

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: P324019

Luminaire Tested: **GAN-SA5D-830-U-SL4-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P324019
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-25)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA5D-830-U-SL4-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25011 lumens
Efficiency: N/A
Efficacy: 78.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

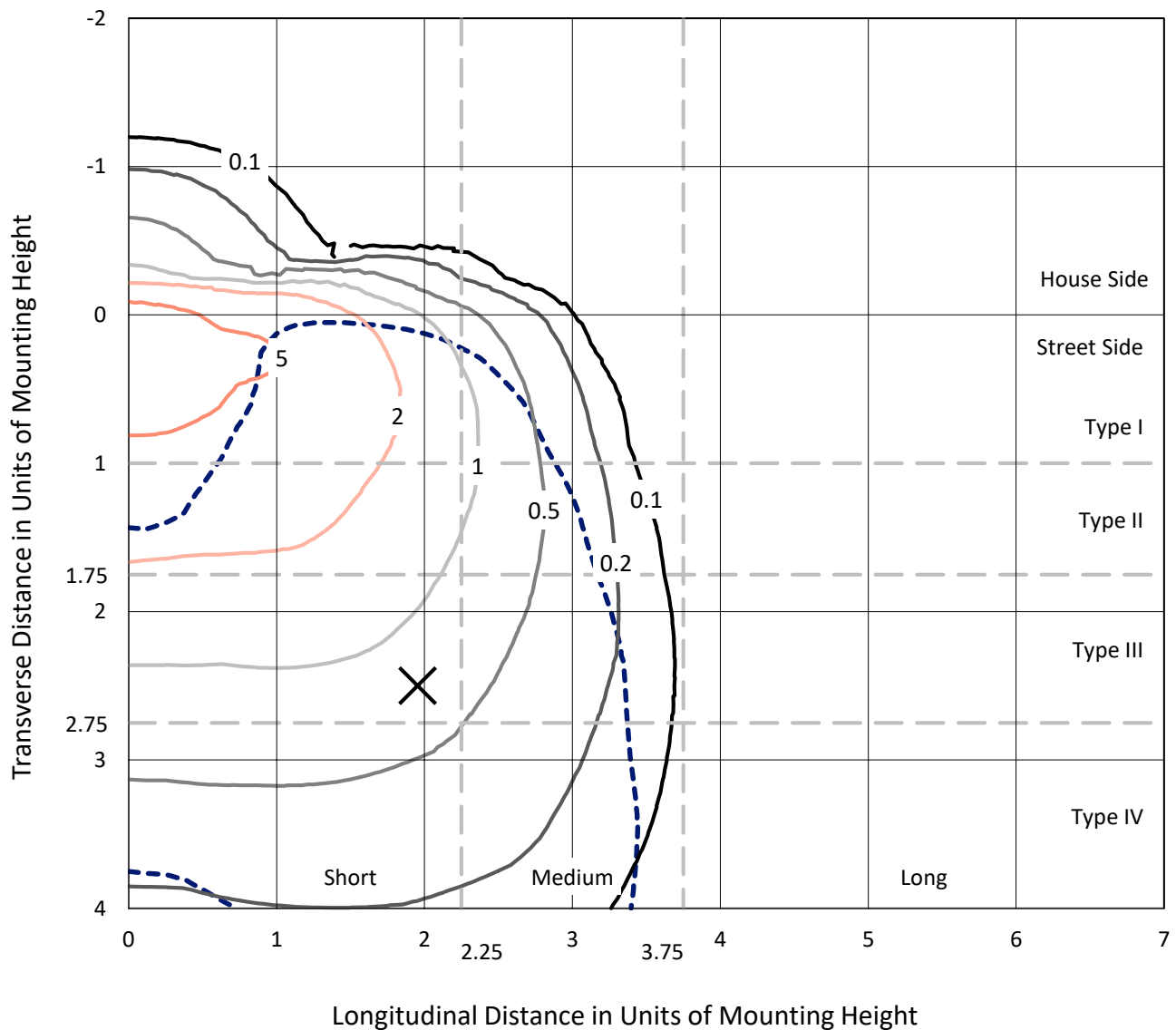
Input Watts (W): 320
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

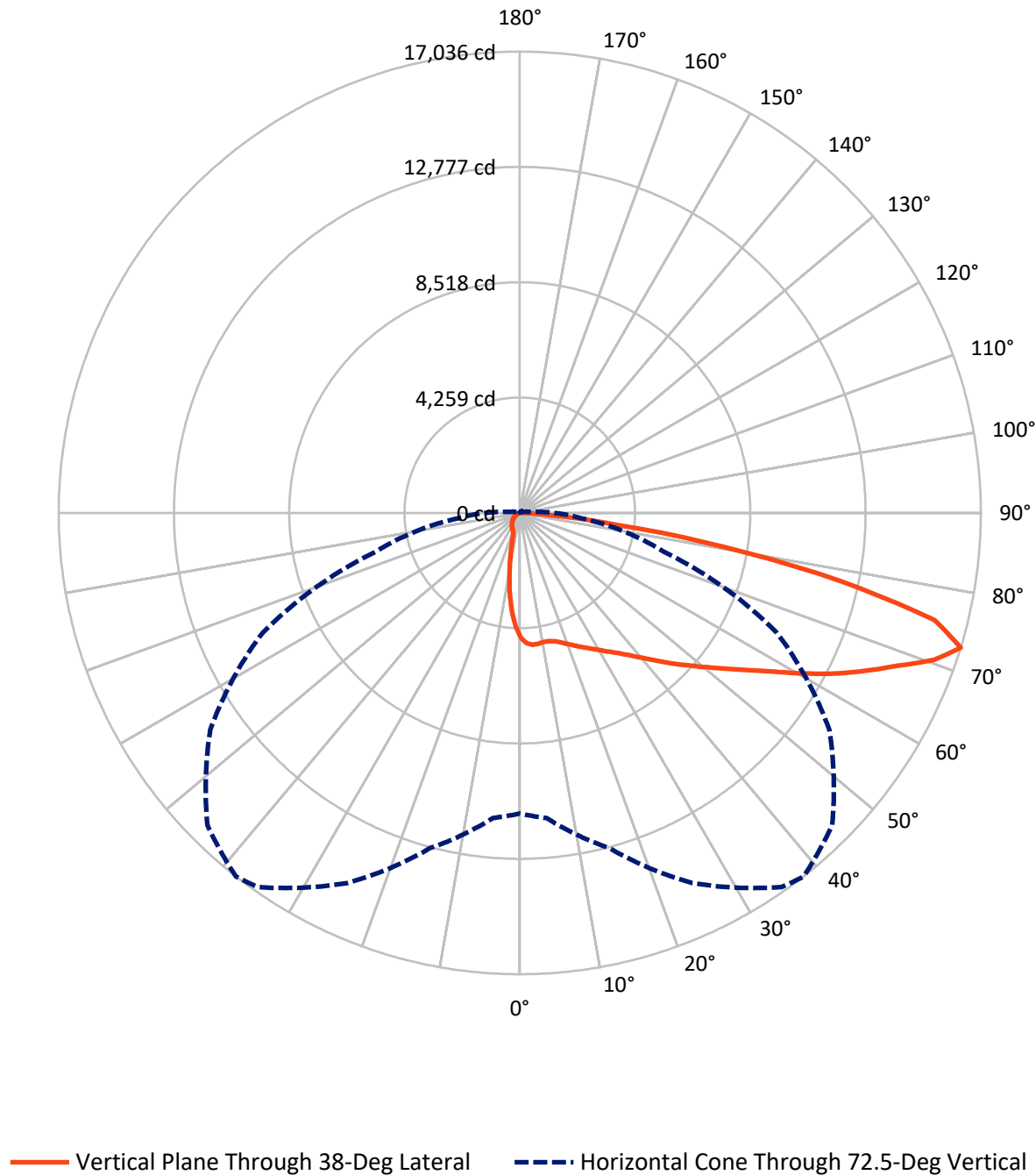
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.8 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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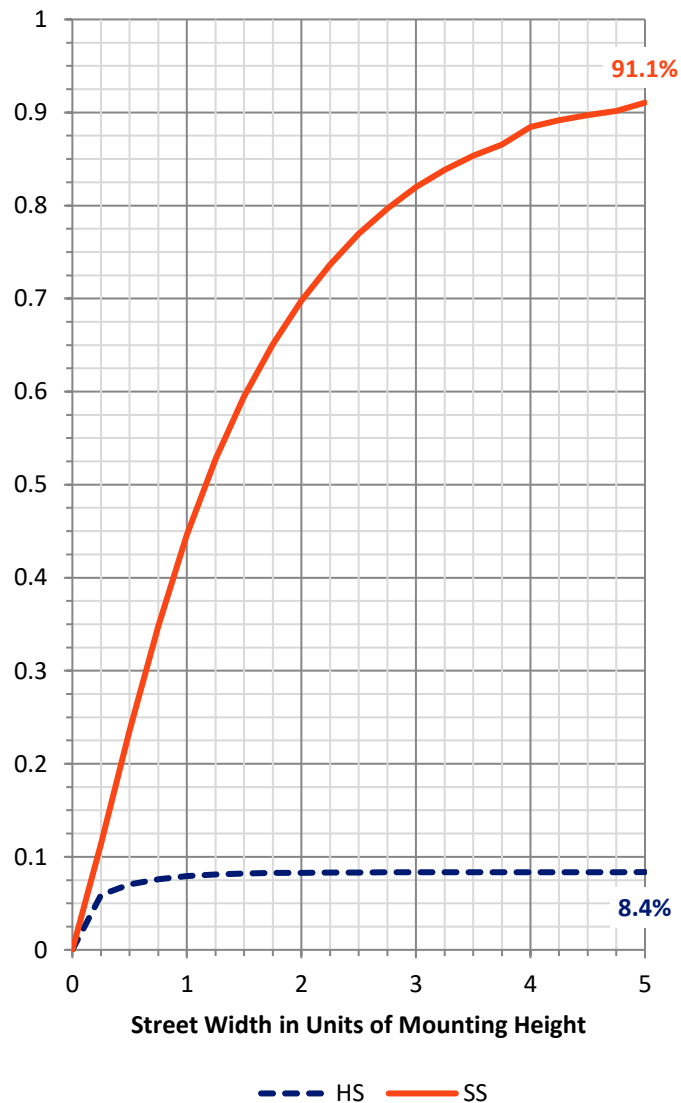
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2104.8	0.0	2104.8
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	22906.2	0.0	22906.2
	% Fixture	91.6	0.0	91.6
Total	Lumens	25011.0	0.0	25011.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	392.0	1.6
10°-20°	958.4	3.8
20°-30°	1524.4	6.1
30°-40°	2291.7	9.2
40°-50°	3496.2	14.0
50°-60°	4941.3	19.8
60°-70°	6198.0	24.8
70°-80°	4634.4	18.5
80°-90°	574.6	2.3
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°	25011.0	100.0
0°-180°	25011.0	100.0

Coefficient of Utilization



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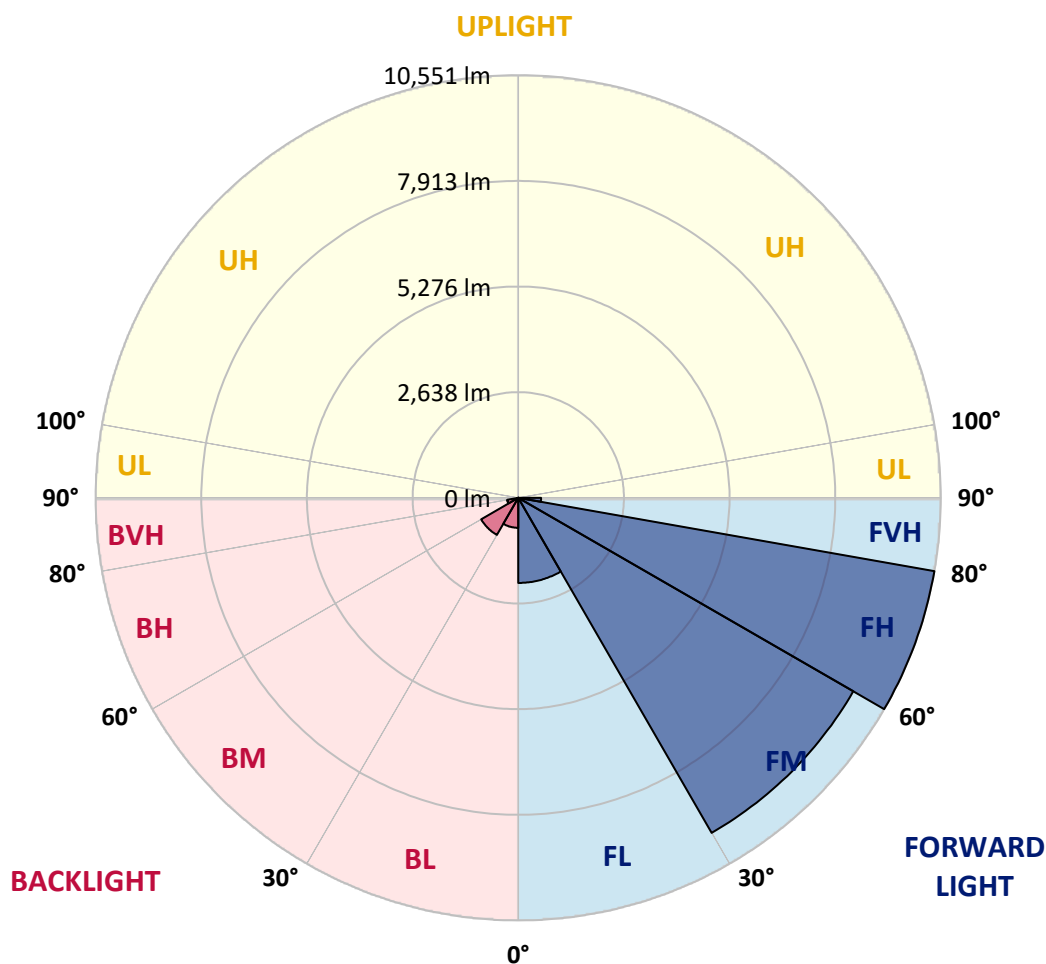
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2125.3	8.5			
FM	(30°-60°)	9660.4	38.6			
FH	(60°-80°)	10551.3	42.2			G4/12000
FVH	(80°-90°)	569.3	2.3			G4/750
BL	(0°-30°)	749.4	3.0	B2/1000		
BM	(30°-60°)	1068.8	4.3	B2/2500		
BH	(60°-80°)	281.2	1.1	B1/500		G1/500
BVH	(80°-90°)	5.4	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	4599.4	4599.4	4599.4	4599.4	4599.4	4599.4	4599.4	4599.4	4599.4	4599.4	4599.4
2.5°	4882.0	4883.0	4871.6	4852.9	4829.0	4816.5	4795.8	4762.5	4727.2	4663.8	4595.3
5°	4981.7	4981.7	4967.1	4942.2	4903.8	4892.4	4852.9	4799.9	4727.2	4624.4	4509.1
7.5°	4971.3	4973.4	4953.6	4927.7	4889.2	4878.9	4831.1	4771.9	4681.5	4556.9	4409.4
10°	4917.3	4922.5	4906.9	4894.4	4859.1	4847.7	4803.0	4743.8	4653.5	4520.5	4351.2
12.5°	4862.2	4867.4	4872.6	4884.0	4862.2	4858.1	4822.8	4772.9	4686.7	4548.5	4357.4
15°	4826.9	4837.3	4874.7	4919.4	4924.6	4920.4	4897.6	4850.8	4763.6	4620.2	4402.1
17.5°	4826.9	4843.5	4921.4	5006.6	5036.7	5039.9	5020.1	4954.7	4850.8	4697.1	4443.6
20°	4867.4	4890.3	5011.8	5132.3	5182.2	5182.2	5143.7	5052.3	4930.8	4766.7	4471.7
22.5°	4971.3	5001.4	5154.1	5293.3	5346.3	5334.9	5282.9	5150.0	5013.9	4845.6	4507.0
25°	5175.9	5198.8	5357.7	5497.9	5530.1	5504.2	5438.7	5268.4	5119.8	4952.6	4571.4
27.5°	5439.8	5442.9	5607.0	5725.4	5705.7	5688.0	5606.0	5416.9	5272.5	5105.3	4682.5
30°	5729.6	5729.6	5873.9	5964.3	5904.1	5889.5	5807.5	5596.6	5467.8	5313.0	4840.4
32.5°	6010.0	6022.5	6139.9	6197.0	6129.5	6114.9	6034.9	5824.1	5727.5	5629.8	5086.6
35°	6281.1	6290.5	6401.6	6432.8	6368.4	6372.5	6315.4	6136.7	6100.4	6087.9	5457.4
37.5°	6543.9	6546.0	6659.2	6679.0	6646.8	6682.1	6687.3	6529.4	6596.9	6697.6	5979.9
40°	6783.9	6785.9	6898.1	6949.0	7004.1	7049.8	7090.3	7006.1	7229.5	7463.2	6602.1
42.5°	6976.0	6997.8	7140.1	7236.7	7382.2	7469.4	7579.5	7575.4	7982.5	8333.6	7354.1
45°	7145.3	7182.7	7381.1	7550.4	7799.7	7938.9	8111.3	8246.4	8830.1	9302.8	8115.5
47.5°	7368.7	7404.0	7630.4	7907.8	8240.1	8423.0	8708.6	9000.5	9761.9	10254.2	8859.2
50°	7683.4	7667.8	7891.1	8289.0	8715.9	8955.8	9363.0	9800.3	10686.3	11083.1	9296.5
52.5°	8018.9	8012.7	8177.8	8703.4	9276.8	9557.2	10095.3	10627.1	11570.3	11654.4	9497.0
55°	8434.4	8389.7	8528.9	9176.0	9942.6	10243.8	10877.4	11445.6	12274.5	11976.4	9597.7
57.5°	8869.6	8795.9	8928.8	9702.7	10693.6	11049.9	11743.7	12243.4	12743.0	12196.6	9596.7
60°	9319.4	9232.1	9390.0	10361.2	11626.4	12038.7	12682.7	12782.5	13180.3	12307.8	9526.1
62.5°	9695.4	9643.5	9878.2	11065.5	12668.2	13073.3	13392.2	13272.7	13549.0	12394.0	9360.9
65°	10093.2	10096.3	10475.5	11887.1	13775.5	14048.7	14075.7	13908.4	13857.5	12376.3	8802.1
67.5°	10631.3	10681.1	11313.7	13002.7	14852.6	15063.5	15061.4	14597.1	14082.9	11674.1	7562.9
70°	11200.5	11317.9	12279.7	14279.2	16028.4	16242.4	16132.3	15035.4	13260.3	9439.9	5352.5
72.5°	11104.9	11308.5	12816.7	15084.3	16872.9	17036.0	16320.3	13958.3	10480.7	5486.5	2278.9
75°	8567.3	8803.1	11752.0	14286.5	15986.9	15840.4	14022.7	10861.9	5727.5	1531.1	513.1
77.5°	4525.7	4651.4	7763.4	10883.7	12465.6	12159.2	9878.2	6025.6	1746.1	379.1	230.6
80°	2370.4	2399.4	3383.1	6175.2	7693.8	7695.9	5854.2	2646.7	719.8	194.2	154.8
82.5°	1269.3	1294.2	1787.6	2853.4	4031.3	3654.2	2241.6	1456.3	418.6	110.1	148.5
85°	305.4	310.6	1013.8	1303.6	1585.1	1132.2	665.8	1222.6	113.2	64.4	120.5
87.5°	117.4	119.5	376.0	564.0	404.1	261.8	311.6	456.0	14.5	24.9	18.7
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°	4599.4	4599.4	4599.4	4599.4	4599.4	4599.4	4599.4	4599.4	4599.4	4599.4	4599.4
2.5°	4553.7	4526.7	4460.3	4376.1	4301.3	4247.3	4166.3	4113.3	4078.0	4077.0	4063.5
5°	4438.4	4383.4	4240.0	4069.7	3914.9	3775.7	3611.6	3481.8	3385.2	3369.6	3336.4
7.5°	4314.8	4224.5	4004.3	3738.3	3478.7	3214.8	2908.4	2718.3	2555.2	2477.3	2469.0
10°	4239.0	4112.3	3799.6	3415.3	3008.1	2579.1	2178.2	1900.9	1700.4	1643.3	1600.7
12.5°	4223.4	4056.2	3641.7	3112.0	2530.3	1963.2	1519.6	1224.6	1064.7	1013.8	1000.3
15°	4239.0	4030.2	3508.8	2811.8	2046.3	1392.9	1020.0	848.6	788.4	773.8	772.8
17.5°	4248.4	3999.1	3358.2	2478.4	1576.8	995.1	781.1	731.3	721.9	720.9	722.9
20°	4247.3	3951.3	3178.5	2106.5	1172.7	782.2	706.3	695.9	693.9	694.9	693.9
22.5°	4240.0	3895.2	2981.1	1723.2	886.0	699.1	674.1	667.9	666.9	666.9	666.9
25°	4253.5	3850.5	2764.0	1356.6	730.2	660.6	645.0	639.8	638.8	638.8	636.7
27.5°	4302.4	3825.6	2526.2	1043.9	659.6	626.3	613.9	612.8	609.7	608.7	610.8
30°	4381.3	3825.6	2265.4	812.3	617.0	591.0	581.7	579.6	578.6	577.5	578.6
32.5°	4520.5	3854.7	1980.8	675.2	576.5	551.6	545.3	548.4	545.3	545.3	545.3
35°	4771.9	3941.9	1682.7	589.0	533.9	513.1	506.9	511.0	509.0	509.0	507.9
37.5°	5138.5	4104.0	1382.5	537.0	496.5	474.7	466.4	472.6	470.5	470.5	469.5
40°	5585.2	4339.8	1096.9	497.5	460.2	437.3	430.0	433.1	428.0	428.0	430.0
42.5°	6136.7	4638.9	847.6	459.1	423.8	402.0	397.8	394.7	385.4	380.2	381.2
45°	6749.6	4950.5	660.6	421.7	389.5	371.9	365.6	357.3	341.7	331.4	332.4
47.5°	7297.0	5190.5	537.0	385.4	358.4	344.9	335.5	319.9	297.1	284.6	285.6
50°	7584.7	5226.8	457.0	349.0	329.3	315.8	302.3	278.4	251.4	237.9	236.8
52.5°	7658.5	5056.5	397.8	315.8	300.2	284.6	267.0	234.8	204.6	190.1	188.0
55°	7685.5	4796.8	344.9	284.6	269.0	251.4	228.5	192.2	164.1	149.6	148.5
57.5°	7596.1	4409.4	303.3	256.6	237.9	216.1	188.0	153.7	126.7	115.3	115.3
60°	7397.7	3884.8	271.1	226.4	205.7	180.7	151.7	119.5	94.5	85.2	85.2
62.5°	7002.0	3205.5	241.0	195.3	175.5	149.6	122.6	90.4	66.5	61.3	62.3
65°	6255.2	2431.6	210.9	167.2	149.6	123.6	95.6	64.4	44.7	44.7	46.7
67.5°	5101.1	1689.0	179.7	142.3	128.8	100.8	72.7	44.7	31.2	35.3	39.5
70°	3376.9	947.3	153.7	117.4	110.1	80.0	54.0	30.1	24.9	33.2	40.5
72.5°	1274.5	368.7	128.8	94.5	95.6	61.3	38.4	22.9	22.9	36.4	47.8
75°	355.2	180.7	92.4	69.6	74.8	44.7	28.0	19.7	21.8	41.5	56.1
77.5°	208.8	133.0	60.2	40.5	50.9	31.2	18.7	15.6	18.7	35.3	54.0
80°	168.3	70.6	35.3	20.8	28.0	17.7	12.5	9.3	5.2	13.5	28.0
82.5°	168.3	42.6	16.6	14.5	14.5	9.3	6.2	4.2	1.0	0.0	7.3
85°	113.2	17.7	10.4	9.3	7.3	3.1	2.1	1.0	0.0	0.0	0.0
87.5°	18.7	7.3	4.2	2.1	1.0	0.0	0.0	0.0	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)