

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: P322973

Luminaire Tested: **GAN-SA9C-760-U-T4W-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322973
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-19)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA9C-760-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 5700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 45830 lumens
Efficiency: N/A
Efficacy: 91.5 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

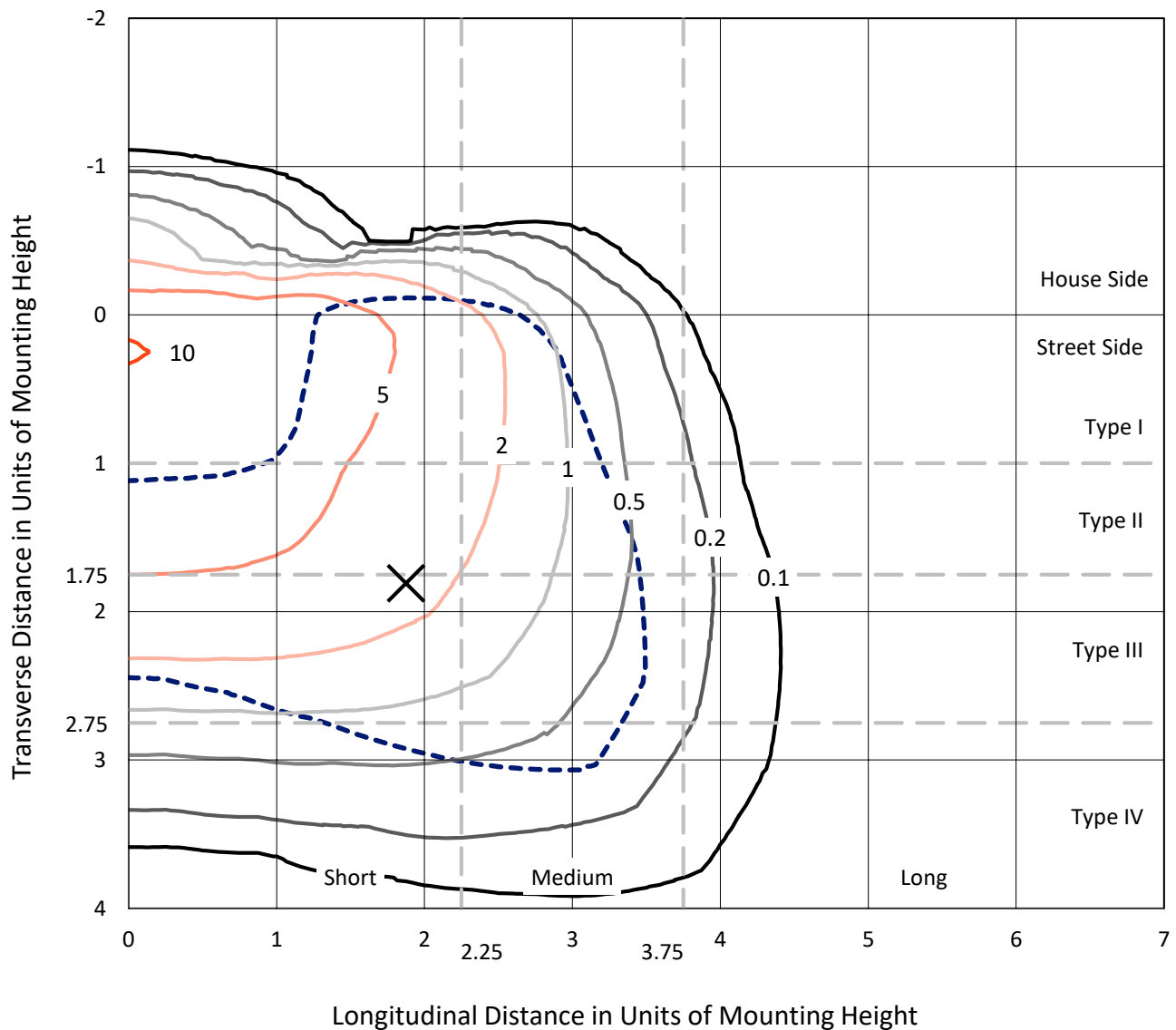
Input Watts (W): 501
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

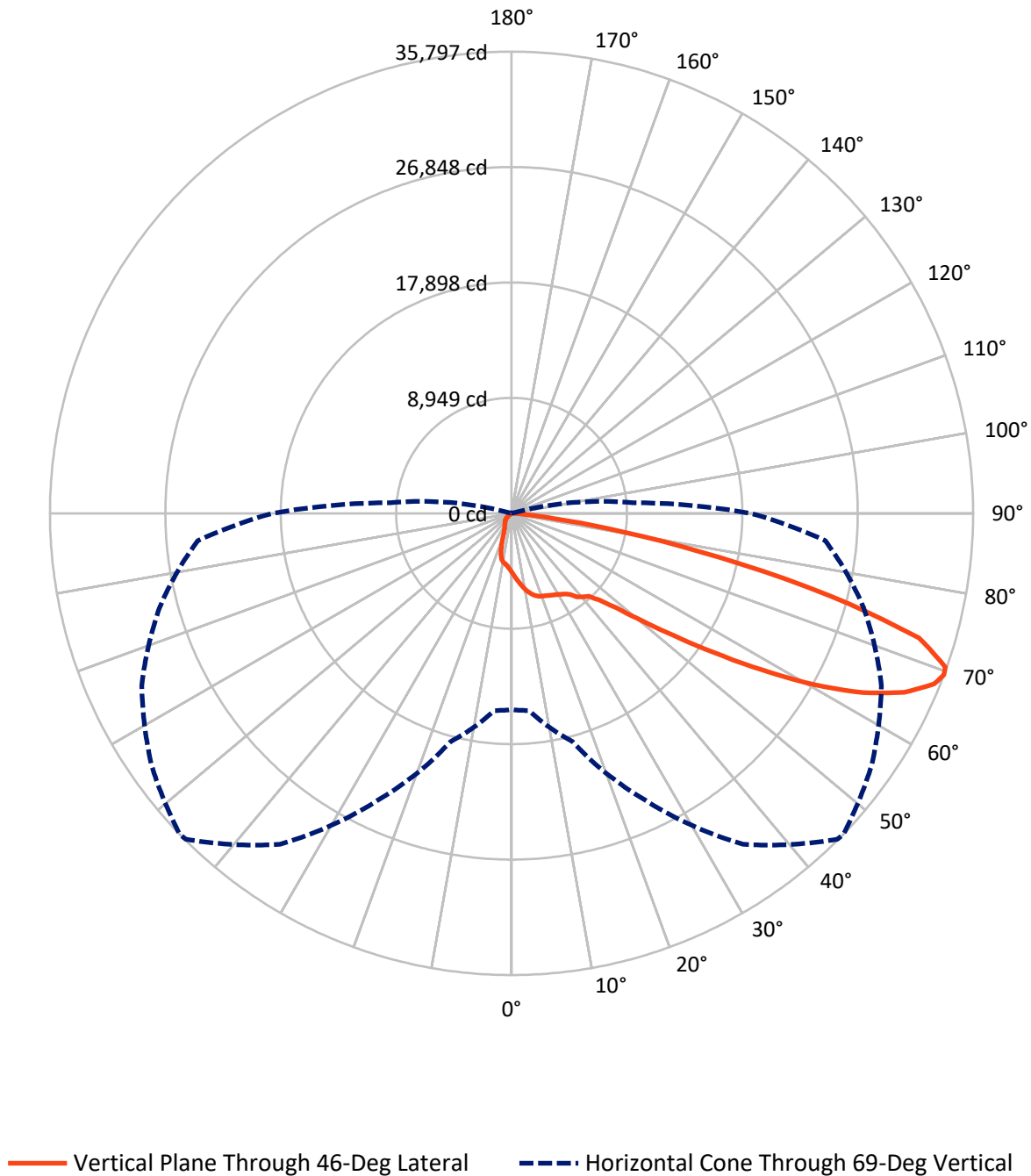
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.7 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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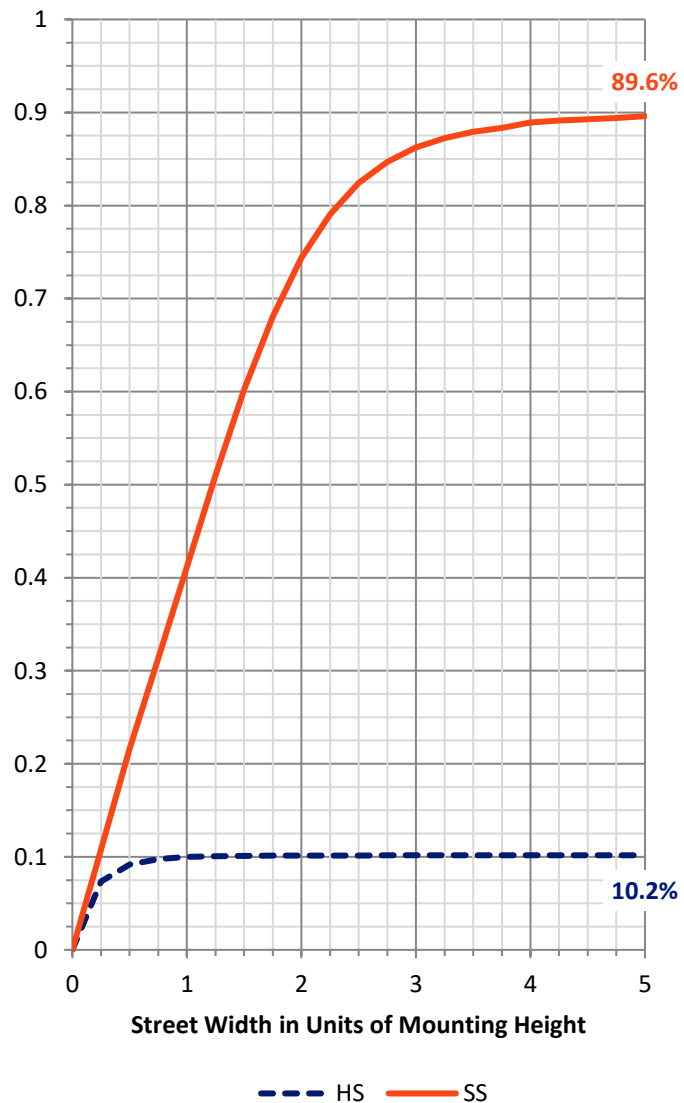
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4703.4	0.0	4703.4
	% Fixture	10.3	0.0	10.3
Street Side	Lumens	41126.6	0.0	41126.6
	% Fixture	89.7	0.0	89.7
Total	Lumens	45830.0	0.0	45830.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	457.1	1.0
10°-20°	1386.6	3.0
20°-30°	2180.7	4.8
30°-40°	3127.1	6.8
40°-50°	5404.8	11.8
50°-60°	10677.7	23.3
60°-70°	14923.1	32.6
70°-80°	7209.5	15.7
80°-90°	463.4	1.0
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°	45830.0	100.0
0°-180°	45830.0	100.0

Coefficient of Utilization



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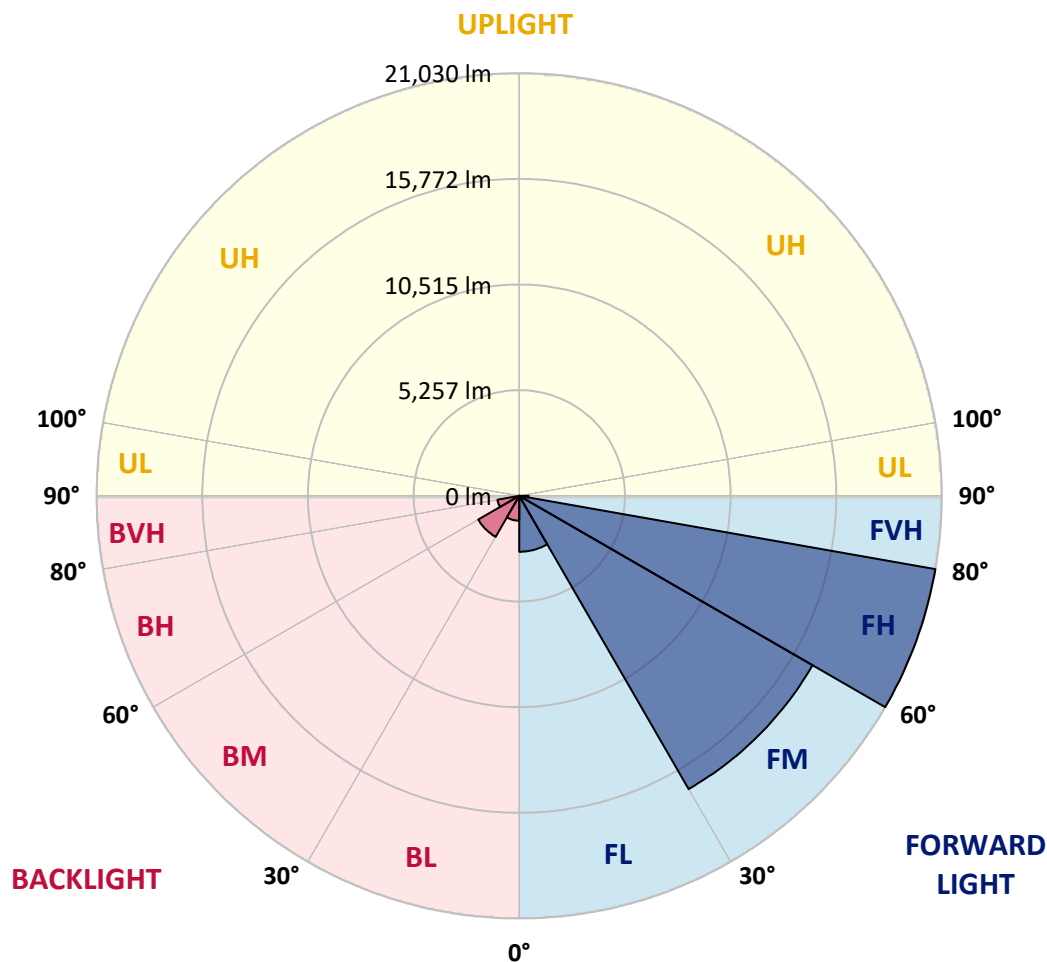
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2784.7	6.1			
FM	(30°-60°)	16852.7	36.8			
FH	(60°-80°)	21029.7	45.9			G5
FVH	(80°-90°)	459.5	1.0			G3/500
BL	(0°-30°)	1239.6	2.7	B3/2500		
BM	(30°-60°)	2357.0	5.1	B2/2500		
BH	(60°-80°)	1102.9	2.4	B3/2500		G3/2500
BVH	(80°-90°)	3.9	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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	4592.0	4592.0	4592.0	4592.0	4592.0	4592.0	4592.0	4592.0	4592.0	4592.0	4592.0
2.5°	5101.3	5094.8	5064.7	5051.8	4978.8	4935.8	4918.6	4864.9	4787.5	4710.2	4624.2
5°	5681.4	5679.3	5623.4	5569.7	5432.2	5303.2	5279.6	5155.0	4980.9	4817.6	4654.3
7.5°	6274.5	6246.6	6190.7	6087.6	5887.7	5681.4	5662.1	5485.9	5238.8	5002.4	4768.2
10°	6777.3	6760.1	6687.1	6530.2	6296.0	6061.8	6038.1	5821.1	5541.8	5251.7	4953.0
12.5°	7168.4	7155.5	7058.8	6863.3	6614.0	6371.2	6339.0	6145.6	5846.9	5522.4	5170.0
15°	7406.9	7400.5	7282.3	7073.9	6828.9	6618.3	6590.4	6420.6	6143.4	5803.9	5406.4
17.5°	7462.8	7464.9	7342.5	7131.9	6929.9	6779.5	6758.0	6629.1	6397.0	6059.6	5642.8
20°	7338.2	7364.0	7254.4	7071.7	6947.1	6867.6	6850.4	6773.0	6577.5	6259.5	5831.9
22.5°	7162.0	7174.9	7099.6	6977.2	6925.6	6940.6	6932.0	6889.1	6723.6	6431.4	6018.8
25°	7054.5	7054.5	7009.4	6906.3	6940.6	7033.0	7035.2	7026.6	6895.5	6642.0	6246.6
27.5°	7050.2	7037.3	6985.8	6908.4	7003.0	7144.8	7153.4	7211.4	7129.7	6897.7	6530.2
30°	7222.1	7207.1	7097.5	6996.5	7116.8	7269.4	7290.9	7417.7	7376.8	7174.9	6846.1
32.5°	7624.0	7570.2	7327.4	7162.0	7252.2	7434.9	7462.8	7664.8	7729.2	7516.5	7151.2
35°	8174.1	8004.3	7654.0	7475.7	7484.3	7675.5	7701.3	7997.8	8189.1	7830.2	7387.6
37.5°	8932.6	8848.8	8279.3	7802.3	7841.0	8131.1	8206.3	8528.6	8474.9	8002.1	7656.2
40°	10595.8	10464.7	9858.7	8717.7	8182.6	8500.7	8524.3	8696.2	8700.5	8391.1	8214.9
42.5°	12860.6	12806.9	12168.7	10378.7	8855.2	8747.8	8790.8	9080.8	9405.3	9211.9	9203.3
45°	15368.2	15340.3	14663.4	12583.4	10215.4	9557.9	9611.6	10000.5	10621.5	10664.5	10937.4
47.5°	17386.0	17373.1	16984.1	15043.8	12297.6	10931.0	10948.2	11360.7	12452.3	12991.7	13427.9
50°	19225.4	19287.7	18980.4	17706.1	15134.0	13081.9	13041.1	13316.1	15069.6	15952.7	16494.2
52.5°	21782.4	21870.5	21008.9	20190.2	18110.1	15750.7	15718.5	16006.4	18215.4	18877.2	18973.9
55°	24040.8	23890.4	23209.2	22972.9	21739.5	19047.0	19038.4	19292.0	21258.1	21539.6	21718.0
57.5°	25037.9	24979.8	25308.6	25850.1	25540.7	22942.8	22923.4	22730.1	23980.7	24010.7	24558.7
60°	25667.5	25738.4	26746.2	28415.8	29187.2	27135.1	27010.5	25830.8	26580.7	26514.1	27100.7
62.5°	25194.7	25334.4	27148.0	29930.7	31916.2	30794.5	30618.3	28671.5	28802.6	28572.7	29118.4
65°	22684.9	22902.0	25873.8	29644.9	33269.9	33654.6	33476.2	31179.1	30566.7	30188.6	29885.6
67.5°	18419.6	18548.5	21651.4	27158.7	32659.7	35360.7	35324.2	33377.4	31899.0	29915.7	27564.9
69°	15222.1	15348.9	18335.7	24541.5	31316.7	35726.0	35796.9	34082.2	31645.4	28256.8	24423.3
70°	12892.8	13028.2	15810.9	22298.1	29758.8	35556.3	35683.0	34015.6	30919.1	26335.7	21666.4
72.5°	6762.3	6878.3	9734.1	15361.8	24260.0	32648.9	33033.6	31140.5	26209.0	19126.5	12811.2
75°	2125.2	2191.8	3801.2	8030.1	16610.3	25386.0	25474.1	24427.6	18610.8	10520.5	5335.5
77.5°	810.1	790.8	1265.6	2958.9	8397.5	15985.0	16524.3	15265.1	9766.3	3719.6	1231.3
80°	436.2	438.4	657.5	1224.8	3592.8	8214.9	8670.4	7398.3	3470.3	1160.4	283.6
82.5°	189.1	197.7	369.6	648.9	1650.3	3029.8	3257.6	2711.8	1325.8	780.0	105.3
85°	40.8	45.1	178.4	352.4	672.6	850.9	891.8	878.9	844.5	606.0	40.8
87.5°	0.0	0.0	79.5	126.8	169.8	193.4	169.8	221.3	466.3	408.3	21.5
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°	4592.0	4592.0	4592.0	4592.0	4592.0	4592.0	4592.0	4592.0	4592.0	4592.0	4592.0
2.5°	4596.3	4557.6	4491.0	4417.9	4366.4	4312.7	4269.7	4250.3	4228.8	4213.8	4233.1
5°	4587.7	4512.5	4383.6	4258.9	4168.7	4095.6	4035.5	4011.8	3988.2	3971.0	3968.8
7.5°	4662.9	4557.6	4359.9	4177.3	4037.6	3938.8	3857.1	3822.7	3794.8	3781.9	3771.2
10°	4806.9	4671.5	4407.2	4168.7	3988.2	3820.6	3644.4	3509.0	3420.9	3380.1	3365.0
12.5°	4993.8	4824.1	4497.4	4213.8	3951.7	3629.3	3255.4	2933.1	2724.7	2655.9	2615.1
15°	5213.0	5002.4	4615.6	4271.8	3818.4	3229.7	2595.8	2174.6	1981.2	1942.5	1899.5
17.5°	5423.6	5191.5	4757.5	4282.6	3526.2	2580.7	1901.7	1615.9	1540.7	1566.5	1572.9
20°	5608.4	5378.5	4897.1	4188.0	2995.4	1936.1	1471.9	1401.0	1429.0	1478.4	1487.0
22.5°	5795.3	5559.0	5026.1	3938.8	2316.4	1469.8	1325.8	1343.0	1370.9	1420.4	1429.0
25°	6023.1	5778.1	5146.4	3481.1	1738.4	1250.6	1259.2	1285.0	1312.9	1358.0	1362.3
27.5°	6285.3	6055.3	5225.9	2885.8	1289.3	1149.6	1177.5	1216.2	1244.2	1287.1	1295.7
30°	6633.4	6420.6	5251.7	2269.1	1080.8	1059.4	1072.3	1119.5	1160.4	1199.0	1205.5
32.5°	6960.0	6781.6	5165.7	1712.6	1001.3	975.6	975.6	1003.5	1050.8	1087.3	1095.9
35°	7260.8	7144.8	4890.7	1252.8	941.2	898.2	876.7	876.7	906.8	936.9	945.5
37.5°	7658.3	7654.0	4445.9	999.2	883.2	833.7	788.6	754.2	743.5	749.9	754.2
40°	8339.5	8346.0	3865.7	896.1	833.7	767.1	698.4	636.0	578.0	558.7	556.5
42.5°	9403.2	9306.5	3257.6	846.6	790.8	698.4	595.2	511.4	421.2	393.2	391.1
45°	11092.1	10518.4	2612.9	801.5	745.6	621.0	492.1	378.2	305.1	283.6	283.6
47.5°	13552.5	12110.7	2024.2	752.1	685.5	532.9	371.7	272.9	223.5	212.7	214.9
50°	16096.7	13670.7	1551.4	689.8	612.4	440.5	275.0	197.7	169.8	169.8	171.9
52.5°	18352.9	14813.9	1209.8	623.2	522.2	346.0	208.4	154.7	141.8	139.7	141.8
55°	20465.2	15550.9	926.1	545.8	414.7	257.9	159.0	126.8	118.2	113.9	111.7
57.5°	22502.3	15916.2	694.1	440.5	300.8	186.9	126.8	107.4	98.8	92.4	90.2
60°	23858.2	15619.7	477.0	324.5	208.4	135.4	105.3	92.4	81.7	75.2	73.1
62.5°	24623.1	14809.6	307.3	234.2	148.3	101.0	83.8	77.4	62.3	55.9	55.9
65°	24313.7	13473.0	214.9	167.6	107.4	75.2	62.3	62.3	45.1	36.5	34.4
67.5°	21546.1	11382.2	163.3	124.6	77.4	55.9	47.3	53.7	27.9	17.2	17.2
69°	18537.7	9433.3	139.7	103.1	64.5	45.1	40.8	49.4	19.3	12.9	10.7
70°	16111.7	8137.5	126.8	90.2	53.7	38.7	36.5	47.3	19.3	10.7	8.6
72.5°	9639.5	4538.3	96.7	64.5	34.4	30.1	30.1	53.7	19.3	10.7	8.6
75°	3895.8	1598.7	70.9	45.1	25.8	25.8	36.5	68.8	17.2	8.6	6.4
77.5°	883.2	350.3	40.8	27.9	17.2	25.8	43.0	53.7	10.7	4.3	0.0
80°	214.9	86.0	25.8	17.2	10.7	19.3	32.2	30.1	2.1	0.0	0.0
82.5°	70.9	30.1	10.7	8.6	2.1	6.4	15.0	8.6	0.0	0.0	0.0
85°	30.1	17.2	4.3	2.1	0.0	0.0	2.1	0.0	0.0	0.0	0.0
87.5°	19.3	6.4	0.0	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)