

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: P647611

Luminaire Tested: **GALN-SA8D-835-U-SLL-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P647611
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-21)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8D-835-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR LEFT OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 35126.2 lumens
Efficiency: N/A
Efficacy: 71.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

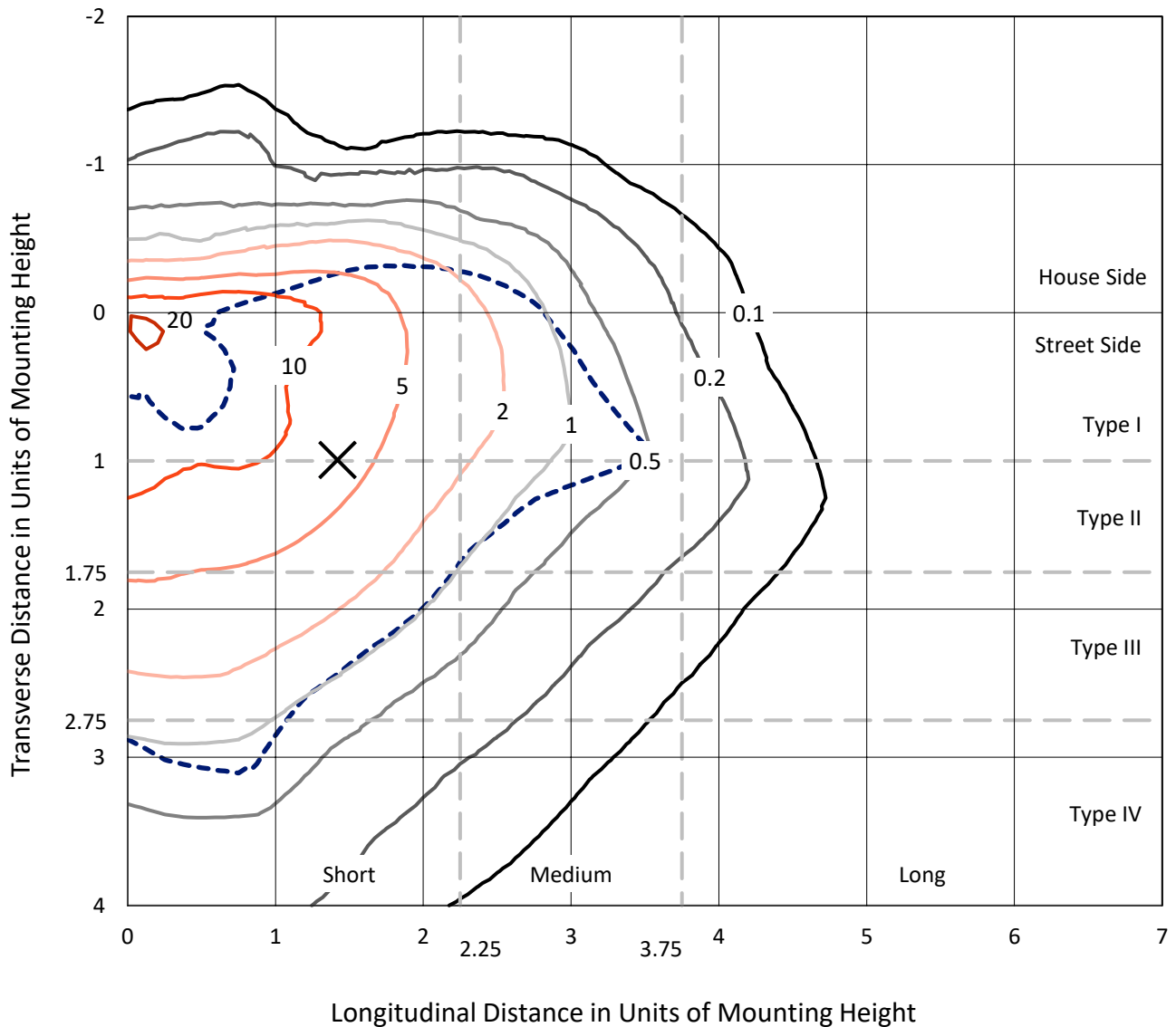
Input Watts (W): 493
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

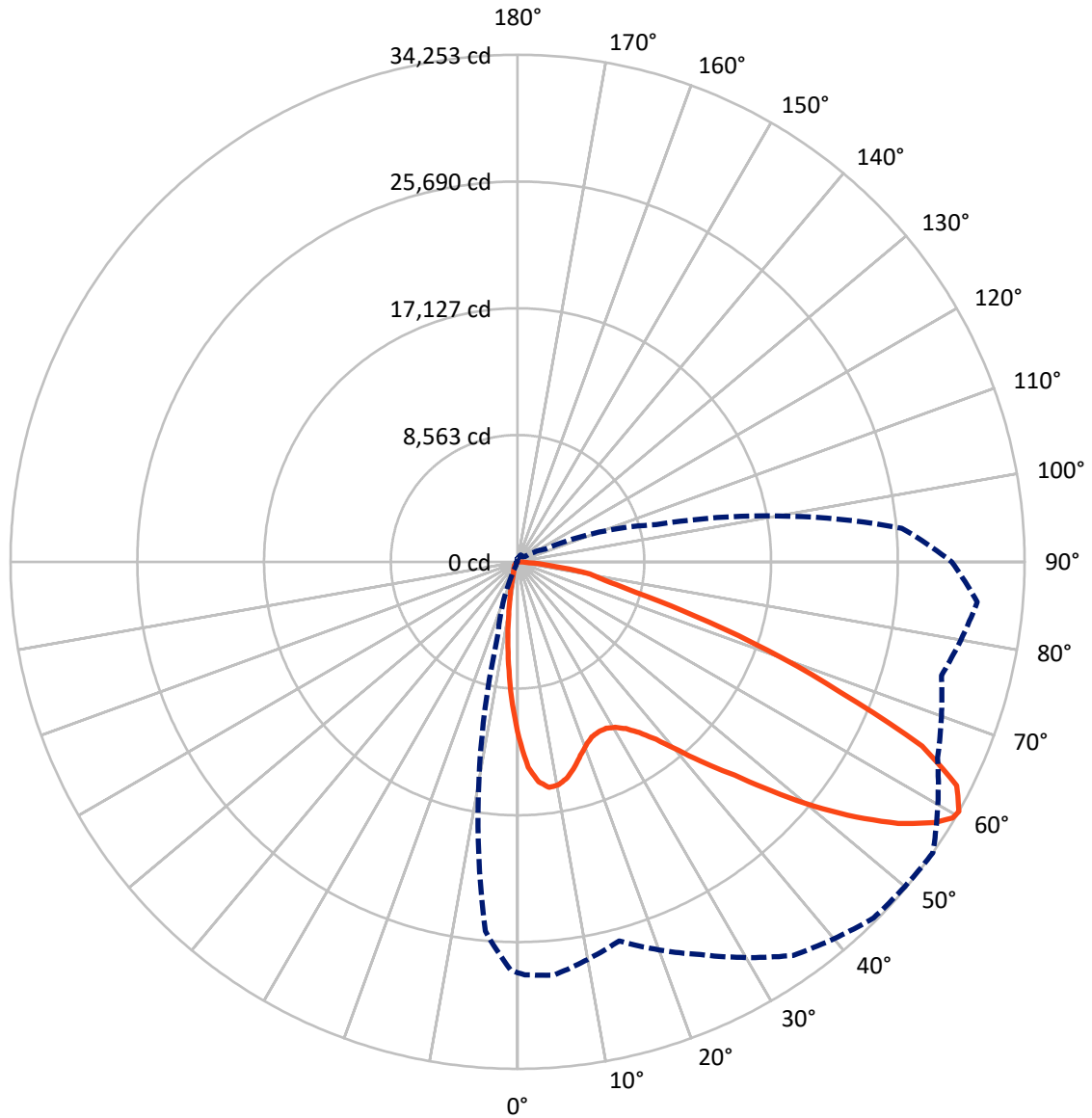
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 24.6 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 60-Deg Vertical

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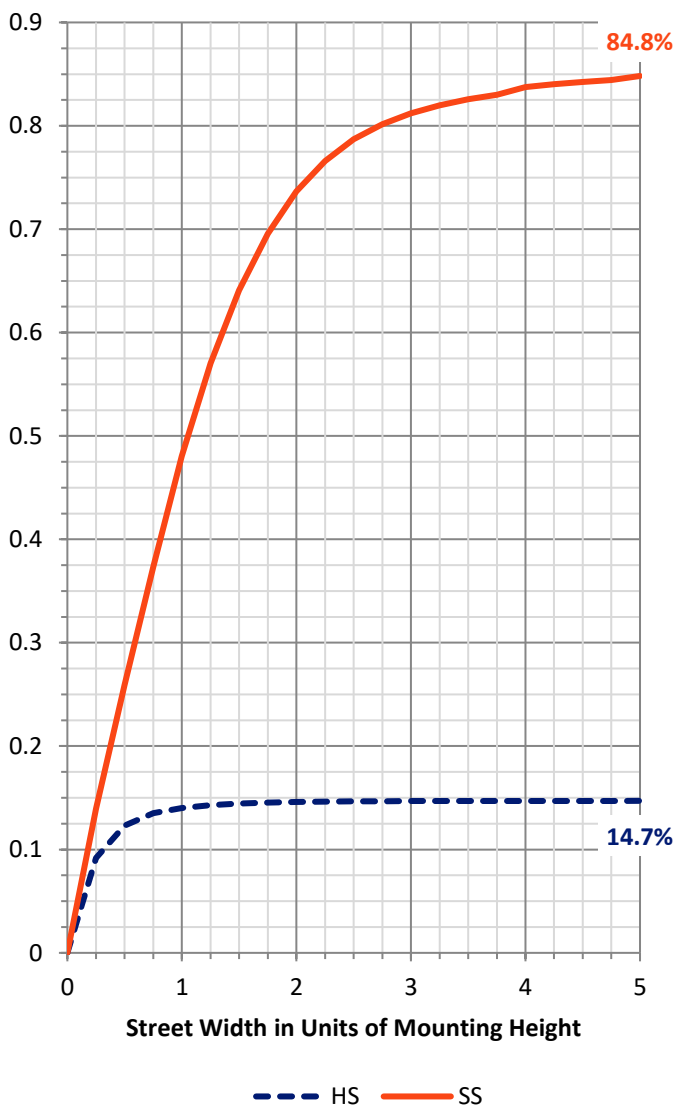
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5213.0	0.0	5213.0
	% Fixture	14.8	0.0	14.8
Street Side	Lumens	29913.1	0.0	29913.1
	% Fixture	85.2	0.0	85.2
Total	Lumens	35126.2	0.0	35126.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	880.7	2.5
10°-20°	1734.4	4.9
20°-30°	2567.2	7.3
30°-40°	3826.7	10.9
40°-50°	5604.2	16.0
50°-60°	8090.7	23.0
60°-70°	8511.0	24.2
70°-80°	3501.1	10.0
80°-90°	410.1	1.2
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°	35126.2	100.0
0°-180°	35126.2	100.0

Coefficient of Utilization



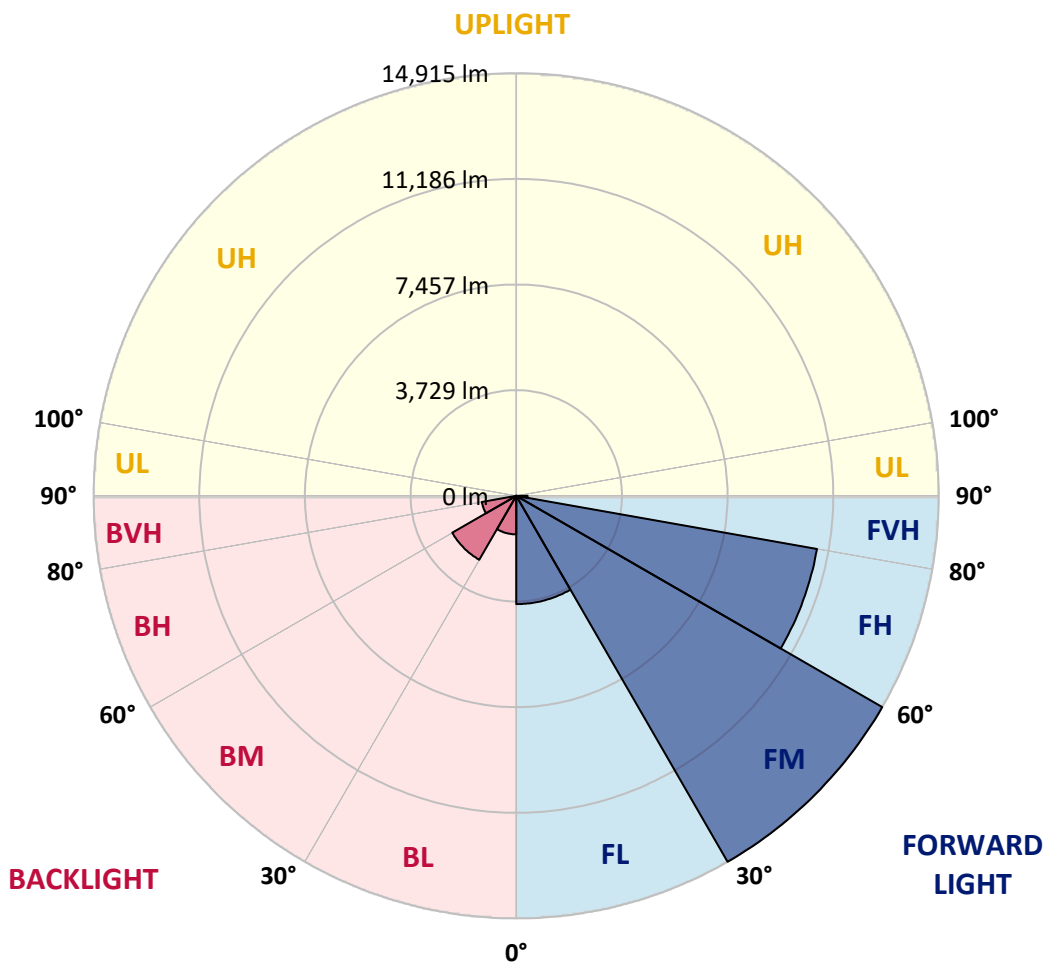
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3822.2	10.9			
FM (30°-60°)	14914.6	42.5			
FH (60°-80°)	10778.3	30.7			G4/12000
FVH (80°-90°)	398.0	1.1			G3/500
BL (0°-30°)	1360.1	3.9	B3/2500		
BM (30°-60°)	2607.0	7.4	B3/5000		
BH (60°-80°)	1233.9	3.5	B3/2500		G3/2500
BVH (80°-90°)	12.1	0.0			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	11893.6	11893.6	11893.6	11893.6	11893.6	11893.6	11893.6	11893.6	11893.6	11893.6	11893.6
2.5°	12994.0	12972.4	13164.3	13478.0	13794.3	13959.2	13926.8	13913.3	13651.1	13459.1	13056.2
5°	12967.0	13077.8	13421.2	14270.2	14913.6	15224.6	15316.5	14929.9	14418.9	13678.1	12764.2
7.5°	12191.0	12328.9	12888.6	14216.1	15359.8	16035.7	16011.4	15392.2	14337.7	13191.4	11888.2
10°	11228.5	11390.7	12047.7	13659.1	15143.5	16035.7	16084.4	15300.3	13989.0	12518.2	11147.4
12.5°	10549.9	10741.8	11469.1	13140.1	14586.5	15465.2	15522.0	14954.2	13726.8	12258.6	10744.6
15°	10320.1	10501.2	11239.3	12877.8	13994.4	14467.6	14454.0	14394.5	13624.0	12320.8	10766.2
17.5°	10714.8	10863.5	11696.2	12996.7	13440.1	13391.5	13461.8	13748.4	13645.7	12842.6	11447.5
20°	11734.1	11885.5	12780.4	13361.7	13015.7	12707.5	12739.9	13218.4	13845.7	13824.1	12512.8
22.5°	13137.3	13394.2	14205.3	14070.1	12958.9	12282.9	12215.3	12837.2	14186.4	14954.2	13951.2
25°	14913.6	15173.2	15805.9	15200.2	13237.4	12182.9	12120.8	12720.9	14600.1	16057.4	15570.7
27.5°	16406.1	16603.5	17233.4	16300.7	13648.3	12226.2	12123.4	12737.2	14935.3	16995.5	16936.1
30°	17601.1	17747.2	18117.5	16814.4	14002.5	12415.4	12296.5	12975.1	15084.0	17452.4	18041.9
32.5°	18563.7	18809.7	18926.0	17363.3	14510.8	12772.3	12569.6	13432.1	15446.3	18017.5	19201.7
35°	19664.1	19947.9	19799.3	17887.7	15181.4	13329.3	13080.6	14172.8	15995.1	18539.3	20548.2
37.5°	21059.2	21386.3	20805.0	18439.3	15889.7	14167.4	14051.2	15213.8	16827.9	19285.6	21992.0
40°	22503.0	22692.3	21781.1	19109.8	16760.3	15386.8	15497.7	16760.3	17917.5	20180.5	23527.7
42.5°	23630.4	23808.8	22784.2	19672.2	17649.8	16833.3	17295.6	18625.8	19166.6	21097.1	24674.1
45°	24492.9	24644.3	23479.0	20286.0	18850.3	18928.7	19802.0	20548.2	20418.4	21656.7	25558.1
47.5°	25163.4	25293.2	24014.4	20945.6	20648.3	21491.8	22827.4	23143.8	21716.2	22262.3	26358.4
50°	25439.2	25477.1	24182.0	21786.5	22689.5	24757.9	26150.3	25958.3	23203.3	22935.6	27210.1
52.5°	25798.8	25790.7	24660.5	22586.8	24609.1	27677.9	29067.6	28632.3	24884.9	23944.1	28167.3
55°	26742.4	26753.2	25685.2	23722.3	26244.9	30035.5	31522.6	31206.2	26658.6	25647.4	29283.9
57.5°	27888.7	27929.3	27142.5	25049.9	27807.7	31744.2	33355.6	33234.0	29056.7	27542.7	30338.4
59°	28037.5	28118.6	27832.0	25985.3	28735.0	32268.8	33982.9	34101.9	30341.0	28791.8	30908.8
60°	27767.1	27902.3	28032.1	26515.3	29278.5	32458.0	34020.8	34253.3	31306.3	29640.8	31168.4
62.5°	26588.3	26801.9	27453.5	28145.6	29957.1	31868.6	32812.2	33298.9	32501.3	31871.3	31192.7
65°	25044.5	25155.3	26096.2	28435.0	28640.4	29116.2	29408.2	30032.8	31065.6	32731.1	30076.0
67.5°	22513.8	22841.0	23992.8	26755.9	24755.2	24192.8	24119.8	23497.9	26180.0	30681.7	27323.7
70°	18598.8	18744.8	20164.3	21935.2	18682.6	17817.5	18163.6	17931.0	20294.0	26412.5	21992.0
72.5°	14064.7	14394.5	15781.5	17484.9	12712.9	11590.8	12545.2	12458.7	15243.5	21226.8	15108.3
75°	10006.4	10220.0	11988.3	13683.5	8903.3	7543.3	7886.7	8208.5	10641.8	16760.3	8927.7
77.5°	6875.5	7059.4	8386.9	9049.3	6494.3	6221.2	5691.3	6002.2	6972.8	9944.3	4858.6
80°	4147.5	4139.4	5012.7	5174.9	4523.3	5253.3	4407.0	4947.8	4215.0	4255.6	1881.8
82.5°	2692.9	2665.9	3066.0	3341.8	2517.2	2646.9	1776.3	2560.4	2747.0	1186.9	594.8
85°	1205.8	1257.3	1473.5	1944.0	1103.1	586.7	362.3	786.8	1170.7	597.5	0.0
87.5°	124.3	97.3	259.6	473.2	151.4	16.2	54.1	27.0	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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	11893.6	11893.6	11893.6	11893.6	11893.6	11893.6	11893.6	11893.6	11893.6	11893.6	11893.6
2.5°	12869.6	12712.9	12245.1	11807.1	11431.3	10971.6	10674.2	10206.5	9922.6	9836.1	9849.6
5°	12353.2	11901.8	11012.2	10301.1	9509.0	9057.4	8370.7	7711.0	7354.1	7221.6	7162.1
7.5°	11271.8	10787.8	9714.4	8597.8	7748.8	6956.6	6445.7	5864.4	5466.9	5139.8	5083.0
10°	10468.8	9833.4	8503.1	7302.7	6632.2	6037.4	5526.4	4945.1	4477.4	4104.3	4001.5
12.5°	9987.5	9276.4	7792.1	6786.3	6150.9	5539.9	4874.8	4201.6	3723.0	3320.2	3133.6
15°	9901.0	9076.4	7592.0	6415.9	5631.8	4893.8	4009.6	3282.3	2790.2	2409.0	2292.8
17.5°	10422.8	9435.9	7562.3	6029.3	4953.2	3906.9	2987.6	2384.7	1830.4	1616.8	1533.0
20°	11352.9	10071.3	7559.6	5580.4	4255.6	3009.2	2098.0	1554.6	1330.2	1227.5	1178.8
22.5°	12620.9	10936.5	7702.8	5193.8	3531.0	2219.7	1497.9	1238.3	1108.5	1024.7	1005.8
25°	14170.1	12218.1	8054.3	4931.6	2976.8	1741.2	1235.6	1059.9	951.7	913.8	897.6
27.5°	15546.3	13445.5	8441.0	4661.2	2579.4	1541.1	1146.4	970.6	884.1	854.4	830.1
30°	16733.3	14559.5	8627.6	4304.3	2260.3	1411.4	1162.6	1038.3	924.6	835.5	794.9
32.5°	17722.8	15413.8	8749.2	3979.8	1989.9	1154.5	919.2	803.0	751.6	719.2	692.2
35°	18961.1	16338.5	8676.2	3796.0	1852.0	1051.7	838.1	692.2	605.7	540.7	513.7
37.5°	20258.9	17263.2	8549.1	3644.6	1789.9	976.0	797.6	657.0	562.4	494.8	459.6
40°	21602.7	18120.3	8400.4	3504.0	1733.1	927.4	773.3	627.3	532.6	459.6	421.8
42.5°	22832.8	18955.7	8340.9	3412.1	1641.2	935.5	754.3	613.7	502.9	427.2	394.7
45°	23827.8	19747.9	8422.0	3363.4	1541.1	922.0	759.7	597.5	478.6	405.6	373.1
47.5°	24890.4	20867.3	8684.3	3314.8	1443.8	857.1	800.3	594.8	467.8	392.0	356.9
50°	26126.0	22300.2	9284.6	3195.8	1324.8	786.8	851.7	592.1	454.2	375.8	340.7
52.5°	27772.5	23927.9	9903.7	2987.6	1151.8	719.2	813.9	584.0	427.2	356.9	321.7
55°	29251.5	25642.0	10428.2	2741.6	932.8	621.9	732.7	548.9	381.2	324.5	292.0
57.5°	29862.4	26609.9	10412.0	2400.9	746.2	546.1	602.9	502.9	332.5	286.6	259.6
59°	29638.0	26488.3	10063.2	2149.4	681.4	505.6	500.2	497.5	310.9	259.6	238.0
60°	29321.7	26044.9	9687.4	2025.1	640.8	478.6	459.6	492.0	292.0	243.4	221.7
62.5°	28110.5	24206.3	8441.0	1814.2	586.7	405.6	367.7	416.4	259.6	210.9	192.0
65°	26355.8	21380.9	7145.9	1754.7	570.5	335.3	305.5	297.4	221.7	178.4	162.2
67.5°	22932.9	18093.3	5788.6	1714.1	575.9	281.2	267.6	224.4	183.8	148.7	137.9
70°	18360.9	14107.9	4739.6	1668.2	581.3	229.8	224.4	178.4	148.7	124.3	113.5
72.5°	11155.5	8362.6	3731.2	1449.2	565.1	183.8	200.1	135.2	108.1	89.2	83.8
75°	6897.1	5723.7	2314.4	1127.4	373.1	135.2	140.6	83.8	73.0	56.8	56.8
77.5°	3996.1	3614.9	827.3	405.6	164.9	81.1	62.2	43.2	40.6	24.4	24.4
80°	1657.4	1327.5	286.6	137.9	89.2	37.8	13.5	2.7	0.0	0.0	0.0
82.5°	484.0	429.9	78.4	62.2	27.0	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



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CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	11893.6	11893.6	11893.6	11893.6	11893.6	11893.6	11893.6	11893.6	11893.6	11893.6	11893.6
2.5°	9619.8	9530.6	9490.0	9627.9	9500.8	9663.1	9538.7	9592.8	9752.3	9822.6	10003.8
5°	7200.0	7108.1	7064.8	7273.0	7262.2	7364.9	7354.1	7448.8	7529.8	7348.7	7535.3
7.5°	5015.3	4953.2	5055.9	5218.1	5391.2	5334.4	5334.4	5207.3	5250.6	5223.5	5215.5
10°	3814.9	3601.3	3547.3	3541.8	3606.7	3620.3	3547.3	3371.5	3436.4	3455.4	3568.9
12.5°	3001.1	2836.2	2584.8	2471.2	2441.5	2465.7	2225.1	2071.0	2144.0	2100.8	2211.7
15°	2152.2	2016.9	1868.2	1741.2	1706.1	1657.4	1395.1	1211.3	1189.6	1197.8	1216.7
17.5°	1535.7	1443.8	1443.8	1308.6	1235.6	1089.6	957.1	876.0	867.9	876.0	889.5
20°	1132.8	1084.2	1078.8	1043.7	962.5	865.2	773.3	757.0	751.6	765.1	770.6
22.5°	976.0	924.6	881.4	878.7	803.0	721.9	678.6	657.0	659.7	665.1	678.6
25°	873.3	819.3	773.3	746.2	692.2	635.4	594.8	584.0	584.0	592.1	594.8
27.5°	800.3	732.7	692.2	654.3	605.7	556.9	521.8	513.7	508.3	513.7	527.2
30°	748.9	681.4	630.0	573.2	535.3	489.4	459.6	448.8	446.1	448.8	459.6
32.5°	640.8	600.2	559.7	508.3	462.4	432.6	400.1	381.2	381.2	386.6	397.5
35°	484.0	462.4	459.6	446.1	408.3	375.8	337.9	319.1	319.1	329.9	335.3
37.5°	427.2	386.6	381.2	375.8	359.6	316.3	281.2	265.0	262.2	270.4	281.2
40°	389.3	343.3	319.1	313.6	316.3	267.6	229.8	213.6	213.6	216.3	227.1
42.5°	359.6	305.5	262.2	256.8	267.6	224.4	186.6	170.3	170.3	170.3	183.8
45°	335.3	273.1	221.7	194.7	210.9	183.8	151.4	135.2	129.7	135.2	140.6
47.5°	319.1	248.8	194.7	156.8	156.8	146.0	121.7	102.7	97.3	100.1	108.1
50°	305.5	227.1	164.9	127.1	113.5	116.3	91.9	78.4	73.0	73.0	81.1
52.5°	283.9	205.5	143.3	108.1	86.5	78.4	67.6	56.8	54.1	56.8	62.2
55°	256.8	186.6	124.3	89.2	67.6	54.1	48.7	40.6	37.8	40.6	48.7
57.5°	227.1	156.8	100.1	70.3	46.0	35.2	32.4	27.0	21.6	24.4	29.8
59°	208.2	140.6	86.5	56.8	35.2	24.4	24.4	18.9	13.5	16.2	24.4
60°	200.1	129.7	73.0	48.7	29.8	18.9	18.9	13.5	8.1	10.8	18.9
62.5°	170.3	108.1	56.8	29.8	13.5	2.7	8.1	2.7	0.0	2.7	8.1
65°	143.3	86.5	37.8	13.5	0.0	0.0	0.0	0.0	0.0	0.0	2.7
67.5°	118.9	64.9	18.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	94.7	43.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	64.9	24.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	40.6	8.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	16.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	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



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CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	11893.6	11893.6	11893.6	11893.6	11893.6	11893.6	11893.6	11893.6	11893.6	11893.6
2.5°	10014.6	10401.1	10639.1	11087.9	11547.5	11901.8	12345.2	12742.6	12907.5	12994.0
5°	7724.5	8262.5	8719.5	9403.5	10038.8	10812.1	11596.2	12520.9	12875.1	12967.0
7.5°	5420.9	5969.8	6448.3	7240.6	8146.3	9181.8	10355.2	11528.7	12045.0	12191.0
10°	3915.0	4501.7	5085.7	5877.9	6724.1	7846.1	9068.2	10520.2	11114.9	11228.5
12.5°	2471.2	3101.1	4050.1	5028.9	5923.9	6826.9	8105.7	9684.7	10341.7	10549.9
15°	1433.0	1903.4	2619.9	3896.1	5034.3	6229.3	7624.5	9371.0	10106.5	10320.1
17.5°	959.8	1122.0	1614.1	2590.2	4093.4	5677.8	7502.8	9627.9	10441.7	10714.8
20°	808.4	881.4	1054.5	1579.0	3152.5	5185.7	7535.3	10325.5	11393.4	11734.1
22.5°	711.0	778.7	889.5	1135.6	2200.9	4574.7	7689.4	11323.1	12702.1	13137.3
25°	627.3	694.8	792.2	940.9	1478.9	3869.0	8027.3	12783.2	14435.1	14913.6
27.5°	556.9	619.1	703.0	830.1	1138.2	3082.2	8327.4	14205.3	16016.8	16406.1
30°	492.0	543.5	624.5	721.9	946.3	2376.6	8478.9	15449.0	17168.5	17601.1
32.5°	427.2	475.8	554.3	632.7	778.7	1811.5	8373.4	16362.8	18287.9	18563.7
35°	365.0	416.4	481.2	554.3	673.2	1462.7	7846.1	17390.3	19447.8	19664.1
37.5°	313.6	356.9	424.5	481.2	608.3	1170.7	7208.1	18314.9	20748.2	21059.2
40°	265.0	308.2	375.8	427.2	559.7	922.0	6632.2	19342.4	22119.0	22503.0
42.5°	216.3	267.6	327.1	411.0	481.2	703.0	5934.7	20175.1	23149.2	23630.4
45°	173.0	229.8	294.7	408.3	419.1	535.3	5261.4	20824.0	24060.3	24492.9
47.5°	137.9	194.7	283.9	381.2	343.3	424.5	4877.5	21502.6	24817.3	25163.4
50°	110.9	162.2	297.4	335.3	286.6	359.6	4866.7	22259.7	25209.4	25439.2
52.5°	89.2	132.5	251.4	256.8	243.4	316.3	5158.7	23111.3	25609.6	25798.8
55°	75.7	110.9	164.9	189.3	219.0	286.6	5377.6	24422.6	26564.0	26742.4
57.5°	59.5	94.7	127.1	151.4	194.7	262.2	5407.4	25433.8	27772.5	27888.7
59°	51.4	81.1	113.5	135.2	178.4	246.0	5285.7	25496.0	27850.9	28037.5
60°	43.2	73.0	100.1	127.1	164.9	232.6	5153.2	25044.5	27558.9	27767.1
62.5°	32.4	56.8	73.0	102.7	135.2	200.1	4526.0	23468.2	26442.3	26588.3
65°	21.6	40.6	54.1	75.7	105.5	173.0	3687.9	21424.2	24717.4	25044.5
67.5°	13.5	29.8	43.2	56.8	86.5	146.0	2628.0	18371.7	22302.9	22513.8
70°	8.1	18.9	32.4	46.0	67.6	116.3	1560.0	14521.6	18555.5	18598.8
72.5°	5.4	13.5	21.6	32.4	54.1	105.5	757.0	9465.7	13548.3	14064.7
75°	2.7	8.1	13.5	24.4	43.2	86.5	362.3	6324.0	9857.7	10006.4
77.5°	0.0	2.7	8.1	16.2	32.4	67.6	210.9	4152.9	6721.4	6875.5
80°	0.0	0.0	5.4	13.5	24.4	43.2	127.1	2449.5	4071.8	4147.5
82.5°	0.0	0.0	2.7	10.8	16.2	32.4	64.9	1076.1	2665.9	2692.9
85°	0.0	0.0	2.7	10.8	13.5	21.6	24.4	146.0	1184.2	1205.8
87.5°	0.0	0.0	2.7	13.5	13.5	13.5	13.5	8.1	100.1	124.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)