

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: P648161

Luminaire Tested: **GALN-SA9A-835-U-SLL-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P648161
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-SA9A-835-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 3500K, 615mA 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: 23312.3 lumens
Efficiency: N/A
Efficacy: 85.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

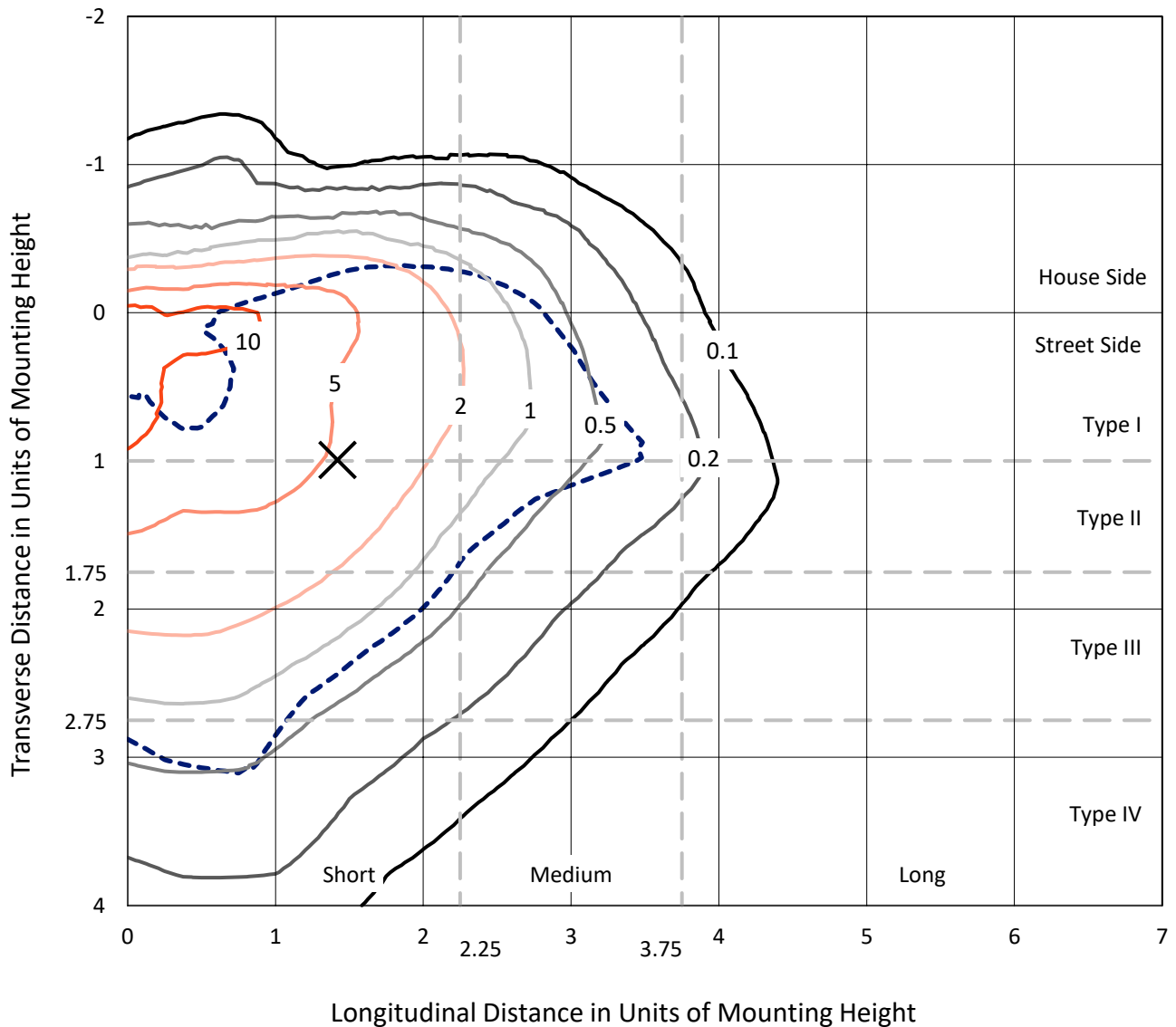
Input Watts (W): 274
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

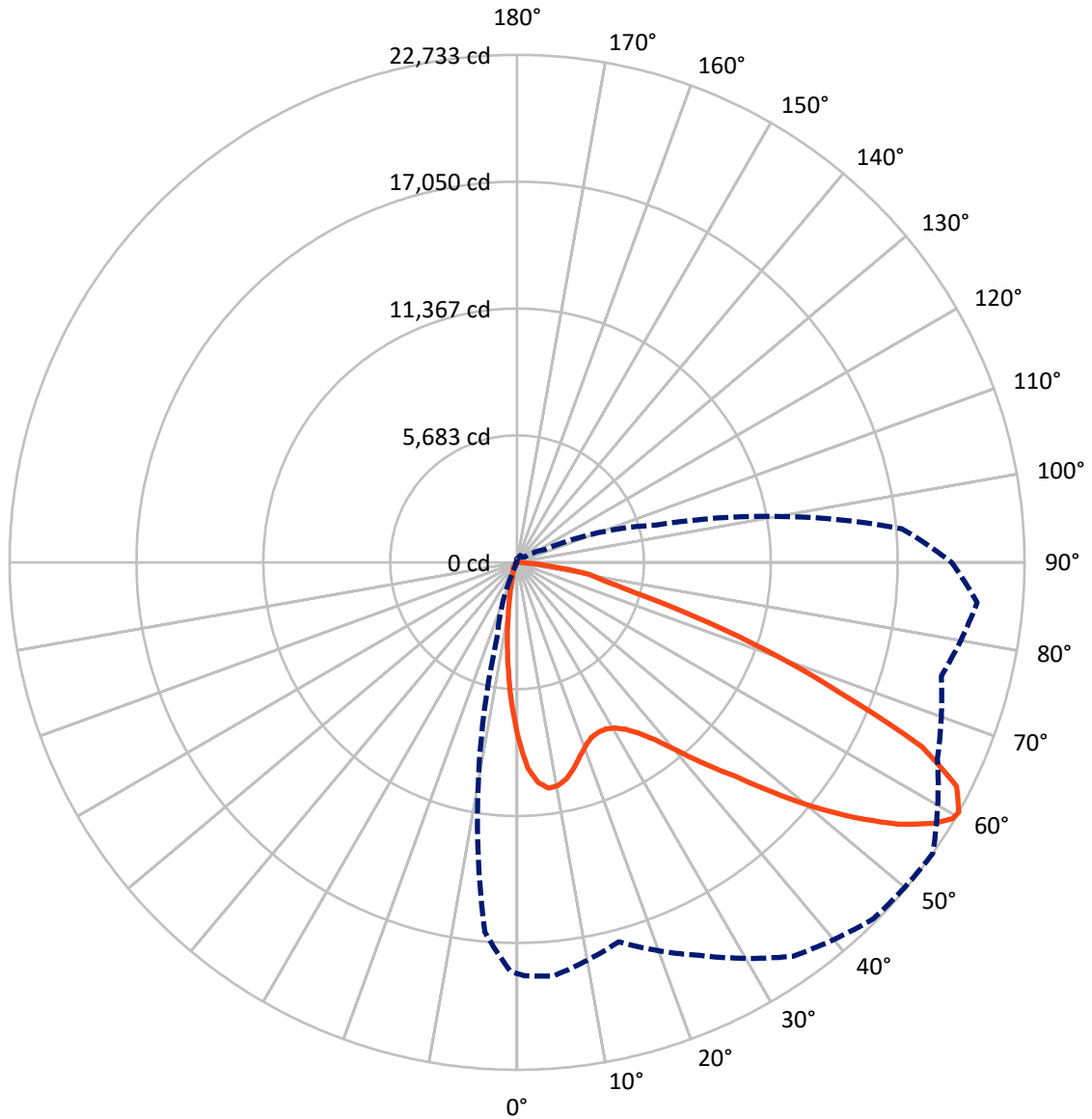
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.3 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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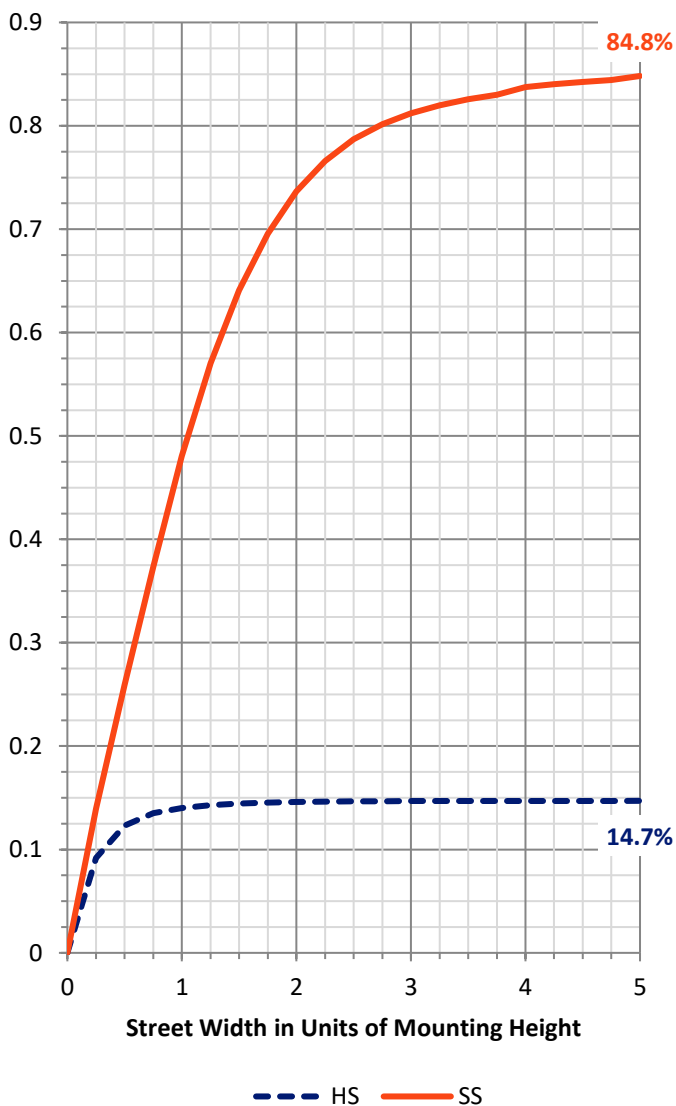
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3459.8	0.0	3459.8
	% Fixture	14.8	0.0	14.8
Street Side	Lumens	19852.5	0.0	19852.5
	% Fixture	85.2	0.0	85.2
Total	Lumens	23312.3	0.0	23312.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	584.5	2.5
10°-20°	1151.1	4.9
20°-30°	1703.8	7.3
30°-40°	2539.7	10.9
40°-50°	3719.4	16.0
50°-60°	5369.6	23.0
60°-70°	5648.5	24.2
70°-80°	2323.6	10.0
80°-90°	272.1	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°	23312.3	100.0
0°-180°	23312.3	100.0

Coefficient of Utilization



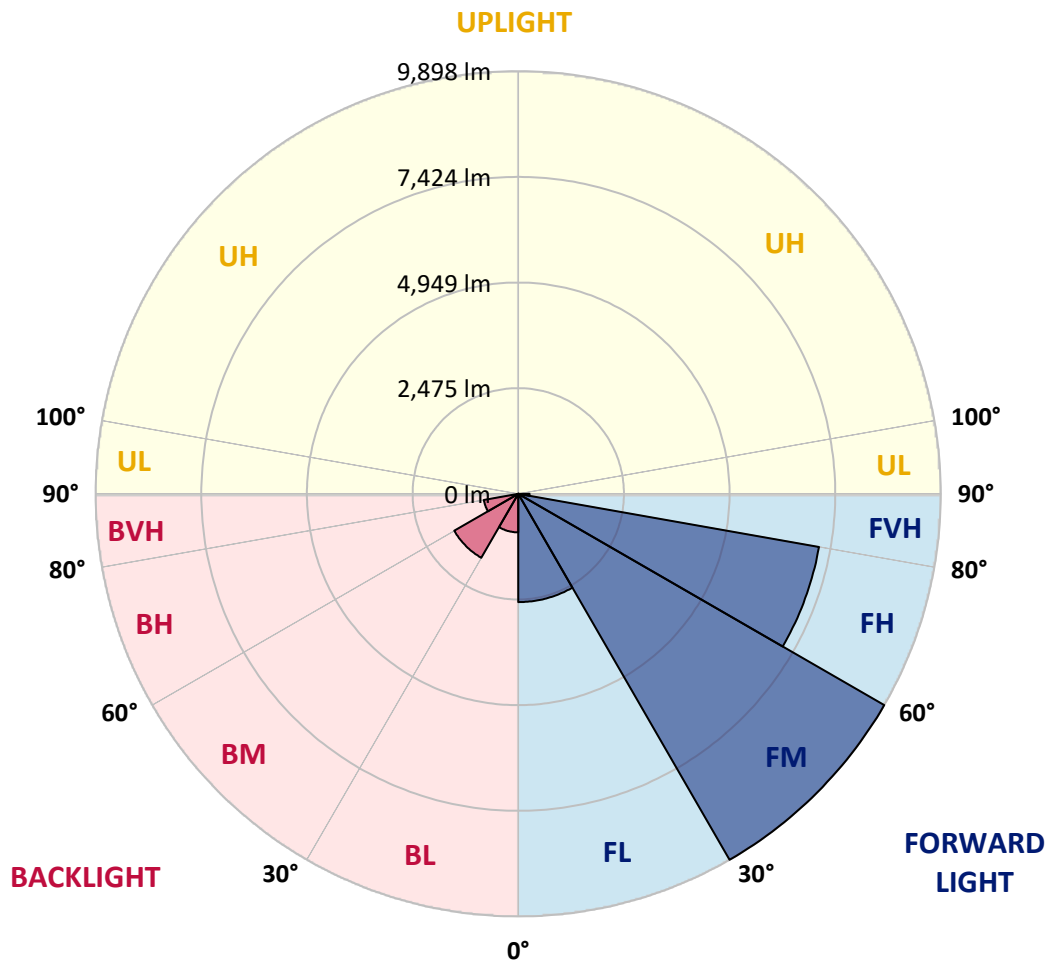
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2536.7	10.9			
FM (30°-60°)	9898.4	42.5			
FH (60°-80°)	7153.3	30.7			G3/7500
FVH (80°-90°)	264.1	1.1			G3/500
BL (0°-30°)	902.7	3.9	B2/1000		
BM (30°-60°)	1730.2	7.4	B2/2500		
BH (60°-80°)	818.9	3.5	B2/1000		G2/1000
BVH (80°-90°)	8.0	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-G3

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	7893.5	7893.5	7893.5	7893.5	7893.5	7893.5	7893.5	7893.5	7893.5	7893.5	7893.5
2.5°	8623.8	8609.4	8736.8	8945.0	9154.9	9264.4	9242.8	9233.8	9059.8	8932.4	8665.1
5°	8605.8	8679.4	8907.3	9470.7	9897.8	10104.1	10165.1	9908.6	9569.4	9077.8	8471.3
7.5°	8090.8	8182.4	8553.8	9434.8	10193.9	10642.5	10626.3	10215.4	9515.6	8754.8	7889.9
10°	7452.0	7559.7	7995.8	9065.2	10050.3	10642.5	10674.7	10154.4	9284.1	8307.9	7398.3
12.5°	7001.7	7129.1	7611.8	8720.7	9680.7	10263.9	10301.5	9924.7	9110.0	8135.7	7130.9
15°	6849.1	6969.3	7459.2	8546.6	9287.7	9601.7	9592.8	9553.3	9041.8	8176.9	7145.2
17.5°	7111.1	7209.8	7762.5	8625.6	8919.9	8887.5	8934.2	9124.4	9056.3	8523.3	7597.4
20°	7787.6	7888.1	8482.0	8867.8	8638.1	8433.5	8455.1	8772.7	9189.0	9174.6	8304.3
22.5°	8718.9	8889.3	9427.6	9337.9	8600.5	8151.9	8107.0	8519.7	9415.1	9924.7	9259.0
25°	9897.8	10070.1	10489.9	10088.0	8785.3	8085.5	8044.2	8442.5	9689.6	10656.8	10333.8
27.5°	10888.3	11019.2	11437.4	10818.3	9058.0	8114.2	8046.0	8453.3	9912.2	11279.4	11240.0
30°	11681.4	11778.3	12024.1	11159.2	9293.1	8239.7	8160.8	8611.2	10010.8	11582.7	11973.9
32.5°	12320.2	12483.4	12560.7	11523.5	9630.4	8476.6	8342.1	8914.5	10251.3	11957.7	12743.6
35°	13050.5	13238.9	13140.2	11871.6	10075.4	8846.3	8681.2	9406.1	10615.5	12304.1	13637.3
37.5°	13976.4	14193.5	13807.7	12237.7	10545.5	9402.5	9325.4	10096.9	11168.2	12799.3	14595.4
40°	14934.6	15060.2	14455.5	12682.6	11123.4	10211.8	10285.4	11123.4	11891.3	13393.2	15614.7
42.5°	15682.9	15801.3	15121.2	13055.9	11713.7	11171.8	11478.6	12361.5	12720.3	14001.5	16375.5
45°	16255.2	16355.8	15582.4	13463.2	12510.4	12562.5	13142.0	13637.3	13551.1	14373.0	16962.3
47.5°	16700.3	16786.4	15937.7	13901.1	13703.7	14263.5	15150.0	15359.9	14412.4	14774.9	17493.4
50°	16883.3	16908.4	16048.9	14459.1	15058.4	16431.1	17355.2	17227.8	15399.3	15221.7	18058.6
52.5°	17121.9	17116.5	16366.5	14990.2	16332.4	18369.0	19291.3	19002.5	16515.4	15891.0	18693.8
55°	17748.2	17755.4	17046.6	15743.9	17418.0	19933.8	20920.7	20710.7	17692.6	17021.5	19434.9
57.5°	18509.0	18535.9	18013.8	16624.9	18455.2	21067.8	22137.2	22056.5	19284.2	18279.3	20134.7
59°	18607.7	18661.6	18471.3	17245.7	19070.7	21415.9	22553.5	22632.5	20136.5	19108.3	20513.3
60°	18428.2	18518.0	18604.1	17597.5	19431.3	21541.5	22578.7	22733.0	20777.1	19671.8	20685.6
62.5°	17645.9	17787.6	18220.1	18679.5	19881.7	21150.3	21776.6	22099.5	21570.2	21152.1	20701.7
65°	16621.3	16694.9	17319.3	18871.5	19007.9	19323.7	19517.4	19932.0	20617.4	21722.8	19960.6
67.5°	14941.8	15158.9	15923.3	17757.2	16429.3	16056.1	16007.7	15594.9	17374.9	20362.6	18134.0
70°	12343.5	12440.4	13382.5	14557.8	12399.1	11824.9	12054.6	11900.3	13468.6	17529.3	14595.4
72.5°	9334.4	9553.3	10473.8	11604.2	8437.1	7692.5	8325.9	8268.5	10116.7	14087.7	10027.0
75°	6641.0	6782.7	7956.3	9081.3	5908.9	5006.3	5234.2	5447.7	7062.7	11123.4	5925.0
77.5°	4563.1	4685.1	5566.2	6005.8	4310.1	4128.8	3777.2	3983.5	4627.7	6599.8	3224.5
80°	2752.6	2747.2	3326.8	3434.5	3002.0	3486.5	2924.8	3283.7	2797.4	2824.4	1248.9
82.5°	1787.2	1769.3	2034.9	2217.8	1670.5	1756.7	1178.9	1699.3	1823.1	787.7	394.8
85°	800.3	834.4	978.0	1290.1	732.1	389.4	240.5	522.2	777.0	396.6	0.0
87.5°	82.5	64.6	172.3	314.0	100.5	10.8	35.9	17.9	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°	7893.5	7893.5	7893.5	7893.5	7893.5	7893.5	7893.5	7893.5	7893.5	7893.5	7893.5
2.5°	8541.2	8437.1	8126.8	7836.0	7586.6	7281.6	7084.2	6773.8	6585.3	6527.9	6537.0
5°	8198.5	7898.8	7308.5	6836.6	6310.8	6011.2	5555.4	5117.5	4880.7	4792.8	4753.3
7.5°	7480.8	7159.6	6447.2	5706.1	5142.7	4617.0	4277.8	3892.0	3628.3	3411.1	3373.4
10°	6947.8	6526.1	5643.3	4846.6	4401.6	4006.8	3667.7	3281.9	2971.5	2723.9	2655.7
12.5°	6628.4	6156.5	5171.4	4503.9	4082.2	3676.7	3235.3	2788.5	2470.8	2203.5	2079.6
15°	6571.0	6023.7	5038.6	4258.0	3737.7	3247.8	2661.0	2178.4	1851.8	1598.8	1521.6
17.5°	6917.3	6262.4	5018.9	4001.4	3287.3	2592.9	1982.8	1582.7	1214.8	1073.0	1017.4
20°	7534.6	6684.1	5017.1	3703.6	2824.4	1997.1	1392.4	1031.8	882.8	814.6	782.4
22.5°	8376.1	7258.3	5112.2	3447.0	2343.4	1473.2	994.1	821.8	735.7	680.0	667.5
25°	9404.3	8108.8	5345.5	3272.9	1975.6	1155.6	820.0	703.4	631.6	606.5	595.7
27.5°	10317.7	8923.5	5602.1	3093.5	1711.9	1022.8	760.8	644.2	586.8	567.0	550.8
30°	11105.4	9662.7	5725.8	2856.6	1500.1	936.7	771.6	689.0	613.7	554.4	527.6
32.5°	11762.1	10229.7	5806.6	2641.3	1320.7	766.2	610.1	532.9	498.8	477.3	459.4
35°	12584.0	10843.5	5758.2	2519.3	1229.2	698.0	556.2	459.4	401.9	358.8	340.9
37.5°	13445.3	11457.1	5673.9	2418.8	1187.9	647.8	529.3	436.1	373.3	328.4	305.1
40°	14337.0	12025.9	5575.1	2325.5	1150.2	615.4	513.2	416.3	353.5	305.1	279.9
42.5°	15153.6	12580.4	5535.7	2264.5	1089.2	620.8	500.7	407.3	333.8	283.5	262.0
45°	15813.9	13106.2	5589.5	2232.2	1022.8	611.9	504.3	396.6	317.6	269.2	247.7
47.5°	16519.0	13849.0	5763.5	2199.9	958.2	568.8	531.1	394.8	310.5	260.2	236.9
50°	17339.1	14800.0	6161.9	2121.0	879.2	522.2	565.2	393.0	301.5	249.4	226.1
52.5°	18431.8	15880.3	6572.8	1982.8	764.4	477.3	540.1	387.6	283.5	236.9	213.5
55°	19413.4	17017.9	6920.9	1819.5	619.0	412.7	486.2	364.3	253.0	215.3	193.8
57.5°	19818.9	17660.3	6910.1	1593.4	495.2	362.5	400.1	333.8	220.7	190.2	172.3
59°	19670.0	17579.5	6678.7	1426.5	452.2	335.5	332.0	330.2	206.3	172.3	157.9
60°	19460.1	17285.3	6429.3	1344.0	425.2	317.6	305.1	326.6	193.8	161.5	147.1
62.5°	18656.1	16065.0	5602.1	1204.0	389.4	269.2	244.1	276.3	172.3	140.0	127.4
65°	17491.6	14189.9	4742.6	1164.6	378.6	222.5	202.8	197.4	147.1	118.5	107.7
67.5°	15219.9	12008.0	3841.8	1137.6	382.2	186.6	177.7	148.9	122.0	98.7	91.5
70°	12185.6	9363.0	3145.5	1107.2	385.8	152.5	148.9	118.5	98.7	82.5	75.4
72.5°	7403.6	5550.0	2476.2	961.8	375.1	122.0	132.8	89.7	71.8	59.2	55.6
75°	4577.4	3798.7	1536.0	748.2	247.7	89.7	93.3	55.6	48.5	37.7	37.7
77.5°	2652.1	2399.1	549.1	269.2	109.5	53.9	41.3	28.7	26.9	16.1	16.1
80°	1100.0	881.0	190.2	91.5	59.2	25.1	9.0	1.8	0.0	0.0	0.0
82.5°	321.2	285.3	52.1	41.3	17.9	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°	7893.5	7893.5	7893.5	7893.5	7893.5	7893.5	7893.5	7893.5	7893.5	7893.5	7893.5
2.5°	6384.4	6325.2	6298.3	6389.7	6305.4	6413.1	6330.6	6366.4	6472.4	6518.9	6639.2
5°	4778.4	4717.4	4688.7	4826.9	4819.7	4887.9	4880.7	4943.5	4997.3	4877.2	5000.9
7.5°	3328.5	3287.3	3355.5	3463.1	3578.0	3540.3	3540.3	3456.0	3484.7	3466.7	3461.3
10°	2531.8	2390.1	2354.2	2350.6	2393.7	2402.6	2354.2	2237.6	2280.6	2293.3	2368.6
12.5°	1991.8	1882.3	1715.4	1640.1	1620.3	1636.5	1476.7	1374.5	1422.9	1394.2	1467.8
15°	1428.3	1338.6	1239.9	1155.6	1132.2	1100.0	925.9	803.9	789.5	794.9	807.5
17.5°	1019.2	958.2	958.2	868.5	820.0	723.1	635.2	581.4	576.0	581.4	590.4
20°	751.8	719.6	716.0	692.6	638.8	574.2	513.2	502.5	498.8	507.8	511.4
22.5°	647.8	613.7	585.0	583.2	532.9	479.1	450.4	436.1	437.9	441.5	450.4
25°	579.6	543.7	513.2	495.2	459.4	421.6	394.8	387.6	387.6	393.0	394.8
27.5°	531.1	486.2	459.4	434.3	401.9	369.7	346.3	340.9	337.3	340.9	349.9
30°	497.0	452.2	418.1	380.4	355.3	324.8	305.1	297.9	296.1	297.9	305.1
32.5°	425.2	398.4	371.5	337.3	306.9	287.1	265.6	253.0	253.0	256.6	263.8
35°	321.2	306.9	305.1	296.1	270.9	249.4	224.3	211.7	211.7	218.9	222.5
37.5°	283.5	256.6	253.0	249.4	238.7	209.9	186.6	175.9	174.1	179.5	186.6
40°	258.4	227.9	211.7	208.1	209.9	177.7	152.5	141.7	141.7	143.5	150.7
42.5°	238.7	202.8	174.1	170.5	177.7	148.9	123.8	113.1	113.1	113.1	122.0
45°	222.5	181.3	147.1	129.2	140.0	122.0	100.5	89.7	86.1	89.7	93.3
47.5°	211.7	165.1	129.2	104.1	104.1	96.9	80.7	68.2	64.6	66.4	71.8
50°	202.8	150.7	109.5	84.3	75.4	77.1	61.0	52.1	48.5	48.5	53.9
52.5°	188.4	136.4	95.1	71.8	57.4	52.1	44.9	37.7	35.9	37.7	41.3
55°	170.5	123.8	82.5	59.2	44.9	35.9	32.3	26.9	25.1	26.9	32.3
57.5°	150.7	104.1	66.4	46.7	30.5	23.3	21.5	17.9	14.3	16.1	19.7
59°	138.2	93.3	57.4	37.7	23.3	16.1	16.1	12.5	9.0	10.8	16.1
60°	132.8	86.1	48.5	32.3	19.7	12.5	12.5	9.0	5.4	7.2	12.5
62.5°	113.1	71.8	37.7	19.7	9.0	1.8	5.4	1.8	0.0	1.8	5.4
65°	95.1	57.4	25.1	9.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8
67.5°	78.9	43.1	12.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	62.8	28.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	43.1	16.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	26.9	5.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	10.8	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°	7893.5	7893.5	7893.5	7893.5	7893.5	7893.5	7893.5	7893.5	7893.5	7893.5
2.5°	6646.3	6903.0	7060.9	7358.7	7663.8	7898.8	8193.2	8456.9	8566.3	8623.8
5°	5126.5	5483.6	5786.8	6240.8	6662.5	7175.7	7696.1	8309.7	8544.8	8605.8
7.5°	3597.7	3962.0	4279.6	4805.3	5406.5	6093.7	6872.5	7651.2	7994.0	8090.8
10°	2598.2	2987.6	3375.2	3901.0	4462.6	5207.3	6018.4	6981.9	7376.7	7452.0
12.5°	1640.1	2058.1	2688.0	3337.5	3931.4	4530.8	5379.5	6427.5	6863.5	7001.7
15°	951.0	1263.2	1738.7	2585.7	3341.1	4134.2	5060.1	6219.3	6707.4	6849.1
17.5°	637.0	744.6	1071.2	1719.0	2716.7	3768.2	4979.4	6389.7	6929.9	7111.1
20°	536.5	585.0	699.8	1047.9	2092.3	3441.6	5000.9	6852.7	7561.5	7787.6
22.5°	471.9	516.8	590.4	753.6	1460.6	3036.1	5103.2	7514.8	8430.0	8718.9
25°	416.3	461.2	525.8	624.4	981.5	2567.8	5327.5	8483.8	9580.2	9897.8
27.5°	369.7	410.9	466.5	550.8	755.4	2045.6	5526.6	9427.6	10629.9	10888.3
30°	326.6	360.6	414.5	479.1	628.0	1577.3	5627.2	10253.1	11394.3	11681.4
32.5°	283.5	315.8	367.9	419.9	516.8	1202.2	5557.2	10859.6	12137.2	12320.2
35°	242.3	276.3	319.4	367.9	446.8	970.8	5207.3	11541.4	12907.0	13050.5
37.5°	208.1	236.9	281.7	319.4	403.7	777.0	4783.8	12155.1	13770.1	13976.4
40°	175.9	204.6	249.4	283.5	371.5	611.9	4401.6	12837.0	14679.8	14934.6
42.5°	143.5	177.7	217.1	272.7	319.4	466.5	3938.6	13389.6	15363.5	15682.9
45°	114.9	152.5	195.6	270.9	278.1	355.3	3491.9	13820.3	15968.2	16255.2
47.5°	91.5	129.2	188.4	253.0	227.9	281.7	3237.1	14270.6	16470.6	16700.3
50°	73.6	107.7	197.4	222.5	190.2	238.7	3229.9	14773.1	16730.8	16883.3
52.5°	59.2	87.9	166.9	170.5	161.5	209.9	3423.7	15338.3	16996.3	17121.9
55°	50.3	73.6	109.5	125.6	145.3	190.2	3569.0	16208.6	17629.8	17748.2
57.5°	39.5	62.8	84.3	100.5	129.2	174.1	3588.7	16879.7	18431.8	18509.0
59°	34.1	53.9	75.4	89.7	118.5	163.3	3508.0	16920.9	18483.9	18607.7
60°	28.7	48.5	66.4	84.3	109.5	154.3	3420.1	16621.3	18290.1	18428.2
62.5°	21.5	37.7	48.5	68.2	89.7	132.8	3003.8	15575.2	17549.0	17645.9
65°	14.3	26.9	35.9	50.3	70.0	114.9	2447.5	14218.7	16404.2	16621.3
67.5°	9.0	19.7	28.7	37.7	57.4	96.9	1744.1	12192.8	14801.8	14941.8
70°	5.4	12.5	21.5	30.5	44.9	77.1	1035.4	9637.6	12314.8	12343.5
72.5°	3.6	9.0	14.3	21.5	35.9	70.0	502.5	6282.1	8991.7	9334.4
75°	1.8	5.4	9.0	16.1	28.7	57.4	240.5	4197.0	6542.3	6641.0
77.5°	0.0	1.8	5.4	10.8	21.5	44.9	140.0	2756.2	4460.8	4563.1
80°	0.0	0.0	3.6	9.0	16.1	28.7	84.3	1625.7	2702.4	2752.6
82.5°	0.0	0.0	1.8	7.2	10.8	21.5	43.1	714.2	1769.3	1787.2
85°	0.0	0.0	1.8	7.2	9.0	14.3	16.1	96.9	786.0	800.3
87.5°	0.0	0.0	1.8	9.0	9.0	9.0	9.0	5.4	66.4	82.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)