9	4764.8	4630.8	4731.3	4848.6	4915.6	5016.2	5060.9
35°	7541.0	6976.8	5870.8	4993.8	4541.4	4468.8	4636.3	4787.2	4826.3	4915.6	4954.7
37.5°	7747.7	7133.3	5820.6	4787.2	4323.5	4306.8	4519.0	4669.9	4681.0	4736.9	4776.0
40°	7876.2	7200.3	5764.7	4614.0	4128.0	4139.2	4357.0	4474.3	4452.0	4491.1	4519.0
42.5°	8004.7	7222.6	5647.4	4468.8	3943.7	3954.9	4122.4	4206.2	4217.4	4301.2	4340.3
45°	8222.5	7284.1	5518.9	4334.7	3776.1	3737.0	3837.5	3949.3	4094.5	4256.5	4301.2
47.5°	8513.0	7412.6	5384.9	4172.7	3614.1	3485.6	3524.7	3720.2	3871.1	4021.9	4049.8
50°	8809.0	7541.0	5262.0	3977.2	3452.1	3217.5	3234.3	3413.0	3535.9	3653.2	3670.0
52.5°	9099.5	7652.7	5155.8	3792.9	3267.8	2899.1	2966.1	3150.5	3234.3	3290.1	3306.9
55°	9390.0	7747.7	5060.9	3636.5	3055.5	2647.7	2709.2	2882.3	2966.1	2994.1	3005.2
57.5°	9691.6	7859.4	4988.3	3502.4	2815.3	2424.3	2463.4	2586.3	2664.5	2698.0	2686.8
60°	9943.0	7954.4	4949.1	3362.7	2575.1	2217.6	2206.4	2318.2	2429.9	2463.4	2452.2
62.5°	10138.5	8015.8	4887.7	3184.0	2362.9	2010.9	1955.1	2100.3	2217.6	2240.0	2256.7
65°	10244.6	8021.4	4736.9	2955.0	2145.0	1787.5	1748.4	1893.6	1966.3	1988.6	1988.6
67.5°	10227.9	7932.0	4440.8	2647.7	1943.9	1586.4	1552.9	1642.3	1748.4	1765.2	1748.4
70°	9881.5	7563.4	3966.0	2323.8	1703.7	1407.7	1346.2	1435.6	1536.1	1474.7	1446.8
72.5°	8898.4	6608.2	3267.8	1966.3	1435.6	1184.2	1156.3	1245.7	1251.3	1262.4	1234.5
75°	7021.5	4921.2	2446.6	1530.5	1161.9	994.3	988.7	972.0	994.3	1039.0	1005.5
77.5°	3686.7	2457.8	1323.9	938.4	843.5	798.8	759.7	754.1	821.1	849.1	815.5
80°	1999.8	1379.7	759.7	564.2	513.9	519.5	569.8	558.6	631.2	648.0	620.0
82.5°	871.4	653.6	374.3	340.7	340.7	335.2	351.9	391.0	469.2	469.2	374.3
85°	189.9	162.0	145.2	167.6	189.9	189.9	189.9	189.9	134.1	72.6	50.3
87.5°	61.4	61.4	61.4	67.0	72.6	72.6	61.4	44.7	27.9	5.6	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)