

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: P193465

Luminaire Tested: **GAN-AF-07-LED-U-AFL-8030-800-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193465
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-07-LED-U-AFL-8030-800-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 3000K, 800mA 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: 22722 lumens
Efficiency: N/A
Efficacy: 77.0 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): 295
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



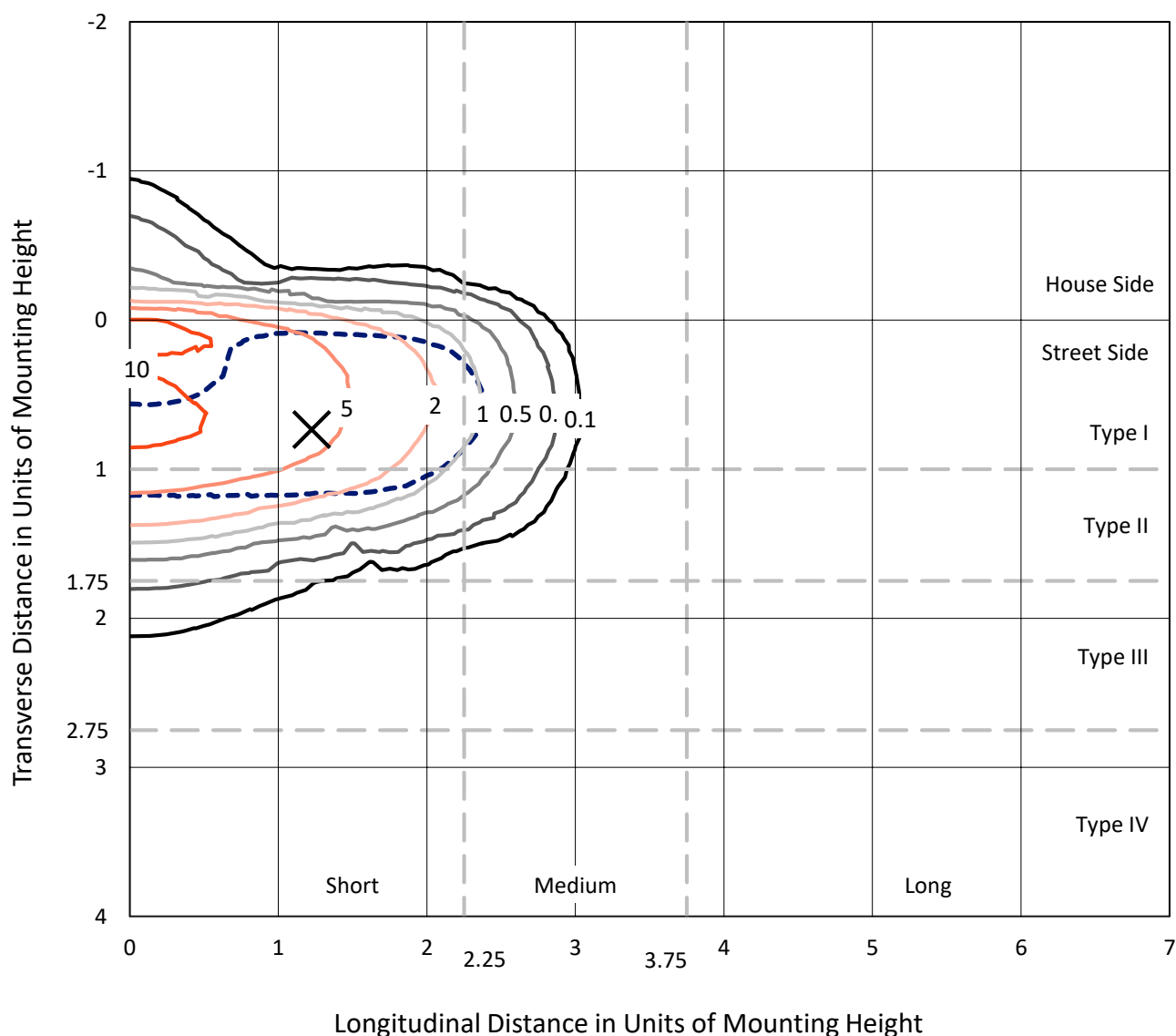
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

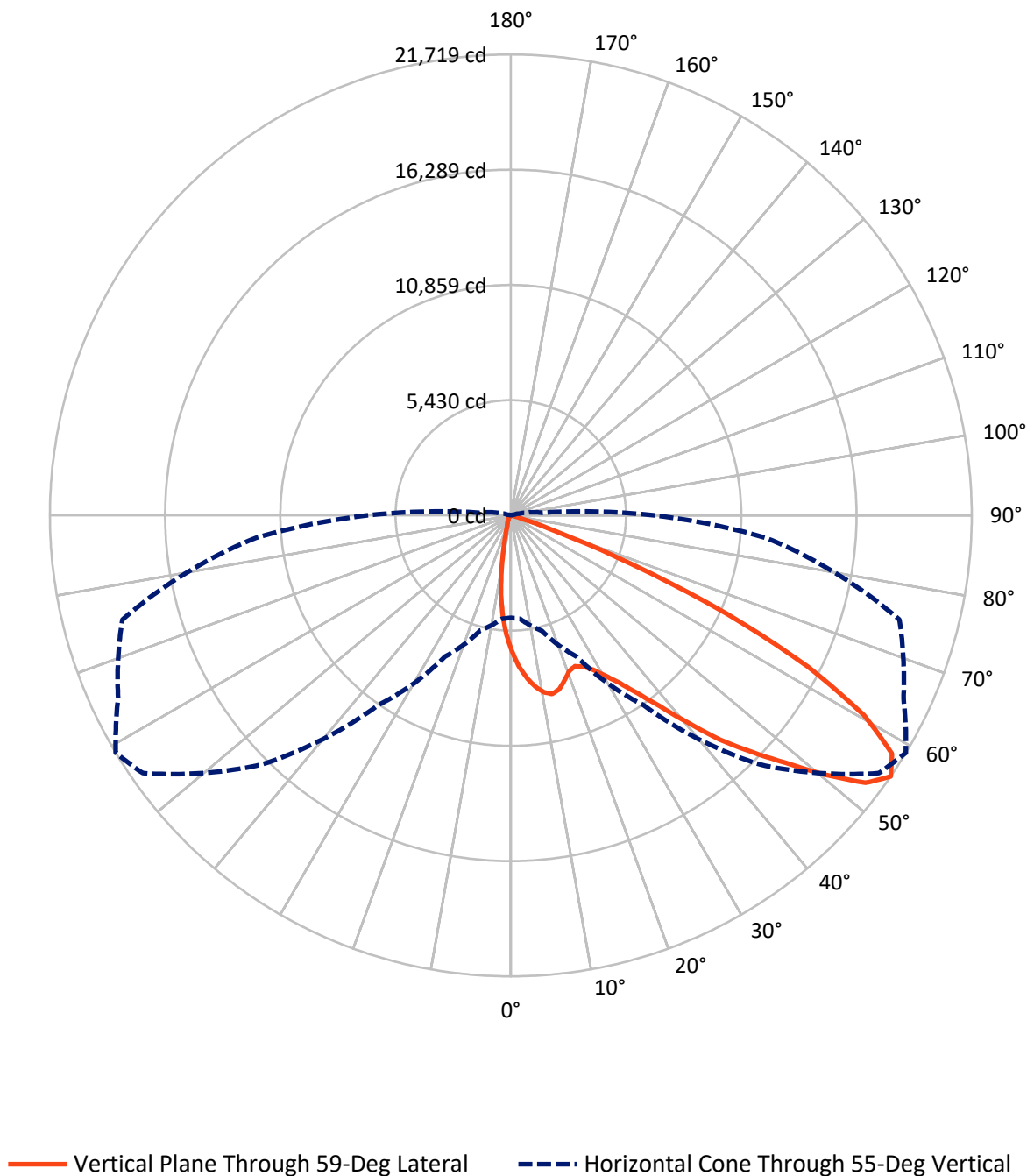


Based on 25 foot mounting height. Maximum calculated value = 12.7 fc
 Type II - Short - Full Cutoff

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Luminous Intensity Polar Plot



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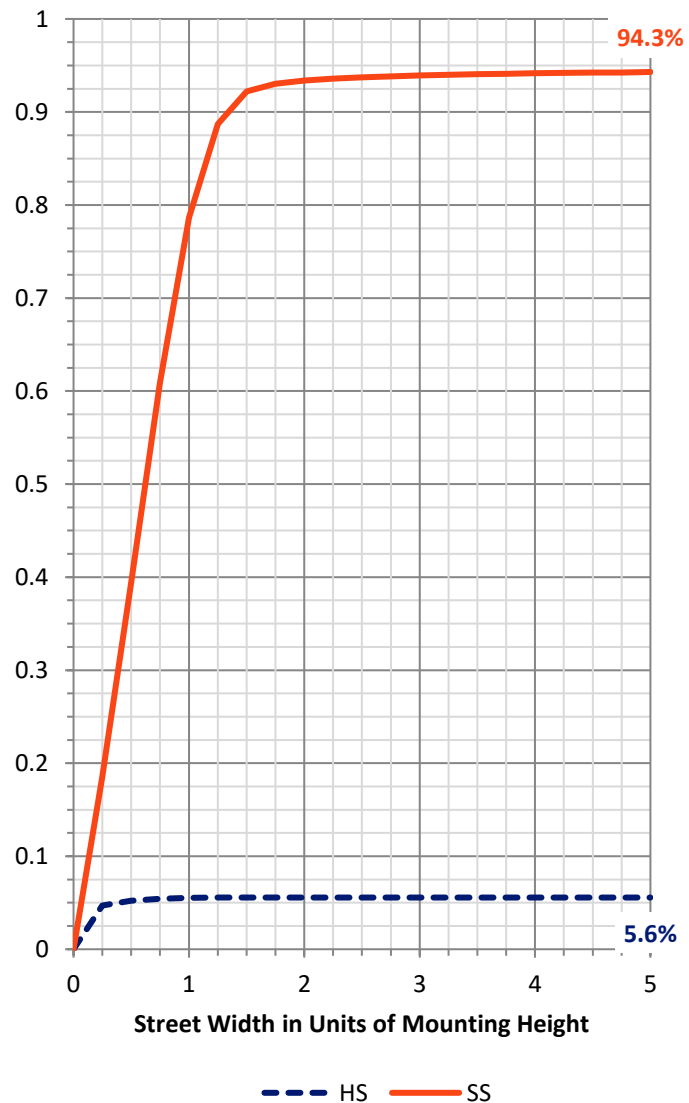
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1269.1	0.0	1269.1
	% Fixture	5.6	0.0	5.6
Street Side	Lumens	21452.9	0.0	21452.9
	% Fixture	94.4	0.0	94.4
Total	Lumens	22722.0	0.0	22722.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	535.7	2.4
10°-20°	1282.7	5.6
20°-30°	2182.7	9.6
30°-40°	3753.8	16.5
40°-50°	5795.4	25.5
50°-60°	5826.2	25.6
60°-70°	2987.7	13.1
70°-80°	323.8	1.4
80°-90°	33.8	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°	22722.0	100.0
0°-180°	22722.0	100.0

Coefficient of Utilization



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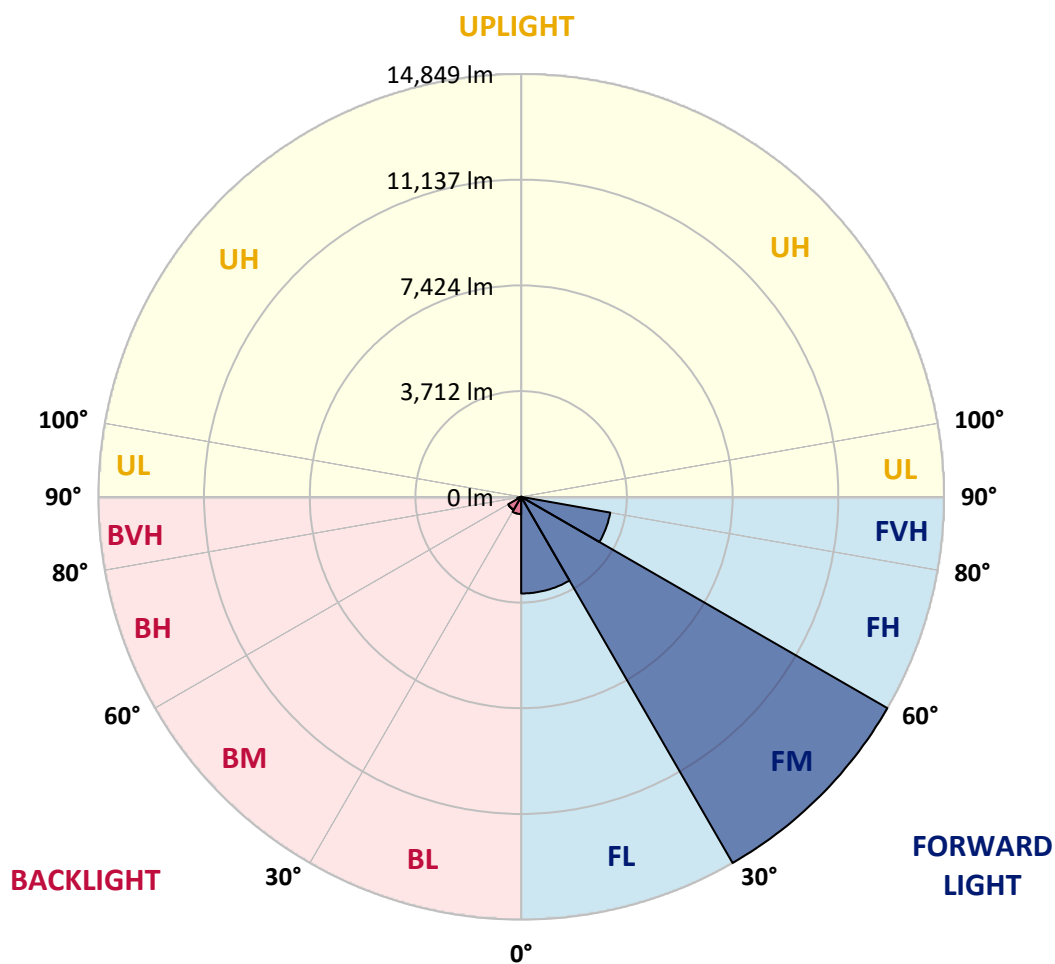
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3395.4	14.9			
FM	(30°-60°)	14848.7	65.3			
FH	(60°-80°)	3175.6	14.0			G2/5000
FVH	(80°-90°)	33.1	0.1			G1/100
BL	(0°-30°)	605.8	2.7	B2/1000		
BM	(30°-60°)	526.7	2.3	B1/1000		
BH	(60°-80°)	136.0	0.6	B1/500		G1/500
BVH	(80°-90°)	0.7	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°	6396.2	6396.2	6396.2	6396.2	6396.2	6396.2	6396.2	6396.2	6396.2	6396.2	6396.2
2.5°	7568.1	7487.7	7463.5	7447.4	7373.7	7281.2	7155.1	7096.1	6975.4	6781.0	6542.3
5°	8261.4	8246.6	8193.0	8163.5	8084.4	7953.0	7751.8	7655.3	7463.5	7136.3	6708.6
7.5°	7958.3	8050.8	8124.6	8248.0	8403.5	8398.1	8229.2	8128.6	7914.1	7482.3	6893.6
10°	6787.7	6862.8	6983.5	7263.7	7835.0	8339.1	8537.6	8465.2	8293.6	7800.1	7072.0
12.5°	6558.4	6550.4	6571.8	6653.6	6952.6	7671.4	8485.3	8631.5	8596.6	8091.1	7240.9
15°	6680.4	6671.0	6668.4	6696.5	6768.9	7072.0	8092.4	8512.1	8781.6	8360.6	7384.4
17.5°	7022.4	6982.1	6960.7	6937.9	6916.4	6991.5	7620.4	8178.2	8809.8	8596.6	7503.8
20°	7608.3	7541.3	7462.2	7333.5	7212.8	7175.2	7422.0	7835.0	8709.2	8776.3	7581.5
22.5°	8344.5	8258.7	8121.9	7887.3	7641.9	7499.7	7519.8	7726.3	8559.1	8972.1	7617.7
25°	9171.9	9061.9	8879.5	8553.7	8193.0	7940.9	7809.5	7881.9	8490.7	9201.4	7659.3
27.5°	10058.2	9936.2	9697.5	9253.6	8844.7	8504.1	8235.9	8226.5	8607.3	9501.7	7726.3
30°	10936.5	10917.7	10606.6	10137.3	9595.6	9181.2	8795.1	8745.4	8933.2	9917.4	7859.1
32.5°	12108.5	11967.7	11586.8	11104.1	10479.2	9981.8	9524.5	9409.2	9433.3	10401.5	8064.3
35°	13586.1	13431.9	12895.6	12229.1	11530.5	10943.2	10437.7	10280.8	10221.8	11194.0	8410.2
37.5°	14540.9	14538.2	14201.6	13523.1	12773.5	12125.9	11576.1	11392.4	11273.1	12151.4	8946.6
40°	14566.4	14629.4	14673.6	14666.9	14133.2	13536.5	13048.4	12821.8	12544.3	13430.6	9639.8
42.5°	13784.6	13946.8	14337.1	14999.5	15315.9	15078.6	14666.9	14444.3	14031.3	14799.7	10484.6
45°	12728.0	12840.6	13523.1	14743.4	15956.9	16607.2	16293.4	15895.2	15350.8	16227.7	11242.2
47.5°	12254.6	12274.7	12715.9	14055.5	16005.2	17859.6	18050.0	17402.4	16549.6	17378.2	11834.9
50°	10840.0	10876.2	11484.9	12863.4	15439.3	18451.0	19814.7	19200.6	17857.0	18264.6	12050.8
52.5°	8170.2	8221.1	8993.5	10904.3	13883.8	18198.9	21077.8	20929.0	19289.1	18697.7	12062.9
55°	4820.6	4887.6	5625.1	7340.2	10920.4	16595.2	21171.7	21718.8	20419.4	18953.8	12044.1
57.5°	2251.4	2298.3	2720.7	3781.4	6791.7	13115.5	19758.4	21177.1	21043.0	19089.3	12176.8
60°	1196.1	1209.5	1311.4	1637.3	3069.4	8316.4	17000.1	19122.8	20474.4	19277.0	12339.1
62.5°	914.5	918.5	913.2	952.0	1290.0	3691.5	12850.0	15720.9	18185.5	19136.2	12159.4
65°	792.5	799.2	761.6	752.3	827.3	1316.8	7633.8	11206.0	14290.1	17236.1	10935.2
67.5°	710.7	713.4	667.8	628.9	642.3	712.0	3011.7	6134.7	9458.8	12634.1	7926.1
70°	654.4	651.7	602.1	540.4	523.0	486.8	957.4	2248.7	4520.2	6406.9	3686.2
72.5°	579.3	580.6	556.5	476.0	434.5	340.6	443.8	655.7	1349.0	1745.9	863.5
75°	513.6	506.9	477.4	426.4	358.0	223.9	219.9	292.3	415.7	413.0	186.4
77.5°	371.4	364.7	374.1	350.0	274.9	144.8	110.0	140.8	169.0	163.6	52.3
80°	272.2	268.2	241.4	291.0	242.7	99.2	68.4	75.1	87.2	73.8	16.1
82.5°	186.4	185.0	170.3	160.9	138.1	60.3	42.9	46.9	56.3	41.6	8.0
85°	29.5	33.5	123.4	97.9	81.8	26.8	29.5	32.2	37.5	22.8	2.7
87.5°	0.0	0.0	57.7	51.0	16.1	10.7	17.4	18.8	18.8	12.1	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°	6396.2	6396.2	6396.2	6396.2	6396.2	6396.2	6396.2	6396.2	6396.2	6396.2	6396.2
2.5°	6420.3	6286.2	6038.1	5782.0	5544.7	5261.7	5067.3	4921.2	4752.2	4706.6	4805.8
5°	6464.5	6211.1	5677.4	5096.8	4551.1	3946.3	3483.7	3117.6	2786.4	2673.8	2775.7
7.5°	6534.3	6157.5	5287.2	4331.2	3381.8	2437.8	1791.5	1366.4	1095.5	1015.1	1058.0
10°	6604.0	6079.7	4835.3	3424.7	2126.7	1186.7	772.4	616.8	559.2	547.1	553.8
12.5°	6661.7	5975.1	4284.2	2435.1	1137.1	635.6	505.5	480.0	472.0	472.0	474.7
15°	6696.5	5816.9	3631.2	1548.8	654.4	480.0	441.2	433.1	433.1	434.5	437.1
17.5°	6692.5	5615.7	2916.5	937.3	489.4	425.1	402.3	395.6	394.2	396.9	398.3
20°	6642.9	5352.9	2199.1	618.2	426.4	387.5	364.7	352.7	351.3	354.0	356.7
22.5°	6549.0	5028.4	1572.9	476.0	384.8	351.3	323.2	312.4	312.4	315.1	317.8
25°	6435.0	4631.5	1075.4	403.6	347.3	312.4	285.6	276.2	278.9	285.6	287.0
27.5°	6292.9	4185.0	730.8	346.0	301.7	273.5	253.4	246.7	253.4	262.8	265.5
30°	6170.9	3719.7	521.6	299.0	256.1	236.0	223.9	223.9	233.3	250.8	254.8
32.5°	6077.0	3269.1	402.3	264.2	222.6	205.2	198.5	205.2	219.9	237.3	241.4
35°	6065.0	2897.7	340.6	236.0	198.5	181.0	178.3	190.4	205.2	218.6	221.3
37.5°	6157.5	2554.4	307.1	213.2	177.0	160.9	158.2	173.0	187.7	203.8	207.8
40°	6333.1	2284.9	282.9	191.8	159.6	142.1	136.8	147.5	167.6	189.1	194.4
42.5°	6561.1	2062.3	256.1	170.3	142.1	118.0	111.3	123.4	144.8	167.6	174.3
45°	6778.3	1870.6	226.6	146.2	119.3	91.2	88.5	104.6	115.3	138.1	143.5
47.5°	6897.7	1701.6	201.1	119.3	92.5	73.8	73.8	77.8	88.5	115.3	120.7
50°	6857.4	1566.2	174.3	88.5	64.4	56.3	56.3	55.0	71.1	92.5	96.5
52.5°	6777.0	1488.4	150.2	68.4	44.3	40.2	36.2	40.2	49.6	59.0	60.3
55°	6764.9	1475.0	126.0	55.0	30.8	26.8	20.1	20.1	20.1	18.8	16.1
57.5°	6858.8	1496.5	105.9	44.3	22.8	17.4	10.7	0.0	0.0	0.0	0.0
60°	6955.3	1519.3	91.2	30.8	16.1	9.4	1.3	0.0	0.0	0.0	0.0
62.5°	6794.4	1468.3	76.4	18.8	12.1	4.0	0.0	0.0	0.0	0.0	0.0
65°	5968.4	1249.7	60.3	13.4	8.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	4245.3	836.7	40.2	8.0	1.3	0.0	0.0	0.0	0.0	0.0	0.0
70°	1937.6	350.0	25.5	2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	414.3	108.6	17.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	84.5	79.1	6.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	26.8	124.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	16.1	89.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	2.7	13.4	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)