

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: P193476

Luminaire Tested: **GAN-AF-08-LED-U-AFL-8030-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193476
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24297)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-AF-08-LED-U-AFL-8030-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 3000K, 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: 31867 lumens
Efficiency: N/A
Efficacy: 71.6 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B2 - U0 - G2

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: 28.75 FT



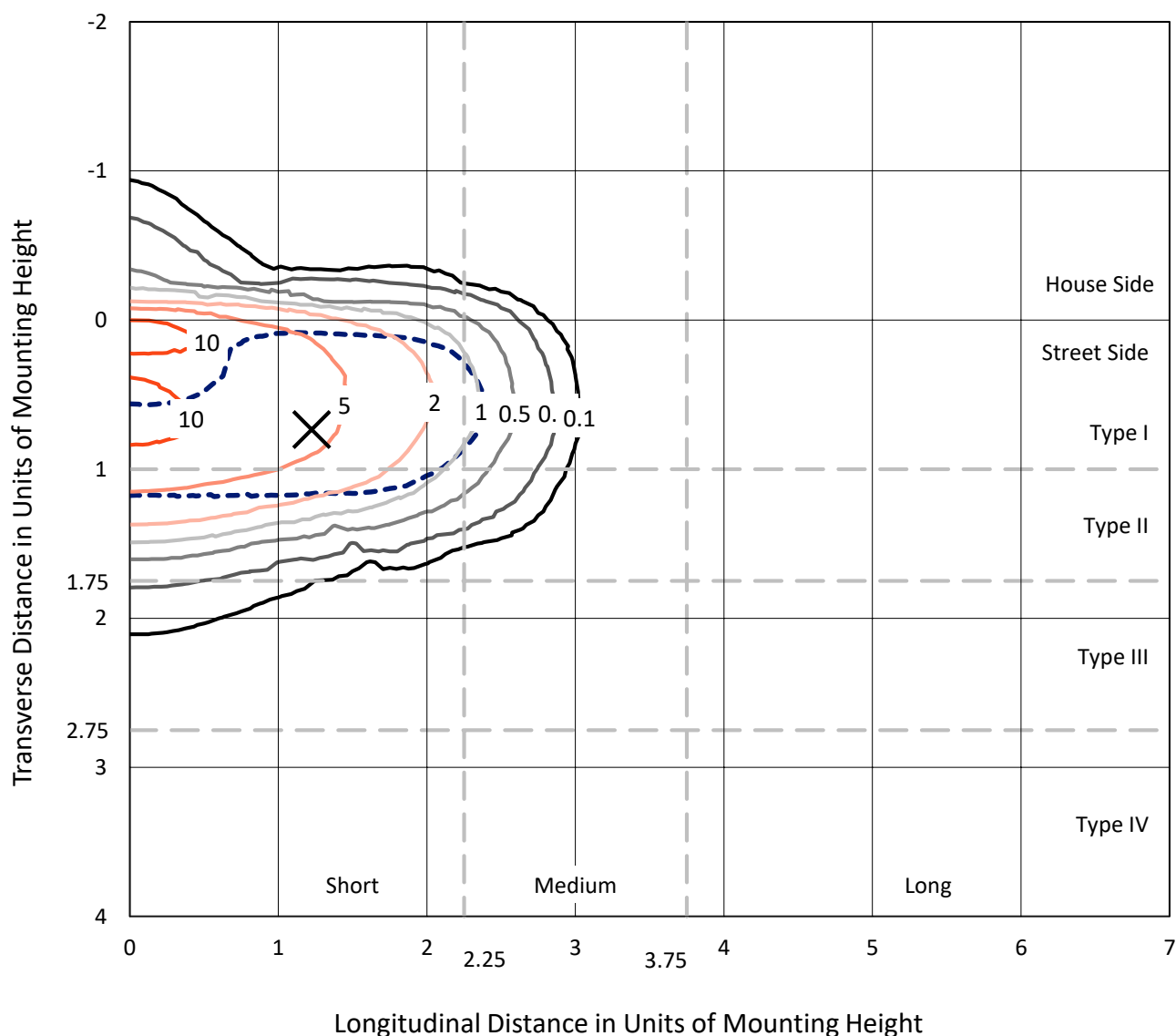
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

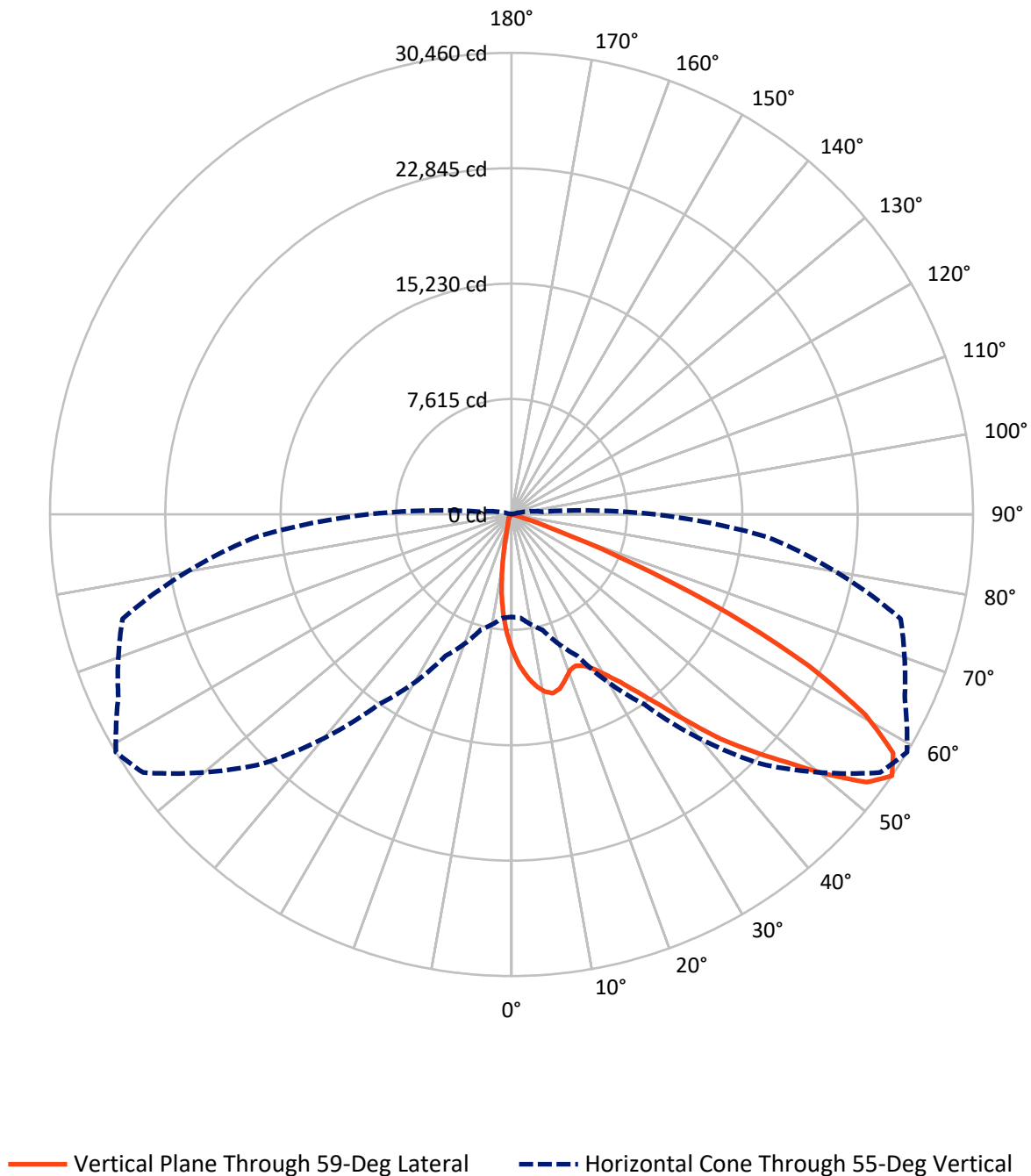


Based on 30 foot mounting height. Maximum calculated value = 12.4 fc
 Type II - Short - Full Cutoff

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Luminous Intensity Polar Plot



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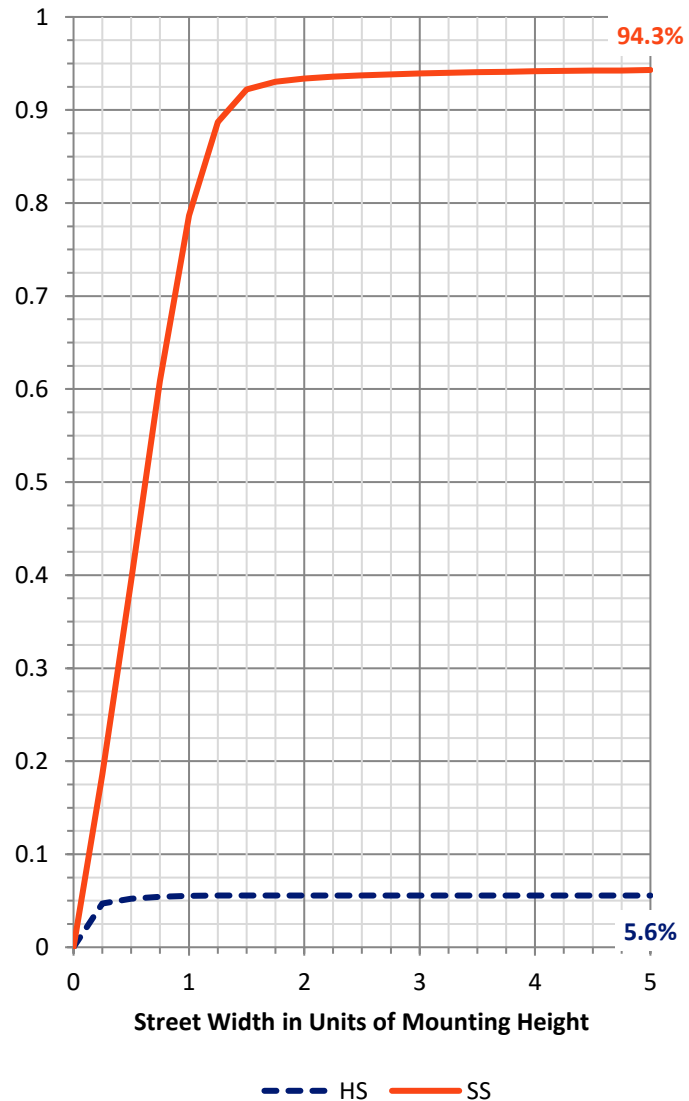
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1780.0	0.0	1780.0
	% Fixture	5.6	0.0	5.6
Street Side	Lumens	30087.0	0.0	30087.0
	% Fixture	94.4	0.0	94.4
Total	Lumens	31867.0	0.0	31867.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	751.4	2.4
10°-20°	1799.0	5.6
20°-30°	3061.2	9.6
30°-40°	5264.6	16.5
40°-50°	8127.9	25.5
50°-60°	8171.2	25.6
60°-70°	4190.2	13.1
70°-80°	454.1	1.4
80°-90°	47.5	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°	31867.0	100.0
0°-180°	31867.0	100.0

Coefficient of Utilization



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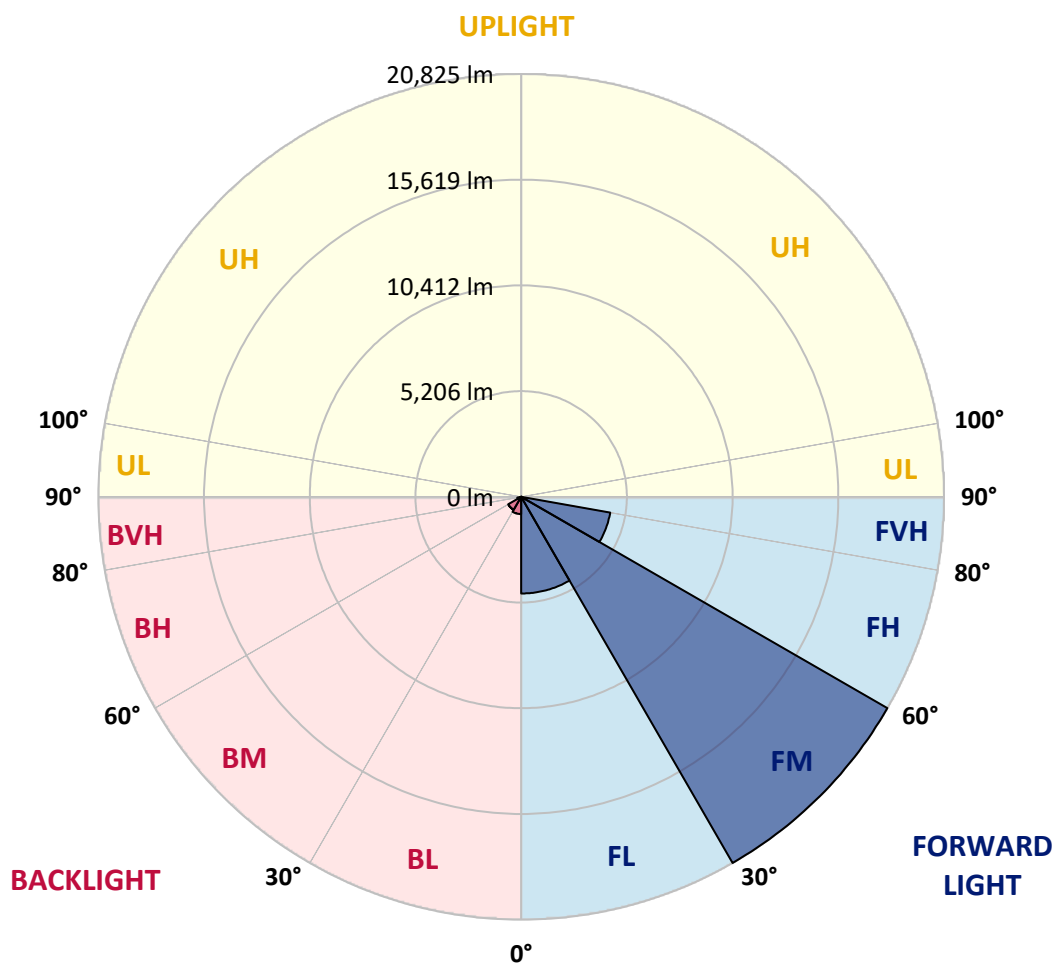
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4762.0	14.9			
FM	(30°-60°)	20825.0	65.3			
FH	(60°-80°)	4453.6	14.0			G2/5000
FVH	(80°-90°)	46.5	0.1			G1/100
BL	(0°-30°)	849.6	2.7	B2/1000		
BM	(30°-60°)	738.7	2.3	B1/1000		
BH	(60°-80°)	190.7	0.6	B1/500		G1/500
BVH	(80°-90°)	1.0	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°	55°	59°	65°	75°	85°
0°	8970.4	8970.4	8970.4	8970.4	8970.4	8970.4	8970.4	8970.4	8970.4	8970.4	8970.4
2.5°	10614.1	10501.3	10467.4	10444.8	10341.4	10211.6	10034.9	9952.1	9782.9	9510.2	9175.4
5°	11586.4	11565.7	11490.4	11449.1	11338.1	11153.8	10871.7	10736.3	10467.4	10008.5	9408.6
7.5°	11161.3	11291.1	11394.5	11567.5	11785.7	11778.2	11541.2	11400.2	11099.3	10493.7	9668.1
10°	9519.6	9624.9	9794.1	10187.2	10988.3	11695.4	11973.8	11872.2	11631.5	10939.4	9918.3
12.5°	9198.0	9186.7	9216.8	9331.5	9750.9	10758.9	11900.4	12105.4	12056.5	11347.5	10155.2
15°	9369.1	9356.0	9352.2	9391.7	9493.3	9918.3	11349.4	11938.0	12316.0	11725.5	10356.4
17.5°	9848.7	9792.3	9762.2	9730.2	9700.1	9805.4	10687.4	11469.8	12355.5	12056.5	10523.8
20°	10670.5	10576.5	10465.5	10285.0	10115.7	10063.1	10409.1	10988.3	12214.5	12308.5	10632.9
22.5°	11703.0	11582.6	11390.8	11061.7	10717.5	10518.2	10546.4	10836.0	12003.8	12583.1	10683.7
25°	12863.3	12709.1	12453.3	11996.3	11490.4	11136.9	10952.6	11054.1	11907.9	12904.7	10742.0
27.5°	14106.4	13935.2	13600.5	12978.0	12404.4	11926.7	11550.6	11537.5	12071.5	13325.9	10836.0
30°	15338.1	15311.8	14875.5	14217.3	13457.5	12876.4	12334.8	12265.3	12528.5	13908.9	11022.2
32.5°	16981.8	16784.3	16250.2	15573.2	14696.9	13999.2	13357.9	13196.1	13230.0	14587.8	11309.9
35°	19054.2	18837.9	18085.7	17151.0	16171.2	15347.5	14638.6	14418.5	14335.8	15699.2	11795.1
37.5°	20393.2	20389.4	19917.4	18965.8	17914.6	17006.2	16235.2	15977.5	15810.2	17042.0	12547.3
40°	20428.9	20517.3	20579.4	20570.0	19821.5	18984.6	18300.1	17982.3	17593.0	18836.1	13519.6
42.5°	19332.5	19560.1	20107.3	21036.4	21480.2	21147.3	20570.0	20257.8	19678.6	20756.1	14704.4
45°	17850.6	18008.6	18965.8	20677.2	22379.1	23291.2	22851.1	22292.6	21529.1	22759.0	15766.9
47.5°	17186.8	17215.0	17833.7	19712.4	22446.8	25047.7	25314.7	24406.4	23210.3	24372.5	16598.1
50°	15202.7	15253.5	16107.3	18040.6	21653.2	25877.0	27789.6	26928.3	25043.9	25615.6	16900.9
52.5°	11458.5	11529.9	12613.2	15293.0	19471.7	25523.5	29561.1	29352.4	27052.4	26223.0	16917.8
55°	6760.7	6854.8	7889.1	10294.4	15315.6	23274.3	29692.7	30460.0	28637.7	26582.2	16891.5
57.5°	3157.5	3223.3	3815.7	5303.3	9525.2	18394.1	27710.6	29700.3	29512.2	26772.2	17077.7
60°	1677.5	1696.3	1839.2	2296.2	4304.7	11663.5	23842.2	26819.2	28714.8	27035.5	17305.2
62.5°	1282.6	1288.2	1280.7	1335.2	1809.1	5177.3	18021.8	22048.1	25504.7	26838.0	17053.2
65°	1111.4	1120.8	1068.2	1055.0	1160.3	1846.7	10706.2	15716.1	20041.5	24173.2	15336.3
67.5°	996.7	1000.5	936.5	882.0	900.8	998.6	4223.8	8603.7	13265.7	17719.0	11116.2
70°	917.7	914.0	844.4	757.9	733.4	682.7	1342.7	3153.8	6339.5	8985.5	5169.8
72.5°	812.4	814.3	780.4	667.6	609.3	477.7	622.5	919.6	1891.9	2448.5	1211.1
75°	720.3	710.9	669.5	598.0	502.1	314.1	308.4	410.0	583.0	579.2	261.4
77.5°	520.9	511.5	524.7	490.8	385.5	203.1	154.2	197.5	237.0	229.4	73.3
80°	381.8	376.1	338.5	408.1	340.4	139.2	95.9	105.3	122.2	103.4	22.6
82.5°	261.4	259.5	238.8	225.7	193.7	84.6	60.2	65.8	79.0	58.3	11.3
85°	41.4	47.0	173.0	137.3	114.7	37.6	41.4	45.1	52.7	32.0	3.8
87.5°	0.0	0.0	80.9	71.5	22.6	15.0	24.4	26.3	26.3	16.9	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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	8970.4	8970.4	8970.4	8970.4	8970.4	8970.4	8970.4	8970.4	8970.4	8970.4	8970.4
2.5°	9004.3	8816.2	8468.3	8109.1	7776.3	7379.5	7106.8	6901.8	6664.8	6600.9	6740.1
5°	9066.4	8710.9	7962.4	7148.1	6382.7	5534.6	4885.8	4372.4	3907.9	3749.9	3892.8
7.5°	9164.1	8635.7	7415.2	6074.3	4742.9	3418.9	2512.5	1916.3	1536.4	1423.6	1483.8
10°	9261.9	8526.6	6781.4	4803.0	2982.6	1664.3	1083.2	865.1	784.2	767.3	776.7
12.5°	9342.8	8379.9	6008.5	3415.2	1594.7	891.4	709.0	673.3	662.0	662.0	665.7
15°	9391.7	8158.0	5092.7	2172.1	917.7	673.3	618.7	607.4	607.4	609.3	613.1
17.5°	9386.1	7875.9	4090.3	1314.5	686.4	596.1	564.2	554.8	552.9	556.7	558.5
20°	9316.5	7507.3	3084.2	867.0	598.0	543.5	511.5	494.6	492.7	496.5	500.2
22.5°	9184.8	7052.2	2205.9	667.6	539.7	492.7	453.2	438.2	438.2	441.9	445.7
25°	9025.0	6495.6	1508.2	566.1	487.1	438.2	400.6	387.4	391.2	400.6	402.4
27.5°	8825.6	5869.3	1024.9	485.2	423.1	383.6	355.4	346.0	355.4	368.6	372.4
30°	8654.5	5216.8	731.6	419.4	359.2	331.0	314.1	314.1	327.2	351.7	357.3
32.5°	8522.9	4584.9	564.2	370.5	312.2	287.7	278.3	287.7	308.4	332.9	338.5
35°	8505.9	4064.0	477.7	331.0	278.3	253.9	250.1	267.0	287.7	306.5	310.3
37.5°	8635.7	3582.5	430.7	299.0	248.2	225.7	221.9	242.6	263.3	285.9	291.5
40°	8882.1	3204.5	396.8	268.9	223.8	199.3	191.8	206.9	235.1	265.2	272.7
42.5°	9201.8	2892.4	359.2	238.8	199.3	165.5	156.1	173.0	203.1	235.1	244.5
45°	9506.4	2623.4	317.8	205.0	167.4	127.9	124.1	146.7	161.7	193.7	201.2
47.5°	9673.8	2386.5	282.1	167.4	129.8	103.4	103.4	109.1	124.1	161.7	169.3
50°	9617.4	2196.5	244.5	124.1	90.3	79.0	79.0	77.1	99.7	129.8	135.4
52.5°	9504.5	2087.5	210.6	95.9	62.1	56.4	50.8	56.4	69.6	82.7	84.6
55°	9487.6	2068.7	176.8	77.1	43.3	37.6	28.2	28.2	28.2	26.3	22.6
57.5°	9619.3	2098.7	148.6	62.1	32.0	24.4	15.0	0.0	0.0	0.0	0.0
60°	9754.7	2130.7	127.9	43.3	22.6	13.2	1.9	0.0	0.0	0.0	0.0
62.5°	9529.0	2059.3	107.2	26.3	16.9	5.6	0.0	0.0	0.0	0.0	0.0
65°	8370.5	1752.7	84.6	18.8	11.3	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	5954.0	1173.5	56.4	11.3	1.9	0.0	0.0	0.0	0.0	0.0	0.0
70°	2717.5	490.8	35.7	3.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	581.1	152.3	24.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	118.5	111.0	9.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	37.6	174.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	22.6	126.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	3.8	18.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	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)