

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: P457095

Luminaire Tested: **GALN-SA8B-830-U-AFL-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457095
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-SA8B-830-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 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: 29915 lumens
Efficiency: N/A
Efficacy: 92.0 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): 325
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: 24 FT

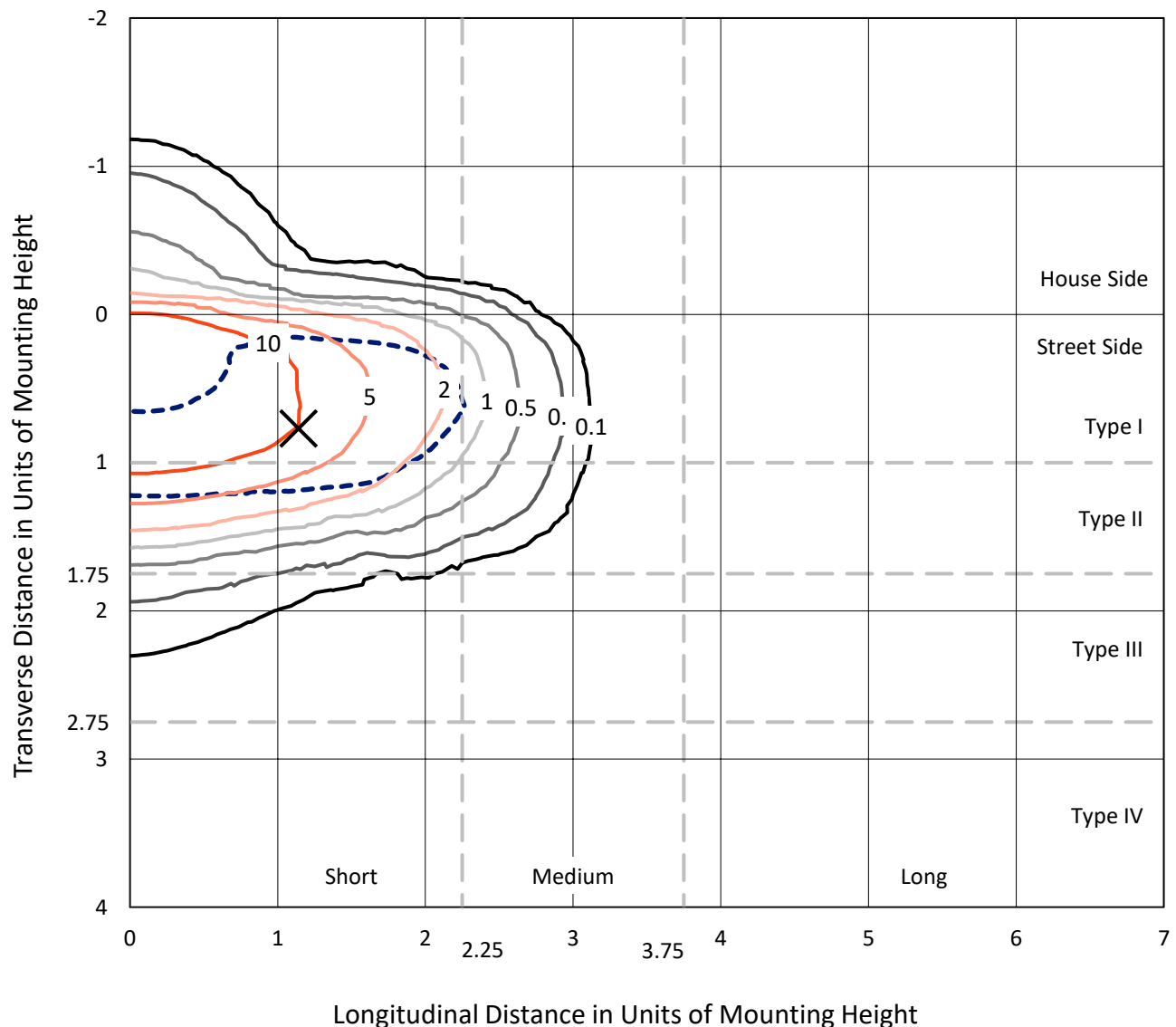


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Iso-Footcandle Lines of Horizontal Illumination

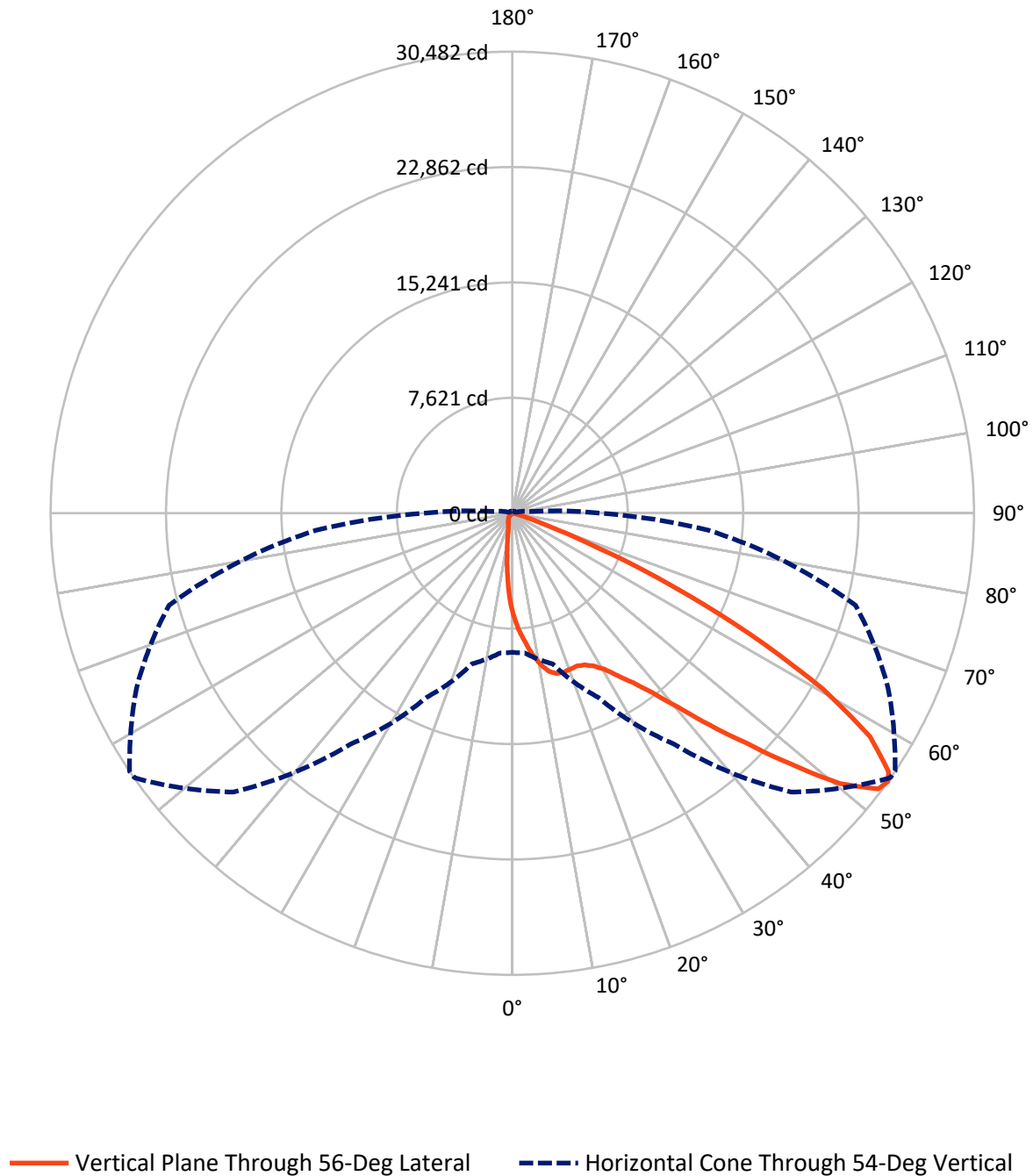
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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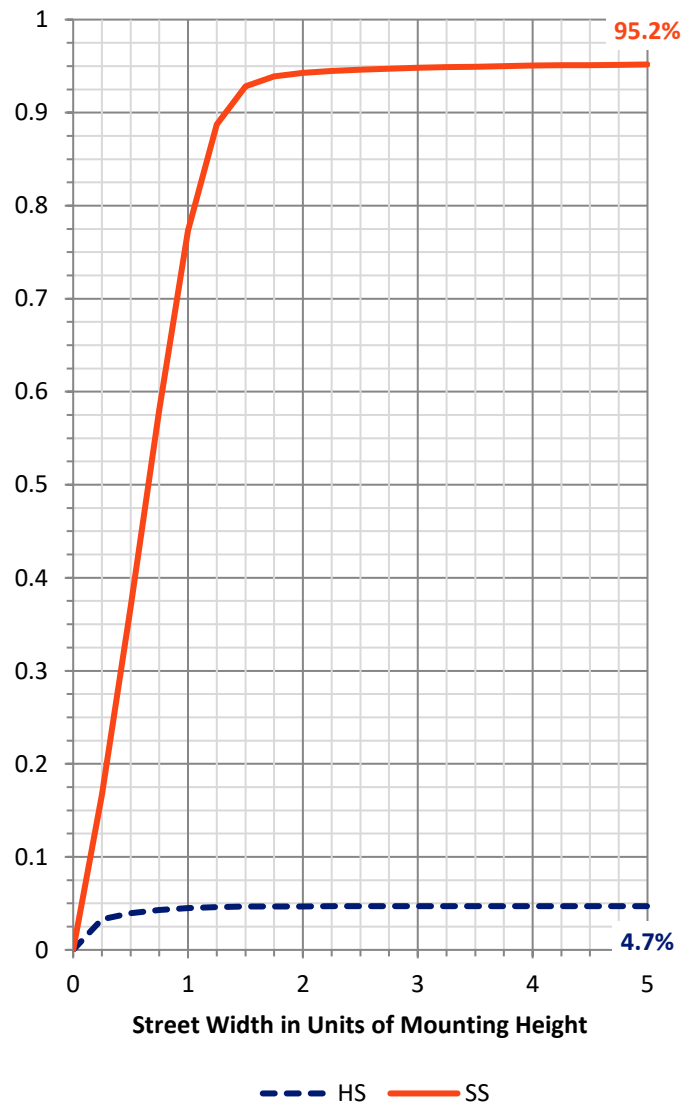
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1414.6	0.0	1414.6
	% Fixture	4.7	0.0	4.7
Street Side	Lumens	28500.4	0.0	28500.4
	% Fixture	95.3	0.0	95.3
Total	Lumens	29915.0	0.0	29915.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	587.3	2.0
10°-20°	1587.7	5.3
20°-30°	2749.7	9.2
30°-40°	4746.4	15.9
40°-50°	8078.6	27.0
50°-60°	7994.8	26.7
60°-70°	3649.0	12.2
70°-80°	468.6	1.6
80°-90°	52.8	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°	29915.0	100.0
0°-180°	29915.0	100.0

Coefficient of Utilization



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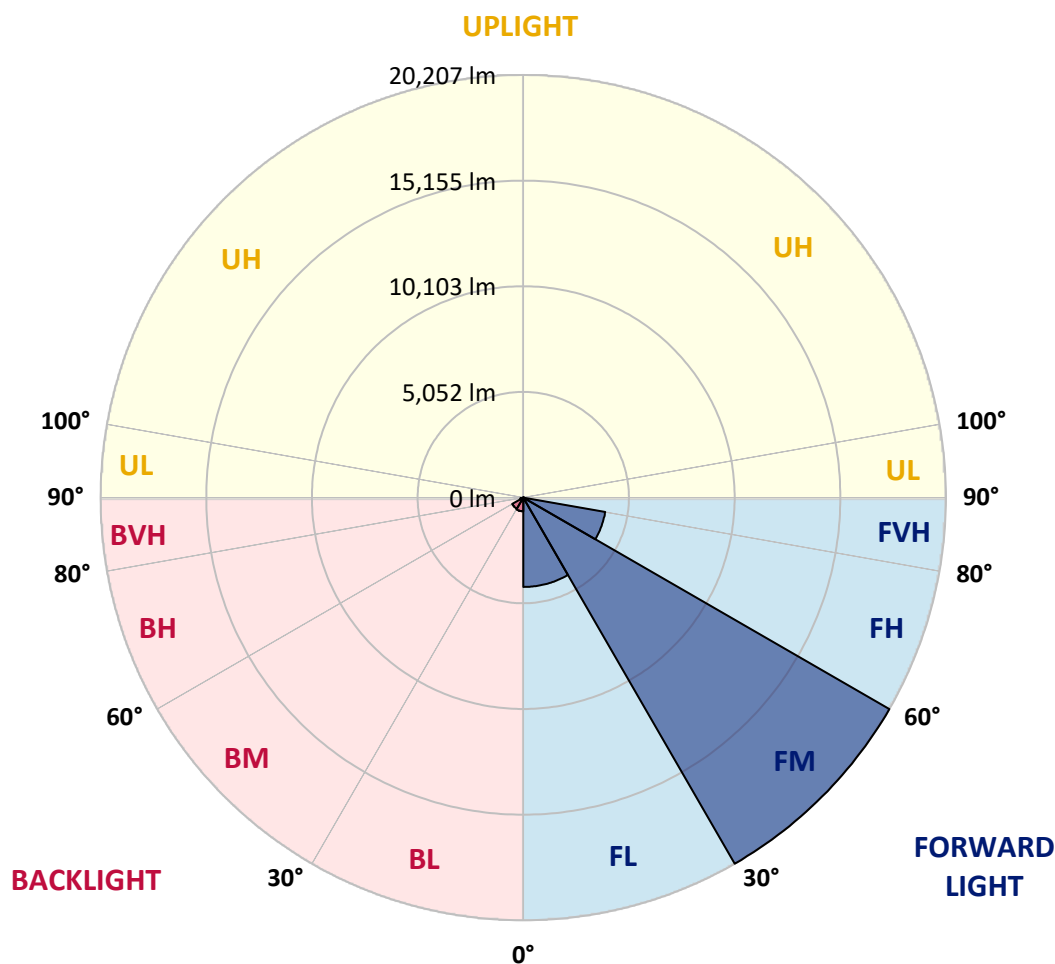
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4270.5	14.3			
FM	(30°-60°)	20206.8	67.5			
FH	(60°-80°)	3976.0	13.3			G2/5000
FVH	(80°-90°)	47.2	0.2			G1/100
BL	(0°-30°)	654.2	2.2	B2/1000		
BM	(30°-60°)	613.1	2.0	B1/1000		
BH	(60°-80°)	141.6	0.5	B1/500		G1/500
BVH	(80°-90°)	5.7	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°	6646.3	6646.3	6646.3	6646.3	6646.3	6646.3	6646.3	6646.3	6646.3	6646.3	6646.3
2.5°	8446.6	8388.0	8307.3	8244.7	8097.4	7885.5	7661.5	7661.5	7445.5	7144.8	6838.0
5°	9742.3	9704.0	9625.3	9463.8	9298.3	9001.6	8551.5	8472.8	8087.3	7542.4	6969.2
7.5°	10269.1	10287.3	10291.3	10248.9	10170.2	9877.5	9431.5	9377.0	8761.4	8030.8	7140.7
10°	9764.5	9853.3	9940.1	10115.7	10364.0	10434.6	10182.3	10125.8	9520.3	8525.3	7326.4
12.5°	9013.7	9062.2	9110.6	9387.1	9885.6	10456.8	10721.2	10719.2	10206.5	9017.8	7562.6
15°	8664.6	8706.9	8711.0	8834.1	9266.0	10097.5	10951.3	10981.6	10876.6	9625.3	7816.9
17.5°	8737.2	8771.5	8743.3	8773.5	8999.6	9702.0	10925.0	11026.0	11419.5	10208.5	8047.0
20°	9211.5	9278.1	9169.1	9084.4	9153.0	9597.0	10836.2	10977.5	11803.0	10777.7	8256.9
22.5°	10063.2	10099.6	9962.3	9730.2	9609.1	9817.0	10812.0	10951.3	12130.0	11243.9	8378.0
25°	11009.8	10997.7	10846.3	10586.0	10331.7	10261.0	10971.5	11096.6	12400.4	11663.7	8414.3
27.5°	11956.4	11992.7	11738.4	11415.5	11110.7	10927.1	11328.7	11421.5	12705.2	12142.1	8458.7
30°	13056.4	12997.8	12747.6	12378.2	12029.1	11772.7	11903.9	11930.2	13125.0	12775.8	8575.7
32.5°	14487.3	14325.9	14045.3	13399.5	13149.2	12715.3	12747.6	12779.9	13635.6	13403.5	8717.0
35°	16428.9	16420.9	15871.9	15002.0	14392.5	13853.6	13712.3	13738.5	14408.6	14336.0	9029.9
37.5°	18766.1	18798.4	18172.7	17296.8	16174.6	15318.9	15028.2	15032.3	15583.3	15623.6	9506.2
40°	20669.4	20754.2	20380.8	19789.4	18681.4	17343.2	16854.8	16810.4	17234.2	17183.8	10186.3
42.5°	21488.8	21567.5	21706.8	21912.7	21303.1	20199.1	19046.7	19107.2	19236.4	18883.2	10949.3
45°	21087.2	21212.3	21759.3	23030.8	23604.0	23232.6	21858.2	21646.2	21099.3	20729.9	11716.2
47.5°	19414.0	19718.8	20633.1	22750.2	24756.4	26011.8	25030.9	24750.4	22964.2	22078.2	12204.6
50°	16663.1	16681.2	17954.8	20661.3	24159.0	27765.7	28270.3	28060.4	24701.9	22835.0	12450.9
52.5°	12079.5	12477.1	13643.7	16778.1	21571.6	27499.3	30335.0	30248.2	26494.2	23222.5	12806.1
54°	9183.3	9259.9	10297.4	13407.5	18598.6	26036.0	30462.2	30482.3	27384.3	23456.7	13016.0
55°	7528.2	7344.6	8434.5	11421.5	16570.2	24742.3	30046.4	30143.3	27783.9	23577.7	13171.4
57.5°	3568.3	3570.4	4403.9	6024.6	10378.1	19212.2	27505.4	27848.5	27828.3	23785.6	13649.7
60°	1806.4	1818.5	2002.2	2781.2	5126.5	12771.8	22742.2	23559.6	25686.9	23815.9	13807.2
62.5°	1263.5	1249.3	1219.1	1338.1	2157.6	6490.8	16931.5	17641.9	21823.8	22663.5	13306.6
65°	1081.8	1051.5	966.8	948.6	1089.9	2585.4	10545.6	11704.1	16663.1	19623.9	11881.7
67.5°	924.4	912.3	835.6	789.2	771.0	1126.2	5441.3	6050.9	11389.3	14105.9	8999.6
70°	785.1	779.1	732.6	674.1	623.7	674.1	2018.3	2500.7	6347.5	7594.9	4246.5
72.5°	637.8	643.8	651.9	577.2	524.8	478.3	861.8	1003.1	2656.1	2714.6	1485.5
75°	559.1	553.0	553.0	502.6	438.0	355.2	474.3	510.6	813.4	754.8	345.1
77.5°	393.6	379.4	444.0	413.8	365.3	252.3	270.5	286.6	337.1	288.6	161.5
80°	272.5	272.5	284.6	371.4	329.0	183.7	165.5	177.6	199.8	171.6	92.8
82.5°	153.4	157.4	185.7	197.8	191.7	123.1	109.0	111.0	133.2	117.1	58.5
85°	18.2	30.3	107.0	105.0	78.7	54.5	60.5	62.6	82.8	72.7	34.3
87.5°	2.0	4.0	22.2	28.3	20.2	22.2	22.2	22.2	28.3	32.3	24.2
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°	6646.3	6646.3	6646.3	6646.3	6646.3	6646.3	6646.3	6646.3	6646.3	6646.3	6646.3
2.5°	6672.5	6519.1	6153.8	5729.9	5459.5	5019.5	4648.1	4379.7	4313.1	4183.9	4222.3
5°	6664.4	6345.5	5600.8	4813.6	3974.0	3348.4	2882.1	2514.8	2353.3	2246.4	2171.7
7.5°	6668.5	6169.9	4975.1	3721.7	2718.6	2105.1	1673.2	1449.1	1299.8	1237.2	1245.3
10°	6680.6	5972.1	4248.5	2757.0	1834.6	1360.3	1095.9	989.0	938.5	930.4	928.4
12.5°	6708.8	5756.2	3554.2	2046.6	1283.6	989.0	888.1	851.7	835.6	835.6	829.5
15°	6739.1	5518.0	2977.0	1521.8	989.0	849.7	803.3	785.1	775.0	775.0	773.0
17.5°	6739.1	5243.5	2438.1	1180.7	851.7	781.1	744.8	720.5	712.5	712.5	710.4
20°	6696.7	4924.6	1959.8	950.6	773.0	716.5	680.2	653.9	643.8	639.8	637.8
22.5°	6549.4	4498.8	1560.1	817.4	708.4	660.0	613.6	583.3	575.2	571.2	573.2
25°	6287.0	4018.4	1235.2	718.5	649.9	591.4	551.0	528.8	520.7	520.7	522.7
27.5°	6016.5	3515.9	978.9	643.8	579.3	526.8	494.5	480.4	478.3	484.4	486.4
30°	5766.3	3011.3	793.2	583.3	516.7	472.3	450.1	446.0	446.0	448.1	450.1
32.5°	5487.8	2569.3	664.0	530.8	466.2	427.9	415.8	415.8	419.8	419.8	423.8
35°	5312.2	2189.9	583.3	480.4	427.9	395.6	387.5	389.5	395.6	403.7	407.7
37.5°	5217.3	1887.1	530.8	440.0	391.5	369.3	361.3	365.3	379.4	393.6	395.6
40°	5225.4	1659.0	488.4	405.7	363.3	339.1	333.0	345.1	359.3	373.4	375.4
42.5°	5314.2	1489.5	448.1	365.3	339.1	304.8	302.7	314.9	320.9	335.0	337.1
45°	5419.1	1366.4	405.7	322.9	294.7	264.4	266.4	276.5	284.6	306.8	310.8
47.5°	5451.4	1281.6	357.2	274.5	242.2	232.1	234.1	240.2	256.3	276.5	278.5
50°	5487.8	1229.1	310.8	232.1	205.9	203.8	205.9	209.9	220.0	228.1	226.0
52.5°	5643.2	1227.1	272.5	201.8	175.6	179.6	181.6	179.6	171.6	159.4	155.4
54°	5788.5	1233.2	254.3	187.7	161.5	167.5	165.5	155.4	135.2	123.1	117.1
55°	5905.5	1239.2	244.2	177.6	153.4	155.4	157.4	137.2	111.0	98.9	94.9
57.5°	6135.6	1225.1	220.0	155.4	135.2	127.2	125.1	90.8	60.5	52.5	48.4
60°	6020.6	1106.0	199.8	133.2	115.0	102.9	84.8	50.5	30.3	22.2	22.2
62.5°	5568.5	938.5	177.6	109.0	94.9	78.7	44.4	28.3	14.1	8.1	6.1
65°	4981.2	789.2	159.4	86.8	74.7	50.5	24.2	18.2	6.1	0.0	0.0
67.5°	3703.6	585.3	135.2	68.6	56.5	32.3	16.1	10.1	2.0	0.0	0.0
70°	1715.6	357.2	115.0	52.5	40.4	24.2	12.1	6.1	0.0	0.0	0.0
72.5°	492.5	224.0	94.9	38.3	28.3	20.2	10.1	4.0	2.0	0.0	0.0
75°	171.6	179.6	70.6	28.3	22.2	14.1	8.1	4.0	2.0	0.0	0.0
77.5°	102.9	145.3	44.4	24.2	18.2	12.1	8.1	4.0	2.0	2.0	0.0
80°	58.5	96.9	28.3	20.2	16.1	10.1	6.1	4.0	2.0	2.0	0.0
82.5°	32.3	46.4	22.2	18.2	14.1	10.1	6.1	4.0	2.0	2.0	2.0
85°	26.2	24.2	18.2	16.1	12.1	8.1	6.1	2.0	0.0	0.0	0.0
87.5°	20.2	16.1	16.1	16.1	12.1	8.1	6.1	2.0	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)