

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: P193475

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193475
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-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 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: 28124 lumens
Efficiency: N/A
Efficacy: 71.9 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): 391
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

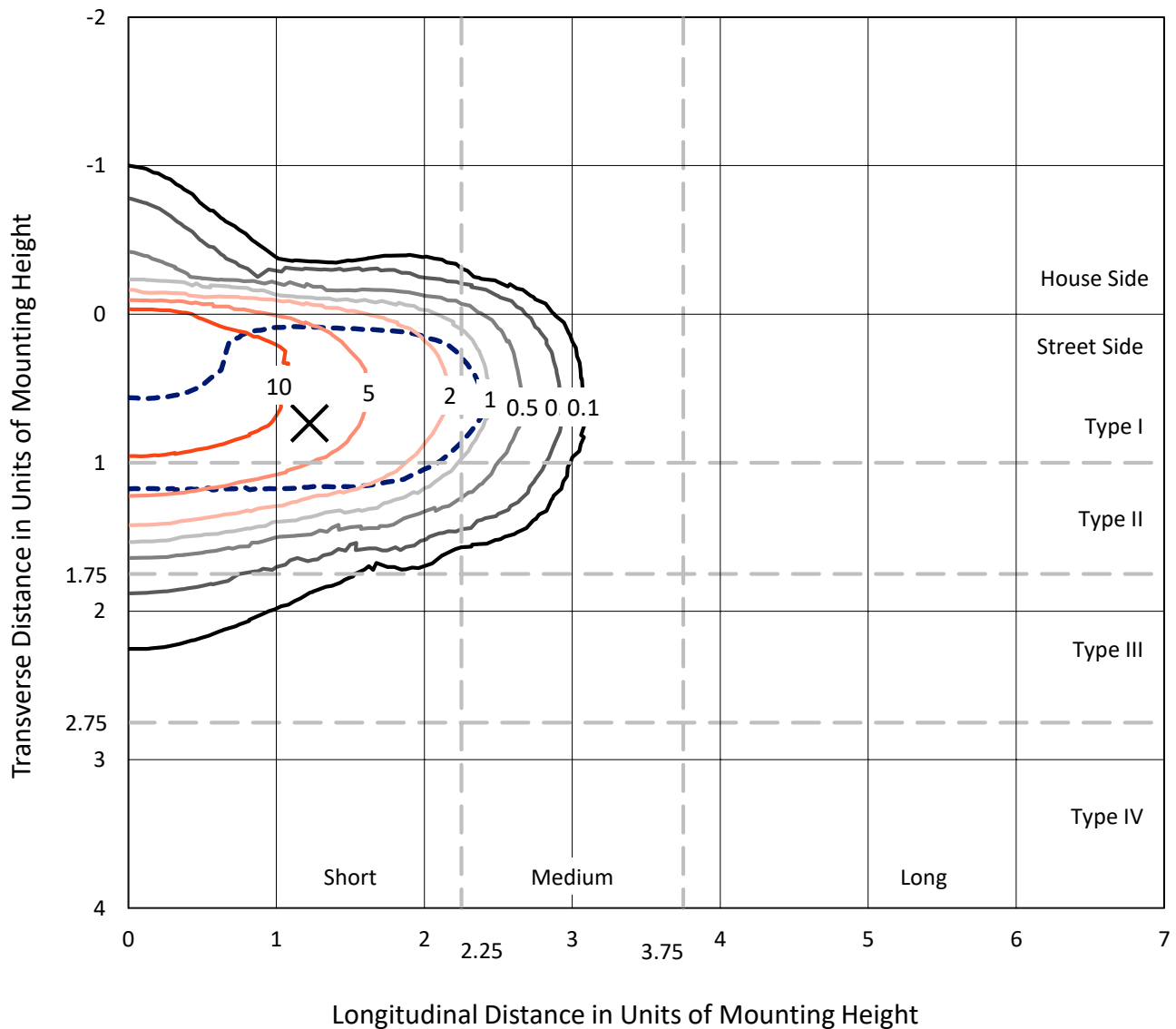


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

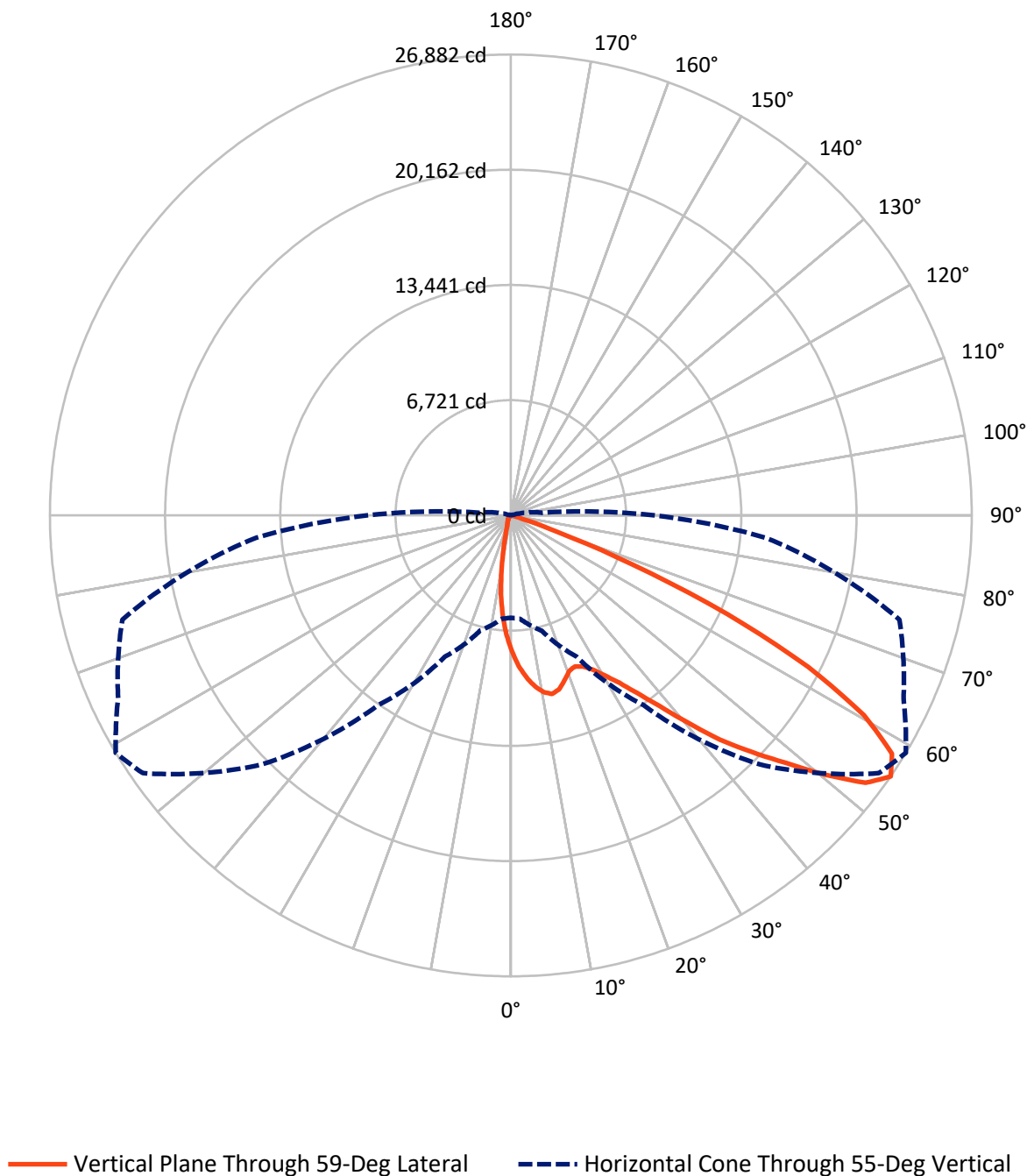


Based on 25 foot mounting height. Maximum calculated value = 15.8 fc
 Type II - Short - Full Cutoff

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Luminous Intensity Polar Plot



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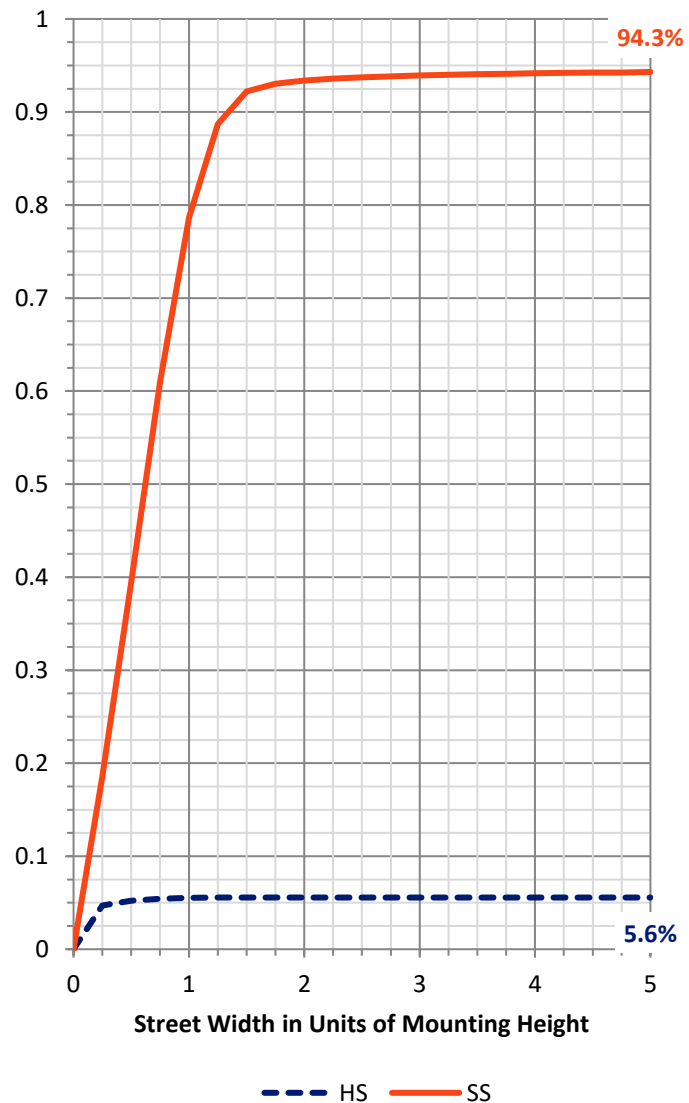
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1570.9	0.0	1570.9
	% Fixture	5.6	0.0	5.6
Street Side	Lumens	26553.1	0.0	26553.1
	% Fixture	94.4	0.0	94.4
Total	Lumens	28124.0	0.0	28124.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	663.1	2.4
10°-20°	1587.7	5.6
20°-30°	2701.6	9.6
30°-40°	4646.2	16.5
40°-50°	7173.3	25.5
50°-60°	7211.4	25.6
60°-70°	3698.1	13.1
70°-80°	400.8	1.4
80°-90°	41.9	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°	28124.0	100.0
0°-180°	28124.0	100.0

Coefficient of Utilization



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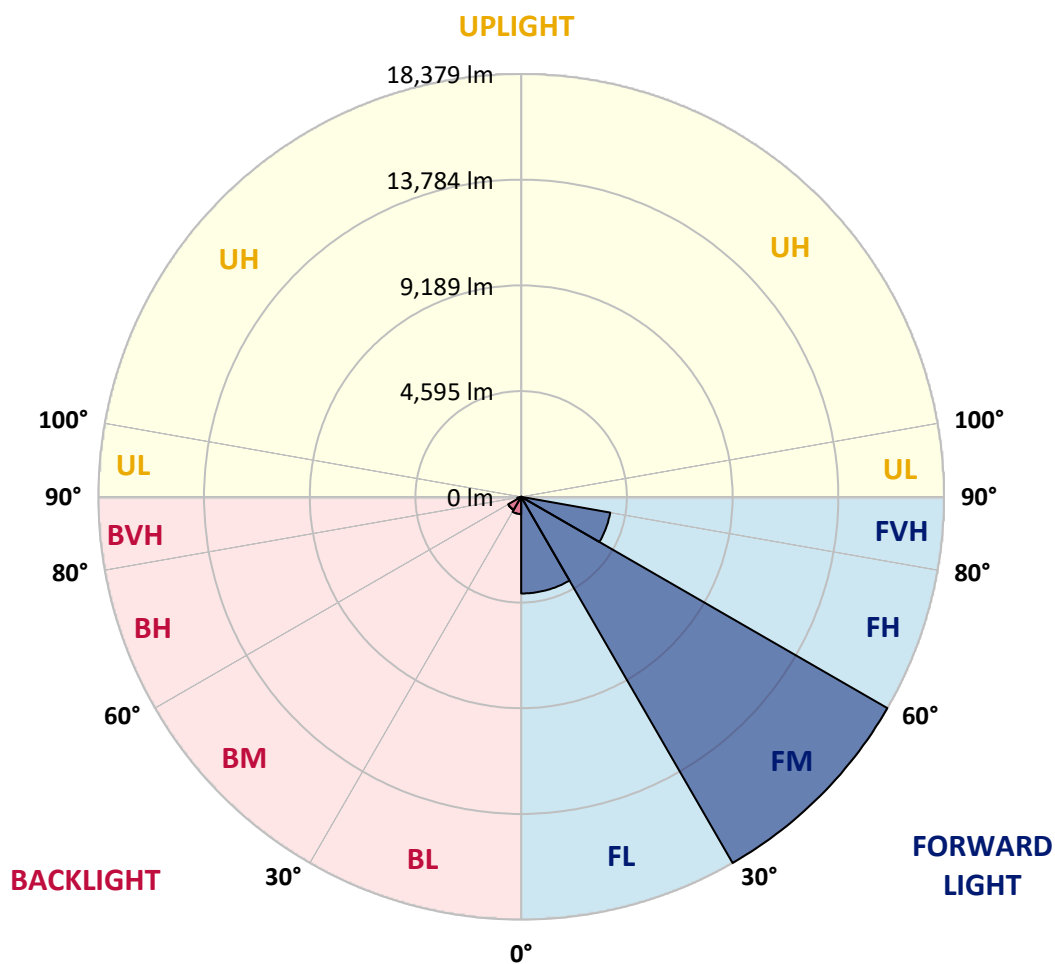
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4202.6	14.9			
FM	(30°-60°)	18378.9	65.3			
FH	(60°-80°)	3930.5	14.0			G2/5000
FVH	(80°-90°)	41.0	0.1			G1/100
BL	(0°-30°)	749.8	2.7	B2/1000		
BM	(30°-60°)	651.9	2.3	B1/1000		
BH	(60°-80°)	168.3	0.6	B1/500		G1/500
BVH	(80°-90°)	0.9	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°	7916.8	7916.8	7916.8	7916.8	7916.8	7916.8	7916.8	7916.8	7916.8	7916.8	7916.8
2.5°	9367.4	9267.8	9237.9	9218.0	9126.7	9012.2	8856.2	8783.2	8633.8	8393.1	8097.7
5°	10225.5	10207.2	10140.8	10104.3	10006.4	9843.7	9594.8	9475.3	9237.9	8833.0	8303.5
7.5°	9850.4	9964.9	10056.2	10208.9	10401.4	10394.7	10185.6	10061.1	9795.6	9261.2	8532.6
10°	8401.4	8494.4	8643.8	8990.6	9697.7	10321.7	10567.4	10477.7	10265.3	9654.5	8753.3
12.5°	8117.6	8107.7	8134.2	8235.5	8605.6	9495.2	10502.6	10683.5	10640.4	10014.7	8962.4
15°	8268.7	8257.0	8253.7	8288.6	8378.2	8753.3	10016.3	10535.8	10869.4	10348.3	9140.0
17.5°	8691.9	8642.1	8615.5	8587.3	8560.8	8653.7	9432.1	10122.6	10904.3	10640.4	9287.7
20°	9417.2	9334.2	9236.3	9076.9	8927.6	8881.1	9186.5	9697.7	10779.8	10862.8	9384.0
22.5°	10328.4	10222.1	10052.8	9762.4	9458.7	9282.7	9307.6	9563.2	10593.9	11105.1	9428.8
25°	11352.4	11216.3	10990.6	10587.3	10140.8	9828.8	9666.1	9755.8	10509.3	11388.9	9480.2
27.5°	12449.5	12298.4	12003.0	11453.6	10947.4	10525.9	10193.9	10182.3	10653.7	11760.7	9563.2
30°	13536.6	13513.3	13128.3	12547.4	11876.9	11364.0	10886.0	10824.6	11057.0	12275.2	9727.5
32.5°	14987.2	14812.9	14341.5	13744.0	12970.6	12354.9	11788.9	11646.2	11676.0	12874.4	9981.5
35°	16816.2	16625.3	15961.4	15136.5	14271.8	13544.9	12919.2	12725.0	12651.9	13855.2	10409.7
37.5°	17997.9	17994.5	17578.0	16738.1	15810.4	15008.7	14328.3	14100.9	13953.2	15040.3	11073.6
40°	18029.4	18107.4	18162.2	18153.9	17493.3	16754.7	16150.6	15870.1	15526.6	16623.6	11931.6
42.5°	17061.8	17262.6	17745.6	18565.5	18957.2	18663.4	18153.9	17878.4	17367.2	18318.2	12977.3
45°	15753.9	15893.4	16738.1	18248.5	19750.5	20555.5	20167.1	19674.2	19000.3	20085.8	13915.0
47.5°	15168.1	15193.0	15739.0	17397.1	19810.3	22105.6	22341.3	21539.7	20484.1	21509.8	14648.6
50°	13417.1	13461.9	14215.4	15921.6	19109.9	22837.6	24525.5	23765.4	22102.3	22606.9	14915.8
52.5°	10112.6	10175.7	11131.7	13496.7	17184.6	22525.5	26088.9	25904.7	23874.9	23143.0	14930.7
55°	5966.6	6049.6	6962.5	9085.2	13516.7	20540.5	26205.1	26882.3	25274.0	23460.0	14907.5
57.5°	2786.6	2844.7	3367.5	4680.4	8406.4	16233.6	24455.8	26211.8	26045.8	23627.6	15071.8
60°	1480.5	1497.1	1623.2	2026.5	3799.1	10293.5	21041.8	23669.1	25342.1	23860.0	15272.6
62.5°	1131.9	1136.9	1130.3	1178.4	1596.6	4569.2	15905.0	19458.4	22509.0	23685.7	15050.2
65°	980.9	989.2	942.7	931.1	1024.0	1629.8	9448.7	13870.2	17687.5	21333.9	13534.9
67.5°	879.6	883.0	826.5	778.4	795.0	881.3	3727.7	7593.2	11707.6	15637.8	9810.5
70°	809.9	806.6	745.2	668.9	647.3	602.5	1185.0	2783.3	5594.9	7930.1	4562.5
72.5°	717.0	718.7	688.8	589.2	537.7	421.6	549.4	811.6	1669.7	2160.9	1068.9
75°	635.7	627.4	590.9	527.8	443.1	277.2	272.2	361.8	514.5	511.2	230.7
77.5°	459.7	451.4	463.1	433.2	340.2	179.2	136.1	174.3	209.1	202.5	64.7
80°	336.9	331.9	298.7	360.2	300.4	122.8	84.6	92.9	107.9	91.3	19.9
82.5°	230.7	229.0	210.8	199.2	170.9	74.7	53.1	58.1	69.7	51.5	10.0
85°	36.5	41.5	152.7	121.2	101.2	33.2	36.5	39.8	46.5	28.2	3.3
87.5°	0.0	0.0	71.4	63.1	19.9	13.3	21.6	23.2	23.2	14.9	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°	7916.8	7916.8	7916.8	7916.8	7916.8	7916.8	7916.8	7916.8	7916.8	7916.8	7916.8
2.5°	7946.7	7780.7	7473.7	7156.7	6862.9	6512.7	6272.0	6091.1	5882.0	5825.6	5948.4
5°	8001.4	7687.8	7027.2	6308.5	5633.0	4884.5	4311.9	3858.8	3448.9	3309.5	3435.6
7.5°	8087.8	7621.4	6544.2	5360.9	4185.8	3017.3	2217.4	1691.2	1356.0	1256.4	1309.5
10°	8174.1	7525.1	5984.9	4238.9	2632.3	1468.8	956.0	763.5	692.1	677.2	685.5
12.5°	8245.4	7395.7	5302.8	3014.0	1407.4	786.7	625.7	594.2	584.2	584.2	587.5
15°	8288.6	7199.8	4494.5	1917.0	809.9	594.2	546.0	536.1	536.1	537.7	541.1
17.5°	8283.6	6950.9	3609.9	1160.1	605.8	526.1	497.9	489.6	488.0	491.3	492.9
20°	8222.2	6625.6	2721.9	765.1	527.8	479.7	451.4	436.5	434.8	438.2	441.5
22.5°	8106.0	6223.9	1946.8	589.2	476.3	434.8	400.0	386.7	386.7	390.0	393.4
25°	7964.9	5732.6	1331.1	499.6	429.9	386.7	353.5	341.9	345.2	353.5	355.2
27.5°	7789.0	5179.9	904.5	428.2	373.4	338.6	313.7	305.4	313.7	325.3	328.6
30°	7638.0	4604.0	645.6	370.1	317.0	292.1	277.2	277.2	288.8	310.4	315.3
32.5°	7521.8	4046.4	497.9	327.0	275.5	253.9	245.6	253.9	272.2	293.8	298.7
35°	7506.9	3586.6	421.6	292.1	245.6	224.1	220.7	235.7	253.9	270.5	273.9
37.5°	7621.4	3161.7	380.1	263.9	219.1	199.2	195.8	214.1	232.4	252.3	257.3
40°	7838.8	2828.1	350.2	237.3	197.5	175.9	169.3	182.6	207.5	234.0	240.7
42.5°	8120.9	2552.6	317.0	210.8	175.9	146.1	137.8	152.7	179.2	207.5	215.8
45°	8389.8	2315.3	280.5	180.9	147.7	112.9	109.5	129.5	142.7	170.9	177.6
47.5°	8537.5	2106.2	249.0	147.7	114.5	91.3	91.3	96.3	109.5	142.7	149.4
50°	8487.7	1938.5	215.8	109.5	79.7	69.7	69.7	68.0	88.0	114.5	119.5
52.5°	8388.2	1842.3	185.9	84.6	54.8	49.8	44.8	49.8	61.4	73.0	74.7
55°	8373.2	1825.7	156.0	68.0	38.2	33.2	24.9	24.9	24.9	23.2	19.9
57.5°	8489.4	1852.2	131.1	54.8	28.2	21.6	13.3	0.0	0.0	0.0	0.0
60°	8608.9	1880.4	112.9	38.2	19.9	11.6	1.7	0.0	0.0	0.0	0.0
62.5°	8409.7	1817.4	94.6	23.2	14.9	5.0	0.0	0.0	0.0	0.0	0.0
65°	7387.4	1546.8	74.7	16.6	10.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	5254.6	1035.7	49.8	10.0	1.7	0.0	0.0	0.0	0.0	0.0	0.0
70°	2398.3	433.2	31.5	3.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	512.8	134.4	21.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	104.6	97.9	8.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	33.2	154.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	19.9	111.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	3.3	16.6	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)