

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: P324913

Luminaire Tested: **GAN-SA9A-827-U-AFL-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P324913
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-SA9A-827-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 2700K, 615mA 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: 25072 lumens
Efficiency: N/A
Efficacy: 86.5 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

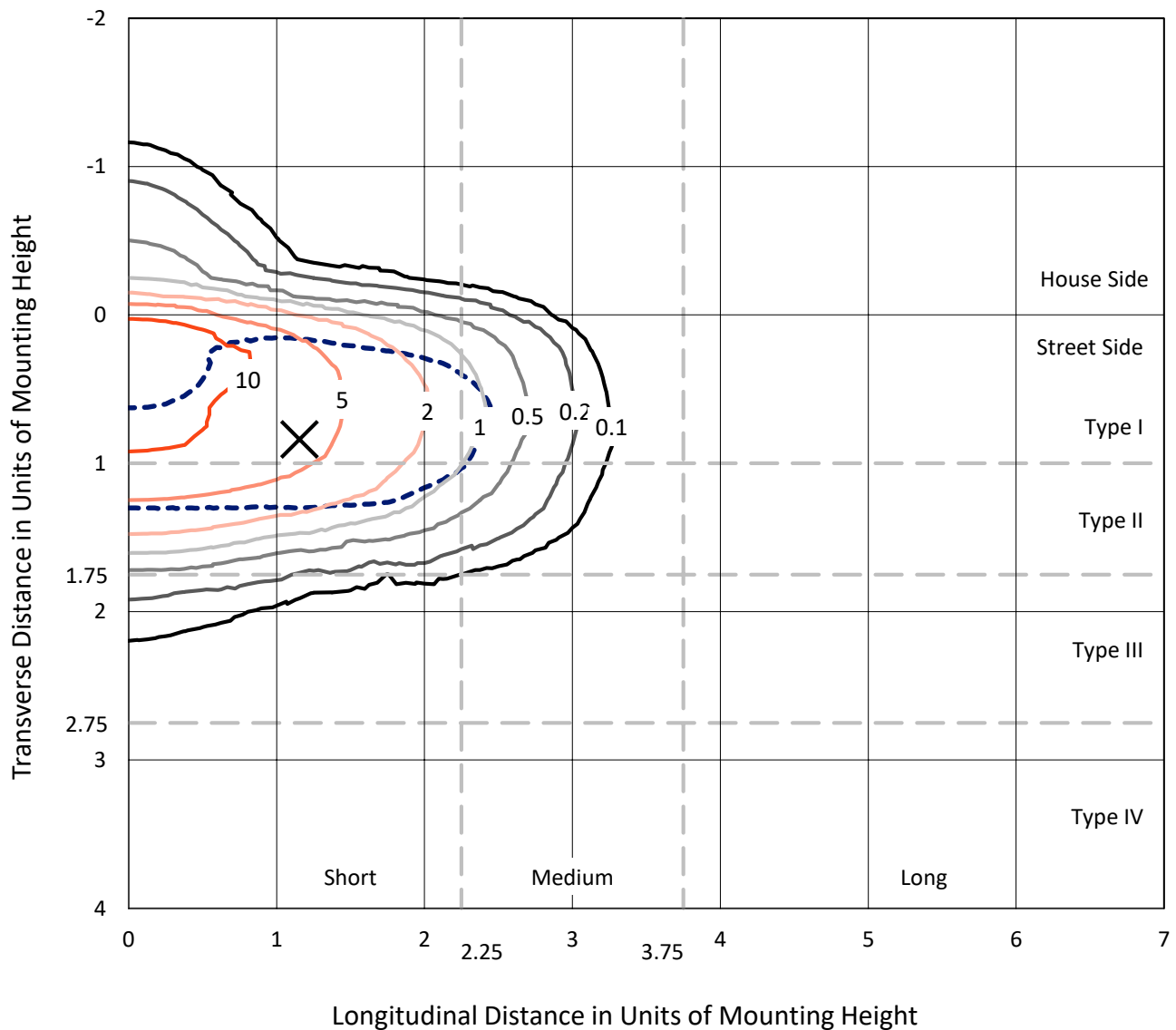
Input Watts (W): 290
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

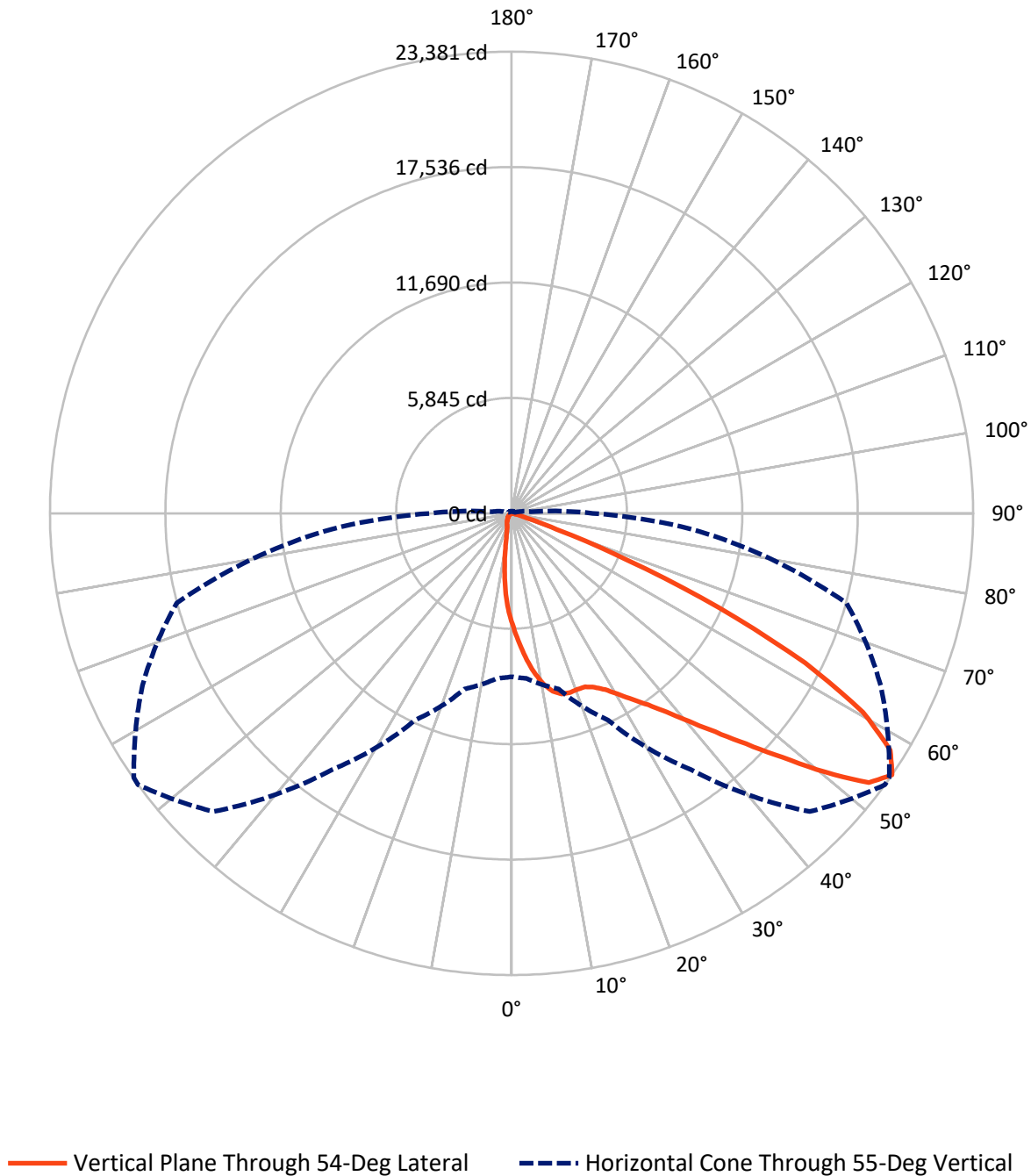
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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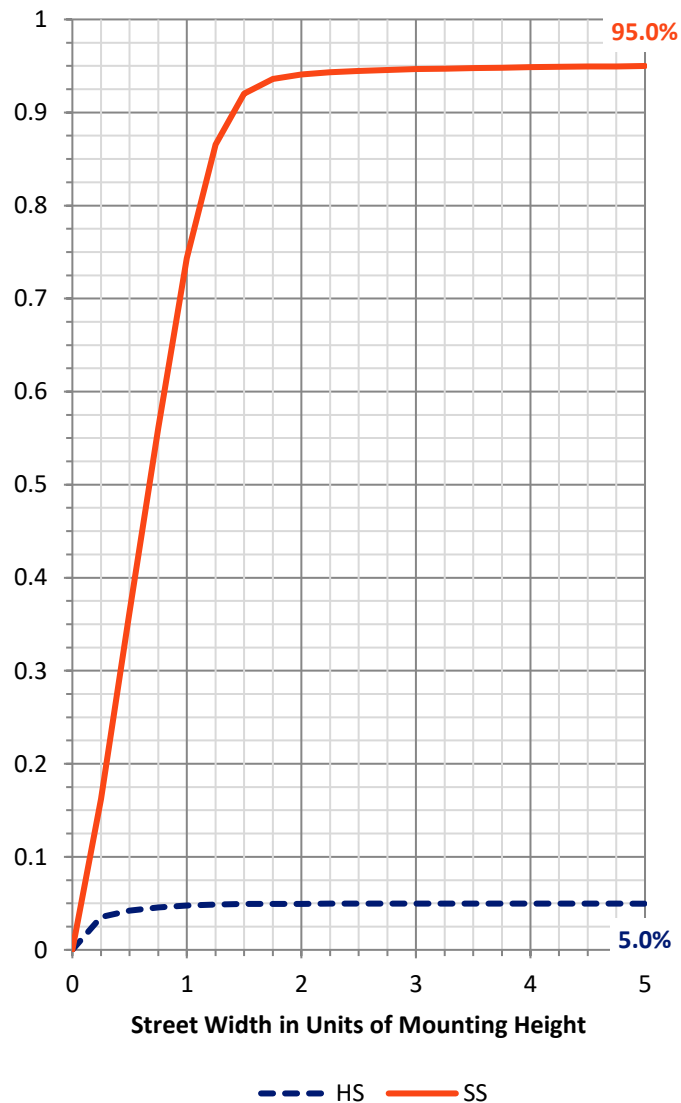
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1250.9	0.0	1250.9
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	23821.1	0.0	23821.1
	% Fixture	95.0	0.0	95.0
Total	Lumens	25072.0	0.0	25072.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	517.1	2.1
10°-20°	1418.1	5.7
20°-30°	2421.2	9.7
30°-40°	3885.6	15.5
40°-50°	6209.3	24.8
50°-60°	6653.4	26.5
60°-70°	3416.1	13.6
70°-80°	517.4	2.1
80°-90°	33.7	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°	25072.0	100.0
0°-180°	25072.0	100.0

Coefficient of Utilization



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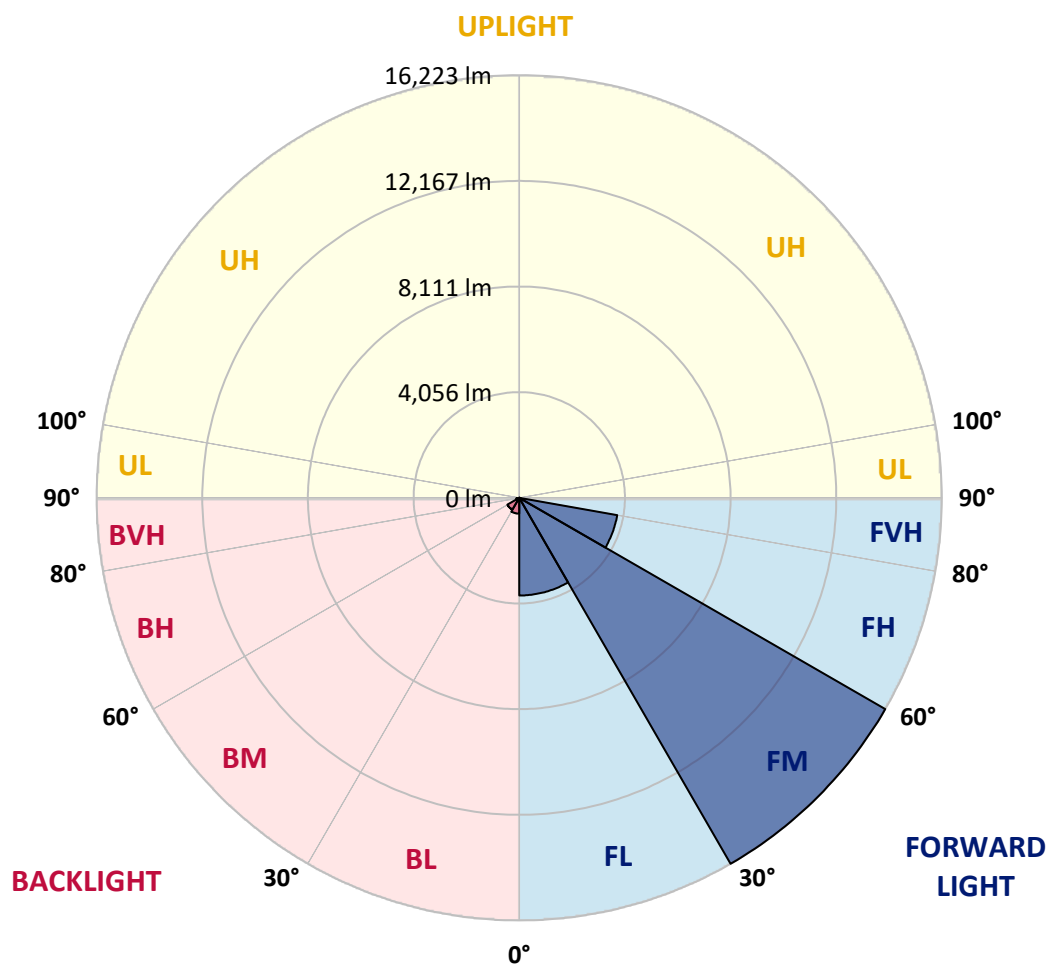
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3747.8	14.9			
FM	(30°-60°)	16222.7	64.7			
FH	(60°-80°)	3818.2	15.2			G2/5000
FVH	(80°-90°)	32.3	0.1			G1/100
BL	(0°-30°)	608.6	2.4	B2/1000		
BM	(30°-60°)	525.7	2.1	B1/1000		
BH	(60°-80°)	115.3	0.5	B1/500		G1/500
BVH	(80°-90°)	1.4	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-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	5615.1	5615.1	5615.1	5615.1	5615.1	5615.1	5615.1	5615.1	5615.1	5615.1	5615.1
2.5°	7046.5	6941.5	6944.7	6897.1	6722.8	6586.3	6444.5	6410.9	6190.1	5958.4	5735.3
5°	8264.6	8187.7	8169.3	8077.3	7834.8	7578.1	7303.1	7239.2	6807.2	6333.0	5866.3
7.5°	8890.4	8891.5	8876.4	8842.8	8691.2	8442.2	8106.5	8039.4	7451.5	6740.1	6002.7
10°	8708.5	8749.7	8834.1	8945.6	9061.5	9030.1	8777.8	8717.2	8078.4	7171.0	6154.3
12.5°	8284.1	8289.5	8383.7	8566.7	8900.2	9242.3	9246.7	9226.1	8677.1	7621.5	6321.1
15°	8073.0	8093.5	8128.2	8246.2	8562.4	9110.2	9502.2	9531.4	9226.1	8100.0	6498.6
17.5°	8211.5	8240.8	8211.5	8225.6	8408.6	8901.3	9546.6	9621.3	9705.7	8573.2	6666.5
20°	8587.3	8614.3	8562.4	8505.0	8540.7	8840.6	9515.2	9615.9	10081.4	8993.3	6807.2
22.5°	9094.0	9104.8	9025.8	8931.6	8905.6	9046.3	9541.2	9645.1	10382.5	9373.3	6896.0
25°	9651.6	9661.3	9562.8	9454.5	9392.8	9450.2	9754.5	9832.4	10647.7	9736.1	6946.9
27.5°	10259.0	10267.7	10144.2	10011.1	9939.6	9941.8	10106.4	10189.7	10930.3	10149.7	6988.0
30°	10901.1	10896.8	10783.1	10597.9	10507.0	10504.8	10613.1	10697.5	11339.6	10680.2	7044.3
32.5°	11622.2	11613.5	11452.2	11222.7	11119.8	11135.0	11231.3	11280.0	11847.4	11245.4	7145.0
35°	12571.8	12546.9	12303.2	12018.5	11829.0	11823.6	11904.8	11943.8	12494.9	11929.7	7312.9
37.5°	13803.9	13781.2	13451.0	13037.3	12771.0	12671.4	12767.7	12817.5	13418.5	12807.8	7582.5
40°	15018.8	14996.0	14800.1	14421.1	14010.7	13771.4	13847.2	13900.3	14571.6	13873.2	7922.5
42.5°	15856.8	15876.3	15944.5	15975.9	15591.5	15089.2	15123.8	15179.0	15783.2	15012.3	8311.2
45°	16077.7	16119.9	16505.4	17262.2	17406.2	17014.3	16651.6	16681.9	17014.3	16151.3	8699.9
47.5°	15414.0	15491.9	16235.8	17643.3	18862.5	19139.7	18453.2	18413.2	18195.5	17072.7	8976.0
50°	13905.7	13977.2	14940.8	17022.9	19304.3	21168.8	20612.2	20494.2	19231.7	17623.9	9073.4
52.5°	11722.9	11809.5	12592.3	15069.7	18471.7	22073.9	22656.5	22557.9	19991.8	17667.2	9089.7
55°	8278.7	8383.7	9212.0	11549.7	15833.0	21353.9	23380.8	23351.6	20623.1	17552.4	9124.3
57.5°	4652.6	4728.4	5621.6	7403.8	11596.2	18599.4	22624.0	22817.8	21004.2	17353.2	9176.3
60°	2065.9	2086.5	2548.8	3685.7	6788.8	14214.3	20457.4	20784.4	20677.2	17086.8	9264.0
62.5°	1145.5	1128.2	1128.2	1532.1	2950.5	8799.5	16681.9	17222.2	19281.5	16771.7	9268.3
65°	897.6	881.4	834.8	841.3	1123.9	3905.5	11551.8	12512.2	16631.0	15848.2	8956.5
67.5°	761.2	747.1	700.5	682.1	698.4	1288.5	6347.1	7344.3	12619.4	13447.7	7757.9
70°	643.2	633.4	609.6	586.8	545.7	636.7	2428.6	3106.4	7776.3	8945.6	5295.7
72.5°	517.6	513.2	521.9	502.4	452.6	424.4	830.5	1005.9	3492.9	3992.1	2181.7
75°	446.1	443.9	448.3	428.8	372.5	295.6	422.3	461.2	985.3	976.6	441.8
77.5°	290.2	293.4	371.4	362.7	320.5	197.1	218.7	236.0	298.8	224.1	134.3
80°	185.1	183.0	188.4	301.0	288.0	150.5	109.4	114.8	144.0	110.4	65.0
82.5°	112.6	110.4	123.4	140.8	145.1	105.0	67.1	68.2	89.9	71.5	34.6
85°	9.7	13.0	74.7	69.3	49.8	32.5	32.5	34.6	47.6	42.2	19.5
87.5°	0.0	0.0	13.0	19.5	10.8	11.9	11.9	13.0	18.4	18.4	9.7
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°	5615.1	5615.1	5615.1	5615.1	5615.1	5615.1	5615.1	5615.1	5615.1	5615.1	5615.1
2.5°	5619.5	5506.8	5279.5	5060.8	4875.6	4697.0	4493.4	4292.0	4197.8	4159.9	4120.9
5°	5629.2	5397.5	4928.7	4456.6	3967.2	3526.5	3150.8	2765.3	2572.6	2488.2	2449.2
7.5°	5642.2	5289.2	4531.3	3738.7	2950.5	2352.8	1830.9	1495.3	1350.2	1327.4	1271.1
10°	5644.4	5158.2	4070.0	2946.2	1978.2	1418.4	1091.4	918.2	854.3	843.5	825.1
12.5°	5648.7	5003.4	3557.9	2181.7	1318.8	948.5	789.3	731.9	714.6	713.5	713.5
15°	5661.7	4841.0	3026.3	1572.1	947.4	751.4	693.0	670.2	663.7	667.0	665.9
17.5°	5661.7	4649.3	2504.4	1171.5	765.5	675.6	643.2	628.0	625.8	629.1	630.2
20°	5620.5	4416.5	2025.8	911.7	678.9	626.9	597.7	583.6	578.2	580.4	581.4
22.5°	5522.0	4130.7	1636.0	754.7	621.5	582.5	551.1	529.5	520.8	521.9	521.9
25°	5368.3	3791.8	1279.8	652.9	574.9	534.9	498.1	473.2	467.7	466.7	468.8
27.5°	5171.2	3417.1	1018.9	574.9	519.7	481.8	445.0	424.4	420.1	421.2	422.3
30°	4977.4	3028.4	803.4	508.9	458.0	422.3	394.1	384.4	384.4	387.6	388.7
32.5°	4799.8	2654.9	635.6	451.5	402.8	370.3	354.1	353.0	358.4	360.6	361.6
35°	4647.1	2309.5	526.2	407.1	359.5	331.3	325.9	330.2	336.7	341.1	342.1
37.5°	4538.9	2000.9	460.2	370.3	325.9	303.2	302.1	310.7	319.4	329.2	331.3
40°	4493.4	1740.0	414.7	337.8	298.8	281.5	278.3	290.2	306.4	320.5	322.7
42.5°	4455.5	1526.7	375.7	306.4	277.2	252.3	251.2	266.4	285.8	299.9	303.2
45°	4423.0	1355.6	340.0	272.9	249.0	216.5	219.8	239.3	254.4	269.6	272.9
47.5°	4355.9	1214.8	301.0	237.1	205.7	185.1	191.6	209.0	220.9	243.6	246.9
50°	4235.7	1100.1	260.9	193.8	167.8	160.2	170.0	181.9	197.1	216.5	218.7
52.5°	4154.5	1013.5	226.3	162.4	138.6	140.8	150.5	154.8	163.5	171.1	168.9
55°	4107.9	965.8	198.1	140.8	118.0	124.5	126.7	121.3	116.9	109.4	106.1
57.5°	4102.5	922.5	176.5	122.4	103.9	107.2	99.6	81.2	66.0	57.4	55.2
60°	4093.9	869.4	159.2	102.9	92.0	87.7	71.5	44.4	31.4	29.2	29.2
62.5°	3999.7	787.2	146.2	86.6	78.0	66.0	41.1	20.6	17.3	18.4	18.4
65°	3699.7	672.4	133.2	70.4	61.7	47.6	20.6	11.9	6.5	7.6	7.6
67.5°	3145.4	536.0	119.1	54.1	46.6	30.3	11.9	5.4	0.0	0.0	0.0
70°	2105.9	332.4	100.7	37.9	30.3	18.4	8.7	1.1	0.0	0.0	0.0
72.5°	807.7	179.7	81.2	22.7	19.5	13.0	5.4	0.0	0.0	0.0	0.0
75°	181.9	118.0	56.3	16.2	14.1	8.7	2.2	0.0	0.0	0.0	0.0
77.5°	69.3	85.5	32.5	10.8	9.7	5.4	0.0	0.0	0.0	0.0	0.0
80°	33.6	50.9	15.2	6.5	5.4	2.2	0.0	0.0	0.0	0.0	0.0
82.5°	17.3	19.5	6.5	3.2	2.2	0.0	0.0	0.0	0.0	0.0	0.0
85°	9.7	9.7	3.2	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	5.4	3.2	1.1	1.1	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)