

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: P324724

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P324724
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-30)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA0B-727-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 38723 lumens
Efficiency: N/A
Efficacy: 92.4 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G3

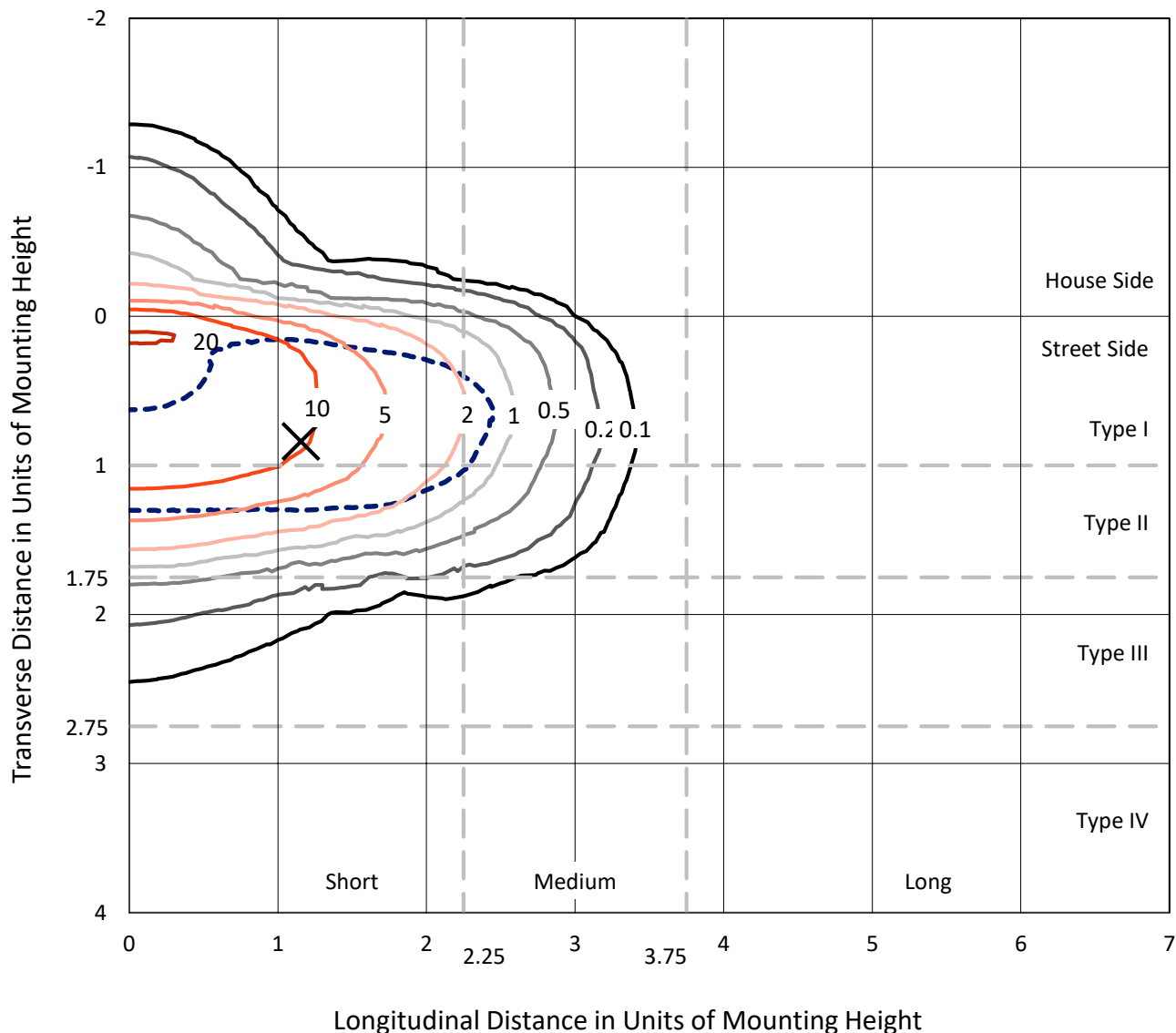
Input Watts (W): 419
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

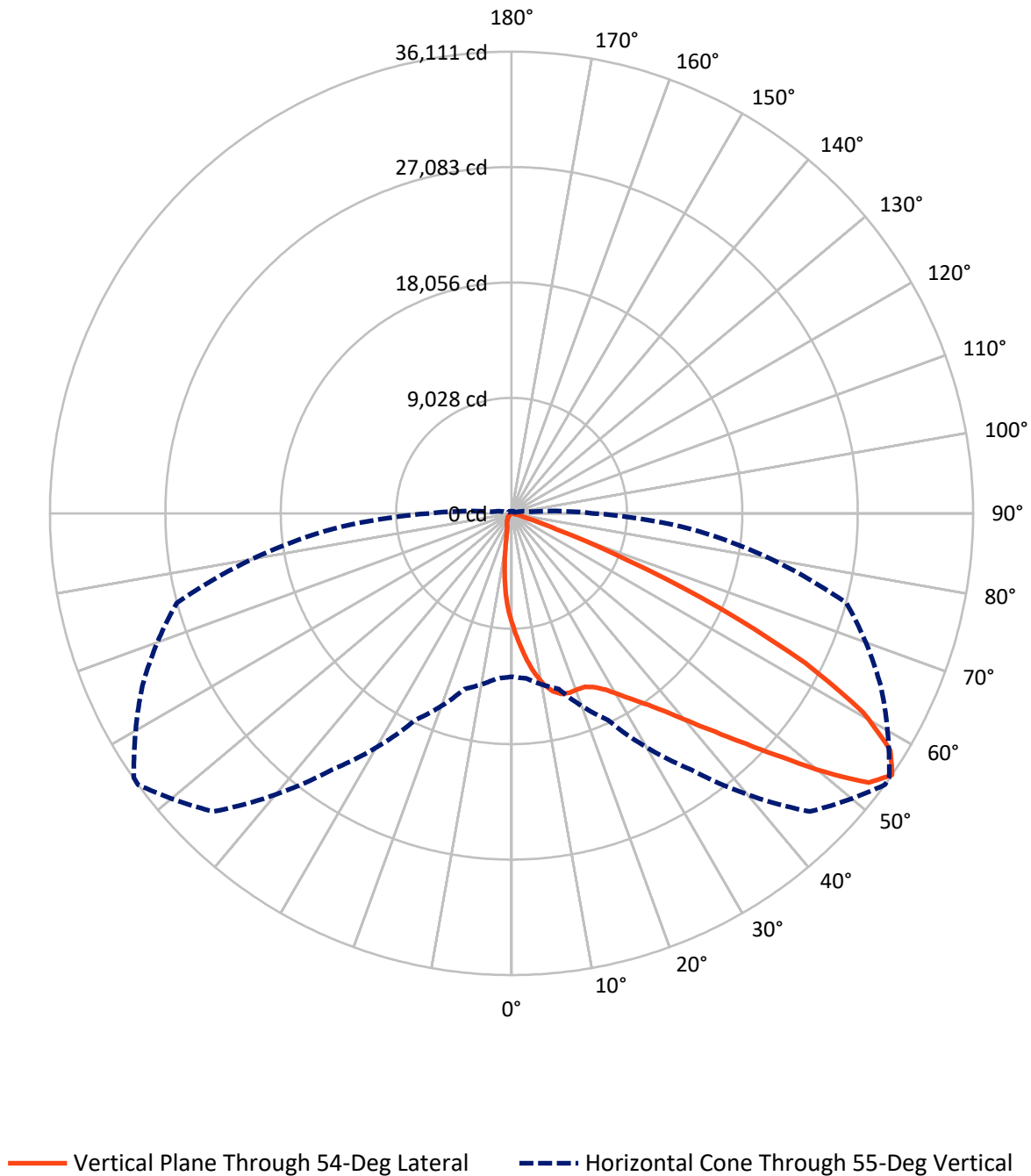
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 21.3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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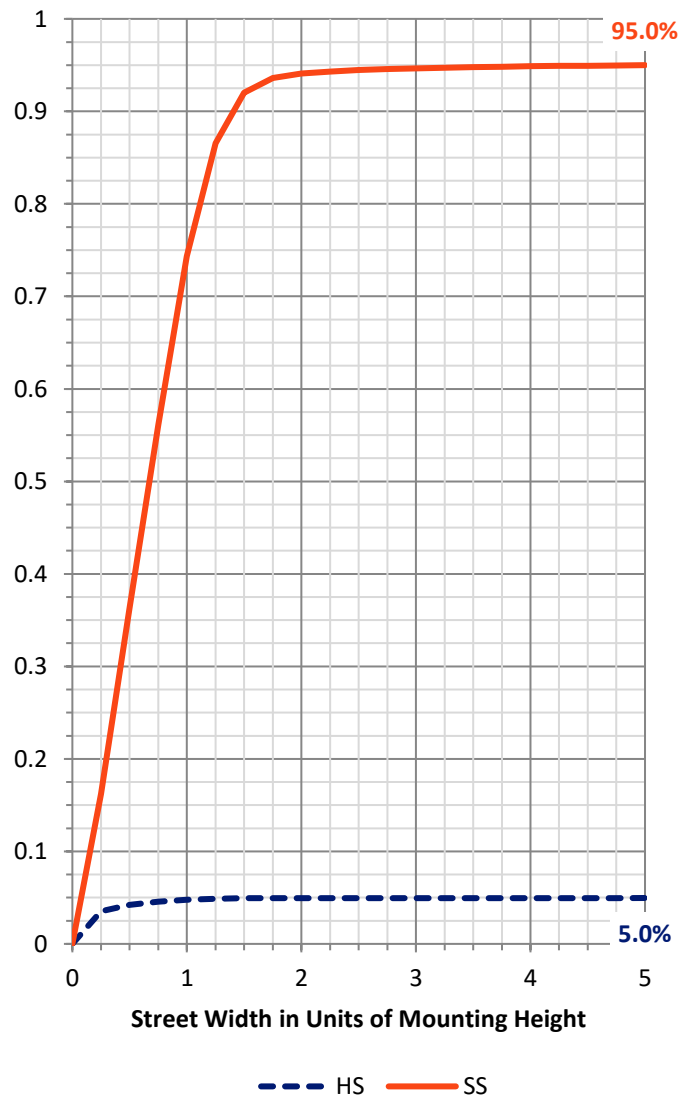
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1932.0	0.0	1932.0
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	36791.0	0.0	36791.0
	% Fixture	95.0	0.0	95.0
Total	Lumens	38723.0	0.0	38723.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	798.6	2.1
10°-20°	2190.3	5.7
20°-30°	3739.5	9.7
30°-40°	6001.3	15.5
40°-50°	9590.1	24.8
50°-60°	10276.0	26.5
60°-70°	5276.0	13.6
70°-80°	799.2	2.1
80°-90°	52.0	0.1
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°	38723.0	100.0
0°-180°	38723.0	100.0

Coefficient of Utilization



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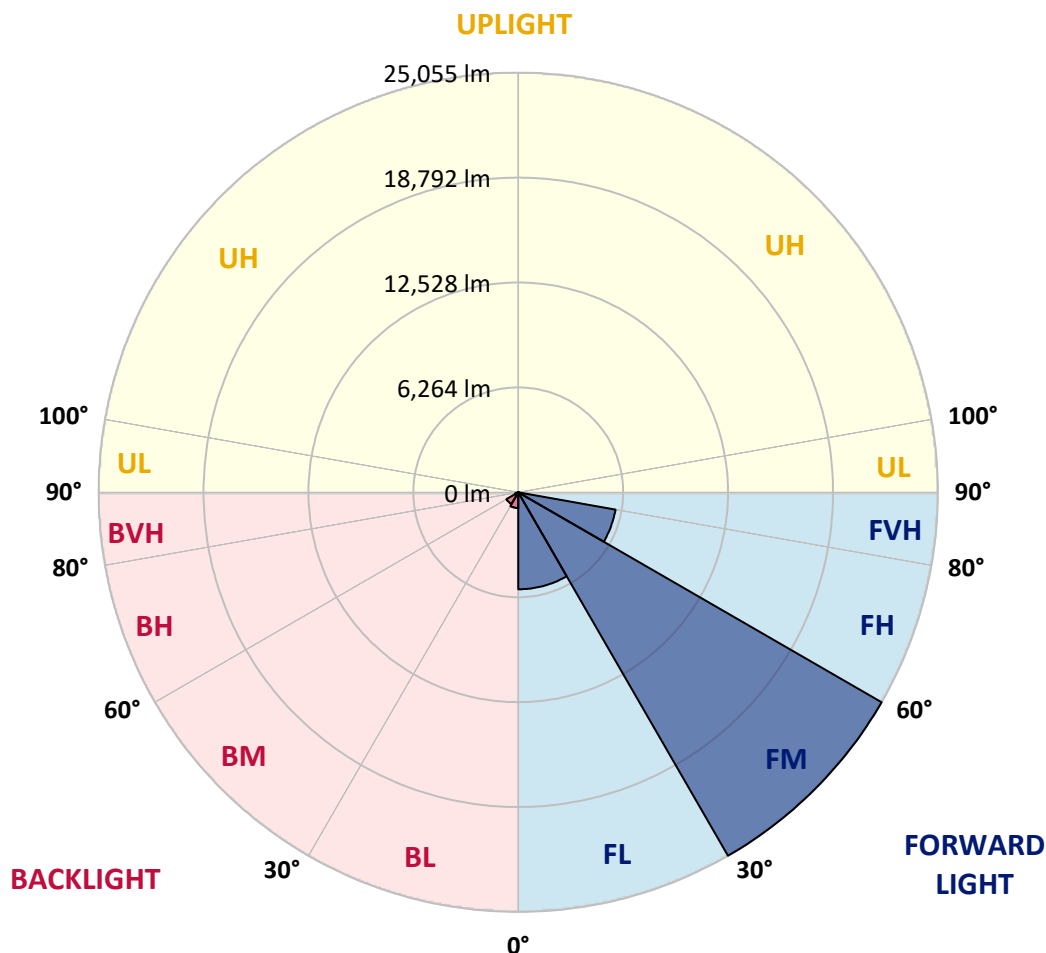
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	5788.4	14.9			
FM	(30°-60°)	25055.5	64.7			
FH	(60°-80°)	5897.2	15.2			G3/7500
FVH	(80°-90°)	49.9	0.1			G1/100
BL	(0°-30°)	940.0	2.4	B2/1000		
BM	(30°-60°)	811.9	2.1	B1/1000		
BH	(60°-80°)	178.0	0.5	B1/500		G1/500
BVH	(80°-90°)	2.1	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-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	8672.4	8672.4	8672.4	8672.4	8672.4	8672.4	8672.4	8672.4	8672.4	8672.4	8672.4
2.5°	10883.1	10720.9	10725.9	10652.4	10383.1	10172.4	9953.4	9901.5	9560.4	9202.5	8858.0
5°	12764.4	12645.7	12617.3	12475.1	12100.6	11704.2	11279.5	11180.8	10513.6	9781.1	9060.4
7.5°	13731.0	13732.7	13709.3	13657.4	13423.3	13038.7	12520.3	12416.6	11508.6	10409.9	9271.1
10°	13450.1	13513.6	13644.1	13816.3	13995.2	13946.7	13557.1	13463.5	12476.8	11075.5	9505.2
12.5°	12794.5	12802.9	12948.4	13231.0	13746.1	14274.5	14281.2	14249.4	13401.6	11771.1	9762.7
15°	12468.5	12500.2	12553.7	12736.0	13224.3	14070.5	14675.9	14721.0	14249.4	12510.3	10037.0
17.5°	12682.5	12727.7	12682.5	12704.2	12986.9	13747.7	14744.4	14859.8	14990.2	13241.0	10296.2
20°	13262.8	13304.6	13224.3	13135.7	13190.9	13654.1	14695.9	14851.4	15570.5	13889.9	10513.6
22.5°	14045.4	14062.1	13940.1	13794.6	13754.4	13971.8	14736.1	14896.6	16035.4	14476.9	10650.7
25°	14906.6	14921.7	14769.5	14602.3	14507.0	14595.6	15065.5	15185.9	16445.1	15037.1	10729.3
27.5°	15844.8	15858.1	15667.5	15461.8	15351.4	15354.8	15609.0	15737.7	16881.6	15675.9	10792.8
30°	16836.4	16829.7	16654.1	16368.2	16227.7	16224.4	16391.6	16522.0	17513.7	16495.3	10879.8
32.5°	17950.2	17936.8	17687.6	17333.1	17174.2	17197.6	17346.5	17421.7	18298.0	17368.2	11035.3
35°	19416.7	19378.3	19002.0	18562.2	18269.6	18261.2	18386.6	18446.8	19298.0	18425.1	11294.5
37.5°	21319.8	21284.7	20774.6	20135.8	19724.4	19570.6	19719.4	19796.3	20724.5	19781.3	11710.9
40°	23196.1	23161.0	22858.3	22273.0	21639.2	21269.6	21386.7	21468.6	22505.4	21426.8	12236.0
42.5°	24490.4	24520.5	24625.9	24674.4	24080.7	23304.8	23358.3	23443.6	24376.7	23186.0	12836.4
45°	24831.6	24896.8	25492.1	26661.0	26883.4	26278.1	25717.9	25764.7	26278.1	24945.3	13436.7
47.5°	23806.5	23926.9	25075.7	27249.7	29132.6	29560.7	28500.5	28438.6	28102.5	26368.4	13863.1
50°	21477.0	21587.3	23075.7	26291.4	29814.9	32694.6	31835.0	31652.7	29702.9	27219.6	14013.6
52.5°	18105.7	18239.5	19448.5	23274.7	28528.9	34092.6	34992.3	34840.1	30876.8	27286.4	14038.7
55°	12786.2	12948.4	14227.7	17838.1	24453.6	32980.5	36111.0	36065.9	31851.7	27109.2	14092.2
57.5°	7185.7	7302.8	8682.4	11435.0	17910.0	28726.3	34942.1	35241.4	32440.4	26801.5	14172.5
60°	3190.7	3222.5	3936.5	5692.4	10485.1	21953.6	31595.9	32100.9	31935.4	26390.1	14308.0
62.5°	1769.3	1742.5	1742.5	2366.3	4556.9	13590.5	25764.7	26599.1	29779.8	25903.5	14314.6
65°	1386.3	1361.2	1289.3	1299.4	1735.8	6031.9	17841.5	19324.8	25686.1	24477.0	13833.0
67.5°	1175.6	1153.9	1082.0	1053.5	1078.6	1990.0	9802.9	11343.0	19490.3	20769.6	11981.8
70°	993.3	978.3	941.5	906.4	842.8	983.3	3750.9	4797.7	12010.3	13816.3	8179.1
72.5°	799.3	792.7	806.0	775.9	699.0	655.5	1282.6	1553.5	5394.7	6165.7	3369.6
75°	689.0	685.6	692.3	662.2	575.3	456.5	652.2	712.4	1521.8	1508.4	682.3
77.5°	448.2	453.2	573.6	560.2	495.0	304.4	337.8	364.6	461.5	346.2	207.4
80°	286.0	282.6	291.0	464.9	444.8	232.4	168.9	177.3	222.4	170.6	100.3
82.5°	173.9	170.6	190.6	217.4	224.1	162.2	103.7	105.4	138.8	110.4	53.5
85°	15.1	20.1	115.4	107.0	76.9	50.2	50.2	53.5	73.6	65.2	30.1
87.5°	0.0	0.0	20.1	30.1	16.7	18.4	18.4	20.1	28.4	28.4	15.1
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°	8672.4	8672.4	8672.4	8672.4	8672.4	8672.4	8672.4	8672.4	8672.4	8672.4	8672.4
2.5°	8679.1	8505.2	8154.0	7816.2	7530.2	7254.3	6939.9	6628.9	6483.4	6424.9	6364.7
5°	8694.1	8336.3	7612.2	6883.1	6127.2	5446.6	4866.3	4271.0	3973.3	3842.9	3782.7
7.5°	8714.2	8169.0	6998.5	5774.4	4556.9	3633.8	2827.8	2309.4	2085.3	2050.2	1963.2
10°	8717.5	7966.7	6286.1	4550.2	3055.2	2190.7	1685.6	1418.1	1319.4	1302.7	1274.3
12.5°	8724.2	7727.6	5495.1	3369.6	2036.8	1464.9	1219.1	1130.5	1103.7	1102.0	1102.0
15°	8744.3	7476.7	4674.0	2428.1	1463.2	1160.6	1070.3	1035.1	1025.1	1030.1	1028.4
17.5°	8744.3	7180.7	3868.0	1809.4	1182.3	1043.5	993.3	969.9	966.6	971.6	973.3
20°	8680.8	6821.2	3128.8	1408.1	1048.5	968.2	923.1	901.4	893.0	896.3	898.0
22.5°	8528.6	6379.7	2526.8	1165.6	959.9	899.7	851.2	817.7	804.4	806.0	806.0
25°	8291.1	5856.3	1976.6	1008.4	888.0	826.1	769.2	730.8	722.4	720.7	724.1
27.5°	7986.8	5277.7	1573.6	888.0	802.7	744.2	687.3	655.5	648.8	650.5	652.2
30°	7687.4	4677.3	1240.8	786.0	707.4	652.2	608.7	593.7	593.7	598.7	600.3
32.5°	7413.2	4100.4	981.6	697.3	622.1	571.9	546.8	545.2	553.5	556.9	558.5
35°	7177.4	3567.0	812.7	628.8	555.2	511.7	503.4	510.0	520.1	526.8	528.4
37.5°	7010.2	3090.4	710.7	571.9	503.4	468.2	466.6	479.9	493.3	508.4	511.7
40°	6939.9	2687.3	640.5	521.7	461.5	434.8	429.8	448.2	473.3	495.0	498.3
42.5°	6881.4	2357.9	580.3	473.3	428.1	389.6	388.0	411.4	441.5	463.2	468.2
45°	6831.2	2093.7	525.1	421.4	384.6	334.5	339.5	369.6	393.0	416.4	421.4
47.5°	6727.5	1876.3	464.9	366.2	317.7	286.0	296.0	322.7	341.1	376.3	381.3
50°	6541.9	1699.0	403.0	299.3	259.2	247.5	262.5	280.9	304.4	334.5	337.8
52.5°	6416.5	1565.2	349.5	250.8	214.1	217.4	232.4	239.1	252.5	264.2	260.9
55°	6344.6	1491.7	306.0	217.4	182.3	192.3	195.7	187.3	180.6	168.9	163.9
57.5°	6336.2	1424.8	272.6	189.0	160.5	165.6	153.8	125.4	102.0	88.6	85.3
60°	6322.9	1342.8	245.8	158.9	142.1	135.5	110.4	68.6	48.5	45.2	45.2
62.5°	6177.4	1215.7	225.8	133.8	120.4	102.0	63.5	31.8	26.8	28.4	28.4
65°	5714.2	1038.5	205.7	108.7	95.3	73.6	31.8	18.4	10.0	11.7	11.7
67.5°	4857.9	827.8	183.9	83.6	71.9	46.8	18.4	8.4	0.0	0.0	0.0
70°	3252.6	513.4	155.5	58.5	46.8	28.4	13.4	1.7	0.0	0.0	0.0
72.5°	1247.5	277.6	125.4	35.1	30.1	20.1	8.4	0.0	0.0	0.0	0.0
75°	280.9	182.3	87.0	25.1	21.7	13.4	3.3	0.0	0.0	0.0	0.0
77.5°	107.0	132.1	50.2	16.7	15.1	8.4	0.0	0.0	0.0	0.0	0.0
80°	51.8	78.6	23.4	10.0	8.4	3.3	0.0	0.0	0.0	0.0	0.0
82.5°	26.8	30.1	10.0	5.0	3.3	0.0	0.0	0.0	0.0	0.0	0.0
85°	15.1	15.1	5.0	3.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	8.4	5.0	1.7	1.7	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)