

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: McGRAW-EDISON

Report Number: P456167

Luminaire Tested: **GALN-SA7B-830-U-AFL-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456167
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-25)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA7B-830-U-AFL-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: 25803 lumens
Efficiency: N/A
Efficacy: 90.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

Input Watts (W): 286
Input Voltage (V): NR
Input Current (A_{in}): 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: 24 FT

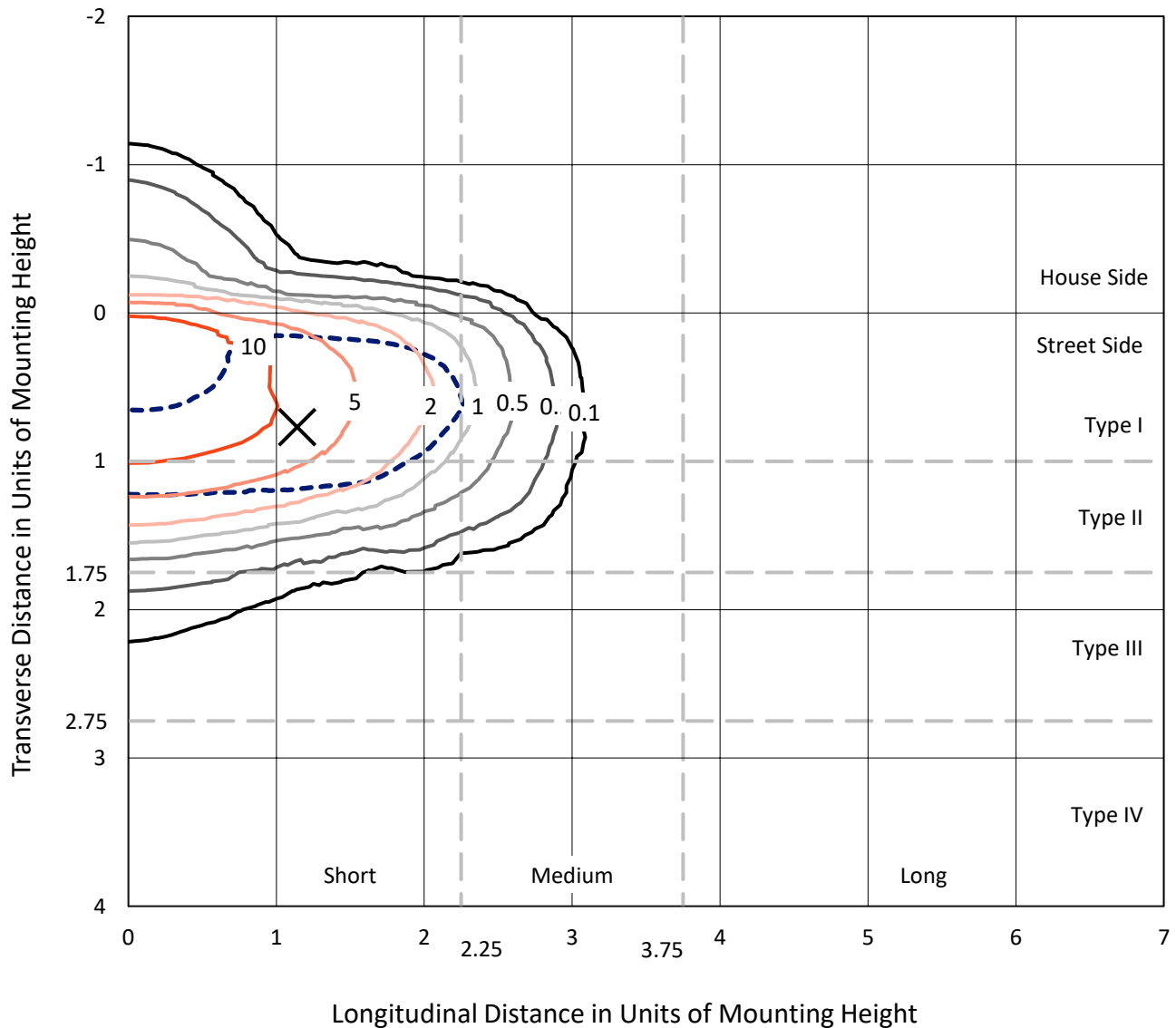


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Iso-Footcandle Lines of Horizontal Illumination

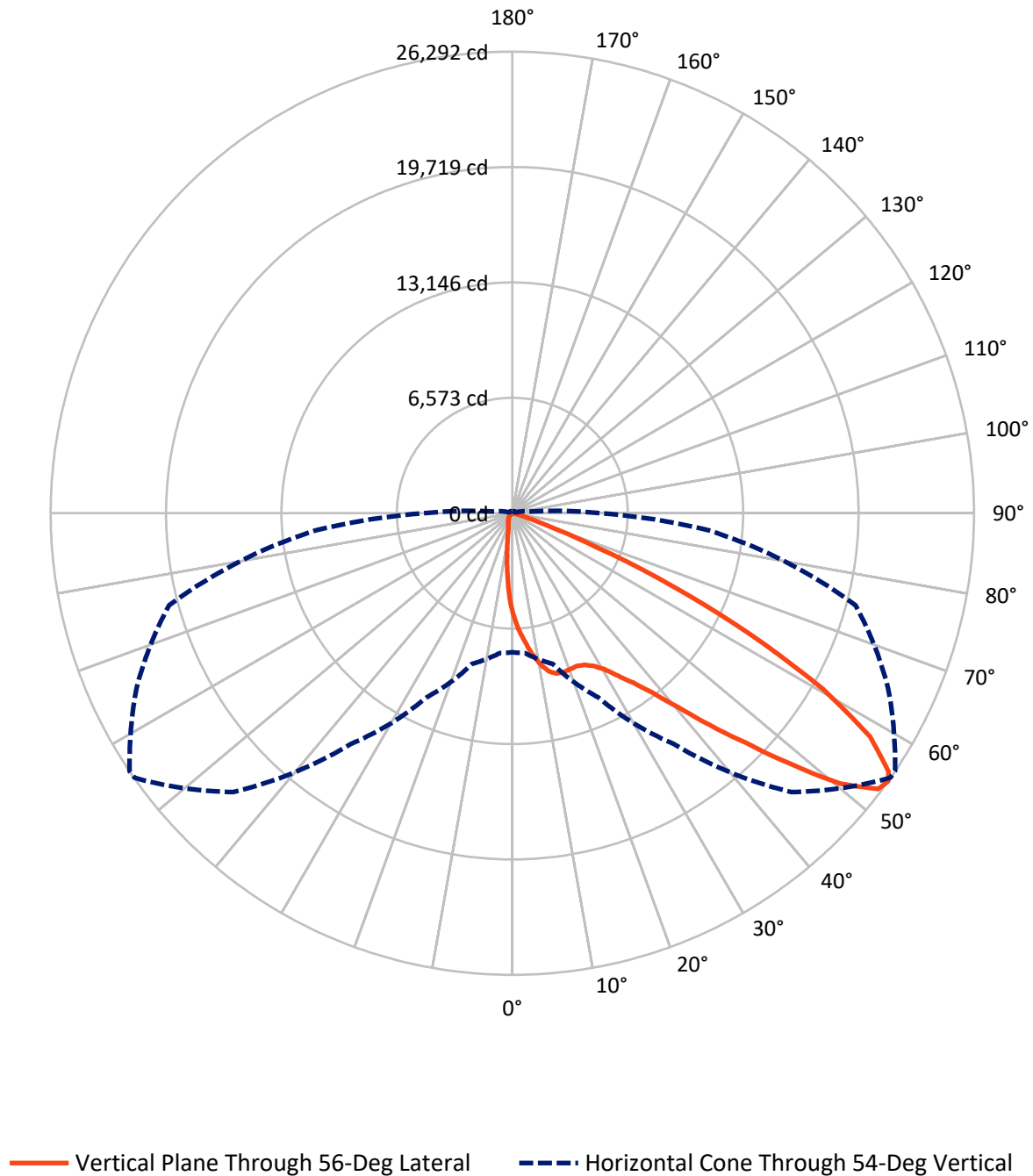
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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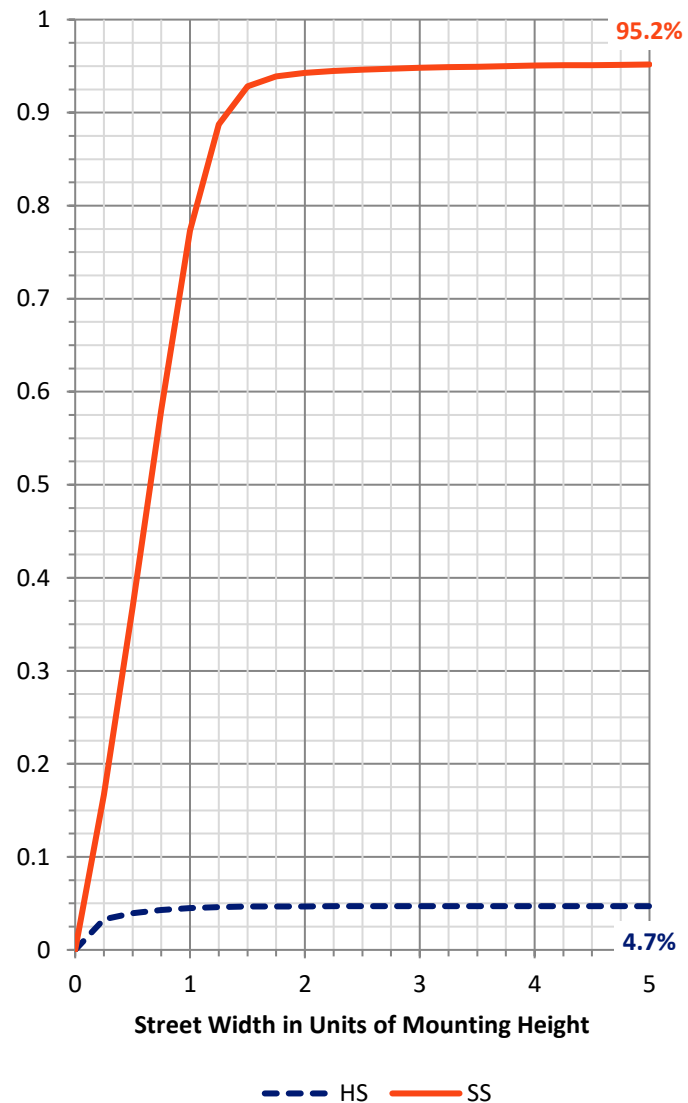
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1220.2	0.0	1220.2
	% Fixture	4.7	0.0	4.7
Street Side	Lumens	24582.8	0.0	24582.8
	% Fixture	95.3	0.0	95.3
Total	Lumens	25803.0	0.0	25803.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	506.6	2.0
10°-20°	1369.4	5.3
20°-30°	2371.8	9.2
30°-40°	4094.0	15.9
40°-50°	6968.2	27.0
50°-60°	6895.9	26.7
60°-70°	3147.4	12.2
70°-80°	404.2	1.6
80°-90°	45.5	0.2
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°	25803.0	100.0
0°-180°	25803.0	100.0

Coefficient of Utilization



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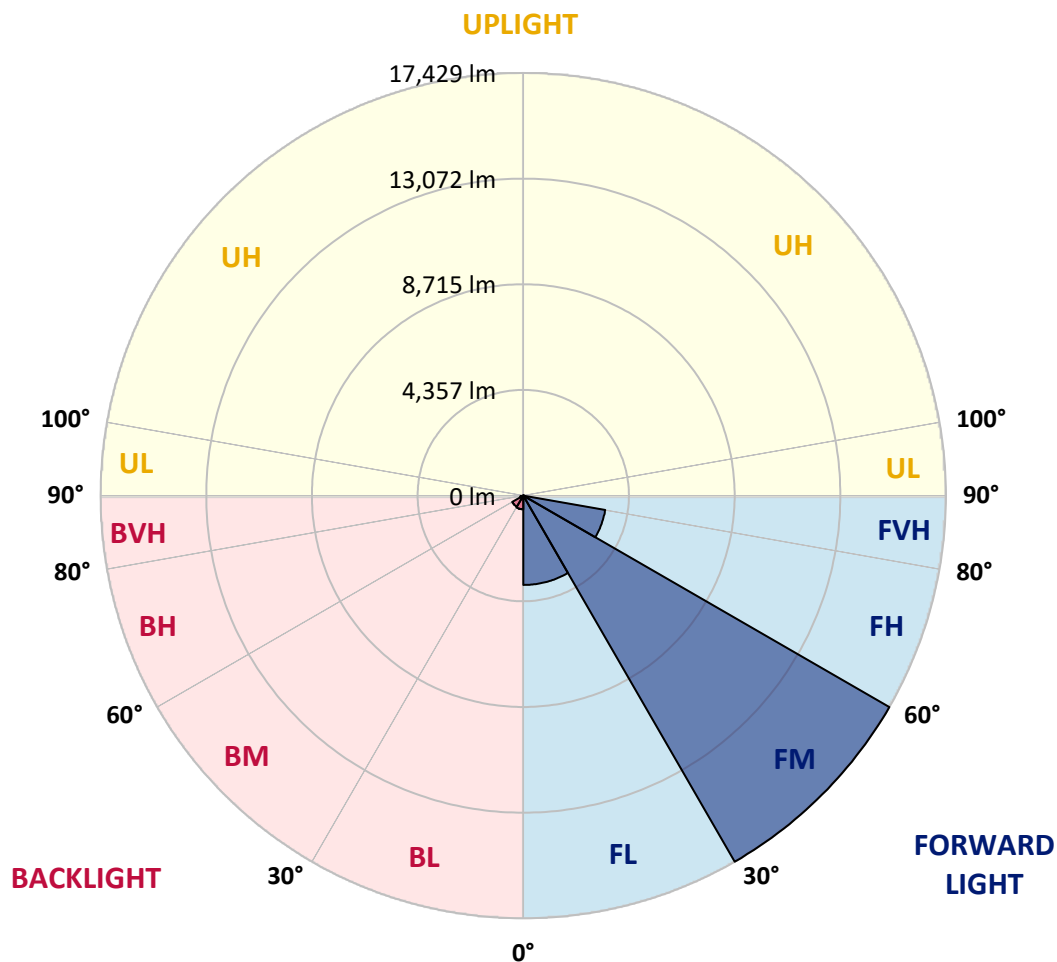
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3683.5	14.3			
FM	(30°-60°)	17429.3	67.5			
FH	(60°-80°)	3429.4	13.3			G2/5000
FVH	(80°-90°)	40.7	0.2			G1/100
BL	(0°-30°)	564.3	2.2	B2/1000		
BM	(30°-60°)	528.8	2.0	B1/1000		
BH	(60°-80°)	122.2	0.5	B1/500		G1/500
BVH	(80°-90°)	4.9	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°	56°	65°	75°	85°
0°	5732.7	5732.7	5732.7	5732.7	5732.7	5732.7	5732.7	5732.7	5732.7	5732.7	5732.7
2.5°	7285.5	7235.1	7165.4	7111.5	6984.4	6801.6	6608.3	6608.3	6422.1	6162.7	5898.1
5°	8403.2	8370.1	8302.2	8162.9	8020.2	7764.3	7376.1	7308.2	6975.7	6505.6	6011.2
7.5°	8857.5	8873.2	8876.7	8840.1	8772.2	8519.8	8135.1	8088.1	7557.1	6926.9	6159.2
10°	8422.3	8498.9	8573.8	8725.2	8939.4	9000.3	8782.7	8733.9	8211.7	7353.4	6319.4
12.5°	7774.7	7816.5	7858.3	8096.8	8526.8	9019.4	9247.5	9245.8	8803.6	7778.2	6523.0
15°	7473.6	7510.1	7513.6	7619.8	7992.3	8709.6	9446.0	9472.1	9381.5	8302.2	6742.4
17.5°	7536.2	7565.8	7541.4	7567.6	7762.5	8368.4	9423.3	9510.4	9849.8	8805.3	6940.8
20°	7945.3	8002.8	7908.8	7835.7	7894.8	8277.8	9346.7	9468.6	10180.6	9296.2	7121.9
22.5°	8680.0	8711.3	8592.9	8392.7	8288.3	8467.6	9325.8	9446.0	10462.6	9698.4	7226.4
25°	9496.4	9486.0	9355.4	9130.9	8911.5	8850.6	9463.4	9571.3	10695.9	10060.5	7257.7
27.5°	10312.9	10344.2	10124.9	9846.4	9583.5	9425.1	9771.5	9851.6	10958.8	10473.1	7296.0
30°	11261.7	11211.2	10995.3	10676.8	10375.6	10154.5	10267.7	10290.3	11320.9	11019.7	7397.0
32.5°	12496.0	12356.7	12114.7	11557.6	11341.8	10967.5	10995.3	11023.2	11761.3	11561.1	7518.8
35°	14170.7	14163.7	13690.2	12939.9	12414.1	11949.3	11827.5	11850.1	12428.1	12365.4	7788.7
37.5°	16186.6	16214.5	15674.8	14919.3	13951.3	13213.2	12962.5	12966.0	13441.3	13476.1	8199.5
40°	17828.2	17901.4	17579.3	17069.2	16113.5	14959.3	14538.0	14499.7	14865.3	14821.8	8786.2
42.5°	18535.0	18602.9	18723.1	18900.6	18374.9	17422.6	16428.6	16480.8	16592.2	16287.6	9444.2
45°	18188.6	18296.5	18768.3	19865.1	20359.5	20039.2	18853.6	18670.8	18199.1	17880.5	10105.8
47.5°	16745.4	17008.3	17796.9	19623.1	21353.5	22436.3	21590.3	21348.3	19807.6	19043.4	10527.0
50°	14372.6	14388.3	15486.8	17821.3	20838.2	23949.1	24384.4	24203.3	21306.5	19696.2	10739.4
52.5°	10419.1	10762.1	11768.3	14471.9	18606.4	23719.4	26165.3	26090.4	22852.4	20030.5	11045.8
54°	7921.0	7987.1	8881.9	11564.6	16042.1	22457.2	26275.0	26292.4	23620.1	20232.4	11226.9
55°	6493.4	6335.0	7275.1	9851.6	14292.5	21341.3	25916.3	25999.9	23964.8	20336.8	11360.9
57.5°	3077.9	3079.6	3798.6	5196.5	8951.6	16571.3	23724.6	24020.5	24003.1	20516.2	11773.5
60°	1558.1	1568.5	1726.9	2398.9	4421.8	11016.2	19616.1	20321.2	22156.1	20542.3	11909.3
62.5°	1089.8	1077.6	1051.5	1154.2	1861.0	5598.6	14604.2	15216.9	18824.0	19548.2	11477.6
65°	933.1	907.0	833.9	818.2	940.1	2230.1	9096.0	10095.3	14372.6	16926.5	10248.5
67.5°	797.3	786.9	720.7	680.7	665.0	971.4	4693.4	5219.1	9823.7	12166.9	7762.5
70°	677.2	672.0	631.9	581.5	537.9	581.5	1740.9	2156.9	5475.0	6550.9	3662.8
72.5°	550.1	555.3	562.3	497.9	452.6	412.6	743.4	865.2	2291.0	2341.5	1281.3
75°	482.2	477.0	477.0	433.5	377.8	306.4	409.1	440.4	701.6	651.1	297.7
77.5°	339.5	327.3	383.0	356.9	315.1	217.6	233.3	247.2	290.7	248.9	139.3
80°	235.0	235.0	245.5	320.3	283.8	158.4	142.8	153.2	172.3	148.0	80.1
82.5°	132.3	135.8	160.2	170.6	165.4	106.2	94.0	95.7	114.9	101.0	50.5
85°	15.7	26.1	92.3	90.5	67.9	47.0	52.2	54.0	71.4	62.7	29.6
87.5°	1.7	3.5	19.1	24.4	17.4	19.1	19.1	19.1	24.4	27.9	20.9
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°	5732.7	5732.7	5732.7	5732.7	5732.7	5732.7	5732.7	5732.7	5732.7	5732.7	5732.7
2.5°	5755.3	5623.0	5307.9	4942.3	4709.1	4329.5	4009.2	3777.7	3720.2	3608.8	3641.9
5°	5748.4	5473.3	4830.9	4152.0	3427.8	2888.1	2486.0	2169.1	2029.9	1937.6	1873.2
7.5°	5751.8	5321.8	4291.2	3210.2	2345.0	1815.7	1443.2	1249.9	1121.1	1067.2	1074.1
10°	5762.3	5151.2	3664.5	2378.0	1582.5	1173.3	945.3	853.0	809.5	802.5	800.8
12.5°	5786.7	4965.0	3065.7	1765.2	1107.2	853.0	766.0	734.6	720.7	720.7	715.5
15°	5812.8	4759.5	2567.8	1312.6	853.0	732.9	692.9	677.2	668.5	668.5	666.8
17.5°	5812.8	4522.8	2103.0	1018.4	734.6	673.7	642.4	621.5	614.5	614.5	612.8
20°	5776.2	4247.7	1690.4	819.9	666.8	618.0	586.7	564.0	555.3	551.9	550.1
22.5°	5649.1	3880.4	1345.7	705.1	611.0	569.3	529.2	503.1	496.1	492.7	494.4
25°	5422.8	3466.1	1065.4	619.7	560.6	510.1	475.3	456.1	449.1	449.1	450.9
27.5°	5189.5	3032.6	844.3	555.3	499.6	454.4	426.5	414.3	412.6	417.8	419.5
30°	4973.7	2597.4	684.2	503.1	445.7	407.4	388.2	384.7	384.7	386.5	388.2
32.5°	4733.4	2216.1	572.7	457.8	402.1	369.1	358.6	358.6	362.1	362.1	365.6
35°	4582.0	1888.8	503.1	414.3	369.1	341.2	334.2	336.0	341.2	348.2	351.7
37.5°	4500.1	1627.7	457.8	379.5	337.7	318.6	311.6	315.1	327.3	339.5	341.2
40°	4507.1	1431.0	421.3	349.9	313.4	292.5	287.2	297.7	309.9	322.1	323.8
42.5°	4583.7	1284.8	386.5	315.1	292.5	262.9	261.1	271.6	276.8	289.0	290.7
45°	4674.2	1178.6	349.9	278.5	254.2	228.1	229.8	238.5	245.5	264.6	268.1
47.5°	4702.1	1105.5	308.1	236.8	208.9	200.2	201.9	207.2	221.1	238.5	240.2
50°	4733.4	1060.2	268.1	200.2	177.6	175.8	177.6	181.1	189.8	196.7	195.0
52.5°	4867.5	1058.4	235.0	174.1	151.5	154.9	156.7	154.9	148.0	137.5	134.0
54°	4992.8	1063.7	219.3	161.9	139.3	144.5	142.8	134.0	116.6	106.2	101.0
55°	5093.8	1068.9	210.6	153.2	132.3	134.0	135.8	118.4	95.7	85.3	81.8
57.5°	5292.2	1056.7	189.8	134.0	116.6	109.7	107.9	78.3	52.2	45.3	41.8
60°	5193.0	954.0	172.3	114.9	99.2	88.8	73.1	43.5	26.1	19.1	19.1
62.5°	4803.1	809.5	153.2	94.0	81.8	67.9	38.3	24.4	12.2	7.0	5.2
65°	4296.5	680.7	137.5	74.9	64.4	43.5	20.9	15.7	5.2	0.0	0.0
67.5°	3194.5	504.9	116.6	59.2	48.7	27.9	13.9	8.7	1.7	0.0	0.0
70°	1479.7	308.1	99.2	45.3	34.8	20.9	10.4	5.2	0.0	0.0	0.0
72.5°	424.8	193.2	81.8	33.1	24.4	17.4	8.7	3.5	1.7	0.0	0.0
75°	148.0	154.9	60.9	24.4	19.1	12.2	7.0	3.5	1.7	0.0	0.0
77.5°	88.8	125.3	38.3	20.9	15.7	10.4	7.0	3.5	1.7	1.7	0.0
80°	50.5	83.6	24.4	17.4	13.9	8.7	5.2	3.5	1.7	1.7	0.0
82.5°	27.9	40.0	19.1	15.7	12.2	8.7	5.2	3.5	1.7	1.7	1.7
85°	22.6	20.9	15.7	13.9	10.4	7.0	5.2	1.7	0.0	0.0	0.0
87.5°	17.4	13.9	13.9	13.9	10.4	7.0	5.2	1.7	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)