

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: P323444

Luminaire Tested: **GAN-SA0B-727-U-SL3-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P323444
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-SA0B-727-U-SL3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 2700K, 800mA 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: 40411 lumens
Efficiency: N/A
Efficacy: 96.4 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

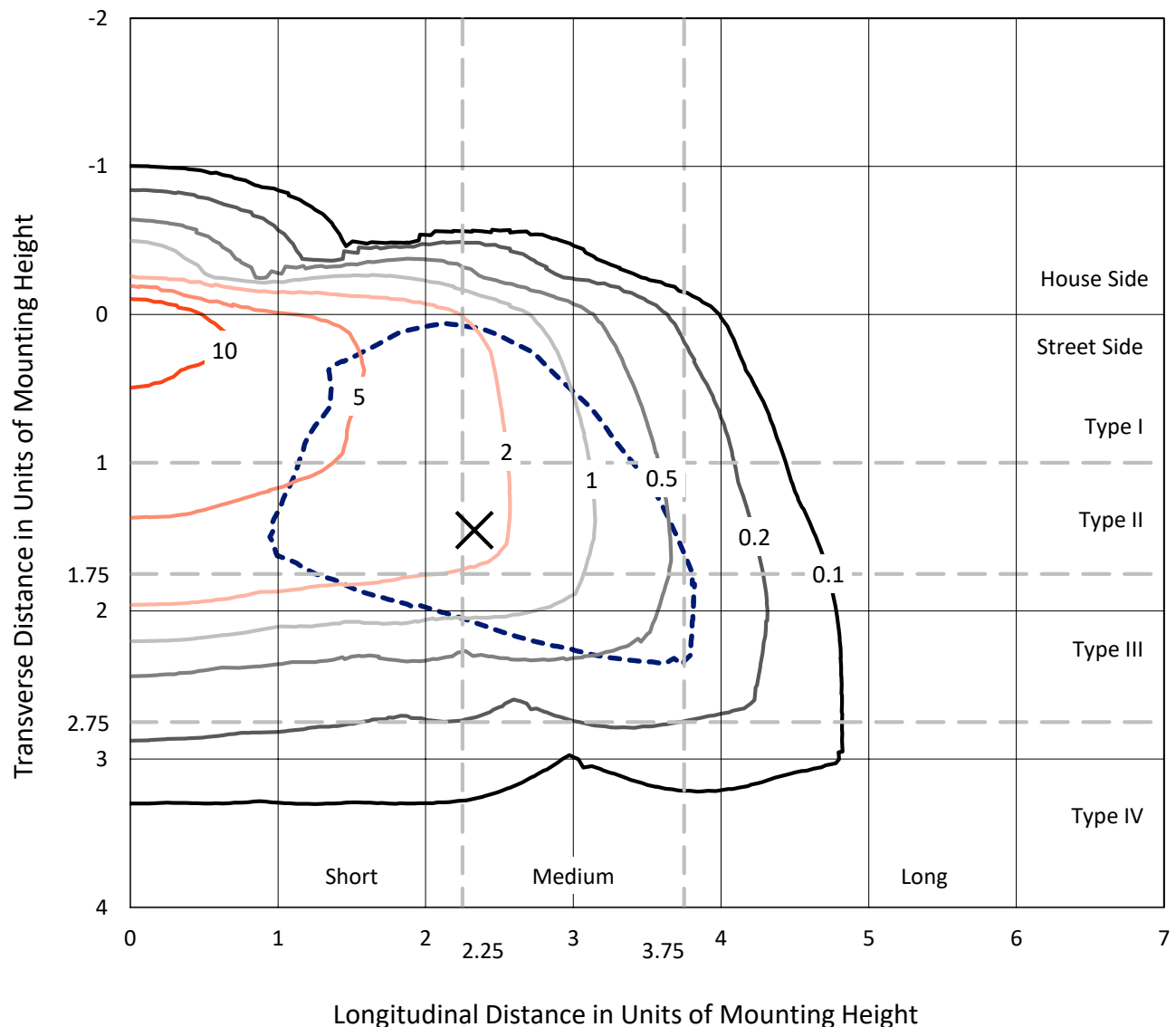
Input Watts (W): 419
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

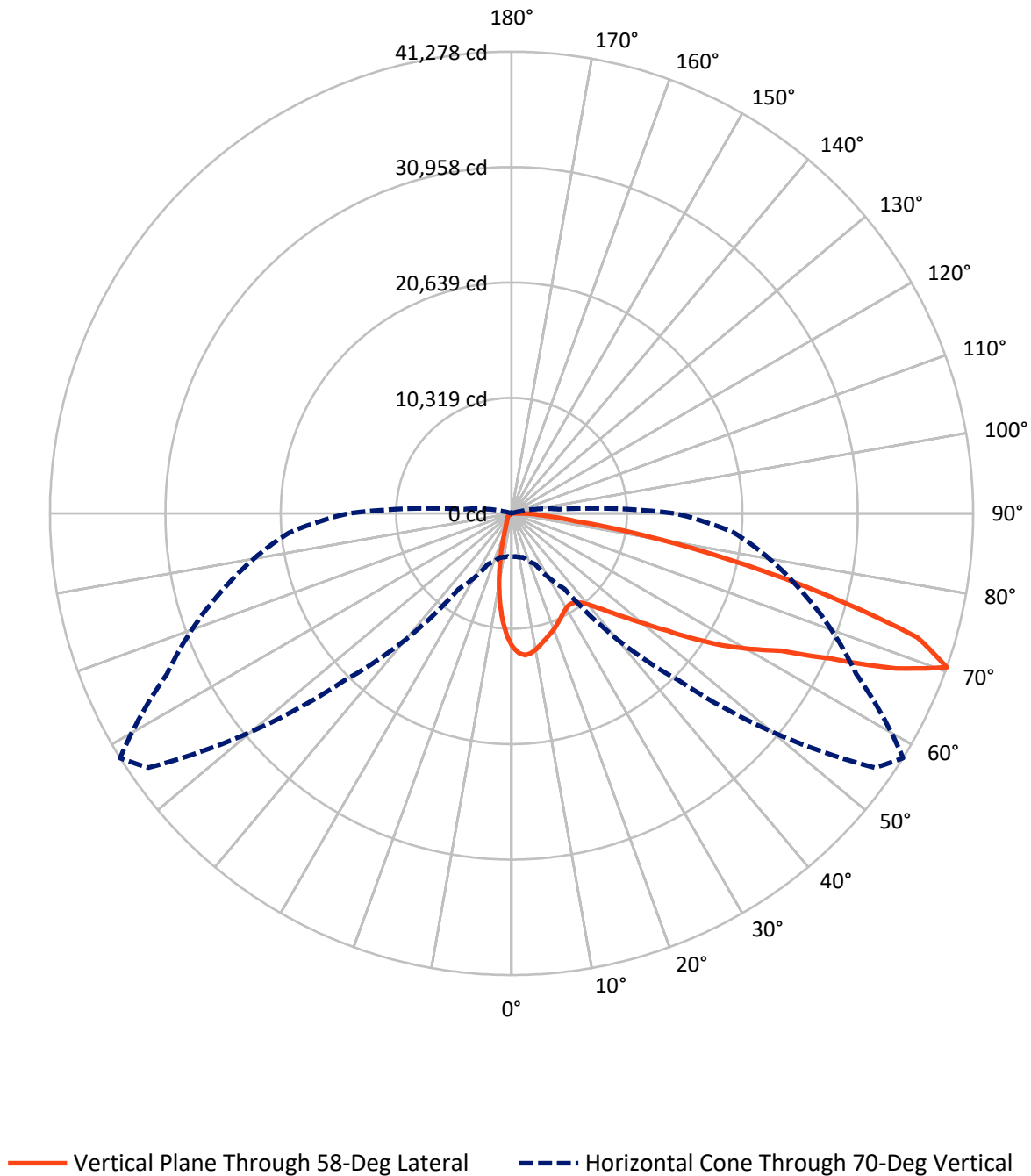
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 19.4 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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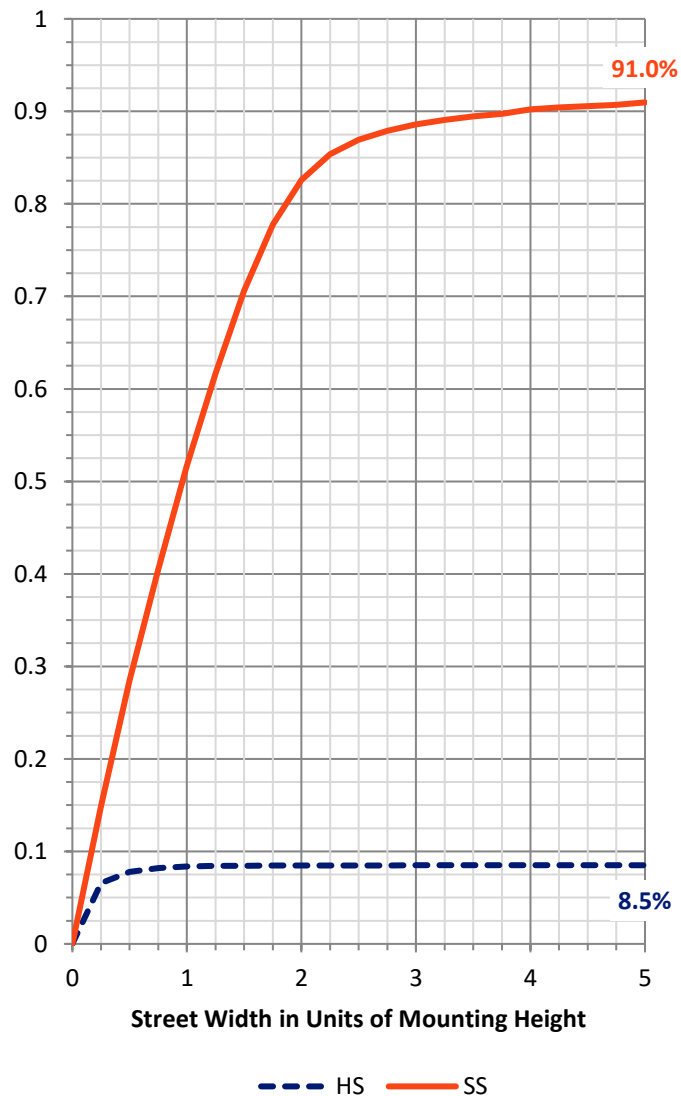
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3458.3	0.0	3458.3
	% Fixture	8.6	0.0	8.6
Street Side	Lumens	36952.7	0.0	36952.7
	% Fixture	91.4	0.0	91.4
Total	Lumens	40411.0	0.0	40411.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	976.2	2.4
10°-20°	2048.7	5.1
20°-30°	2693.4	6.7
30°-40°	3567.1	8.8
40°-50°	5331.7	13.2
50°-60°	8541.1	21.1
60°-70°	10766.0	26.6
70°-80°	5807.1	14.4
80°-90°	679.7	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°	40411.0	100.0
0°-180°	40411.0	100.0

Coefficient of Utilization



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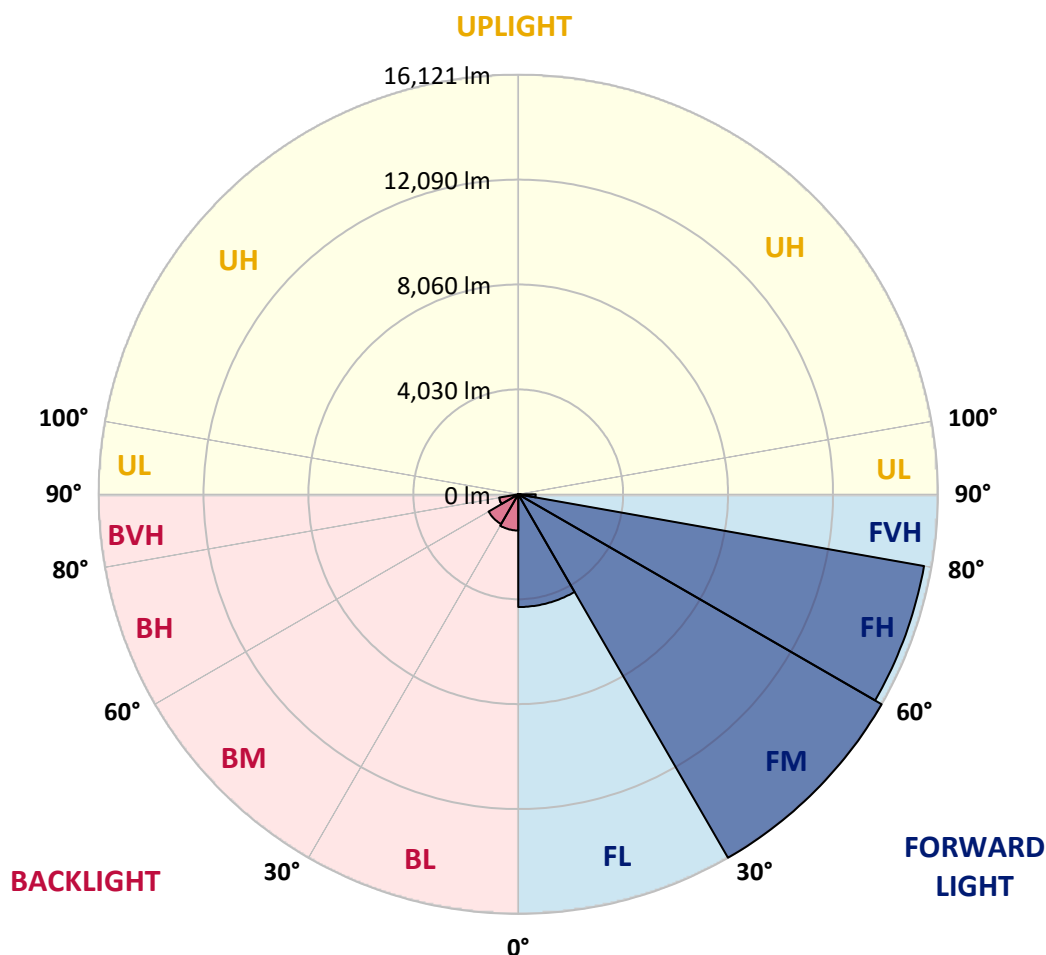
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4328.9	10.7			
FM	(30°-60°)	16120.6	39.9			
FH	(60°-80°)	15829.4	39.2			G5
FVH	(80°-90°)	673.9	1.7			G4/750
BL	(0°-30°)	1389.4	3.4	B3/2500		
BM	(30°-60°)	1319.3	3.3	B2/2500		
BH	(60°-80°)	743.7	1.8	B2/1000		G2/1000
BVH	(80°-90°)	5.9	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	11937.2	11937.2	11937.2	11937.2	11937.2	11937.2	11937.2	11937.2	11937.2	11937.2	11937.2
2.5°	12926.9	12895.0	12883.3	12863.1	12785.8	12710.2	12560.6	12518.6	12424.5	12201.0	11964.1
5°	12937.0	12935.3	12970.6	12962.2	12935.3	12900.1	12792.5	12737.1	12577.4	12258.2	11824.6
7.5°	12313.6	12345.5	12424.5	12488.4	12562.3	12658.1	12671.5	12617.8	12486.7	12142.2	11567.5
10°	11476.8	11527.2	11638.1	11764.1	11957.4	12148.9	12320.3	12313.6	12268.2	11928.8	11258.4
12.5°	10638.3	10697.1	10824.8	11011.3	11285.2	11597.8	11903.6	11945.6	12021.2	11737.3	10972.7
15°	9904.0	9954.4	10080.4	10309.0	10648.4	11068.5	11517.1	11594.4	11789.3	11587.7	10734.1
17.5°	9280.6	9312.5	9404.9	9658.7	10051.9	10561.0	11144.1	11295.3	11586.0	11470.1	10527.4
20°	8845.4	8850.4	8910.9	9089.0	9482.2	10051.9	10757.6	10974.4	11370.9	11369.3	10314.0
22.5°	8630.3	8613.5	8625.2	8727.7	9016.8	9566.2	10371.1	10628.2	11177.7	11283.6	10097.2
25°	8590.0	8576.5	8542.9	8556.4	8731.1	9141.1	9981.3	10278.7	11008.0	11231.5	9909.0
27.5°	8716.0	8729.4	8672.3	8611.8	8625.2	8865.5	9635.1	9979.6	10870.2	11231.5	9776.3
30°	8969.7	8976.4	8934.4	8855.5	8749.6	8788.2	9394.8	9739.3	10801.3	11308.8	9692.3
32.5°	9250.3	9287.3	9282.3	9218.4	9067.2	8910.9	9337.7	9651.9	10796.3	11480.2	9683.9
35°	9598.2	9640.2	9710.8	9697.3	9539.4	9282.3	9532.6	9779.6	10895.4	11762.5	9774.6
37.5°	9967.8	10031.7	10182.9	10255.2	10152.7	9862.0	9969.5	10146.0	11160.9	12219.5	10004.8
40°	10325.8	10398.0	10673.6	10957.6	10880.3	10581.2	10631.6	10772.7	11633.1	12876.5	10441.7
42.5°	10677.0	10784.5	11189.5	11656.6	11749.0	11510.4	11537.3	11649.9	12333.8	13780.6	11155.9
45°	11097.0	11218.0	11817.9	12394.3	12641.3	12537.1	12651.4	12725.3	13249.6	14975.3	12118.7
47.5°	11713.7	11853.2	12589.2	13246.2	13679.7	13747.0	13977.2	14025.9	14407.3	16366.6	13373.9
50°	12916.9	12955.5	13620.9	14217.5	14842.5	15245.8	15508.0	15544.9	15808.7	17887.3	14941.7
52.5°	14430.9	14456.1	14832.5	15232.4	15943.2	16766.5	17379.9	17432.0	17487.4	19369.4	16489.3
55°	15934.8	15931.4	16180.1	16415.4	17228.6	18425.1	19755.9	19787.8	19389.6	20775.9	17672.3
57.5°	16874.1	16964.8	17342.9	17645.4	18781.3	20315.5	22162.2	22279.8	21387.5	21817.7	18841.8
60°	16575.0	16618.7	17457.2	18576.3	20715.4	23002.3	24597.0	24627.2	22889.8	22857.8	20320.5
62.5°	14121.7	14145.2	15462.6	17769.7	21695.0	26487.4	27534.2	27041.9	24617.2	24301.2	22089.9
65°	9678.8	9831.7	10932.4	13783.9	19895.4	28673.5	32081.3	31266.3	27250.3	26381.5	23689.6
67.5°	5699.8	5667.8	6212.3	8312.7	14612.3	27221.7	37833.1	37023.2	30841.2	27774.5	23220.8
70°	3893.4	3871.5	4079.9	5032.7	8248.8	21117.0	39642.9	41277.8	34012.0	26836.9	19984.4
72.5°	2779.3	2791.1	3098.6	3910.2	5178.8	12303.5	34091.0	37960.8	33018.9	23395.5	15190.4
75°	1887.0	1919.0	2359.2	3207.8	4540.3	6259.3	24192.0	28856.7	26887.3	17003.5	8731.1
77.5°	1014.9	1050.2	1569.4	2584.4	4105.1	4348.8	15561.7	19860.1	16889.2	7643.9	2530.6
80°	423.4	443.6	734.3	1878.6	3547.2	3819.4	9156.2	12043.1	7196.9	1507.3	564.6
82.5°	183.2	193.2	305.8	1120.8	2651.6	3224.6	4847.8	5793.9	2181.1	331.0	284.0
85°	35.3	37.0	126.0	593.2	1692.1	1819.8	3142.3	3080.1	979.6	142.8	206.7
87.5°	0.0	0.0	30.2	186.5	497.4	991.4	1917.3	1893.8	332.7	68.9	77.3
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°	11937.2	11937.2	11937.2	11937.2	11937.2	11937.2	11937.2	11937.2	11937.2	11937.2	11937.2
2.5°	11843.1	11727.2	11483.5	11182.7	10952.5	10698.8	10497.2	10241.7	10130.8	10135.9	10075.4
5°	11577.6	11339.0	10799.6	10119.1	9594.8	9053.7	8588.3	8124.5	7850.6	7761.5	7677.5
7.5°	11197.9	10819.8	9959.4	8910.9	8023.7	7156.6	6402.1	5738.4	5318.3	5113.3	5037.7
10°	10769.4	10238.4	8993.2	7612.0	6345.0	5172.1	4194.2	3343.9	3004.5	2774.3	2715.4
12.5°	10393.0	9673.8	8048.9	6279.5	4775.6	3360.7	2428.1	1898.8	1668.6	1577.9	1562.7
15°	10038.4	9146.2	7139.8	5073.0	3306.9	2068.5	1544.2	1364.4	1310.7	1295.6	1295.6
17.5°	9704.0	8643.7	6250.9	3885.0	2187.8	1450.1	1278.7	1238.4	1221.6	1219.9	1221.6
20°	9354.5	8141.3	5377.1	2846.5	1527.4	1228.3	1181.3	1159.4	1154.4	1154.4	1154.4
22.5°	9020.1	7638.9	4526.9	2033.2	1225.0	1120.8	1097.3	1082.1	1077.1	1075.4	1072.1
25°	8699.2	7161.7	3696.8	1436.7	1075.4	1026.7	1006.5	986.4	971.2	962.8	957.8
27.5°	8435.4	6736.5	2923.8	1152.7	971.2	929.2	904.0	873.8	836.8	820.0	813.3
30°	8225.3	6348.4	2253.4	972.9	873.8	831.8	793.1	741.0	687.3	658.7	657.0
32.5°	8060.6	5966.9	1710.6	860.3	786.4	734.3	678.9	613.3	551.2	519.2	517.5
35°	7980.0	5630.9	1307.3	778.0	709.1	643.6	574.7	502.4	441.9	411.7	408.3
37.5°	8033.8	5346.9	1020.0	709.1	643.6	568.0	487.3	411.7	357.9	331.0	329.3
40°	8230.4	5165.4	828.4	650.3	588.1	495.7	408.3	337.8	292.4	270.5	268.9
42.5°	8648.8	5098.2	707.4	601.6	534.4	428.5	339.4	278.9	236.9	221.8	218.4
45°	9347.8	5197.3	625.1	554.5	478.9	364.6	280.6	228.5	191.6	179.8	178.1
47.5°	10278.7	5457.8	566.3	509.1	428.5	307.5	233.6	184.8	156.3	144.5	142.8
50°	11478.5	5871.1	517.5	463.8	381.4	260.5	193.2	146.2	121.0	112.6	112.6
52.5°	12784.1	6363.5	473.9	421.8	334.4	216.8	156.3	112.6	95.8	85.7	85.7
55°	13862.9	6793.7	426.8	389.8	277.3	179.8	119.3	85.7	70.6	65.5	65.5
57.5°	14940.0	7252.4	373.0	334.4	221.8	146.2	90.7	63.9	52.1	48.7	48.7
60°	16336.4	7813.6	320.9	272.2	174.8	110.9	67.2	45.4	38.6	37.0	37.0
62.5°	17872.2	8143.0	273.9	218.4	136.1	82.3	48.7	30.2	28.6	28.6	26.9
65°	18811.5	7677.5	230.2	174.8	105.9	62.2	31.9	21.8	25.2	23.5	20.2
67.5°	17613.4	6010.6	188.2	136.1	82.3	47.0	20.2	15.1	26.9	21.8	16.8
70°	14583.8	4207.6	146.2	95.8	65.5	40.3	13.4	10.1	28.6	21.8	13.4
72.5°	10913.9	2816.3	115.9	63.9	48.7	35.3	11.8	5.0	25.2	18.5	11.8
75°	5963.6	1134.2	92.4	40.3	30.2	25.2	8.4	3.4	16.8	13.4	8.4
77.5°	1569.4	299.1	67.2	26.9	16.8	10.1	5.0	1.7	8.4	6.7	3.4
80°	399.9	115.9	43.7	18.5	11.8	5.0	0.0	0.0	1.7	0.0	0.0
82.5°	213.4	48.7	26.9	13.4	6.7	0.0	0.0	0.0	0.0	0.0	0.0
85°	161.3	31.9	15.1	8.4	1.7	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	62.2	10.1	5.0	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)