

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: P324909

Luminaire Tested: **GAN-SA5A-827-U-AFL-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P324909
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-SA5A-827-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 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: 14017 lumens
Efficiency: N/A
Efficacy: 86.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

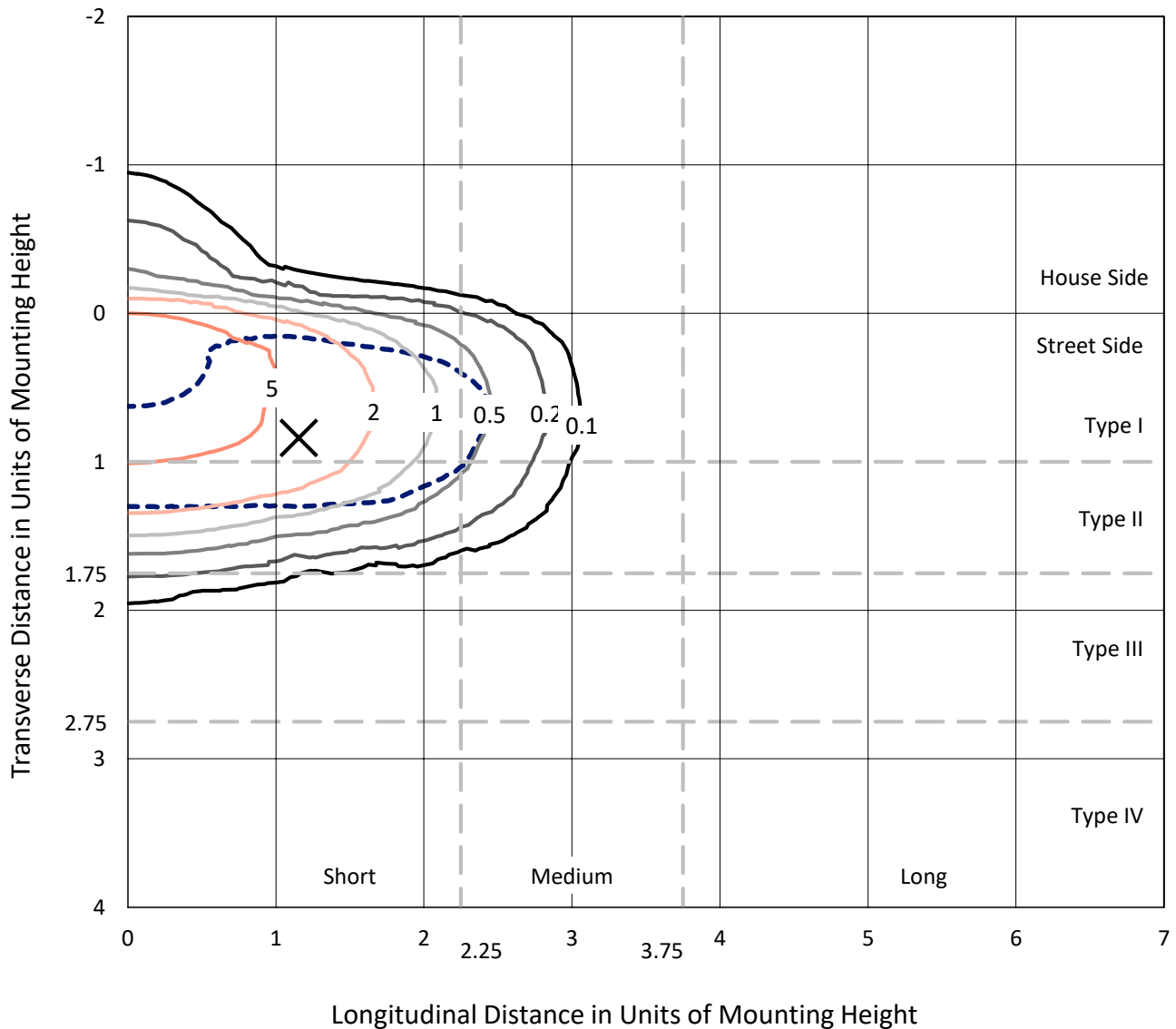
Input Watts (W): 162
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

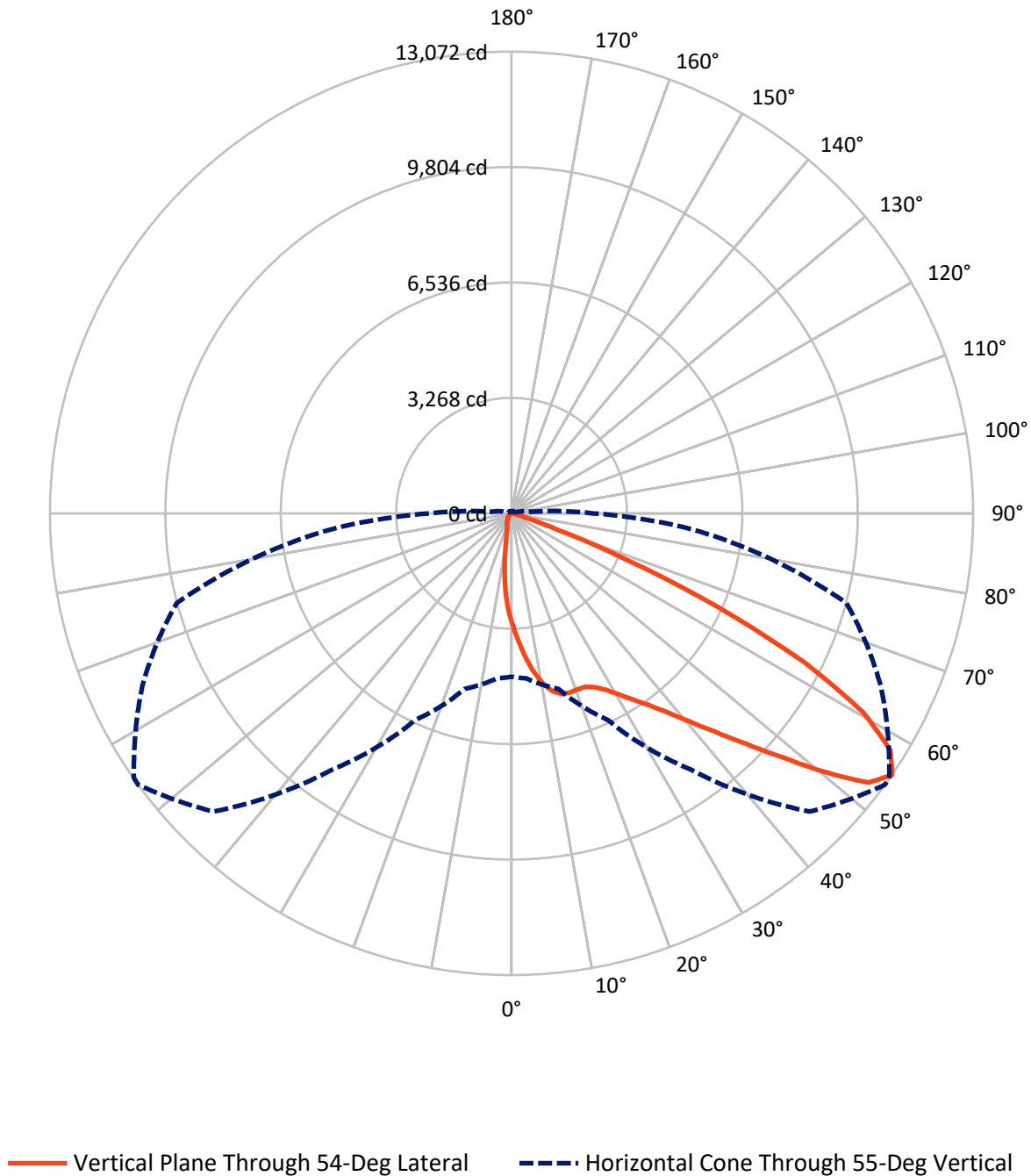
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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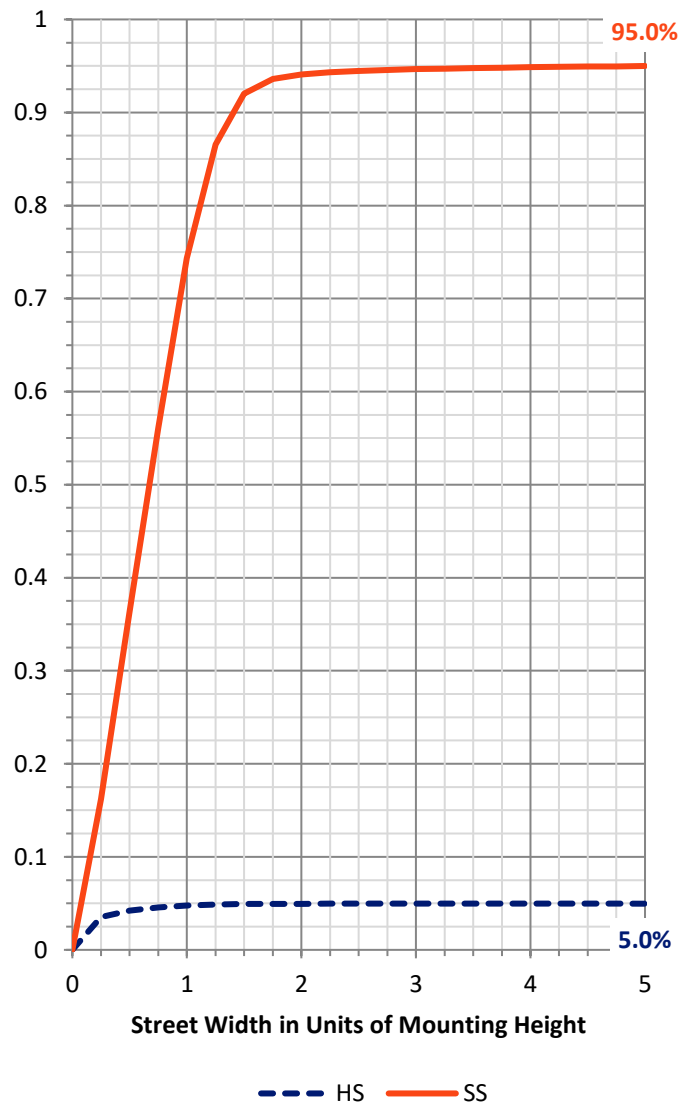
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	699.3	0.0	699.3
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	13317.7	0.0	13317.7
	% Fixture	95.0	0.0	95.0
Total	Lumens	14017.0	0.0	14017.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	289.1	2.1
10°-20°	792.8	5.7
20°-30°	1353.6	9.7
30°-40°	2172.4	15.5
40°-50°	3471.4	24.8
50°-60°	3719.7	26.5
60°-70°	1909.8	13.6
70°-80°	289.3	2.1
80°-90°	18.8	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°	14017.0	100.0
0°-180°	14017.0	100.0

Coefficient of Utilization



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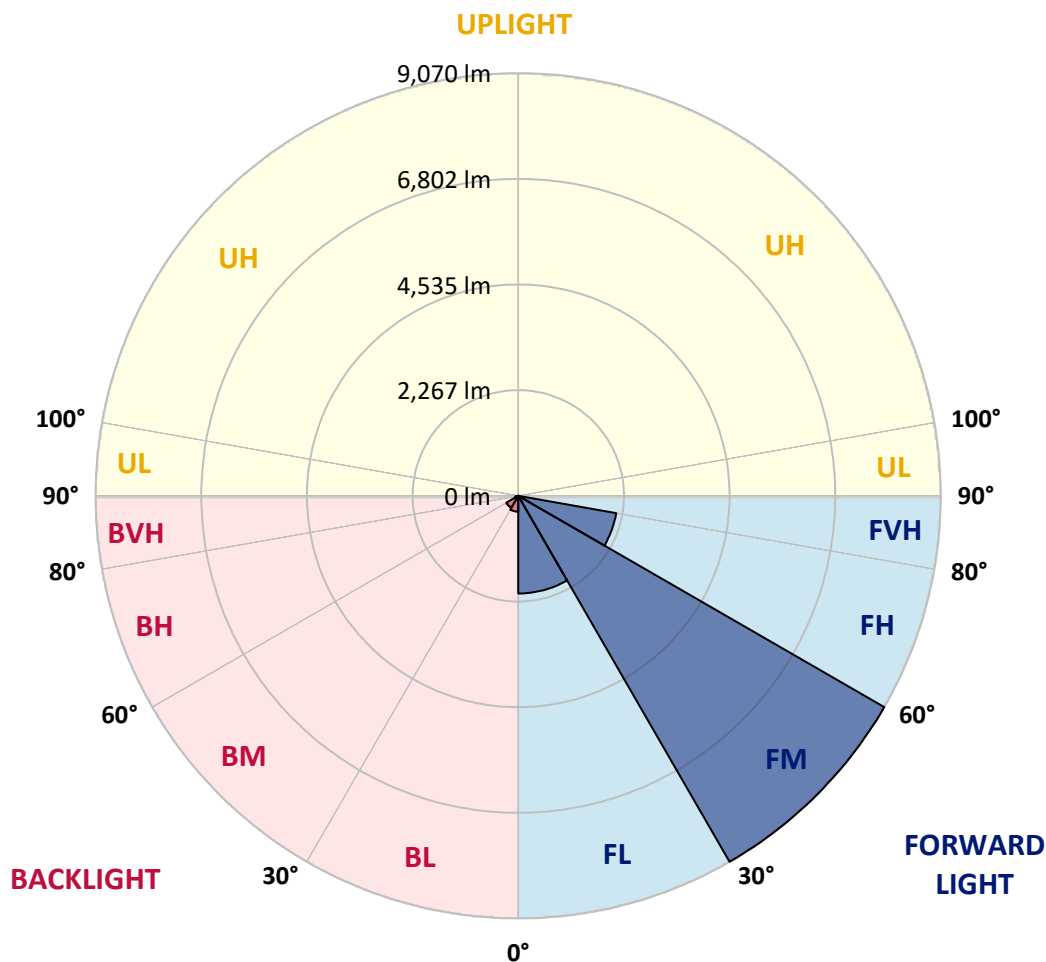
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2095.3	14.9			
FM	(30°-60°)	9069.6	64.7			
FH	(60°-80°)	2134.7	15.2			G2/5000
FVH	(80°-90°)	18.1	0.1			G1/100
BL	(0°-30°)	340.3	2.4	B1/500		
BM	(30°-60°)	293.9	2.1	B1/1000		
BH	(60°-80°)	64.4	0.5	B0/110		G0/110
BVH	(80°-90°)	0.8	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	3139.2	3139.2	3139.2	3139.2	3139.2	3139.2	3139.2	3139.2	3139.2	3139.2	3139.2
2.5°	3939.5	3880.8	3882.6	3856.0	3758.5	3682.2	3602.9	3584.2	3460.7	3331.1	3206.4
5°	4620.5	4577.5	4567.2	4515.8	4380.2	4236.7	4083.0	4047.2	3805.7	3540.6	3279.7
7.5°	4970.4	4971.0	4962.5	4943.7	4859.0	4719.8	4532.1	4494.6	4165.9	3768.2	3356.0
10°	4868.7	4891.7	4938.9	5001.2	5066.0	5048.5	4907.4	4873.5	4516.4	4009.1	3440.7
12.5°	4631.4	4634.4	4687.1	4789.4	4975.8	5167.1	5169.5	5158.0	4851.1	4260.9	3533.9
15°	4513.3	4524.8	4544.2	4610.2	4787.0	5093.3	5312.4	5328.7	5158.0	4528.5	3633.2
17.5°	4590.8	4607.2	4590.8	4598.7	4701.0	4976.4	5337.2	5379.0	5426.2	4793.0	3727.0
20°	4800.9	4816.0	4787.0	4754.9	4774.8	4942.5	5319.6	5375.9	5636.2	5027.9	3805.7
22.5°	5084.2	5090.2	5046.0	4993.4	4978.8	5057.5	5334.2	5392.3	5804.5	5240.3	3855.4
25°	5395.9	5401.4	5346.3	5285.7	5251.2	5283.3	5453.4	5497.0	5952.8	5443.1	3883.8
27.5°	5735.5	5740.4	5671.3	5596.9	5556.9	5558.1	5650.2	5696.8	6110.8	5674.4	3906.8
30°	6094.5	6092.0	6028.5	5925.0	5874.1	5872.9	5933.5	5980.7	6339.6	5971.0	3938.3
32.5°	6497.6	6492.8	6402.6	6274.3	6216.7	6225.2	6279.1	6306.3	6623.5	6287.0	3994.6
35°	7028.5	7014.6	6878.4	6719.2	6613.2	6610.2	6655.6	6677.4	6985.5	6669.5	4088.4
37.5°	7717.4	7704.7	7520.0	7288.8	7139.9	7084.2	7138.1	7165.9	7501.9	7160.5	4239.1
40°	8396.5	8383.8	8274.3	8062.4	7833.0	7699.2	7741.6	7771.2	8146.5	7756.1	4429.2
42.5°	8865.1	8876.0	8914.1	8931.7	8716.8	8435.9	8455.3	8486.1	8823.9	8392.9	4646.5
45°	8988.6	9012.2	9227.7	9650.8	9731.3	9512.2	9309.4	9326.3	9512.2	9029.7	4863.8
47.5°	8617.5	8661.1	9076.9	9863.9	10545.5	10700.4	10316.7	10294.3	10172.6	9544.9	5018.2
50°	7774.3	7814.2	8353.0	9517.0	10792.4	11834.8	11523.7	11457.7	10751.9	9853.0	5072.7
52.5°	6553.9	6602.3	7040.0	8425.0	10326.9	12340.9	12666.5	12611.5	11176.8	9877.2	5081.8
55°	4628.4	4687.1	5150.2	6457.1	8851.8	11938.3	13071.5	13055.2	11529.7	9813.0	5101.1
57.5°	2601.1	2643.5	3142.9	4139.3	6483.1	10398.4	12648.4	12756.7	11742.8	9701.6	5130.2
60°	1155.0	1166.5	1424.9	2060.5	3795.4	7946.8	11437.1	11619.9	11560.0	9552.7	5179.2
62.5°	640.4	630.8	630.8	856.5	1649.5	4919.5	9326.3	9628.4	10779.7	9376.6	5181.6
65°	501.8	492.7	466.7	470.3	628.3	2183.4	6458.3	6995.2	9297.9	8860.2	5007.3
67.5°	425.5	417.7	391.6	381.4	390.4	720.3	3548.4	4106.0	7055.1	7518.2	4337.2
70°	359.6	354.1	340.8	328.1	305.1	355.9	1357.8	1736.7	4347.5	5001.2	2960.7
72.5°	289.3	286.9	291.8	280.9	253.0	237.3	464.3	562.4	1952.8	2231.9	1219.7
75°	249.4	248.2	250.6	239.7	208.2	165.3	236.1	257.9	550.9	546.0	247.0
77.5°	162.2	164.0	207.6	202.8	179.2	110.2	122.3	132.0	167.1	125.3	75.1
80°	103.5	102.3	105.3	168.3	161.0	84.1	61.1	64.2	80.5	61.7	36.3
82.5°	63.0	61.7	69.0	78.7	81.1	58.7	37.5	38.1	50.2	40.0	19.4
85°	5.4	7.3	41.8	38.7	27.8	18.2	18.2	19.4	26.6	23.6	10.9
87.5°	0.0	0.0	7.3	10.9	6.1	6.7	6.7	7.3	10.3	10.3	5.4
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°	3139.2	3139.2	3139.2	3139.2	3139.2	3139.2	3139.2	3139.2	3139.2	3139.2	3139.2
2.5°	3141.7	3078.7	2951.6	2829.3	2725.8	2625.9	2512.1	2399.5	2346.9	2325.7	2303.9
5°	3147.1	3017.6	2755.5	2491.5	2217.9	1971.6	1761.5	1546.0	1438.3	1391.1	1369.3
7.5°	3154.4	2957.0	2533.3	2090.2	1649.5	1315.4	1023.6	836.0	754.8	742.1	710.7
10°	3155.6	2883.8	2275.4	1647.1	1105.9	793.0	610.2	513.3	477.6	471.6	461.3
12.5°	3158.0	2797.2	1989.1	1219.7	737.3	530.3	441.3	409.2	399.5	398.9	398.9
15°	3165.3	2706.4	1691.9	878.9	529.7	420.1	387.4	374.7	371.1	372.9	372.3
17.5°	3165.3	2599.3	1400.1	655.0	428.0	377.7	359.6	351.1	349.9	351.7	352.3
20°	3142.3	2469.1	1132.6	509.7	379.5	350.5	334.1	326.3	323.2	324.5	325.1
22.5°	3087.2	2309.3	914.7	421.9	347.5	325.7	308.1	296.0	291.2	291.8	291.8
25°	3001.2	2119.9	715.5	365.0	321.4	299.0	278.5	264.5	261.5	260.9	262.1
27.5°	2891.1	1910.4	569.6	321.4	290.6	269.4	248.8	237.3	234.9	235.5	236.1
30°	2782.7	1693.1	449.2	284.5	256.1	236.1	220.3	214.9	214.9	216.7	217.3
32.5°	2683.4	1484.3	355.3	252.4	225.2	207.0	197.9	197.3	200.4	201.6	202.2
35°	2598.1	1291.2	294.2	227.6	201.0	185.2	182.2	184.6	188.3	190.7	191.3
37.5°	2537.5	1118.7	257.3	207.0	182.2	169.5	168.9	173.7	178.6	184.0	185.2
40°	2512.1	972.8	231.8	188.9	167.1	157.4	155.6	162.2	171.3	179.2	180.4
42.5°	2490.9	853.5	210.0	171.3	155.0	141.0	140.4	148.9	159.8	167.7	169.5
45°	2472.8	757.9	190.1	152.5	139.2	121.1	122.9	133.8	142.3	150.7	152.5
47.5°	2435.2	679.2	168.3	132.6	115.0	103.5	107.1	116.8	123.5	136.2	138.0
50°	2368.1	615.0	145.9	108.4	93.8	89.6	95.0	101.7	110.2	121.1	122.3
52.5°	2322.7	566.6	126.5	90.8	77.5	78.7	84.1	86.6	91.4	95.6	94.4
55°	2296.6	540.0	110.8	78.7	66.0	69.6	70.8	67.8	65.4	61.1	59.3
57.5°	2293.6	515.7	98.7	68.4	58.1	59.9	55.7	45.4	36.9	32.1	30.9
60°	2288.8	486.1	89.0	57.5	51.5	49.0	40.0	24.8	17.6	16.3	16.3
62.5°	2236.1	440.1	81.7	48.4	43.6	36.9	23.0	11.5	9.7	10.3	10.3
65°	2068.4	375.9	74.5	39.3	34.5	26.6	11.5	6.7	3.6	4.2	4.2
67.5°	1758.5	299.6	66.6	30.3	26.0	16.9	6.7	3.0	0.0	0.0	0.0
70°	1177.4	185.8	56.3	21.2	16.9	10.3	4.8	0.6	0.0	0.0	0.0
72.5°	451.6	100.5	45.4	12.7	10.9	7.3	3.0	0.0	0.0	0.0	0.0
75°	101.7	66.0	31.5	9.1	7.9	4.8	1.2	0.0	0.0	0.0	0.0
77.5°	38.7	47.8	18.2	6.1	5.4	3.0	0.0	0.0	0.0	0.0	0.0
80°	18.8	28.5	8.5	3.6	3.0	1.2	0.0	0.0	0.0	0.0	0.0
82.5°	9.7	10.9	3.6	1.8	1.2	0.0	0.0	0.0	0.0	0.0	0.0
85°	5.4	5.4	1.8	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	3.0	1.8	0.6	0.6	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)