

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: P193757

Luminaire Tested: **GAN-AF-09-LED-U-SL4-8030-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193757
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24301)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-AF-09-LED-U-SL4-8030-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 35242 lumens
Efficiency: N/A
Efficacy: 70.3 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B2 - U0 - G5

Input Watts (W): 501
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

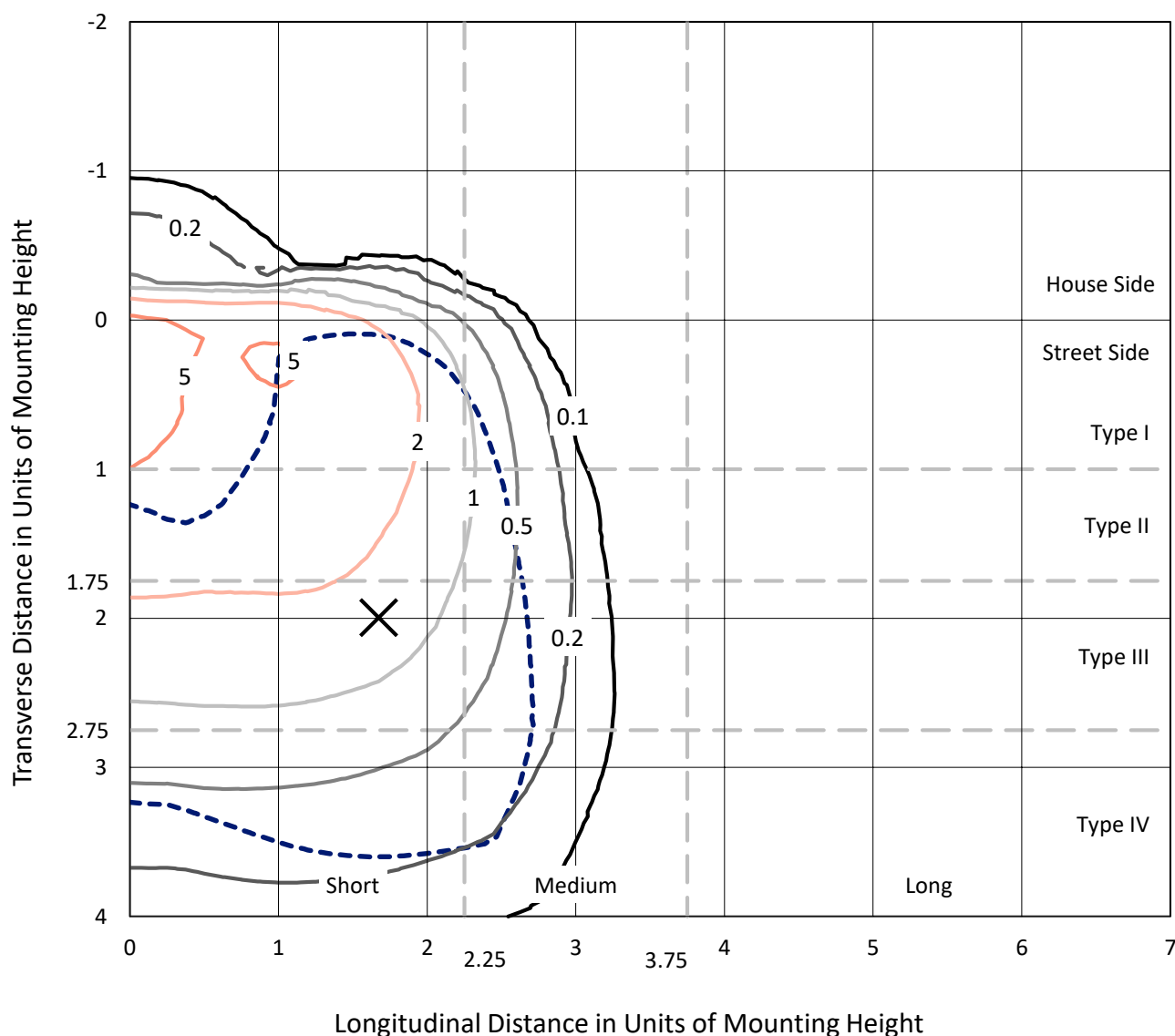


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

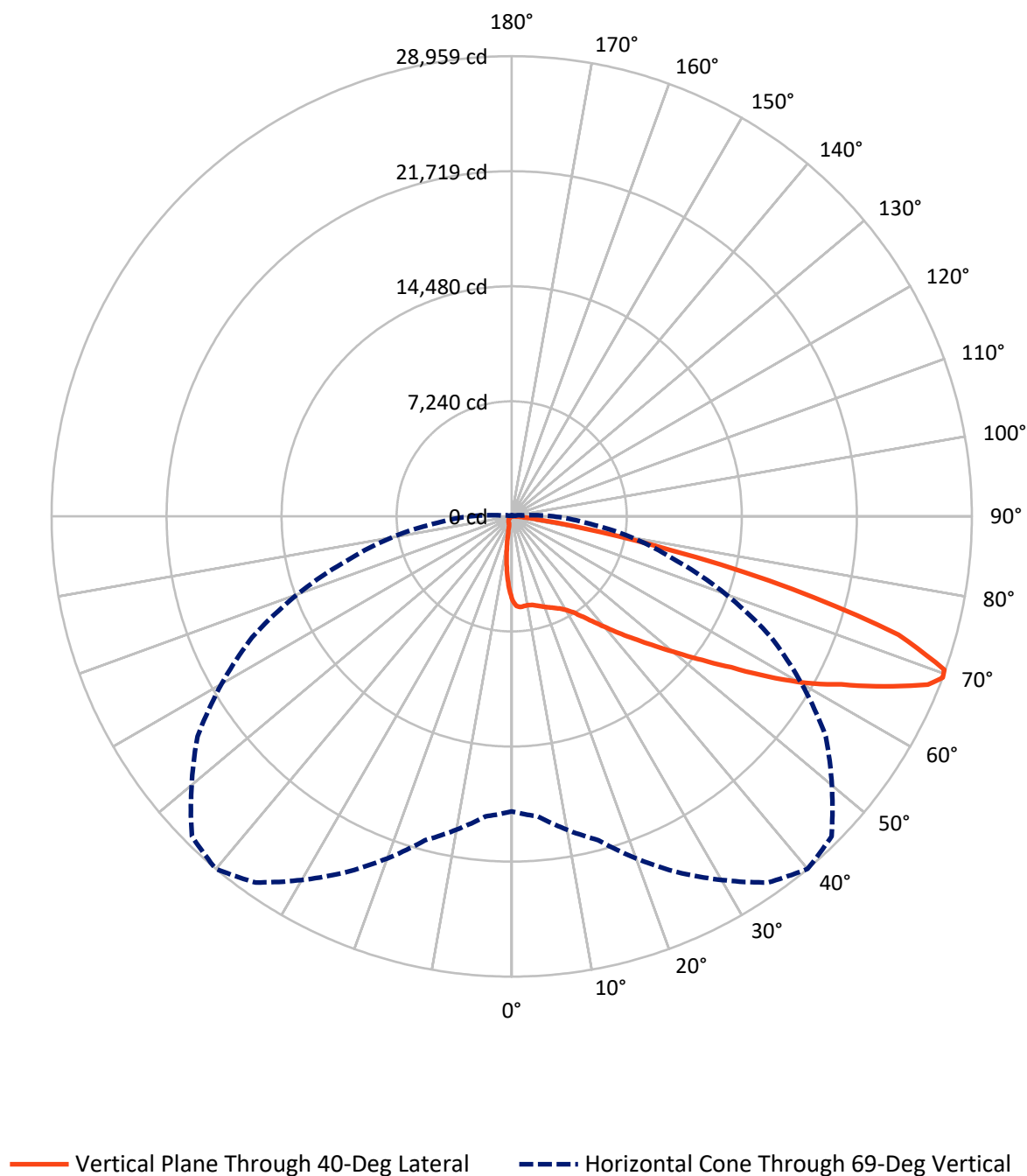


Based on 30 foot mounting height. Maximum calculated value = 6.4 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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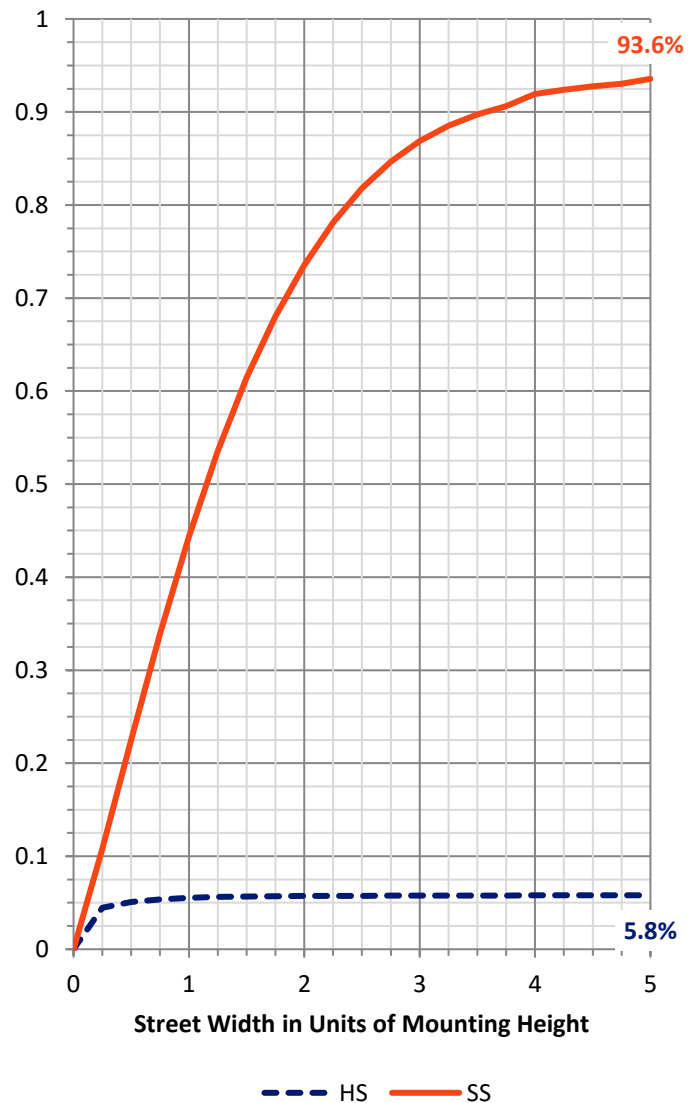
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2061.9	0.0	2061.9
	% Fixture	5.9	0.0	5.9
Street Side	Lumens	33180.1	0.0	33180.1
	% Fixture	94.1	0.0	94.1
Total	Lumens	35242.0	0.0	35242.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	426.9	1.2
10°-20°	1049.9	3.0
20°-30°	1768.3	5.0
30°-40°	2894.8	8.2
40°-50°	5012.3	14.2
50°-60°	7894.8	22.4
60°-70°	10310.3	29.3
70°-80°	5310.3	15.1
80°-90°	574.4	1.6
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°	35242.0	100.0
0°-180°	35242.0	100.0

Coefficient of Utilization



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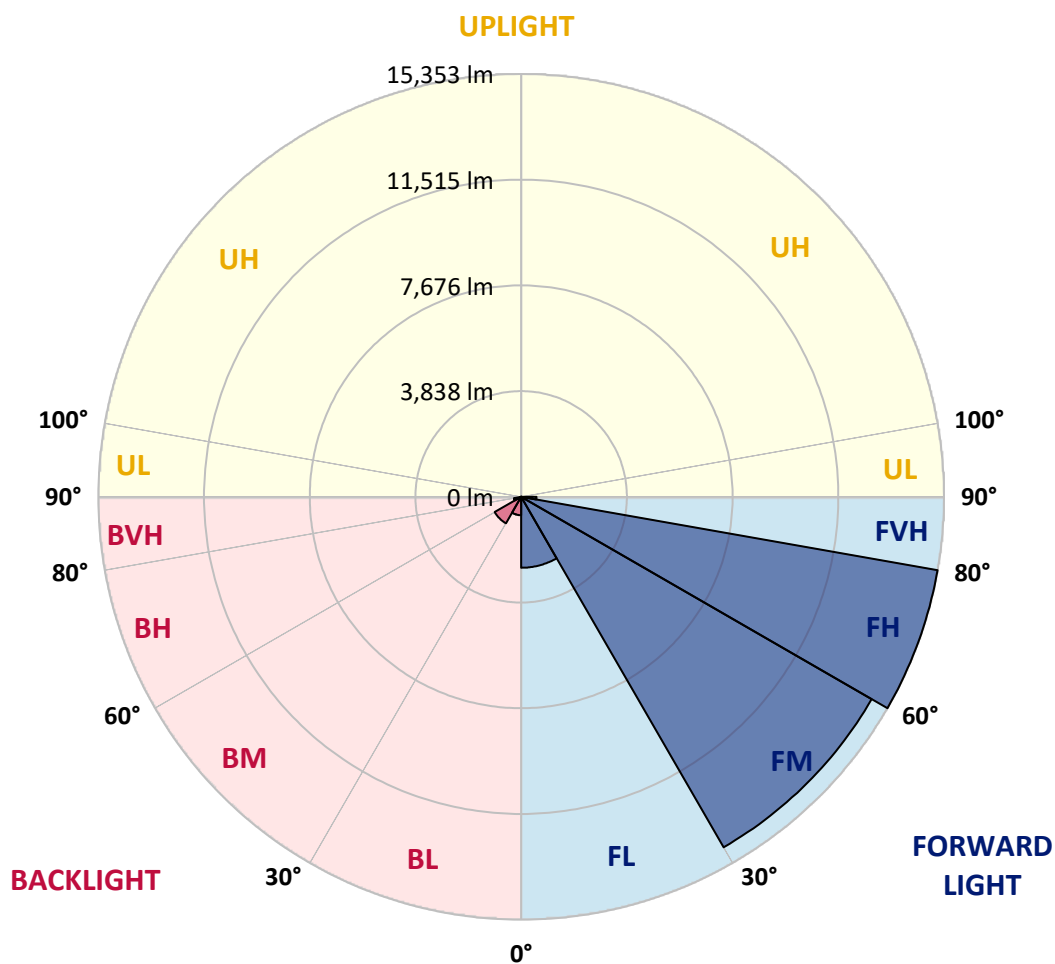
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2577.2	7.3			
FM	(30°-60°)	14693.7	41.7			
FH	(60°-80°)	15352.9	43.6			G5
FVH	(80°-90°)	556.4	1.6			G4/750
BL	(0°-30°)	667.9	1.9	B2/1000		
BM	(30°-60°)	1108.2	3.1	B2/2500		
BH	(60°-80°)	267.7	0.8	B1/500		G1/500
BVH	(80°-90°)	18.0	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	5265.3	5265.3	5265.3	5265.3	5265.3	5265.3	5265.3	5265.3	5265.3	5265.3	5265.3
2.5°	5781.4	5749.9	5731.0	5705.9	5674.4	5647.1	5636.6	5559.0	5485.6	5384.9	5269.5
5°	5888.4	5877.9	5844.3	5810.7	5773.0	5731.0	5708.0	5615.7	5510.8	5363.9	5162.5
7.5°	5898.9	5886.3	5844.3	5798.2	5745.7	5695.4	5655.5	5563.2	5466.7	5317.8	5072.3
10°	5882.1	5867.4	5835.9	5785.6	5720.5	5672.3	5632.4	5544.3	5462.5	5328.3	5055.6
12.5°	5863.2	5848.5	5833.8	5808.7	5752.0	5718.4	5684.9	5601.0	5527.6	5414.3	5116.4
15°	5882.1	5873.7	5890.5	5880.0	5848.5	5819.1	5785.6	5710.1	5642.9	5548.5	5227.6
17.5°	5961.8	5961.8	6014.2	6020.5	5991.2	5949.2	5901.0	5825.4	5768.8	5689.1	5359.7
20°	6148.5	6142.2	6209.3	6221.9	6150.6	6085.6	6014.2	5921.9	5877.9	5827.5	5489.8
22.5°	6469.4	6440.1	6479.9	6467.3	6326.8	6226.1	6138.0	6024.7	6001.6	5978.6	5634.5
25°	6886.9	6870.1	6897.4	6773.6	6526.1	6389.7	6284.8	6156.9	6156.9	6180.0	5798.2
27.5°	7493.1	7430.2	7337.9	7119.7	6748.4	6574.3	6461.0	6324.7	6360.4	6446.4	6014.2
30°	8114.1	8044.8	7833.0	7497.3	7019.0	6836.5	6704.4	6561.7	6645.7	6803.0	6303.7
32.5°	8726.6	8649.0	8349.0	7925.3	7407.1	7224.6	7096.7	6939.3	7079.9	7344.2	6727.5
35°	9320.3	9251.0	8904.9	8405.7	7923.2	7772.1	7654.7	7518.3	7698.7	8067.9	7325.3
37.5°	9987.4	9911.8	9490.2	8949.0	8550.4	8441.3	8355.3	8219.0	8533.6	9074.8	8158.1
40°	10807.6	10679.6	10111.1	9572.0	9276.2	9223.8	9165.0	9146.2	9634.9	10383.8	9267.8
42.5°	11747.4	11537.6	10761.4	10228.6	10073.4	10111.1	10096.4	10180.3	11013.2	12011.7	10618.8
45°	12687.2	12416.5	11485.1	10929.2	10950.2	11082.4	11164.2	11499.8	12739.6	13878.7	12072.5
47.5°	13484.3	13217.9	12179.5	11686.5	11938.3	12198.4	12420.7	13056.4	14514.3	15716.3	13203.2
50°	14166.1	13914.3	12915.8	12519.3	13085.7	13505.3	13866.1	14808.0	16423.2	17115.5	13996.1
52.5°	14724.1	14556.2	13679.4	13473.8	14396.8	15011.5	15540.1	16668.7	18114.0	18252.5	14612.9
55°	15267.4	15147.8	14499.6	14608.7	15936.6	16773.6	17442.7	18642.6	19569.8	19200.6	15204.4
57.5°	15892.5	15783.4	15435.2	16047.7	17960.9	19013.9	19744.0	20392.2	20851.6	20169.8	15762.4
60°	16530.2	16467.3	16475.7	17646.2	20285.2	21296.3	21699.1	21866.9	22110.2	21082.3	15793.9
62.5°	17138.6	17258.1	17665.1	19425.1	22510.9	23287.0	23490.5	23656.3	23371.0	21227.1	14591.9
65°	18168.6	18363.6	19334.9	21806.0	24959.0	25789.7	25999.4	25430.9	23570.2	19355.9	11869.0
67.5°	18672.0	19028.6	20761.4	24025.5	27333.6	28256.6	28179.0	25546.3	21151.5	14759.7	7616.9
69°	18567.1	18946.8	21090.7	24705.1	28122.3	28959.3	28466.4	24134.5	18019.6	10692.2	4675.9
70°	18151.8	18535.7	20920.8	24680.0	28223.0	28885.9	27933.6	22391.3	15235.9	7818.3	2924.3
72.5°	15158.3	15489.7	18573.4	22307.4	25999.4	25460.3	23368.9	15512.8	7423.9	2129.2	658.7
75°	9330.8	9515.4	13327.0	16805.0	19637.0	18252.5	15569.5	7717.6	2213.1	602.1	365.0
77.5°	4929.7	5013.6	7296.0	9905.5	12448.0	10299.9	7979.8	3010.3	1019.5	377.6	264.3
80°	2913.8	2976.7	3929.1	4529.0	5387.0	4499.7	3190.7	1848.1	730.0	237.0	234.9
82.5°	1667.7	1707.6	2848.7	2517.3	2122.9	1812.5	1588.0	1751.6	438.4	159.4	243.3
85°	612.5	620.9	1602.7	1915.2	1262.8	751.0	788.8	1451.6	117.5	100.7	190.9
87.5°	285.3	279.0	824.4	1172.6	738.4	476.2	614.6	318.9	46.2	65.0	52.4
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°	5265.3	5265.3	5265.3	5265.3	5265.3	5265.3	5265.3	5265.3	5265.3	5265.3	5265.3
2.5°	5202.4	5124.8	4984.2	4839.5	4692.7	4579.4	4468.2	4380.1	4350.7	4296.2	4300.4
5°	5043.0	4900.3	4606.6	4308.8	3998.3	3742.4	3501.1	3306.0	3211.6	3115.1	3115.1
7.5°	4904.5	4696.8	4237.4	3752.9	3251.5	2829.9	2450.2	2164.9	2007.5	1881.7	1879.6
10°	4852.1	4571.0	3929.1	3234.7	2536.2	1961.4	1510.4	1220.9	1071.9	975.5	971.3
12.5°	4875.2	4526.9	3692.0	2756.4	1879.6	1260.7	874.8	688.1	625.1	595.8	595.8
15°	4942.3	4514.3	3455.0	2288.6	1327.9	788.8	581.1	530.7	526.5	526.5	526.5
17.5°	5024.1	4518.5	3211.6	1833.4	904.1	564.3	501.4	495.1	499.3	499.3	499.3
20°	5108.0	4520.6	2949.4	1411.8	637.7	490.9	472.0	469.9	474.1	474.1	476.2
22.5°	5210.8	4531.1	2687.2	1055.2	526.5	463.6	448.9	448.9	451.0	451.0	448.9
25°	5328.3	4552.1	2414.5	782.5	480.4	444.7	432.1	430.0	432.1	430.0	427.9
27.5°	5475.1	4581.5	2110.3	612.5	459.4	425.8	415.4	415.4	413.3	411.2	409.1
30°	5659.7	4615.0	1768.4	520.2	438.4	409.1	398.6	396.5	394.4	390.2	390.2
32.5°	5940.8	4688.5	1430.7	472.0	415.4	386.0	377.6	377.6	373.4	369.2	367.1
35°	6372.9	4833.2	1128.6	442.6	390.2	360.8	350.3	350.3	346.1	344.0	341.9
37.5°	6970.8	5053.5	876.9	415.4	365.0	333.5	323.1	321.0	316.8	312.6	310.5
40°	7765.8	5326.2	690.2	390.2	339.8	306.3	297.9	293.7	285.3	279.0	279.0
42.5°	8764.4	5636.6	560.1	362.9	310.5	281.1	274.8	268.5	253.8	247.5	245.4
45°	9809.0	5915.6	474.1	331.4	281.1	255.9	251.7	241.2	222.4	216.1	216.1
47.5°	10562.1	5980.7	417.5	302.1	253.8	228.7	226.6	207.7	190.9	186.7	184.6
50°	11032.0	5852.7	371.3	272.7	228.7	203.5	197.2	174.1	163.6	159.4	157.3
52.5°	11348.8	5624.1	333.5	247.5	205.6	180.4	165.7	148.9	140.5	136.4	136.4
55°	11602.6	5301.0	295.8	224.5	186.7	161.5	140.5	128.0	119.6	115.4	115.4
57.5°	11673.9	4862.6	258.0	205.6	167.8	142.6	119.6	111.2	100.7	98.6	98.6
60°	11155.8	4071.7	228.7	182.5	151.0	123.8	104.9	94.4	83.9	81.8	79.7
62.5°	9790.2	3150.8	201.4	161.5	132.2	107.0	90.2	77.6	69.2	69.2	69.2
65°	7468.0	2112.4	176.2	140.5	115.4	90.2	77.6	62.9	58.7	58.7	60.8
67.5°	4470.3	1149.6	151.0	119.6	98.6	75.5	65.0	54.5	52.4	54.5	54.5
69°	2620.1	675.5	136.4	107.0	86.0	67.1	56.6	48.2	52.4	54.5	54.5
70°	1617.4	455.2	125.9	96.5	77.6	60.8	52.4	46.2	50.3	52.4	52.4
72.5°	451.0	234.9	100.7	75.5	62.9	50.3	42.0	42.0	48.2	50.3	50.3
75°	293.7	174.1	77.6	56.6	48.2	39.9	35.7	39.9	46.2	48.2	48.2
77.5°	243.3	142.6	62.9	46.2	39.9	37.8	33.6	35.7	42.0	44.1	44.1
80°	222.4	100.7	50.3	42.0	35.7	33.6	31.5	29.4	37.8	39.9	39.9
82.5°	211.9	79.7	44.1	37.8	33.6	29.4	27.3	29.4	33.6	35.7	37.8
85°	132.2	52.4	39.9	35.7	29.4	27.3	27.3	27.3	31.5	33.6	33.6
87.5°	48.2	42.0	35.7	29.4	25.2	25.2	25.2	25.2	27.3	31.5	31.5
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)