

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: P192656

Luminaire Tested: **GAN-AF-08-LED-U-AFL-7030-600-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192656
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-7030-600-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3000K, 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: 24884.9 lumens
Efficiency: N/A
Efficacy: 96.8 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): 257
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

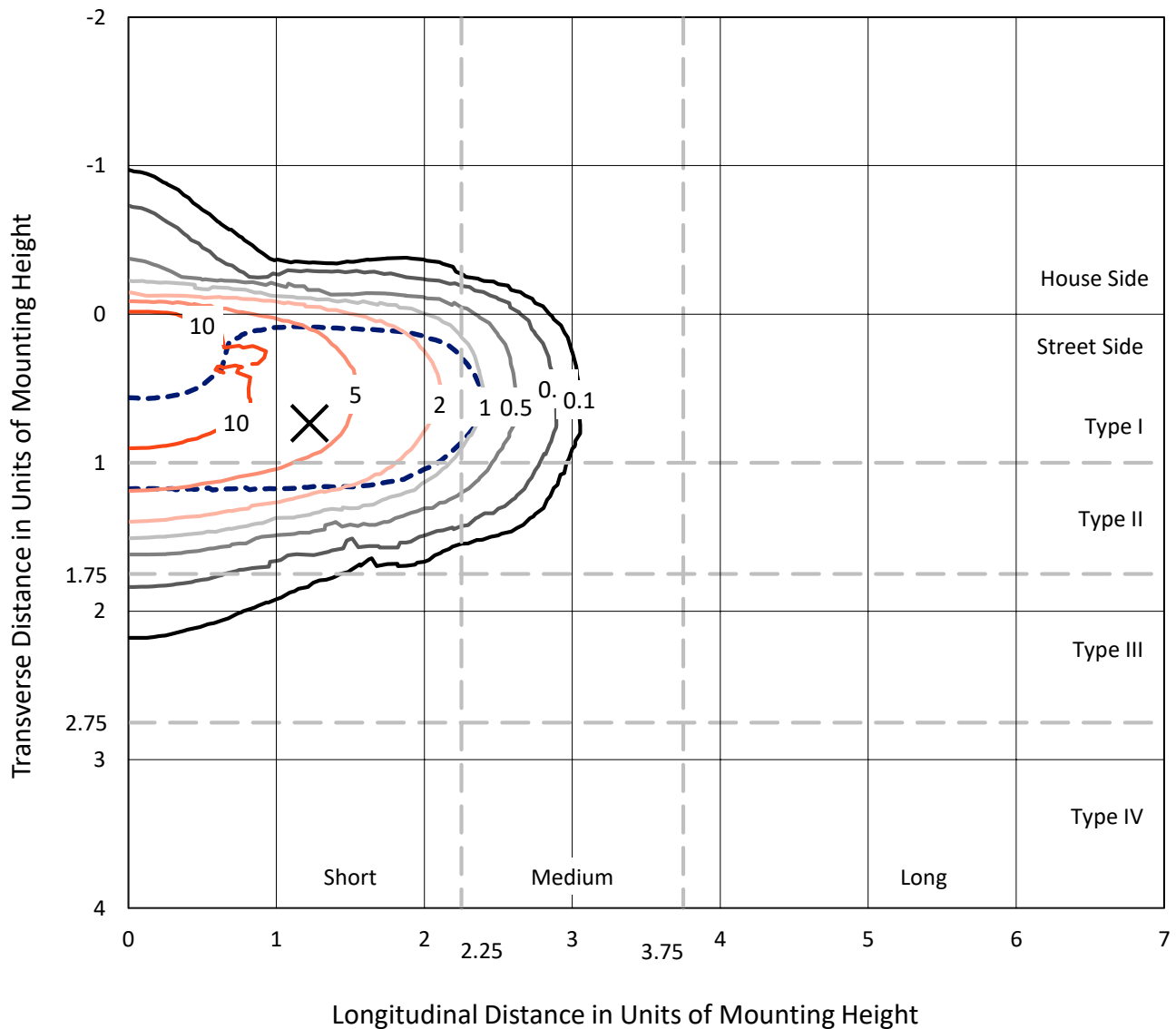


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

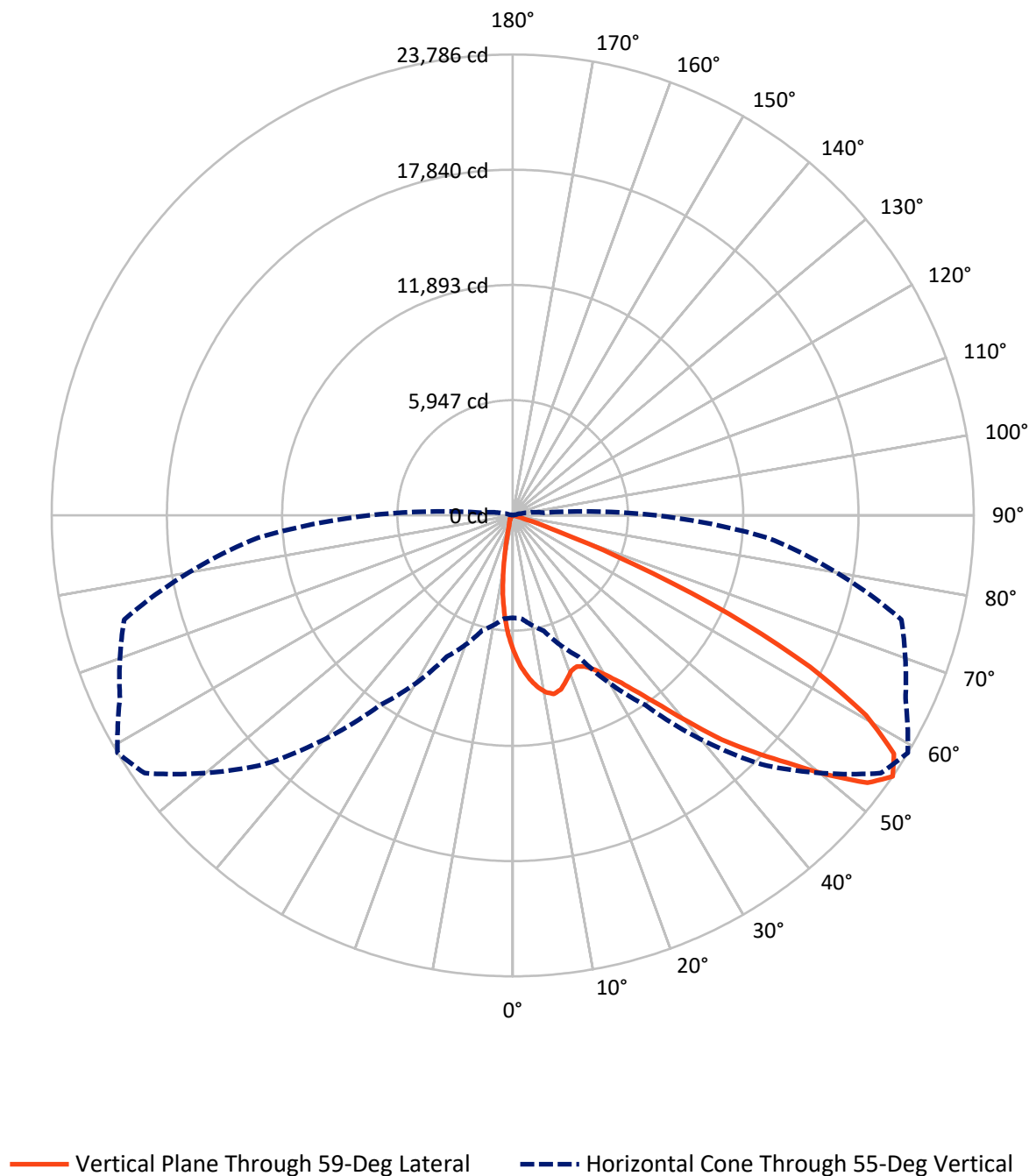


Based on 25 foot mounting height. Maximum calculated value = 13.9 fc
Type II - Short - Full Cutoff

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Luminous Intensity Polar Plot



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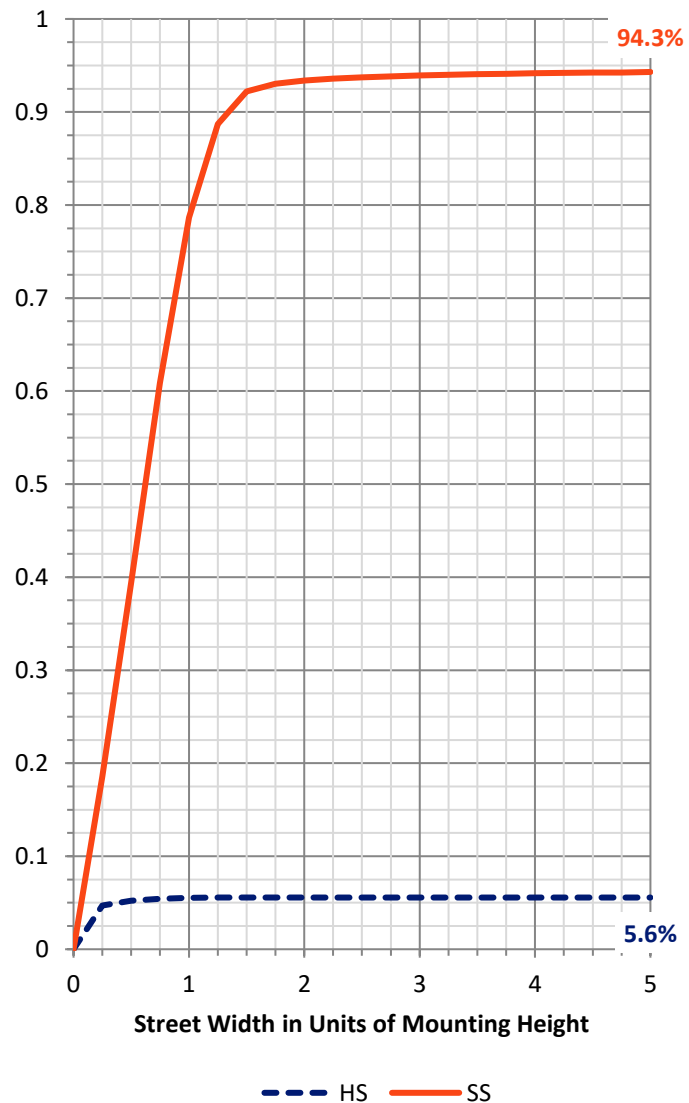
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1390.0	0.0	1390.0
	% Fixture	5.6	0.0	5.6
Street Side	Lumens	23494.9	0.0	23494.9
	% Fixture	94.4	0.0	94.4
Total	Lumens	24884.9	0.0	24884.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	586.7	2.4
10°-20°	1404.8	5.6
20°-30°	2390.5	9.6
30°-40°	4111.1	16.5
40°-50°	6347.1	25.5
50°-60°	6380.8	25.6
60°-70°	3272.1	13.1
70°-80°	354.6	1.4
80°-90°	37.1	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°	24884.9	100.0
0°-180°	24884.9	100.0

Coefficient of Utilization



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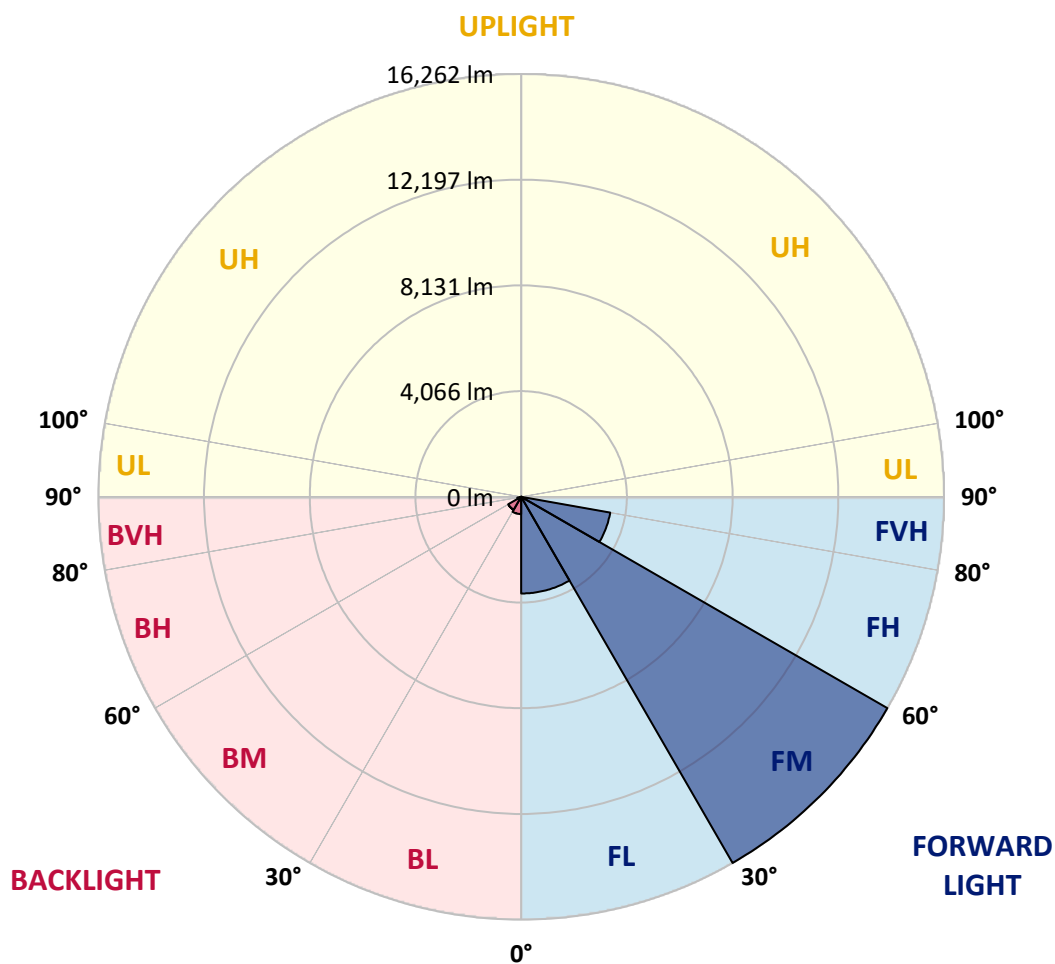
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3718.6	14.9			
FM	(30°-60°)	16262.2	65.3			
FH	(60°-80°)	3477.8	14.0			G2/5000
FVH	(80°-90°)	36.3	0.1			G1/100
BL	(0°-30°)	663.4	2.7	B2/1000		
BM	(30°-60°)	576.9	2.3	B1/1000		
BH	(60°-80°)	148.9	0.6	B1/500		G1/500
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: 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°	7005.0	7005.0	7005.0	7005.0	7005.0	7005.0	7005.0	7005.0	7005.0	7005.0	7005.0
2.5°	8288.5	8200.5	8174.0	8156.3	8075.6	7974.3	7836.2	7771.6	7639.4	7426.5	7165.1
5°	9047.8	9031.6	8972.9	8940.5	8854.0	8710.0	8489.7	8384.0	8174.0	7815.7	7347.1
7.5°	8715.8	8817.2	8898.0	9033.1	9203.5	9197.6	9012.5	8902.3	8667.4	8194.6	7549.9
10°	7433.8	7516.1	7648.2	7955.1	8580.7	9133.0	9350.3	9270.9	9083.0	8542.6	7745.2
12.5°	7182.7	7173.9	7197.4	7286.9	7614.5	8401.6	9293.0	9453.1	9414.9	8861.3	7930.1
15°	7316.3	7306.0	7303.1	7333.9	7413.2	7745.2	8862.7	9322.4	9617.5	9156.5	8087.4
17.5°	7690.9	7646.7	7623.2	7598.3	7574.8	7657.0	8345.8	8956.7	9648.3	9414.9	8218.1
20°	8332.5	8259.1	8172.5	8031.5	7899.3	7858.3	8128.5	8580.7	9538.3	9611.6	8303.1
22.5°	9138.8	9044.8	8895.1	8638.0	8369.3	8213.7	8235.6	8461.8	9373.8	9826.1	8342.8
25°	10045.0	9924.4	9724.7	9367.9	8972.9	8696.8	8552.9	8632.1	9298.8	10077.2	8388.4
27.5°	11015.6	10882.0	10620.5	10134.5	9686.6	9313.6	9019.9	9009.6	9426.7	10406.2	8461.8
30°	11977.5	11957.0	11616.2	11102.3	10509.0	10055.2	9632.3	9577.8	9783.5	10861.5	8607.2
32.5°	13261.1	13106.8	12689.8	12161.1	11476.7	10931.9	10431.1	10304.9	10331.3	11391.6	8831.9
35°	14879.4	14710.5	14123.1	13393.2	12628.0	11984.8	11431.2	11259.3	11194.8	12259.6	9210.8
37.5°	15925.0	15922.1	15553.5	14810.4	13989.4	13280.1	12678.0	12476.9	12346.2	13308.0	9798.2
40°	15953.0	16021.9	16070.4	16063.1	15478.5	14825.1	14290.4	14042.3	13738.4	14709.0	10557.4
42.5°	15096.8	15274.5	15701.7	16427.2	16773.8	16513.9	16063.1	15819.3	15367.0	16208.4	11482.6
45°	13939.6	14062.9	14810.4	16146.8	17475.8	18188.1	17844.4	17408.3	16812.0	17772.4	12312.3
47.5°	13421.1	13443.1	13926.3	15393.4	17528.7	19559.7	19768.2	19058.8	18124.9	19032.4	12961.4
50°	11871.8	11911.5	12578.2	14087.9	16909.0	20207.3	21700.8	21028.2	19556.8	20003.1	13197.9
52.5°	8947.9	9003.7	9849.6	11942.2	15205.4	19931.2	23084.2	22921.2	21125.2	20477.5	13211.1
55°	5279.4	5352.8	6160.6	8038.9	11959.9	18174.8	23187.0	23786.2	22363.1	20758.0	13190.6
57.5°	2465.7	2517.2	2979.7	4141.4	7438.3	14364.0	21639.2	23192.9	23046.0	20906.3	13335.9
60°	1309.9	1324.7	1436.2	1793.1	3361.5	9108.0	18618.4	20943.1	22423.4	21111.9	13513.6
62.5°	1001.6	1006.0	1000.0	1042.7	1412.7	4042.9	14073.1	17217.3	19916.6	20957.8	13316.8
65°	867.9	875.2	834.0	823.9	906.1	1442.1	8360.5	12272.8	15650.4	18876.8	11976.0
67.5°	778.4	781.3	731.4	688.8	703.4	779.8	3298.4	6718.7	10359.2	13836.7	8680.6
70°	716.6	713.7	659.4	591.8	572.7	533.0	1048.6	2462.8	4950.5	7016.7	4037.0
72.5°	634.5	635.9	609.4	521.3	475.9	373.0	486.1	718.2	1477.4	1912.0	945.7
75°	562.4	555.1	522.8	467.0	392.1	245.3	240.8	320.1	455.3	452.4	204.1
77.5°	406.8	399.5	409.7	383.3	301.0	158.7	120.4	154.2	185.0	179.1	57.3
80°	298.2	293.7	264.3	318.7	265.8	108.7	74.9	82.3	95.5	80.8	17.6
82.5°	204.1	202.6	186.5	176.2	151.3	66.1	47.0	51.4	61.7	45.6	8.8
85°	32.3	36.7	135.2	107.2	89.6	29.4	32.3	35.3	41.1	24.9	2.9
87.5°	0.0	0.0	63.2	55.8	17.6	11.8	19.1	20.5	20.5	13.2	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°	7005.0	7005.0	7005.0	7005.0	7005.0	7005.0	7005.0	7005.0	7005.0	7005.0	7005.0
2.5°	7031.5	6884.5	6612.9	6332.4	6072.5	5762.7	5549.8	5389.6	5204.6	5154.7	5263.3
5°	7079.9	6802.4	6217.8	5581.9	4984.3	4322.0	3815.4	3414.4	3051.6	2928.2	3039.9
7.5°	7156.3	6743.6	5790.5	4743.4	3703.7	2669.9	1962.0	1496.5	1199.7	1111.7	1158.7
10°	7232.6	6658.5	5295.6	3750.7	2329.1	1299.6	845.8	675.6	612.4	599.2	606.5
12.5°	7295.8	6543.9	4692.0	2666.9	1245.3	696.1	553.6	525.7	516.9	516.9	519.8
15°	7333.9	6370.6	3976.8	1696.1	716.6	525.7	483.2	474.3	474.3	475.9	478.8
17.5°	7329.5	6150.3	3194.0	1026.5	536.0	465.6	440.6	433.2	431.8	434.8	436.2
20°	7275.2	5862.6	2408.4	677.0	467.0	424.4	399.5	386.2	384.8	387.7	390.6
22.5°	7172.5	5507.1	1722.6	521.3	421.5	384.8	353.9	342.2	342.2	345.2	348.1
25°	7047.6	5072.4	1177.9	442.1	380.3	342.2	312.8	302.5	305.5	312.8	314.2
27.5°	6892.0	4583.3	800.4	378.9	330.4	299.6	277.5	270.2	277.5	287.8	290.7
30°	6758.3	4073.7	571.3	327.4	280.5	258.5	245.3	245.3	255.5	274.6	279.0
32.5°	6655.5	3580.3	440.6	289.3	243.7	224.6	217.3	224.6	240.8	259.9	264.3
35°	6642.3	3173.6	373.0	258.5	217.3	198.3	195.3	208.5	224.6	239.4	242.3
37.5°	6743.6	2797.6	336.3	233.5	193.8	176.2	173.2	189.4	205.6	223.2	227.6
40°	6936.0	2502.4	309.9	210.0	174.7	155.7	149.8	161.6	183.5	207.0	212.9
42.5°	7185.7	2258.6	280.5	186.5	155.7	129.3	122.0	135.2	158.7	183.5	190.8
45°	7423.5	2048.6	248.2	160.1	130.7	99.9	96.9	114.5	126.3	151.3	157.2
47.5°	7554.3	1863.6	220.2	130.7	101.3	80.8	80.8	85.2	96.9	126.3	132.2
50°	7510.2	1715.3	190.8	96.9	70.5	61.7	61.7	60.2	77.8	101.3	105.8
52.5°	7422.1	1630.1	164.4	74.9	48.5	44.0	39.7	44.0	54.3	64.6	66.1
55°	7408.9	1615.4	138.0	60.2	33.8	29.4	22.1	22.1	22.1	20.5	17.6
57.5°	7511.7	1638.9	116.1	48.5	24.9	19.1	11.8	0.0	0.0	0.0	0.0
60°	7617.4	1663.9	99.9	33.8	17.6	10.3	1.4	0.0	0.0	0.0	0.0
62.5°	7441.2	1608.1	83.7	20.5	13.2	4.4	0.0	0.0	0.0	0.0	0.0
65°	6536.6	1368.7	66.1	14.6	8.8	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	4649.4	916.3	44.0	8.8	1.4	0.0	0.0	0.0	0.0	0.0	0.0
70°	2122.1	383.3	27.9	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	453.8	119.0	19.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	92.6	86.7	7.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	29.4	136.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	17.6	98.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	2.9	14.6	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)