

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: P457646

Luminaire Tested: **GALN-SA9A-730-U-AFL-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457646
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-SA9A-730-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3000K, 615mA 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: 30934 lumens
Efficiency: N/A
Efficacy: 112.9 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): 274
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

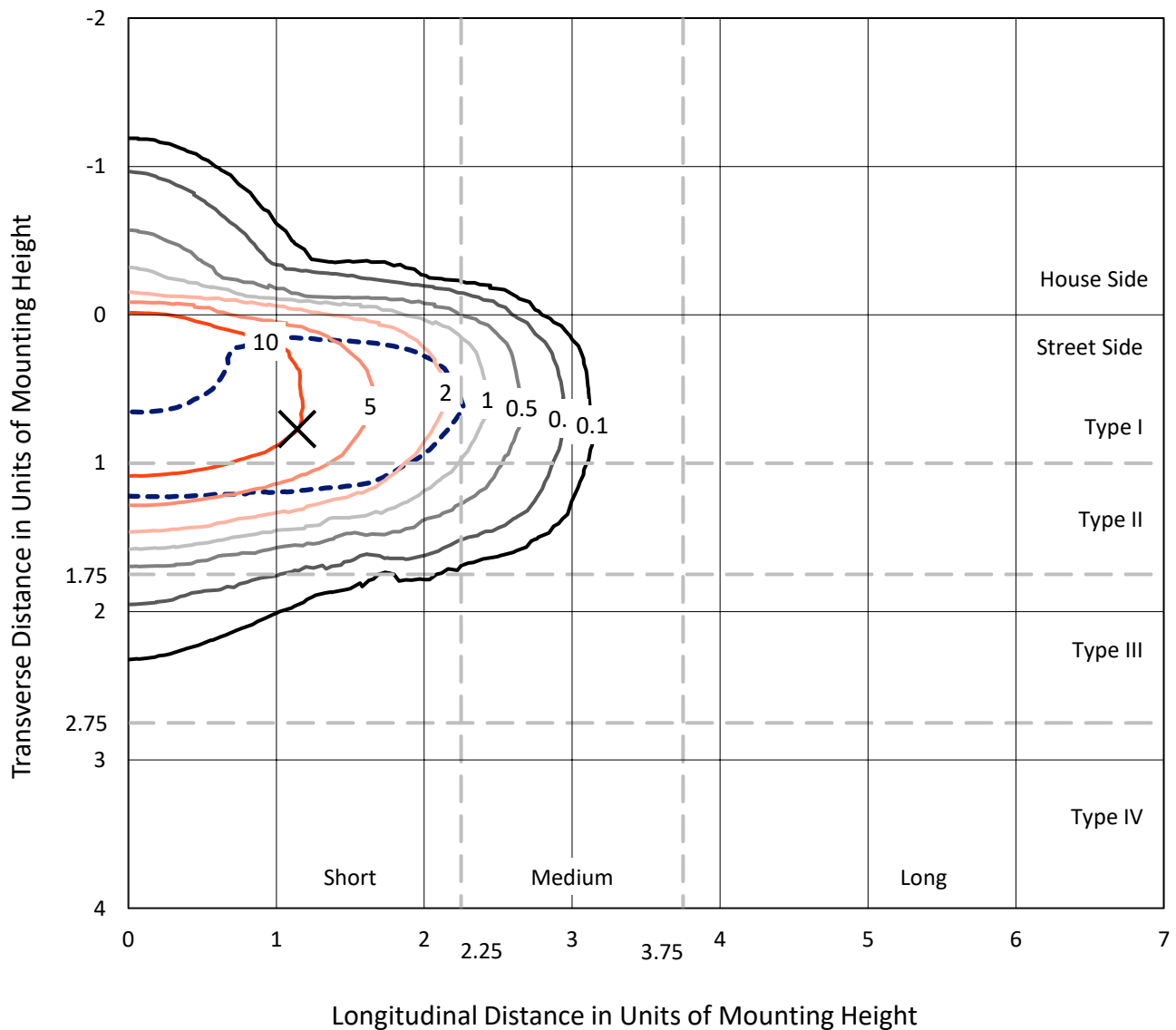


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Iso-Footcandle Lines of Horizontal Illumination

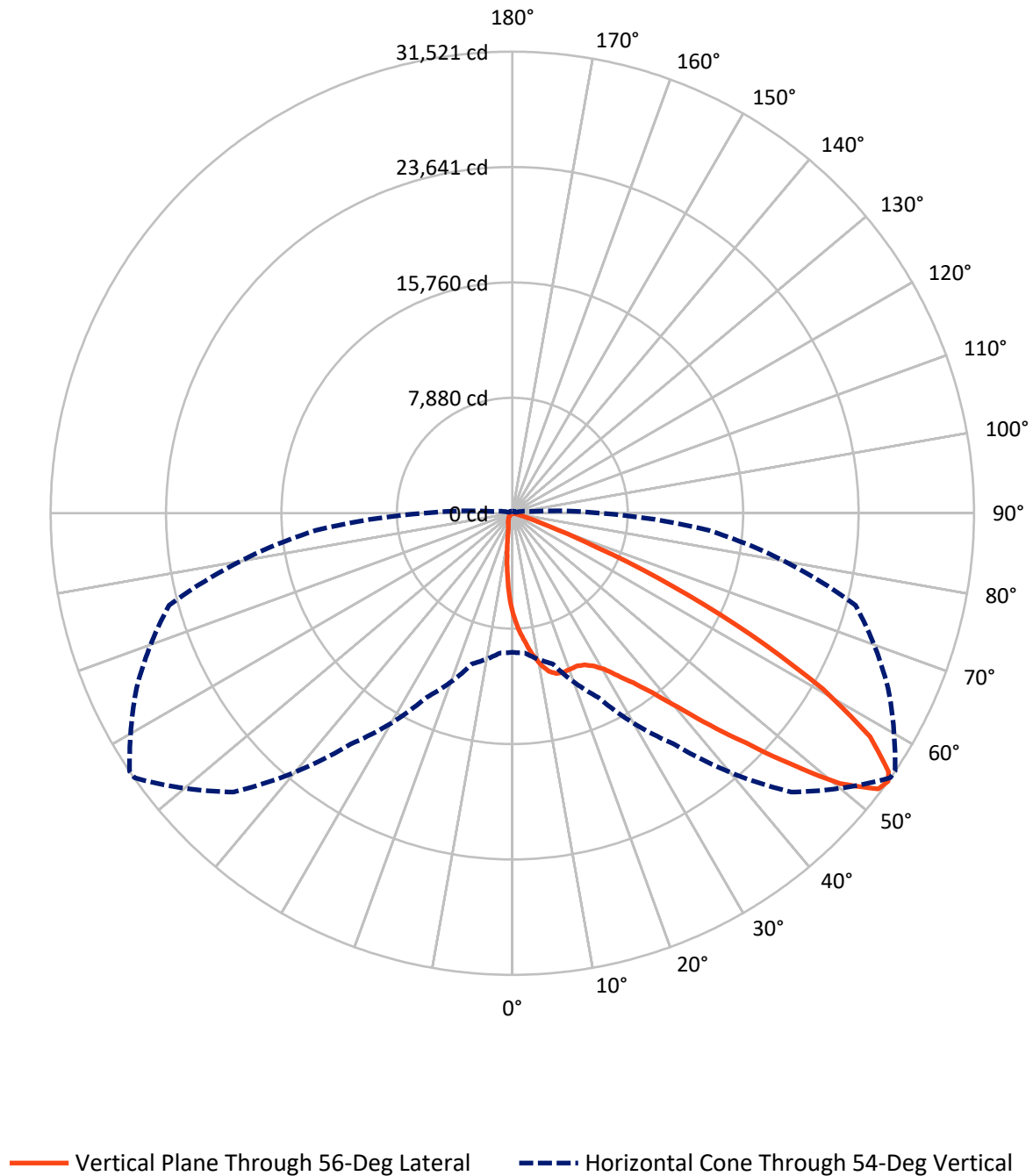
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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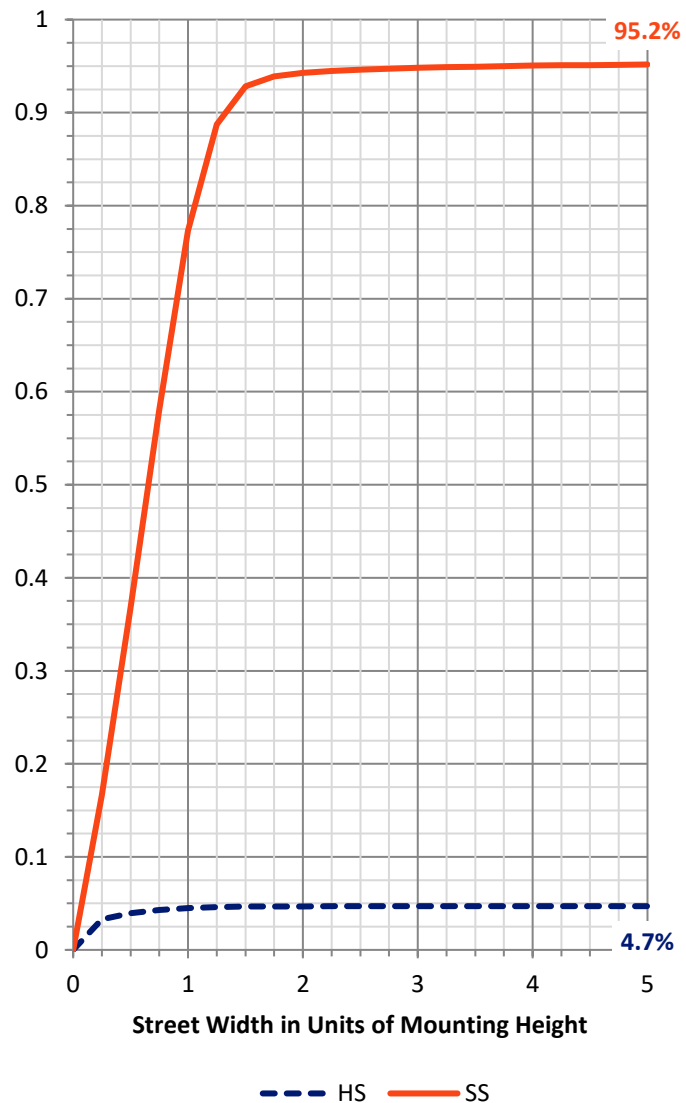
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1462.8	0.0	1462.8
	% Fixture	4.7	0.0	4.7
Street Side	Lumens	29471.2	0.0	29471.2
	% Fixture	95.3	0.0	95.3
Total	Lumens	30934.0	0.0	30934.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	607.3	2.0
10°-20°	1641.8	5.3
20°-30°	2843.4	9.2
30°-40°	4908.1	15.9
40°-50°	8353.8	27.0
50°-60°	8267.1	26.7
60°-70°	3773.3	12.2
70°-80°	484.6	1.6
80°-90°	54.6	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°	30934.0	100.0
0°-180°	30934.0	100.0

Coefficient of Utilization



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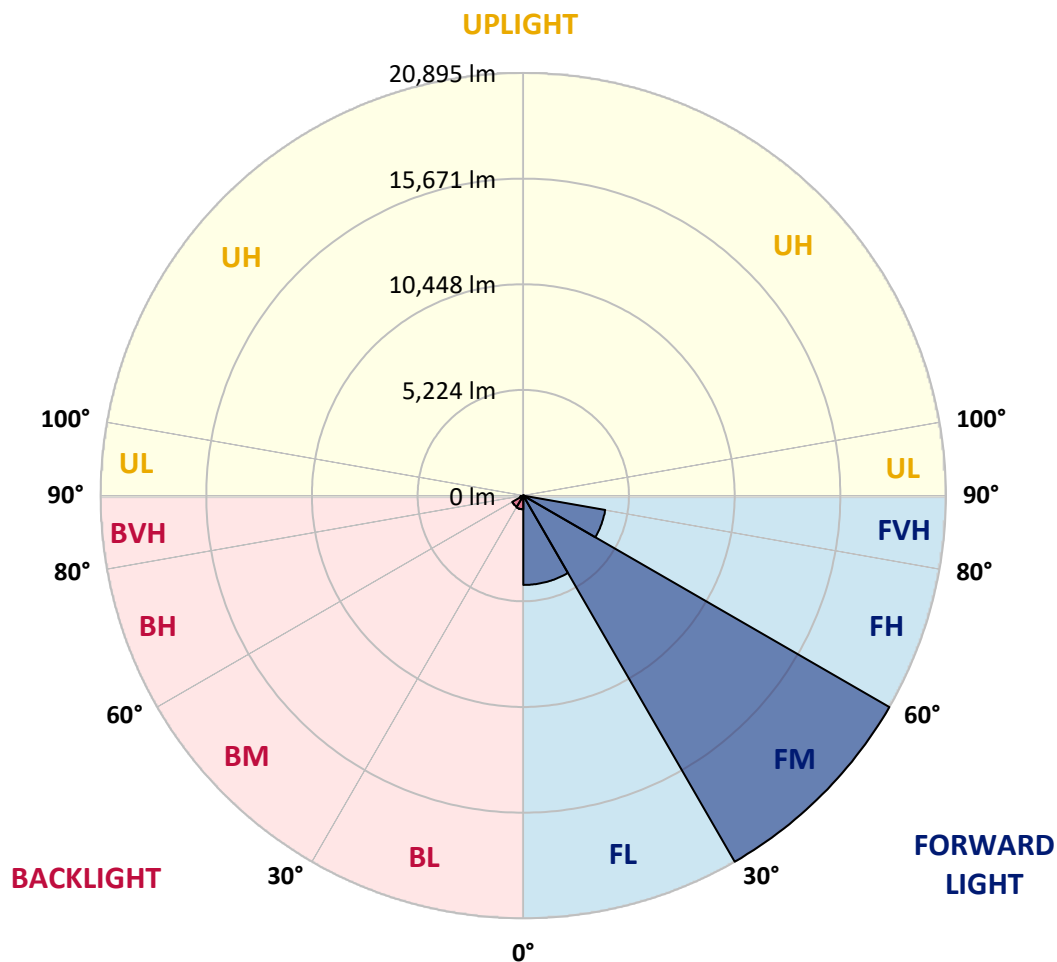
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4415.9	14.3			
FM	(30°-60°)	20895.1	67.5			
FH	(60°-80°)	4111.4	13.3			G2/5000
FVH	(80°-90°)	48.8	0.2			G1/100
BL	(0°-30°)	676.5	2.2	B2/1000		
BM	(30°-60°)	634.0	2.0	B1/1000		
BH	(60°-80°)	146.5	0.5	B1/500		G1/500
BVH	(80°-90°)	5.9	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°	6872.6	6872.6	6872.6	6872.6	6872.6	6872.6	6872.6	6872.6	6872.6	6872.6	6872.6
2.5°	8734.3	8673.8	8590.3	8525.6	8373.2	8154.1	7922.4	7922.4	7699.1	7388.1	7070.9
5°	10074.2	10034.5	9953.1	9786.2	9615.0	9308.2	8842.8	8761.4	8362.8	7799.3	7206.6
7.5°	10618.9	10637.7	10641.9	10598.0	10516.6	10214.0	9752.8	9696.4	9059.9	8304.4	7384.0
10°	10097.1	10189.0	10278.7	10460.3	10717.0	10790.0	10529.2	10470.7	9844.6	8815.7	7576.0
12.5°	9320.8	9370.8	9420.9	9706.9	10222.4	10813.0	11086.4	11084.3	10554.2	9324.9	7820.2
15°	8959.7	9003.5	9007.7	9135.0	9581.6	10441.5	11324.3	11355.6	11247.1	9953.1	8083.1
17.5°	9034.8	9070.3	9041.1	9072.4	9306.1	10032.4	11297.2	11401.5	11808.5	10556.3	8321.1
20°	9525.3	9594.2	9481.5	9393.8	9464.8	9923.9	11205.4	11351.4	12205.1	11144.8	8538.1
22.5°	10406.0	10443.6	10301.7	10061.7	9936.4	10151.4	11180.3	11324.3	12543.2	11626.9	8663.3
25°	11384.8	11372.3	11215.8	10946.6	10683.6	10610.5	11345.2	11474.6	12822.8	12061.0	8700.9
27.5°	12363.7	12401.2	12138.3	11804.3	11489.2	11299.3	11714.6	11810.6	13138.0	12555.7	8746.8
30°	13501.1	13440.6	13181.8	12799.9	12438.8	12173.7	12309.4	12336.5	13572.1	13211.0	8867.9
32.5°	14980.8	14813.9	14523.8	13855.9	13597.1	13148.4	13181.8	13215.2	14100.1	13860.1	9014.0
35°	16988.6	16980.2	16412.5	15513.0	14882.7	14325.5	14179.4	14206.5	14899.4	14824.3	9337.4
37.5°	19405.4	19438.8	18791.8	17886.0	16725.6	15840.7	15540.2	15544.3	16114.1	16155.8	9830.0
40°	21373.4	21461.1	21075.0	20463.5	19317.7	17934.0	17428.9	17383.0	17821.3	17769.1	10533.3
42.5°	22220.8	22302.2	22446.2	22659.1	22028.8	20887.2	19695.5	19758.1	19891.6	19526.4	11322.2
45°	21805.5	21934.9	22500.5	23815.3	24408.0	24024.0	22602.7	22383.6	21818.0	21436.1	12115.3
47.5°	20075.3	20390.4	21335.9	23525.2	25599.7	26897.9	25883.6	25593.5	23746.4	22830.2	12620.4
50°	17230.7	17249.4	18566.4	21365.1	24982.0	28711.5	29233.3	29016.2	25543.4	23612.8	12875.0
52.5°	12491.0	12902.1	14108.4	17349.6	22306.4	28436.0	31368.3	31278.6	27396.7	24013.6	13242.3
54°	9496.1	9575.4	10648.1	13864.3	19232.1	26922.9	31499.8	31520.7	28317.1	24255.7	13459.4
55°	7784.7	7594.8	8721.8	11810.6	17134.7	25585.1	31069.9	31170.0	28730.3	24380.9	13620.1
57.5°	3689.9	3692.0	4553.9	6229.8	10731.6	19866.6	28442.3	28797.1	28776.2	24595.8	14114.7
60°	1867.9	1880.4	2070.4	2876.0	5301.1	13206.8	23516.8	24362.1	26561.8	24627.2	14277.5
62.5°	1306.5	1291.9	1260.6	1383.7	2231.1	6711.9	17508.2	18242.9	22567.2	23435.5	13759.9
65°	1118.7	1087.4	999.7	980.9	1127.0	2673.5	10904.8	12102.8	17230.7	20292.4	12286.4
67.5°	955.9	943.3	864.0	816.0	797.3	1164.6	5626.7	6257.0	11777.2	14586.4	9306.1
70°	811.9	805.6	757.6	697.1	644.9	697.1	2087.0	2585.9	6563.8	7853.6	4391.1
72.5°	659.5	665.8	674.1	596.9	542.6	494.6	891.2	1037.3	2746.6	2807.1	1536.1
75°	578.1	571.9	571.9	519.7	452.9	367.3	490.5	528.0	841.1	780.6	356.9
77.5°	407.0	392.4	459.2	427.8	377.8	260.9	279.7	296.4	348.5	298.4	167.0
80°	281.8	281.8	294.3	384.0	340.2	189.9	171.1	183.7	206.6	177.4	96.0
82.5°	158.6	162.8	192.0	204.5	198.3	127.3	112.7	114.8	137.7	121.0	60.5
85°	18.8	31.3	110.6	108.5	81.4	56.4	62.6	64.7	85.6	75.1	35.5
87.5°	2.1	4.2	23.0	29.2	20.9	23.0	23.0	23.0	29.2	33.4	25.0
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°	6872.6	6872.6	6872.6	6872.6	6872.6	6872.6	6872.6	6872.6	6872.6	6872.6	6872.6
2.5°	6899.8	6741.2	6363.4	5925.1	5645.5	5190.5	4806.5	4528.9	4460.0	4326.4	4366.1
5°	6891.4	6561.7	5791.6	4977.6	4109.4	3462.4	2980.3	2600.5	2433.5	2322.9	2245.7
7.5°	6895.6	6380.1	5144.6	3848.5	2811.3	2176.8	1730.2	1498.5	1344.1	1279.4	1287.7
10°	6908.1	6175.6	4393.2	2850.9	1897.1	1406.7	1133.3	1022.7	970.5	962.1	960.0
12.5°	6937.3	5952.3	3675.3	2116.3	1327.4	1022.7	918.3	880.7	864.0	864.0	857.8
15°	6968.6	5706.0	3078.4	1573.6	1022.7	878.6	830.6	811.9	801.4	801.4	799.3
17.5°	6968.6	5422.1	2521.2	1220.9	880.7	807.7	770.1	745.1	736.7	736.7	734.6
20°	6924.8	5092.4	2026.5	983.0	799.3	740.9	703.3	676.2	665.8	661.6	659.5
22.5°	6772.5	4652.0	1613.3	845.3	732.6	682.5	634.5	603.2	594.8	590.6	592.7
25°	6501.2	4155.3	1277.3	743.0	672.0	611.5	569.8	546.8	538.5	538.5	540.5
27.5°	6221.5	3635.6	1012.2	665.8	599.0	544.7	511.3	496.7	494.6	500.9	503.0
30°	5962.7	3113.9	820.2	603.2	534.3	488.4	465.4	461.2	461.2	463.3	465.4
32.5°	5674.7	2656.8	686.6	548.9	482.1	442.5	429.9	429.9	434.1	434.1	438.3
35°	5493.1	2264.4	603.2	496.7	442.5	409.1	400.7	402.8	409.1	417.4	421.6
37.5°	5395.0	1951.4	548.9	455.0	404.9	381.9	373.6	377.8	392.4	407.0	409.1
40°	5403.4	1715.6	505.1	419.5	375.7	350.6	344.4	356.9	371.5	386.1	388.2
42.5°	5495.2	1540.2	463.3	377.8	350.6	315.1	313.1	325.6	331.8	346.4	348.5
45°	5603.7	1412.9	419.5	333.9	304.7	273.4	275.5	285.9	294.3	317.2	321.4
47.5°	5637.1	1325.3	369.4	283.8	250.4	240.0	242.1	248.4	265.1	285.9	288.0
50°	5674.7	1271.0	321.4	240.0	212.9	210.8	212.9	217.1	227.5	235.8	233.7
52.5°	5835.4	1268.9	281.8	208.7	181.6	185.7	187.8	185.7	177.4	164.9	160.7
54°	5985.7	1275.2	263.0	194.1	167.0	173.2	171.1	160.7	139.8	127.3	121.0
55°	6106.7	1281.4	252.5	183.7	158.6	160.7	162.8	141.9	114.8	102.3	98.1
57.5°	6344.6	1266.8	227.5	160.7	139.8	131.5	129.4	93.9	62.6	54.3	50.1
60°	6225.7	1143.7	206.6	137.7	119.0	106.4	87.7	52.2	31.3	23.0	23.0
62.5°	5758.2	970.5	183.7	112.7	98.1	81.4	45.9	29.2	14.6	8.3	6.3
65°	5150.8	816.0	164.9	89.7	77.2	52.2	25.0	18.8	6.3	0.0	0.0
67.5°	3829.7	605.2	139.8	71.0	58.4	33.4	16.7	10.4	2.1	0.0	0.0
70°	1774.0	369.4	119.0	54.3	41.7	25.0	12.5	6.3	0.0	0.0	0.0
72.5°	509.2	231.7	98.1	39.7	29.2	20.9	10.4	4.2	2.1	0.0	0.0
75°	177.4	185.7	73.0	29.2	23.0	14.6	8.3	4.2	2.1	0.0	0.0
77.5°	106.4	150.3	45.9	25.0	18.8	12.5	8.3	4.2	2.1	2.1	0.0
80°	60.5	100.2	29.2	20.9	16.7	10.4	6.3	4.2	2.1	2.1	0.0
82.5°	33.4	48.0	23.0	18.8	14.6	10.4	6.3	4.2	2.1	2.1	2.1
85°	27.1	25.0	18.8	16.7	12.5	8.3	6.3	2.1	0.0	0.0	0.0
87.5°	20.9	16.7	16.7	16.7	12.5	8.3	6.3	2.1	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)