

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: P193463

Luminaire Tested: **GAN-AF-05-LED-U-AFL-8030-800-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193463
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-05-LED-U-AFL-8030-800-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 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: 16056 lumens
Efficiency: N/A
Efficacy: 76.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B1 - U0 - G2

Input Watts (W): 210
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

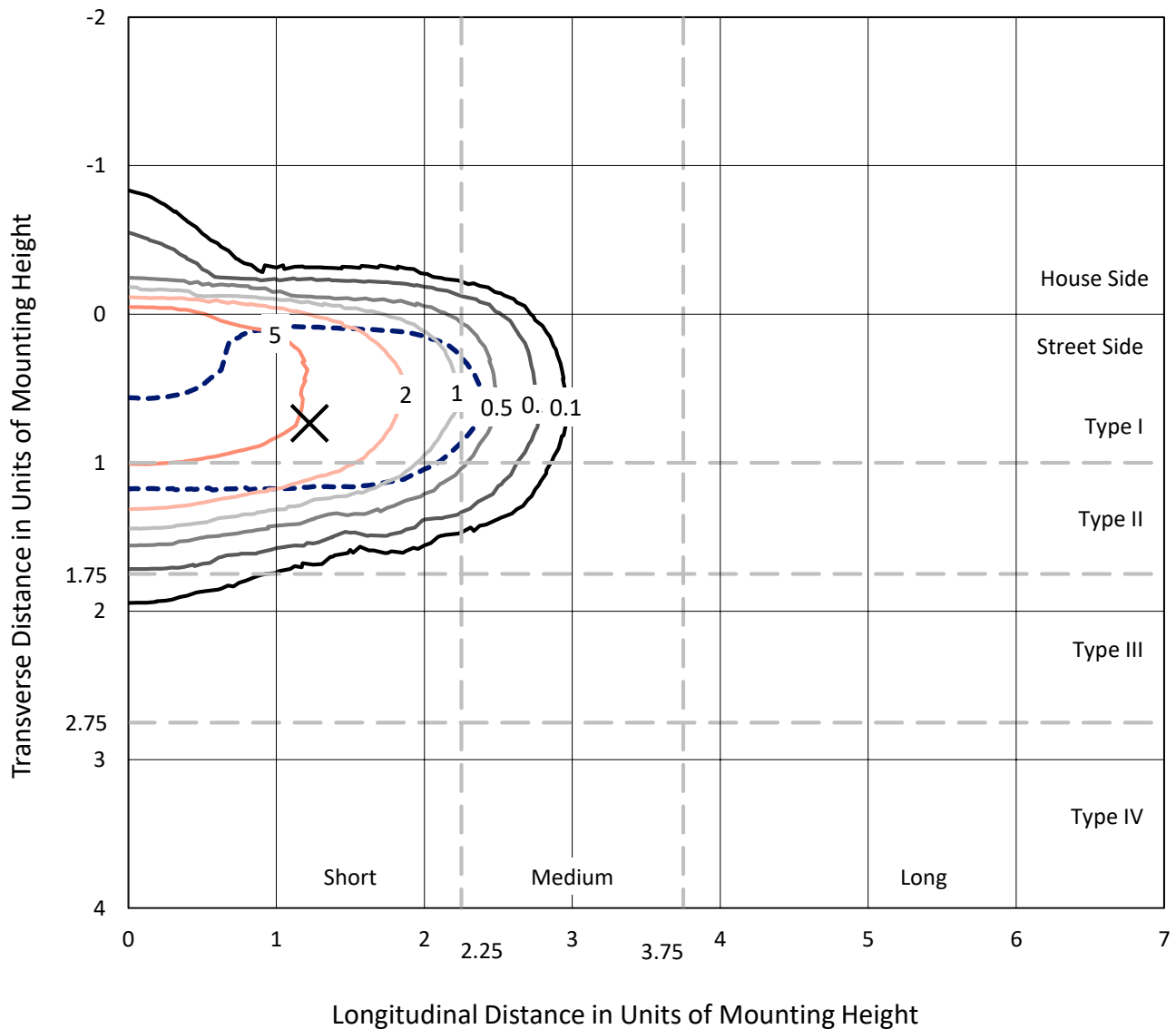


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

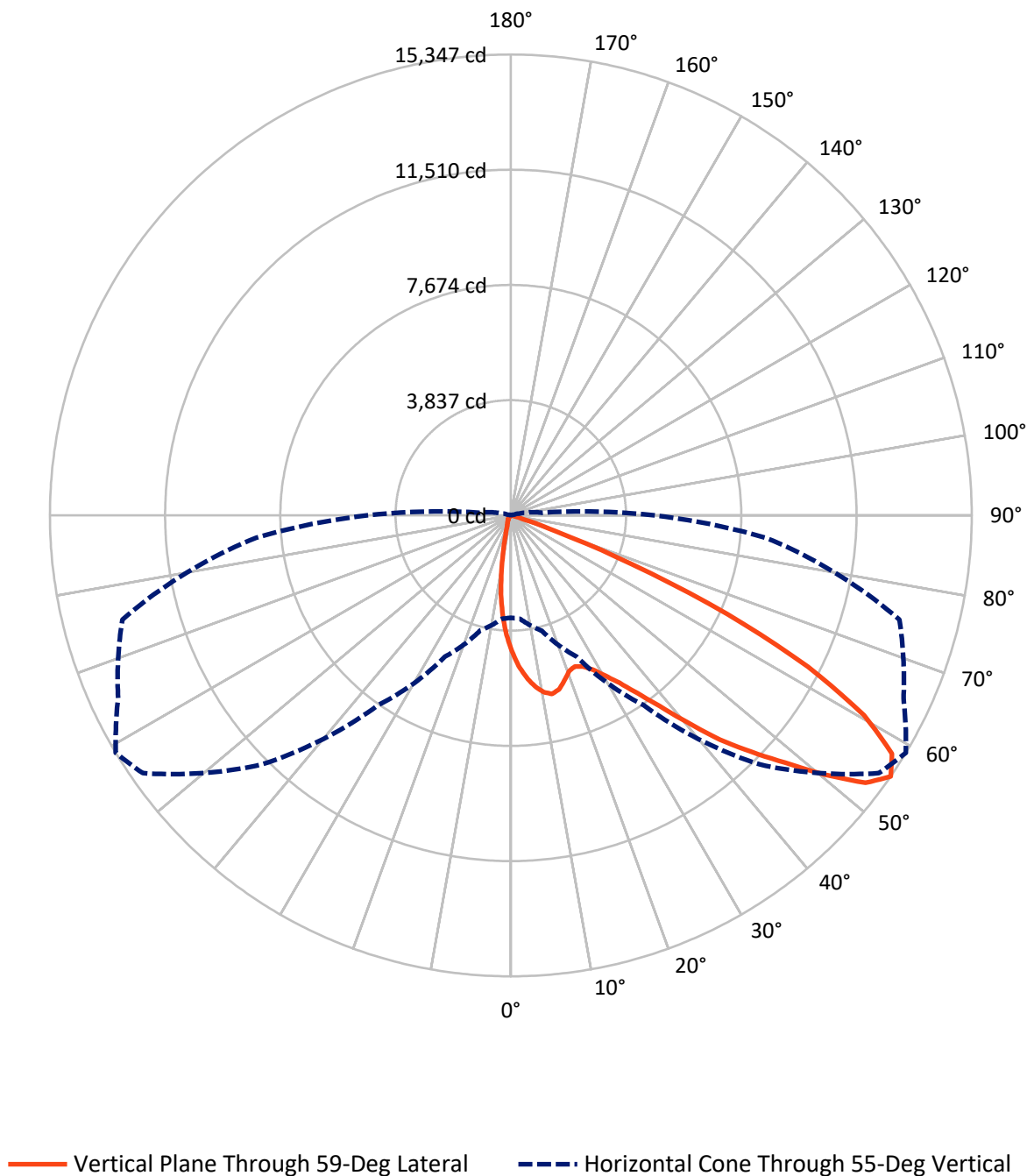


Based on 25 foot mounting height. Maximum calculated value = 9 fc
 Type II - Short - Full Cutoff

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Luminous Intensity Polar Plot



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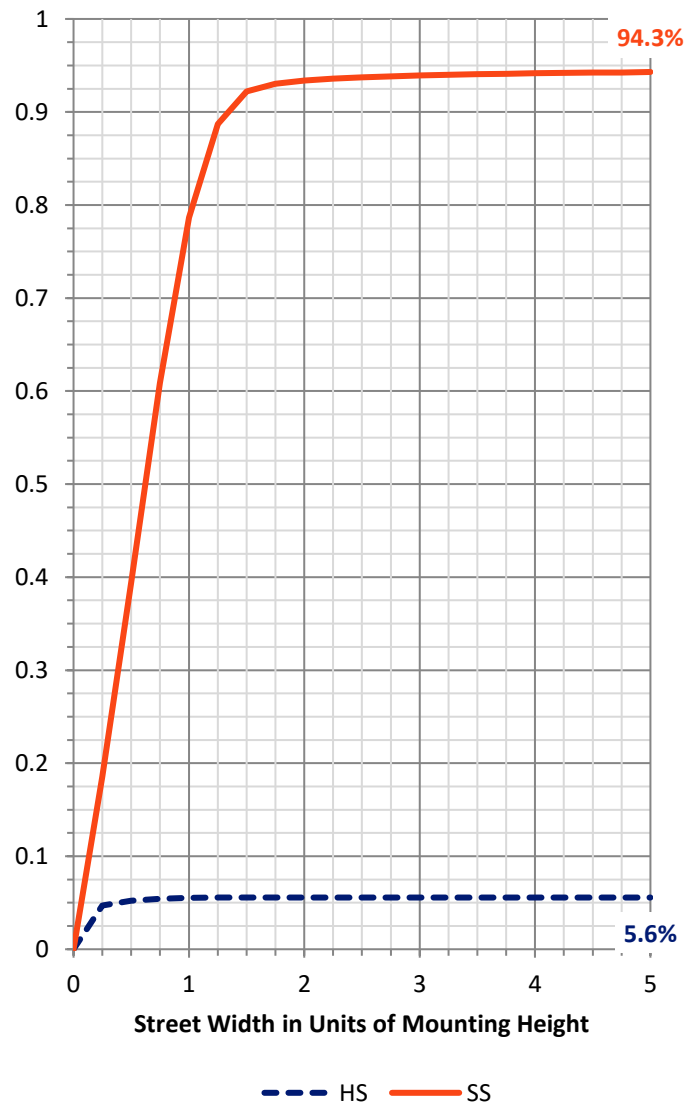
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	896.8	0.0	896.8
	% Fixture	5.6	0.0	5.6
Street Side	Lumens	15159.2	0.0	15159.2
	% Fixture	94.4	0.0	94.4
Total	Lumens	16056.0	0.0	16056.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	378.6	2.4
10°-20°	906.4	5.6
20°-30°	1542.4	9.6
30°-40°	2652.5	16.5
40°-50°	4095.2	25.5
50°-60°	4117.0	25.6
60°-70°	2111.2	13.1
70°-80°	228.8	1.4
80°-90°	23.9	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°	16056.0	100.0
0°-180°	16056.0	100.0

Coefficient of Utilization



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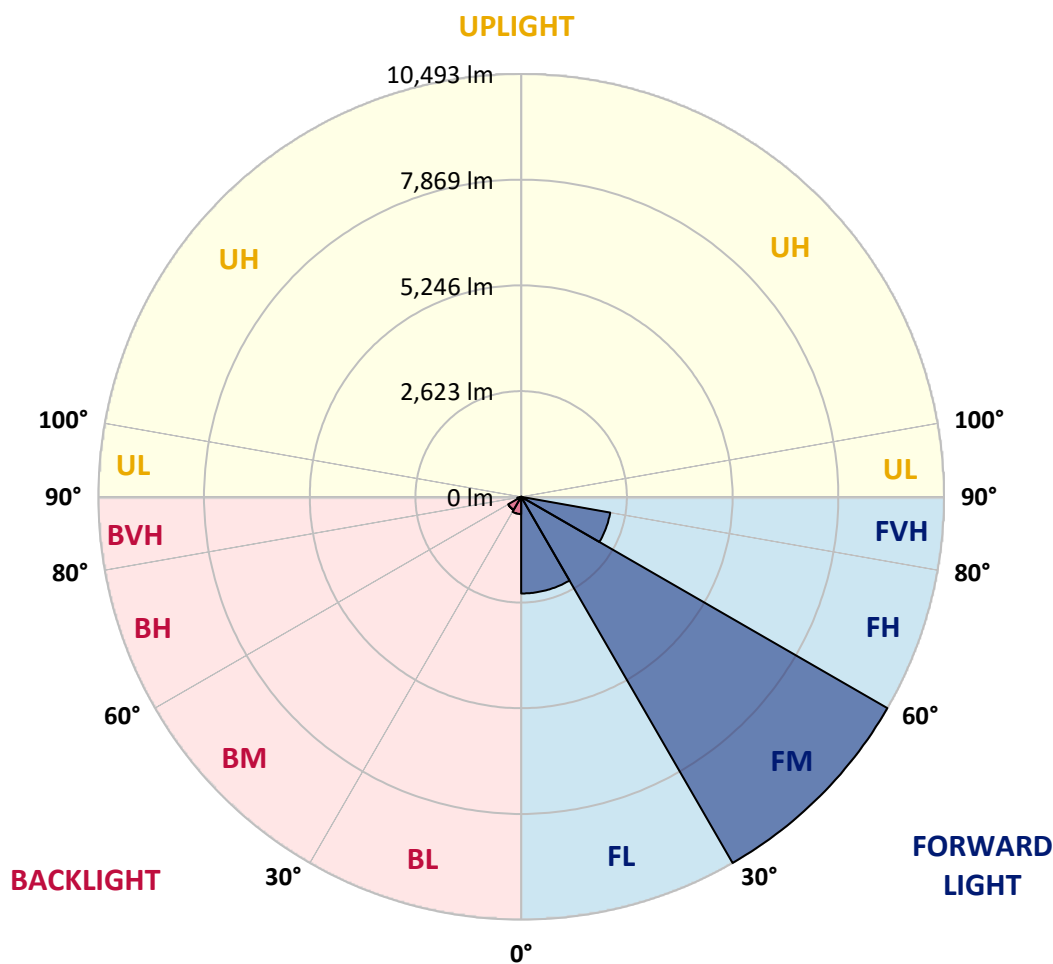
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2399.3	14.9			
FM	(30°-60°)	10492.5	65.3			
FH	(60°-80°)	2243.9	14.0			G2/5000
FVH	(80°-90°)	23.4	0.1			G1/100
BL	(0°-30°)	428.1	2.7	B1/500		
BM	(30°-60°)	372.2	2.3	B1/1000		
BH	(60°-80°)	96.1	0.6	B0/110		G0/110
BVH	(80°-90°)	0.5	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°	55°	59°	65°	75°	85°
0°	4519.7	4519.7	4519.7	4519.7	4519.7	4519.7	4519.7	4519.7	4519.7	4519.7	4519.7
2.5°	5347.8	5291.0	5273.9	5262.6	5210.5	5145.1	5056.0	5014.3	4929.0	4791.6	4623.0
5°	5837.7	5827.3	5789.4	5768.5	5712.6	5619.8	5477.7	5409.4	5273.9	5042.7	4740.5
7.5°	5623.6	5689.0	5741.1	5828.2	5938.2	5934.4	5815.0	5743.9	5592.3	5287.2	4871.2
10°	4796.4	4849.4	4934.7	5132.8	5536.4	5892.7	6032.9	5981.7	5860.5	5511.8	4997.3
12.5°	4634.4	4628.7	4643.8	4701.6	4912.9	5420.8	5996.0	6099.2	6074.6	5717.4	5116.6
15°	4720.6	4713.9	4712.1	4732.0	4783.1	4997.3	5718.3	6014.9	6205.4	5907.8	5218.0
17.5°	4962.2	4933.8	4918.6	4902.5	4887.3	4940.4	5384.8	5779.0	6225.3	6074.6	5302.4
20°	5376.3	5328.9	5273.0	5182.0	5096.8	5070.2	5244.6	5536.4	6154.2	6201.6	5357.3
22.5°	5896.5	5835.8	5739.2	5573.4	5400.0	5299.5	5313.7	5459.7	6048.1	6339.9	5382.9
25°	6481.1	6403.4	6274.5	6044.3	5789.4	5611.3	5518.4	5569.6	5999.7	6501.9	5412.3
27.5°	7107.4	7021.2	6852.5	6538.9	6249.9	6009.2	5819.7	5813.1	6082.2	6714.2	5459.7
30°	7728.0	7714.8	7494.9	7163.3	6780.5	6487.7	6214.8	6179.8	6312.4	7007.9	5553.5
32.5°	8556.2	8456.7	8187.6	7846.5	7404.9	7053.4	6730.3	6648.8	6665.9	7350.0	5698.4
35°	9600.3	9491.4	9112.4	8641.5	8147.8	7732.8	7375.6	7264.7	7223.0	7910.0	5942.9
37.5°	10275.0	10273.1	10035.3	9555.8	9026.1	8568.5	8180.0	8050.2	7965.9	8586.5	6321.9
40°	10293.0	10337.5	10368.8	10364.1	9986.9	9565.3	9220.4	9060.3	8864.1	9490.4	6811.8
42.5°	9740.6	9855.2	10131.0	10599.0	10822.7	10654.9	10364.1	10206.8	9914.9	10457.9	7408.7
45°	8993.9	9073.5	9555.8	10418.1	11275.6	11735.1	11513.4	11232.0	10847.3	11467.0	7944.1
47.5°	8659.5	8673.7	8985.4	9932.0	11309.7	12620.1	12754.7	12297.0	11694.4	12280.0	8362.9
50°	7659.8	7685.4	8115.6	9089.6	10909.8	13038.0	14001.6	13567.6	12618.2	12906.3	8515.4
52.5°	5773.3	5809.3	6355.1	7705.3	9810.7	12859.8	14894.2	14789.0	13630.2	13212.3	8524.0
55°	3406.4	3453.7	3974.9	5186.8	7716.7	11726.6	14960.5	15347.1	14428.9	13393.3	8510.7
57.5°	1590.9	1624.1	1922.5	2672.0	4799.2	9267.8	13961.8	14964.3	14869.5	13489.0	8604.5
60°	845.2	854.7	926.7	1156.9	2168.9	5876.6	12012.8	13512.7	14467.8	13621.7	8719.1
62.5°	646.2	649.1	645.3	672.7	911.5	2608.5	9080.2	11108.8	12850.4	13522.2	8592.2
65°	560.0	564.7	538.2	531.6	584.6	930.5	5394.3	7918.5	10097.8	12179.5	7727.1
67.5°	502.2	504.1	471.9	444.4	453.9	503.1	2128.1	4334.9	6683.9	8927.6	5600.8
70°	462.4	460.5	425.4	381.9	369.5	344.0	676.5	1589.0	3194.1	4527.3	2604.8
72.5°	409.3	410.3	393.2	336.4	307.0	240.7	313.6	463.3	953.2	1233.7	610.2
75°	362.9	358.2	337.3	301.3	253.0	158.2	155.4	206.6	293.7	291.8	131.7
77.5°	262.5	257.7	264.4	247.3	194.2	102.3	77.7	99.5	119.4	115.6	37.0
80°	192.3	189.5	170.6	205.6	171.5	70.1	48.3	53.1	61.6	52.1	11.4
82.5°	131.7	130.8	120.3	113.7	97.6	42.6	30.3	33.2	39.8	29.4	5.7
85°	20.8	23.7	87.2	69.2	57.8	19.0	20.8	22.7	26.5	16.1	1.9
87.5°	0.0	0.0	40.7	36.0	11.4	7.6	12.3	13.3	13.3	8.5	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°	4519.7	4519.7	4519.7	4519.7	4519.7	4519.7	4519.7	4519.7	4519.7	4519.7	4519.7
2.5°	4536.8	4442.0	4266.7	4085.7	3918.0	3718.1	3580.7	3477.4	3358.0	3325.8	3395.9
5°	4568.0	4388.9	4011.8	3601.6	3215.9	2788.6	2461.7	2203.0	1969.0	1889.4	1961.4
7.5°	4617.3	4351.0	3736.1	3060.5	2389.7	1722.6	1265.9	965.5	774.1	717.3	747.6
10°	4666.6	4296.1	3416.8	2420.0	1502.8	838.6	545.8	435.9	395.1	386.6	391.3
12.5°	4707.3	4222.2	3027.4	1720.7	803.5	449.1	357.2	339.2	333.5	333.5	335.4
15°	4732.0	4110.4	2565.9	1094.4	462.4	339.2	311.7	306.1	306.1	307.0	308.9
17.5°	4729.1	3968.2	2060.9	662.3	345.8	300.4	284.3	279.5	278.6	280.5	281.4
20°	4694.1	3782.5	1553.9	436.8	301.3	273.8	257.7	249.2	248.3	250.1	252.0
22.5°	4627.7	3553.2	1111.4	336.4	271.9	248.3	228.4	220.8	220.8	222.7	224.6
25°	4547.2	3272.8	759.9	285.2	245.4	220.8	201.8	195.2	197.1	201.8	202.8
27.5°	4446.7	2957.2	516.4	244.5	213.2	193.3	179.1	174.3	179.1	185.7	187.6
30°	4360.5	2628.4	368.6	211.3	181.0	166.8	158.2	158.2	164.9	177.2	180.0
32.5°	4294.2	2310.1	284.3	186.7	157.3	145.0	140.2	145.0	155.4	167.7	170.6
35°	4285.7	2047.6	240.7	166.8	140.2	127.9	126.0	134.5	145.0	154.4	156.3
37.5°	4351.0	1805.0	217.0	150.7	125.1	113.7	111.8	122.2	132.7	144.0	146.9
40°	4475.2	1614.6	199.9	135.5	112.8	100.4	96.6	104.2	118.4	133.6	137.4
42.5°	4636.3	1457.3	181.0	120.3	100.4	83.4	78.6	87.2	102.3	118.4	123.2
45°	4789.8	1321.8	160.1	103.3	84.3	64.4	62.5	73.9	81.5	97.6	101.4
47.5°	4874.1	1202.4	142.1	84.3	65.4	52.1	52.1	55.0	62.5	81.5	85.3
50°	4845.7	1106.7	123.2	62.5	45.5	39.8	39.8	38.8	50.2	65.4	68.2
52.5°	4788.8	1051.8	106.1	48.3	31.3	28.4	25.6	28.4	35.1	41.7	42.6
55°	4780.3	1042.3	89.1	38.8	21.8	19.0	14.2	14.2	14.2	13.3	11.4
57.5°	4846.6	1057.4	74.9	31.3	16.1	12.3	7.6	0.0	0.0	0.0	0.0
60°	4914.8	1073.5	64.4	21.8	11.4	6.6	0.9	0.0	0.0	0.0	0.0
62.5°	4801.1	1037.5	54.0	13.3	8.5	2.8	0.0	0.0	0.0	0.0	0.0
65°	4217.4	883.1	42.6	9.5	5.7	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	2999.9	591.3	28.4	5.7	0.9	0.0	0.0	0.0	0.0	0.0	0.0
70°	1369.2	247.3	18.0	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	292.8	76.7	12.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	59.7	55.9	4.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	19.0	88.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	11.4	63.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	1.9	9.5	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)