

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: P323459

Luminaire Tested: **GAN-SA5D-727-U-SL3-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P323459
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-23)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA5D-727-U-SL3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27706 lumens
Efficiency: N/A
Efficacy: 86.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G4

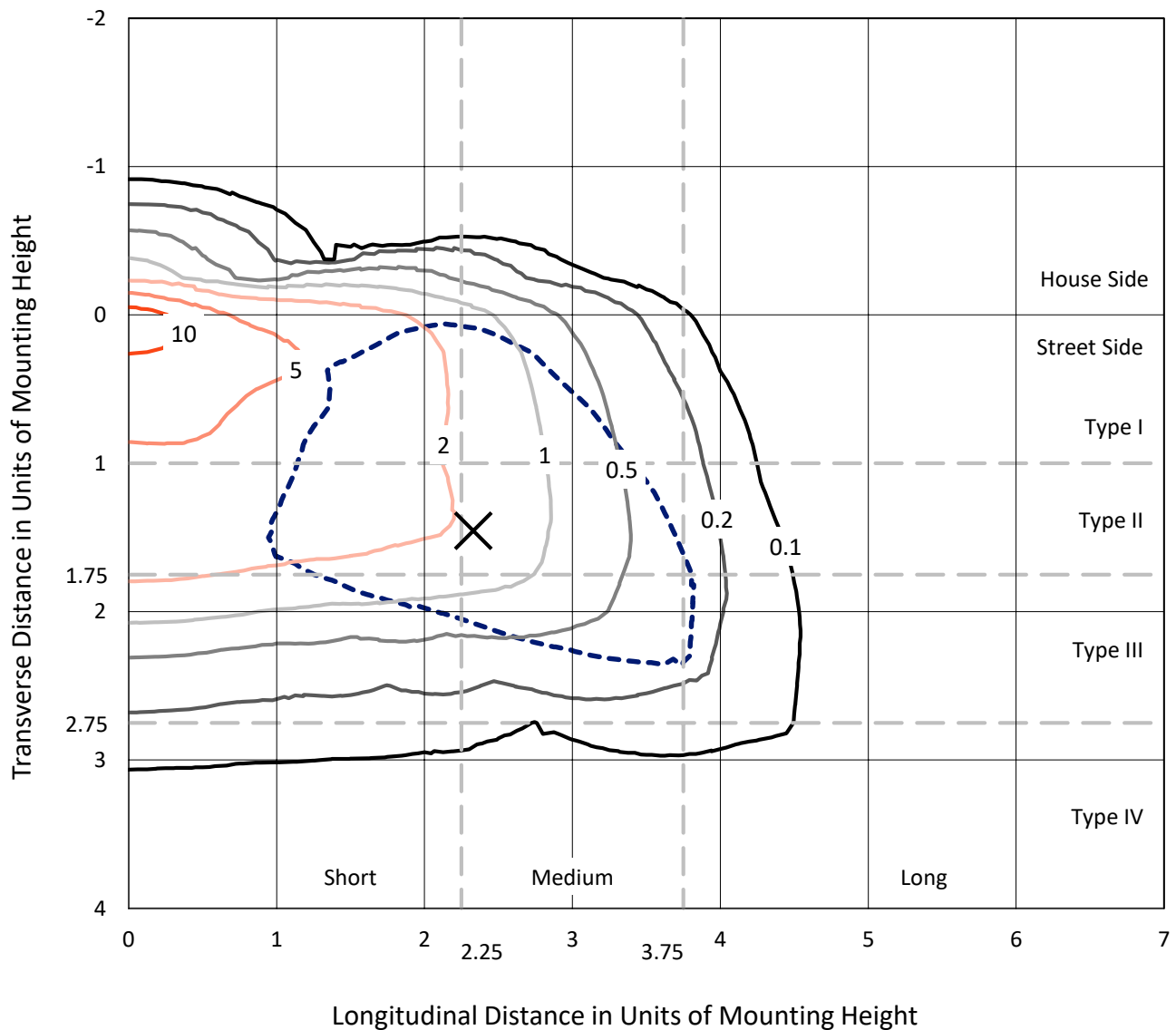
Input Watts (W): 320
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

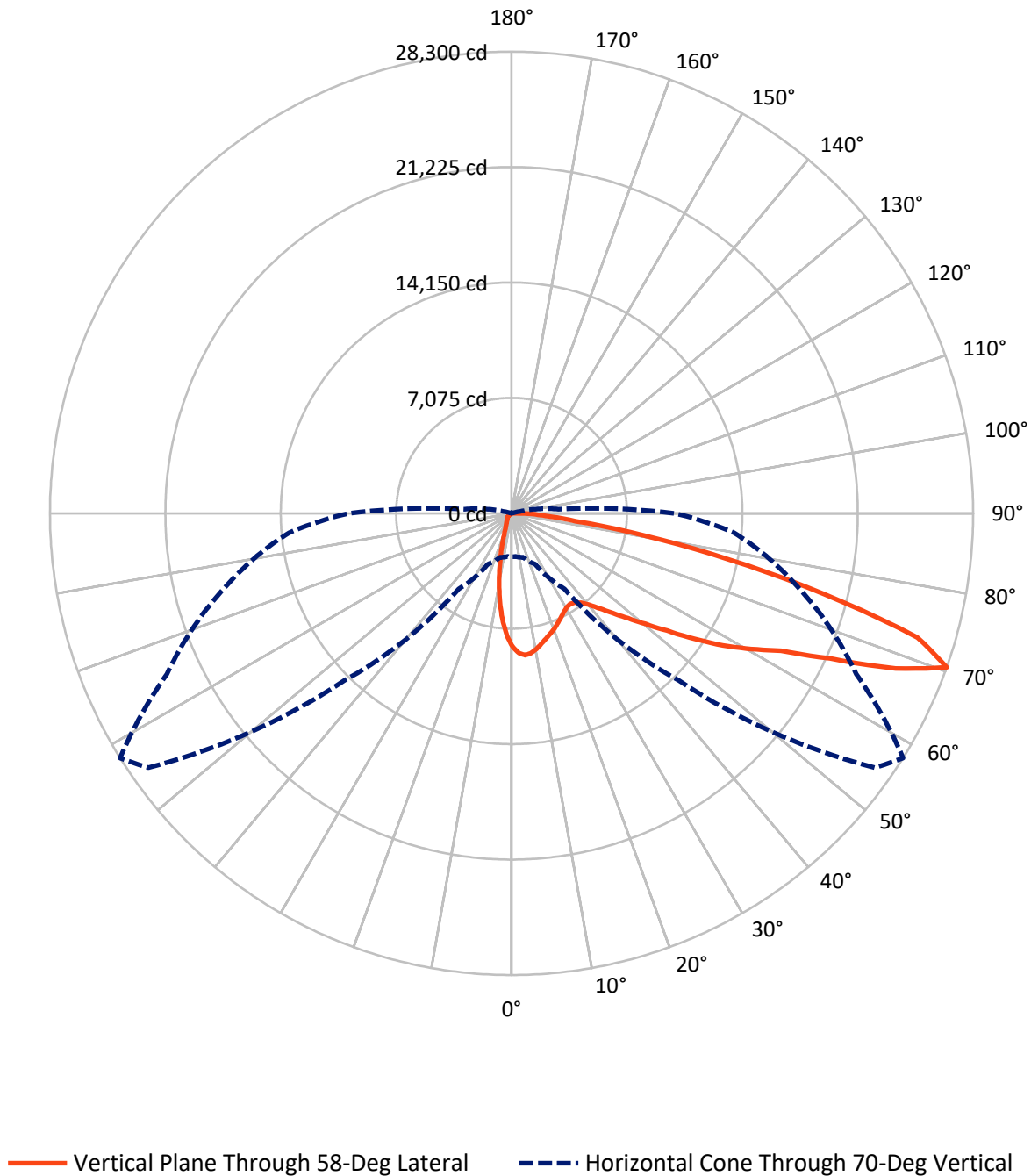
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.3 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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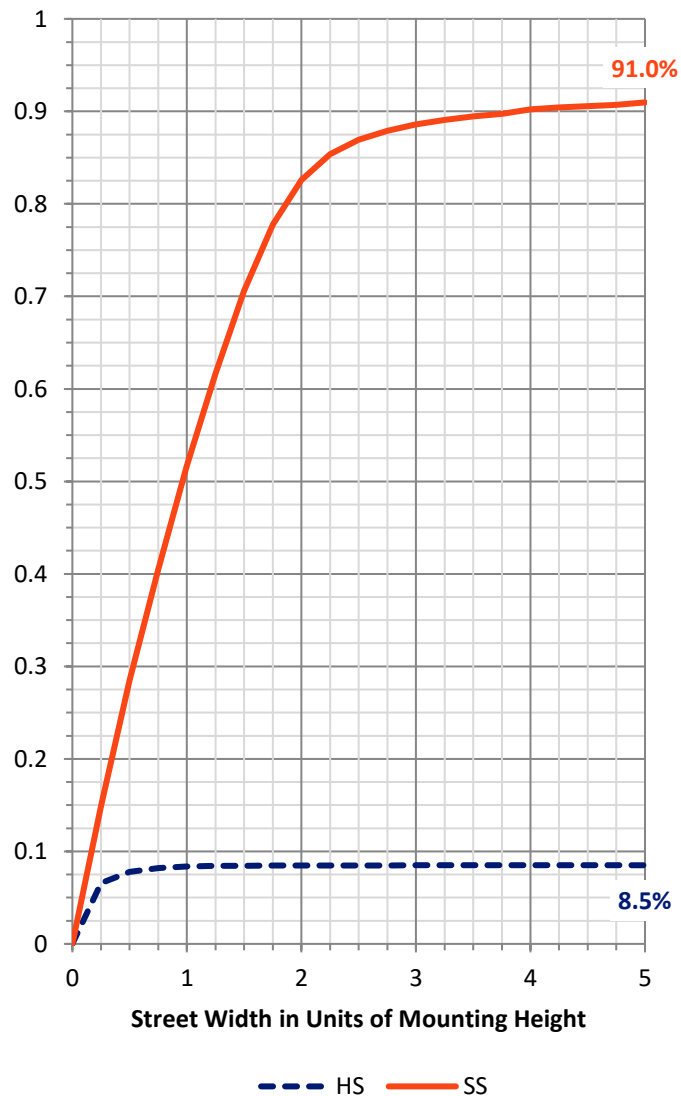
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2371.0	0.0	2371.0
	% Fixture	8.6	0.0	8.6
Street Side	Lumens	25335.0	0.0	25335.0
	% Fixture	91.4	0.0	91.4
Total	Lumens	27706.0	0.0	27706.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	669.3	2.4
10°-20°	1404.6	5.1
20°-30°	1846.6	6.7
30°-40°	2445.6	8.8
40°-50°	3655.4	13.2
50°-60°	5855.8	21.1
60°-70°	7381.2	26.6
70°-80°	3981.4	14.4
80°-90°	466.0	1.7
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°	27706.0	100.0
0°-180°	27706.0	100.0

Coefficient of Utilization



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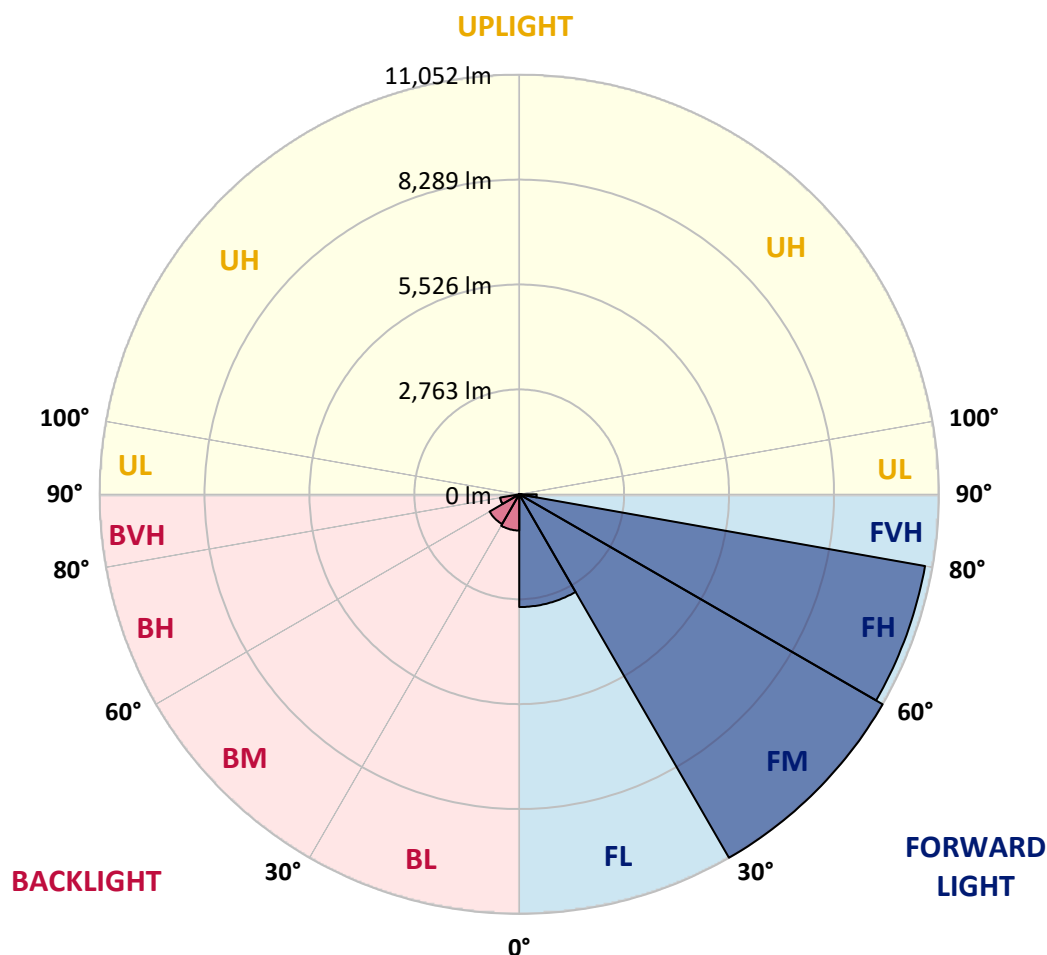
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2967.9	10.7			
FM	(30°-60°)	11052.3	39.9			
FH	(60°-80°)	10852.7	39.2			G4/12000
FVH	(80°-90°)	462.0	1.7			G3/500
BL	(0°-30°)	952.6	3.4	B2/1000		
BM	(30°-60°)	904.5	3.3	B1/1000		
BH	(60°-80°)	509.9	1.8	B2/1000		G2/1000
BVH	(80°-90°)	4.0	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 III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	8184.2	8184.2	8184.2	8184.2	8184.2	8184.2	8184.2	8184.2	8184.2	8184.2	8184.2
2.5°	8862.8	8840.9	8832.8	8819.0	8766.0	8714.2	8611.6	8582.8	8518.3	8365.1	8202.7
5°	8869.7	8868.5	8892.7	8887.0	8868.5	8844.4	8770.6	8732.6	8623.2	8404.3	8107.0
7.5°	8442.3	8464.2	8518.3	8562.1	8612.8	8678.5	8687.7	8650.8	8560.9	8324.8	7930.8
10°	7868.6	7903.1	7979.2	8065.6	8198.0	8329.4	8446.9	8442.3	8411.2	8178.5	7718.8
12.5°	7293.7	7334.0	7421.6	7549.4	7737.2	7951.5	8161.2	8190.0	8241.8	8047.1	7522.9
15°	6790.2	6824.8	6911.2	7067.9	7300.6	7588.6	7896.2	7949.2	8082.8	7944.6	7359.3
17.5°	6362.8	6384.7	6448.1	6622.0	6891.6	7240.7	7640.4	7744.1	7943.4	7863.9	7217.6
20°	6064.4	6067.9	6109.4	6231.5	6501.1	6891.6	7375.5	7524.1	7796.0	7794.8	7071.3
22.5°	5917.0	5905.5	5913.5	5983.8	6181.9	6558.7	7110.5	7286.8	7663.5	7736.1	6922.7
25°	5889.3	5880.1	5857.1	5866.3	5986.1	6267.2	6843.2	7047.1	7547.1	7700.4	6793.7
27.5°	5975.7	5984.9	5945.8	5904.3	5913.5	6078.3	6605.9	6842.1	7452.7	7700.4	6702.7
30°	6149.7	6154.3	6125.5	6071.3	5998.8	6025.3	6441.2	6677.3	7405.4	7753.4	6645.1
32.5°	6342.1	6367.4	6364.0	6320.2	6216.5	6109.4	6402.0	6617.4	7402.0	7870.9	6639.3
35°	6580.6	6609.4	6657.7	6648.5	6540.2	6364.0	6535.6	6705.0	7469.9	8064.4	6701.5
37.5°	6834.0	6877.8	6981.5	7031.0	6960.7	6761.4	6835.2	6956.1	7652.0	8377.8	6859.4
40°	7079.4	7128.9	7317.9	7512.6	7459.6	7254.5	7289.1	7385.8	7975.7	8828.2	7158.9
42.5°	7320.2	7393.9	7671.6	7991.8	8055.2	7891.6	7910.0	7987.2	8456.1	9448.0	7648.5
45°	7608.2	7691.1	8102.4	8497.6	8666.9	8595.5	8673.8	8724.5	9084.0	10267.1	8308.6
47.5°	8031.0	8126.6	8631.2	9081.7	9378.9	9425.0	9582.8	9616.2	9877.7	11221.0	9169.2
50°	8855.9	8882.4	9338.6	9747.6	10176.1	10452.6	10632.3	10657.7	10838.6	12263.7	10244.1
52.5°	9893.9	9911.2	10169.2	10443.4	10930.7	11495.2	11915.7	11951.5	11989.5	13279.8	11305.1
55°	10925.0	10922.7	11093.2	11254.5	11812.1	12632.3	13544.7	13566.6	13293.6	14244.0	12116.2
57.5°	11569.0	11631.2	11890.4	12097.8	12876.6	13928.4	15194.5	15275.1	14663.4	14958.3	12918.0
60°	11363.9	11393.9	11968.7	12736.0	14202.6	15770.5	16863.8	16884.6	15693.3	15671.4	13931.8
62.5°	9681.9	9698.0	10601.2	12183.0	14874.2	18159.9	18877.6	18540.1	16877.7	16661.1	15145.0
65°	6635.9	6740.7	7495.3	9450.3	13640.4	19658.7	21995.1	21436.3	18682.9	18087.3	16241.7
67.5°	3907.8	3885.9	4259.2	5699.2	10018.3	18663.3	25938.6	25383.3	21144.9	19042.4	15920.3
70°	2669.3	2654.3	2797.2	3450.4	5655.5	14477.9	27179.4	28300.3	23318.8	18399.5	13701.4
72.5°	1905.5	1913.6	2124.4	2680.8	3550.6	8435.4	23373.0	26026.1	22637.9	16040.1	10414.6
75°	1293.8	1315.7	1617.5	2199.3	3112.9	4291.4	16586.2	19784.3	18434.1	11657.7	5986.1
77.5°	695.8	720.0	1076.0	1771.9	2814.5	2981.5	10669.2	13616.2	11579.3	5240.7	1735.0
80°	290.3	304.1	503.4	1288.0	2432.0	2618.6	6277.6	8256.8	4934.3	1033.4	387.1
82.5°	125.6	132.5	209.7	768.4	1817.9	2210.8	3323.7	3972.3	1495.4	227.0	194.7
85°	24.2	25.3	86.4	406.7	1160.1	1247.7	2154.3	2111.7	671.6	97.9	141.7
87.5°	0.0	0.0	20.7	127.9	341.0	679.7	1314.5	1298.4	228.1	47.2	53.0
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°	8184.2	8184.2	8184.2	8184.2	8184.2	8184.2	8184.2	8184.2	8184.2	8184.2	8184.2
2.5°	8119.7	8040.2	7873.2	7666.9	7509.1	7335.2	7196.9	7021.8	6945.8	6949.2	6907.7
5°	7937.7	7774.1	7404.3	6937.7	6578.3	6207.3	5888.2	5570.2	5382.4	5321.4	5263.8
7.5°	7677.3	7418.1	6828.2	6109.4	5501.1	4906.6	4389.3	3934.3	3646.3	3505.7	3453.9
10°	7383.5	7019.5	6165.8	5218.8	4350.2	3546.0	2875.5	2292.6	2059.9	1902.0	1861.7
12.5°	7125.5	6632.4	5518.4	4305.2	3274.1	2304.1	1664.7	1301.8	1144.0	1081.8	1071.4
15°	6882.4	6270.7	4895.1	3478.1	2267.3	1418.2	1058.7	935.5	898.6	888.2	888.2
17.5°	6653.1	5926.2	4285.7	2663.6	1500.0	994.2	876.7	849.1	837.5	836.4	837.5
20°	6413.5	5581.7	3686.6	1951.6	1047.2	842.2	809.9	794.9	791.5	791.5	791.5
22.5°	6184.2	5237.3	3103.6	1394.0	839.9	768.4	752.3	741.9	738.5	737.3	735.0
25°	5964.2	4910.1	2534.5	985.0	737.3	703.9	690.1	676.3	665.9	660.1	656.7
27.5°	5783.3	4618.6	2004.6	790.3	665.9	637.1	619.8	599.1	573.7	562.2	557.6
30°	5639.3	4352.5	1544.9	667.0	599.1	570.3	543.8	508.1	471.2	451.6	450.5
32.5°	5526.4	4091.0	1172.8	589.9	539.2	503.4	465.4	420.5	377.9	356.0	354.8
35°	5471.1	3860.5	896.3	533.4	486.2	441.2	394.0	344.5	303.0	282.3	280.0
37.5°	5508.0	3665.8	699.3	486.2	441.2	389.4	334.1	282.3	245.4	227.0	225.8
40°	5642.8	3541.4	568.0	445.8	403.2	339.9	280.0	231.6	200.5	185.5	184.3
42.5°	5929.6	3495.3	485.0	412.4	366.4	293.8	232.7	191.2	162.4	152.1	149.8
45°	6408.9	3563.3	428.6	380.2	328.3	250.0	192.4	156.7	131.3	123.3	122.1
47.5°	7047.1	3741.9	388.2	349.1	293.8	210.8	160.1	126.7	107.1	99.1	97.9
50°	7869.7	4025.3	354.8	318.0	261.5	178.6	132.5	100.2	82.9	77.2	77.2
52.5°	8764.9	4362.8	324.9	289.2	229.3	148.6	107.1	77.2	65.7	58.8	58.8
55°	9504.5	4657.8	292.6	267.3	190.1	123.3	81.8	58.8	48.4	44.9	44.9
57.5°	10242.9	4972.3	255.8	229.3	152.1	100.2	62.2	43.8	35.7	33.4	33.4
60°	11200.3	5357.1	220.0	186.6	119.8	76.0	46.1	31.1	26.5	25.3	25.3
62.5°	12253.3	5582.9	187.8	149.8	93.3	56.5	33.4	20.7	19.6	19.6	18.4
65°	12897.3	5263.8	157.8	119.8	72.6	42.6	21.9	15.0	17.3	16.1	13.8
67.5°	12075.9	4120.9	129.0	93.3	56.5	32.3	13.8	10.4	18.4	15.0	11.5
70°	9998.7	2884.8	100.2	65.7	44.9	27.6	9.2	6.9	19.6	15.0	9.2
72.5°	7482.6	1930.8	79.5	43.8	33.4	24.2	8.1	3.5	17.3	12.7	8.1
75°	4088.7	777.6	63.4	27.6	20.7	17.3	5.8	2.3	11.5	9.2	5.8
77.5°	1076.0	205.1	46.1	18.4	11.5	6.9	3.5	1.2	5.8	4.6	2.3
80°	274.2	79.5	30.0	12.7	8.1	3.5	0.0	0.0	1.2	0.0	0.0
82.5°	146.3	33.4	18.4	9.2	4.6	0.0	0.0	0.0	0.0	0.0	0.0
85°	110.6	21.9	10.4	5.8	1.2	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	42.6	6.9	3.5	0.0	0.0	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)