

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: P324892

Luminaire Tested: **GAN-SA8C-760-U-AFL-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P324892
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-SA8C-760-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 5700K, 1050mA 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: 46405 lumens
Efficiency: N/A
Efficacy: 104.3 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

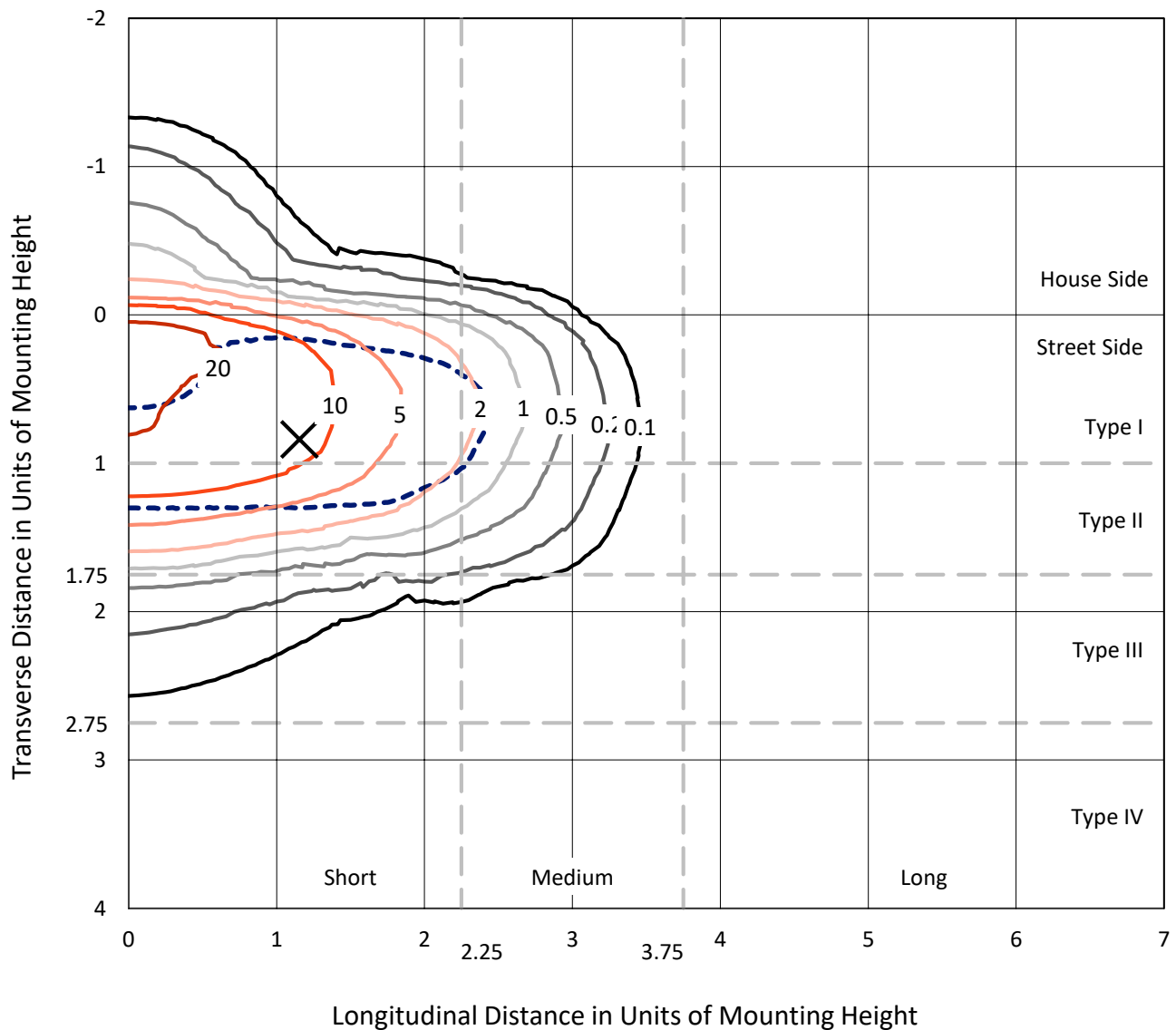
Input Watts (W): 445
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

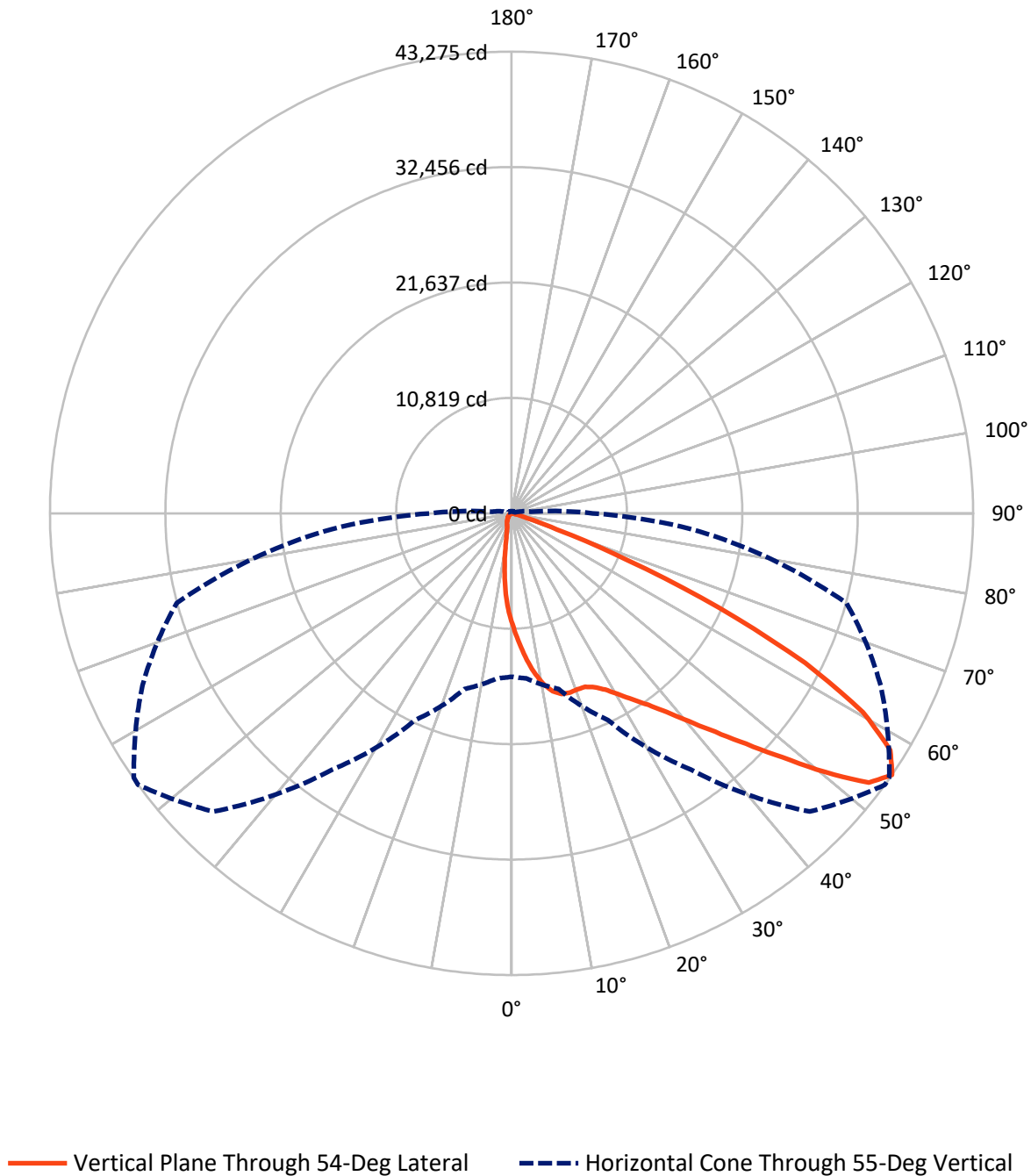
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 25.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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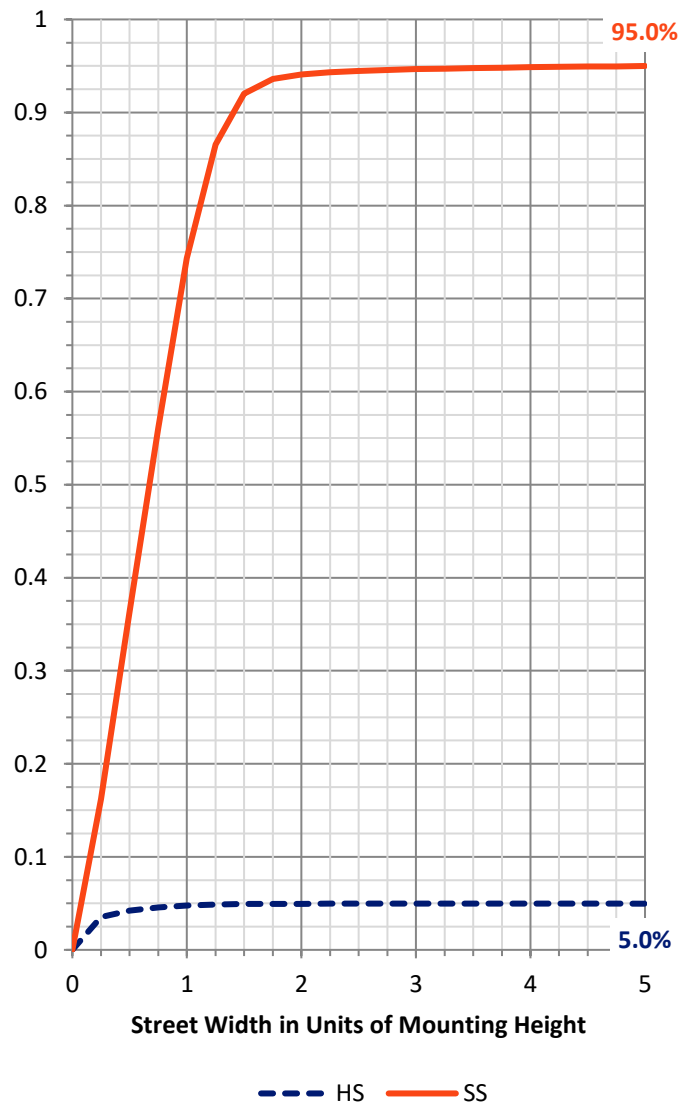
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2315.3	0.0	2315.3
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	44089.7	0.0	44089.7
	% Fixture	95.0	0.0	95.0
Total	Lumens	46405.0	0.0	46405.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	957.1	2.1
10°-20°	2624.8	5.7
20°-30°	4481.4	9.7
30°-40°	7191.8	15.5
40°-50°	11492.6	24.8
50°-60°	12314.6	26.5
60°-70°	6322.7	13.6
70°-80°	957.7	2.1
80°-90°	62.4	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°	46405.0	100.0
0°-180°	46405.0	100.0

Coefficient of Utilization



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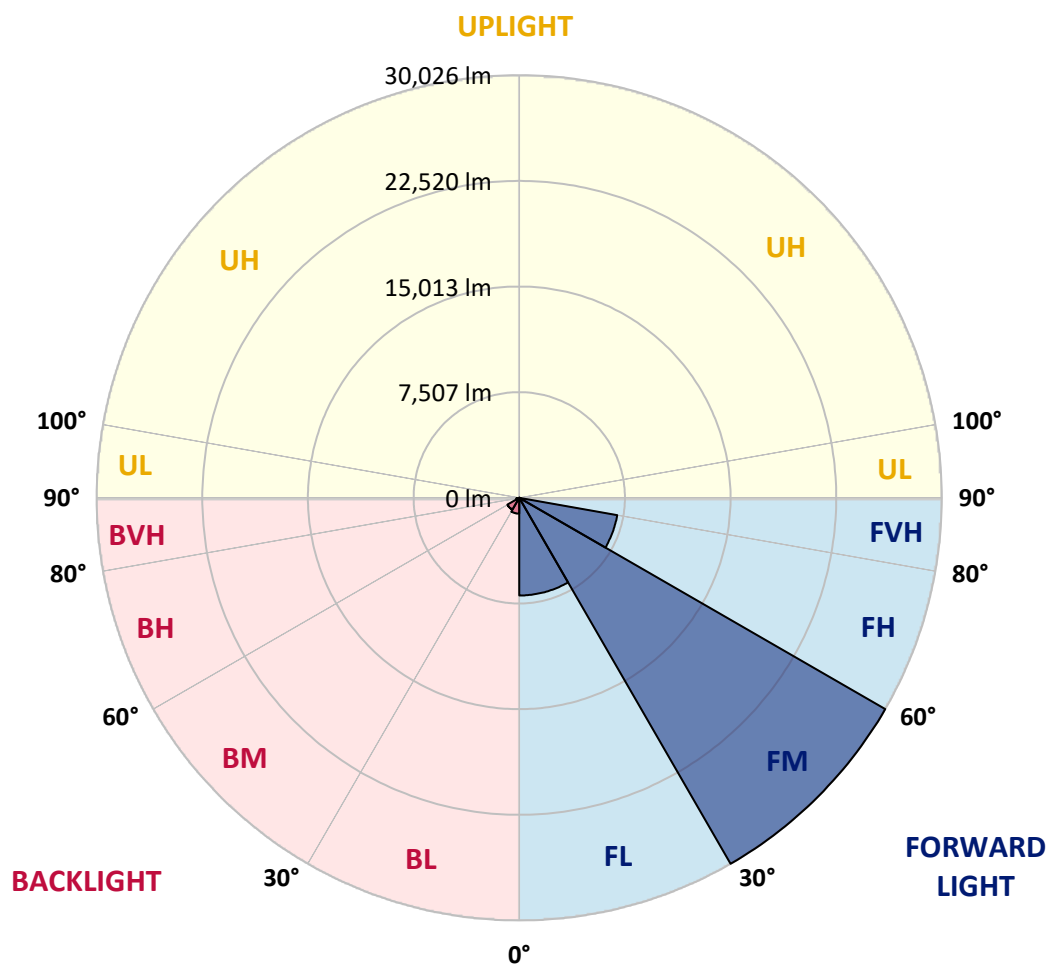
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	6936.7	14.9			
FM	(30°-60°)	30026.1	64.7			
FH	(60°-80°)	7067.1	15.2			G3/7500
FVH	(80°-90°)	59.9	0.1			G1/100
BL	(0°-30°)	1126.5	2.4	B3/2500		
BM	(30°-60°)	972.9	2.1	B1/1000		
BH	(60°-80°)	213.4	0.5	B1/500		G1/500
BVH	(80°-90°)	2.5	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-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	10392.9	10392.9	10392.9	10392.9	10392.9	10392.9	10392.9	10392.9	10392.9	10392.9	10392.9
2.5°	13042.2	12847.8	12853.8	12765.6	12443.0	12190.5	11927.9	11865.8	11457.0	11028.1	10615.3
5°	15296.7	15154.4	15120.3	14950.0	14501.1	14026.1	13517.1	13398.9	12599.3	11721.5	10857.8
7.5°	16455.0	16457.0	16429.0	16366.8	16086.3	15625.4	15004.1	14879.9	13791.7	12475.0	11110.3
10°	16118.3	16194.5	16350.8	16557.2	16771.7	16713.5	16246.6	16134.4	14952.0	13272.6	11390.9
12.5°	15332.8	15342.8	15517.1	15855.8	16473.1	17106.3	17114.3	17076.3	16060.2	14106.3	11699.5
15°	14942.0	14980.1	15044.2	15262.6	15847.8	16861.8	17587.3	17641.4	17076.3	14992.1	12028.1
17.5°	15198.5	15252.6	15198.5	15224.6	15563.2	16475.1	17669.5	17807.7	17964.1	15867.8	12338.8
20°	15893.9	15944.0	15847.8	15741.6	15807.7	16362.8	17611.3	17797.7	18659.4	16645.4	12599.3
22.5°	16831.8	16851.8	16705.5	16531.2	16483.1	16743.6	17659.4	17851.8	19216.6	17348.8	12763.6
25°	17863.9	17881.9	17699.5	17499.1	17384.9	17491.1	18054.2	18198.5	19707.6	18020.2	12857.8
27.5°	18988.1	19004.1	18775.7	18529.2	18396.9	18400.9	18705.5	18859.9	20230.6	18785.7	12934.0
30°	20176.5	20168.5	19958.1	19615.4	19447.0	19443.0	19643.4	19799.7	20988.1	19767.7	13038.2
32.5°	21511.2	21495.1	21196.5	20771.7	20581.3	20609.4	20787.7	20877.9	21928.0	20813.8	13224.5
35°	23268.7	23222.6	22771.7	22244.6	21893.9	21883.9	22034.2	22106.4	23126.4	22080.3	13535.2
37.5°	25549.3	25507.2	24896.0	24130.4	23637.4	23453.1	23631.4	23723.6	24835.8	23705.6	14034.2
40°	27797.8	27755.7	27393.0	26691.6	25932.0	25489.2	25629.4	25727.6	26970.1	25677.5	14663.4
42.5°	29348.9	29385.0	29511.2	29569.3	28857.9	27928.0	27992.2	28094.4	29212.6	27785.8	15382.9
45°	29757.7	29835.9	30549.3	31950.1	32216.7	31491.2	30819.9	30876.0	31491.2	29894.0	16102.3
47.5°	28529.3	28673.5	30050.3	32655.5	34912.1	35425.1	34154.5	34080.4	33677.6	31599.4	16613.3
50°	25737.7	25869.9	27653.5	31507.2	35729.7	39180.6	38150.6	37932.1	35595.4	32619.5	16793.7
52.5°	21697.5	21857.9	23306.8	27892.0	34188.6	40856.0	41934.2	41751.8	37002.3	32699.6	16823.8
55°	15322.8	15517.1	17050.2	21376.9	29304.8	39523.3	43274.8	43220.7	38170.6	32487.2	16887.9
57.5°	8611.3	8751.6	10404.9	13703.5	21463.1	34425.1	41874.0	42232.8	38876.0	32118.5	16984.1
60°	3823.7	3861.8	4717.5	6821.7	12565.2	26308.8	37864.0	38469.2	38270.8	31625.5	17146.4
62.5°	2120.3	2088.2	2088.2	2835.7	5461.0	16286.7	30876.0	31876.0	35687.6	31042.3	17154.4
65°	1661.3	1631.3	1545.1	1557.1	2080.2	7228.5	21380.9	23158.5	30781.8	29332.9	16577.3
67.5°	1408.8	1382.8	1296.6	1262.5	1292.6	2384.8	11747.6	13593.3	23356.9	24890.0	14358.8
70°	1190.4	1172.4	1128.3	1086.2	1010.0	1178.4	4495.0	5749.5	14392.9	16557.2	9801.7
72.5°	957.9	949.9	965.9	929.9	837.7	785.6	1537.1	1861.7	6465.0	7388.8	4038.1
75°	825.7	821.6	829.7	793.6	689.4	547.1	781.6	853.7	1823.7	1807.6	817.6
77.5°	537.1	543.1	687.4	671.3	593.2	364.7	404.8	436.9	553.1	414.8	248.5
80°	342.7	338.7	348.7	557.1	533.1	278.6	202.4	212.4	266.5	204.4	120.2
82.5°	208.4	204.4	228.5	260.5	268.5	194.4	124.2	126.3	166.3	132.3	64.1
85°	18.0	24.0	138.3	128.3	92.2	60.1	60.1	64.1	88.2	78.2	36.1
87.5°	0.0	0.0	24.0	36.1	20.0	22.0	22.0	24.0	34.1	34.1	18.0
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°	10392.9	10392.9	10392.9	10392.9	10392.9	10392.9	10392.9	10392.9	10392.9	10392.9	10392.9
2.5°	10400.9	10192.5	9771.6	9366.8	9024.1	8693.4	8316.7	7943.9	7769.6	7699.5	7627.3
5°	10418.9	9990.0	9122.3	8248.6	7342.7	6527.1	5831.7	5118.3	4761.6	4605.2	4533.1
7.5°	10443.0	9789.6	8386.8	6919.9	5461.0	4354.7	3388.8	2767.6	2499.0	2456.9	2352.7
10°	10447.0	9547.2	7533.1	5452.9	3661.3	2625.3	2020.1	1699.4	1581.2	1561.1	1527.1
12.5°	10455.0	9260.6	6585.2	4038.1	2440.9	1755.5	1460.9	1354.7	1322.7	1320.7	1320.7
15°	10479.0	8960.0	5601.2	2909.8	1753.5	1390.8	1282.6	1240.5	1228.5	1234.5	1232.5
17.5°	10479.0	8605.3	4635.3	2168.4	1416.8	1250.5	1190.4	1162.3	1158.3	1164.3	1166.3
20°	10402.9	8174.4	3749.5	1687.4	1256.5	1160.3	1106.2	1080.2	1070.1	1074.2	1076.2
22.5°	10220.5	7645.3	3028.1	1396.8	1150.3	1078.2	1020.0	980.0	963.9	965.9	965.9
25°	9935.9	7018.1	2368.8	1208.4	1064.1	990.0	921.9	875.8	865.7	863.7	867.7
27.5°	9571.2	6324.7	1885.8	1064.1	961.9	891.8	823.7	785.6	777.6	779.6	781.6
30°	9212.5	5605.2	1487.0	941.9	847.7	781.6	729.5	711.4	711.4	717.4	719.4
32.5°	8883.8	4913.9	1176.4	835.7	745.5	685.4	655.3	653.3	663.3	667.3	669.3
35°	8601.3	4274.6	974.0	753.5	665.3	613.2	603.2	611.2	623.3	631.3	633.3
37.5°	8400.9	3703.4	851.7	685.4	603.2	561.1	559.1	575.2	591.2	609.2	613.2
40°	8316.7	3220.5	767.5	625.3	553.1	521.0	515.0	537.1	567.1	593.2	597.2
42.5°	8246.6	2825.7	695.4	567.1	513.0	466.9	464.9	493.0	529.1	555.1	561.1
45°	8186.4	2509.0	629.3	505.0	460.9	400.8	406.8	442.9	470.9	499.0	505.0
47.5°	8062.2	2248.5	557.1	438.9	380.8	342.7	354.7	386.8	408.8	450.9	456.9
50°	7839.7	2036.1	483.0	358.7	310.6	296.6	314.6	336.7	364.7	400.8	404.8
52.5°	7689.4	1875.8	418.8	300.6	256.5	260.5	278.6	286.6	302.6	316.6	312.6
55°	7603.3	1787.6	366.7	260.5	218.4	230.5	234.5	224.5	216.4	202.4	196.4
57.5°	7593.2	1707.4	326.7	226.5	192.4	198.4	184.4	150.3	122.2	106.2	102.2
60°	7577.2	1609.2	294.6	190.4	170.3	162.3	132.3	82.2	58.1	54.1	54.1
62.5°	7402.9	1456.9	270.5	160.3	144.3	122.2	76.2	38.1	32.1	34.1	34.1
65°	6847.7	1244.5	246.5	130.3	114.2	88.2	38.1	22.0	12.0	14.0	14.0
67.5°	5821.7	992.0	220.4	100.2	86.2	56.1	22.0	10.0	0.0	0.0	0.0
70°	3897.8	615.2	186.4	70.1	56.1	34.1	16.0	2.0	0.0	0.0	0.0
72.5°	1495.0	332.7	150.3	42.1	36.1	24.0	10.0	0.0	0.0	0.0	0.0
75°	336.7	218.4	104.2	30.1	26.1	16.0	4.0	0.0	0.0	0.0	0.0
77.5°	128.3	158.3	60.1	20.0	18.0	10.0	0.0	0.0	0.0	0.0	0.0
80°	62.1	94.2	28.1	12.0	10.0	4.0	0.0	0.0	0.0	0.0	0.0
82.5°	32.1	36.1	12.0	6.0	4.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	18.0	18.0	6.0	4.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	10.0	6.0	2.0	2.0	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)