

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: P454639

Luminaire Tested: **GALN-SA5D-730-U-SLL-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P454639
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-SA5D-730-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3000K, 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: 25338 lumens
Efficiency: N/A
Efficacy: 82.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

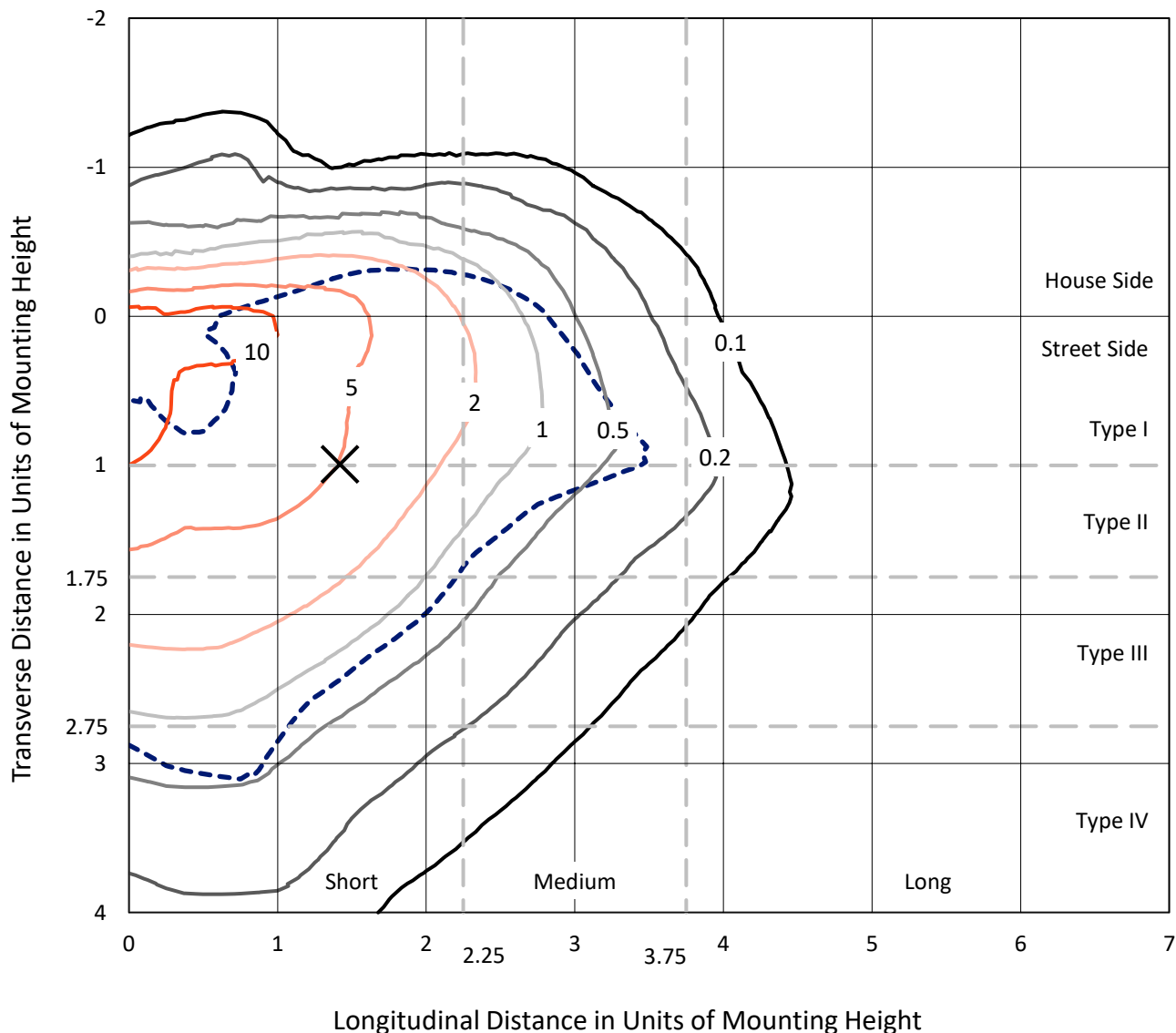
Input Watts (W): 309
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

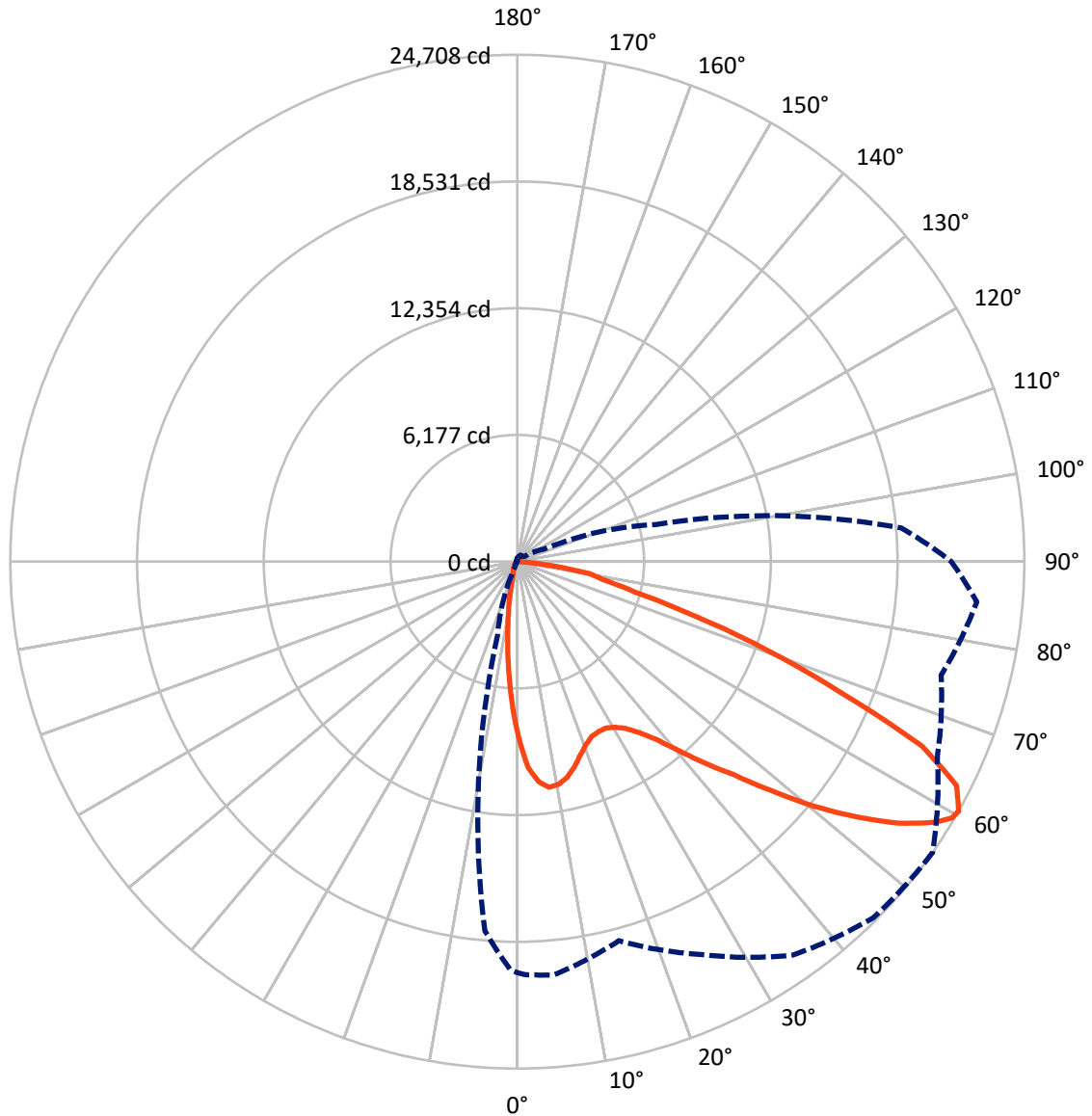
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.7 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	3760.4	0.0	3760.4
	% Fixture	14.8	0.0	14.8
Street Side	Lumens	21577.6	0.0	21577.6
	% Fixture	85.2	0.0	85.2
Total	Lumens	25338.0	0.0	25338.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	635.3	2.5
10°-20°	1251.1	4.9
20°-30°	1851.8	7.3
30°-40°	2760.3	10.9
40°-50°	4042.6	16.0
50°-60°	5836.2	23.0
60°-70°	6139.4	24.2
70°-80°	2525.5	10.0
80°-90°	295.8	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°	25338.0	100.0
0°-180°	25338.0	100.0

Coefficient of Utilization



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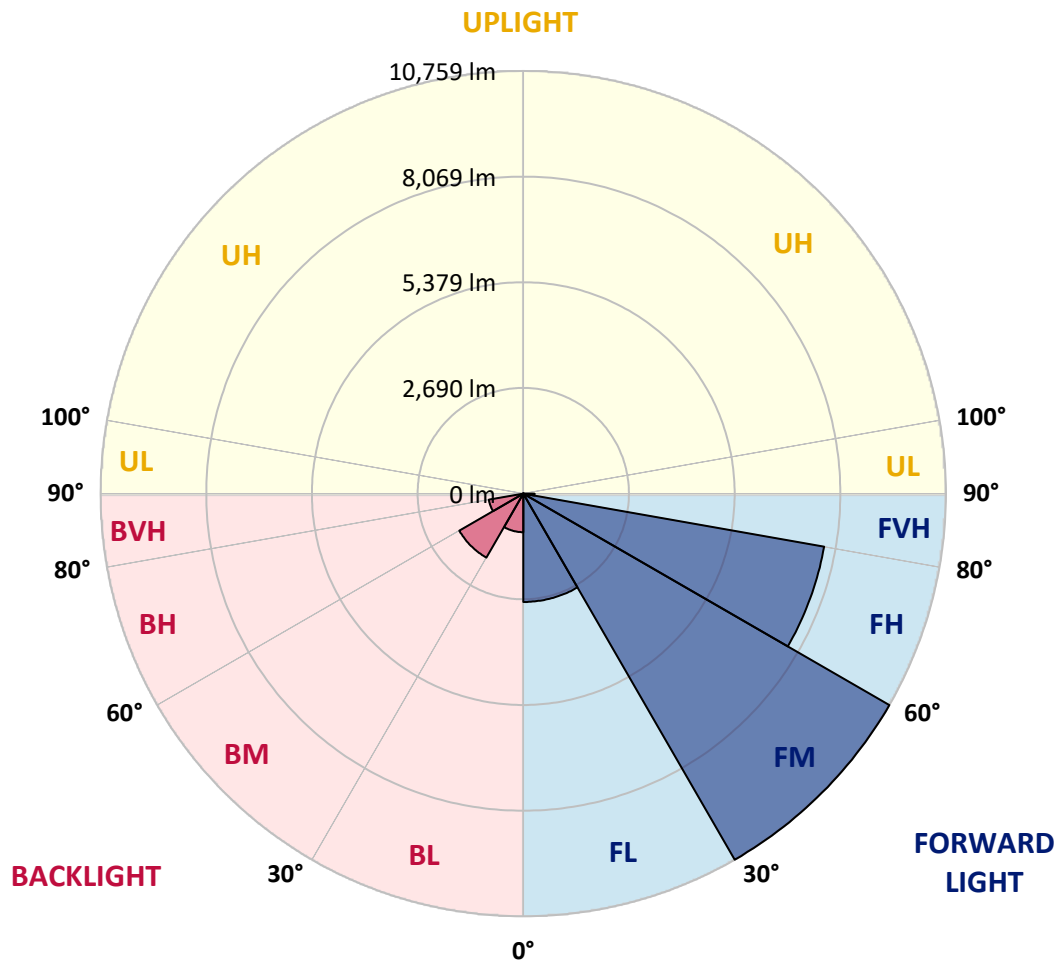
CATALOG NUMBER: GALN-SA5D-730-U-SLL-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2757.1	10.9			
FM	(30°-60°)	10758.6	42.5			
FH	(60°-80°)	7774.9	30.7			G4/12000
FVH	(80°-90°)	287.1	1.1			G3/500
BL	(0°-30°)	981.1	3.9	B2/1000		
BM	(30°-60°)	1880.5	7.4	B2/2500		
BH	(60°-80°)	890.1	3.5	B2/1000		G2/1000
BVH	(80°-90°)	8.7	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-G4

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	8579.4	8579.4	8579.4	8579.4	8579.4	8579.4	8579.4	8579.4	8579.4	8579.4	8579.4
2.5°	9373.1	9357.5	9496.0	9722.3	9950.4	10069.4	10046.0	10036.3	9847.1	9708.6	9418.0
5°	9353.6	9433.6	9681.3	10293.7	10757.9	10982.1	11048.5	10769.6	10401.0	9866.6	9207.4
7.5°	8793.9	8893.4	9297.1	10254.7	11079.7	11567.2	11549.7	11103.1	10342.4	9515.5	8575.5
10°	8099.6	8216.6	8690.5	9852.9	10923.6	11567.2	11602.3	11036.8	10090.9	9029.9	8041.1
12.5°	7610.1	7748.5	8273.2	9478.5	10521.9	11155.7	11196.7	10787.1	9901.7	8842.7	7750.5
15°	7444.3	7575.0	8107.4	9289.3	10094.8	10436.1	10426.3	10383.4	9827.6	8887.5	7766.1
17.5°	7729.0	7836.3	8437.0	9375.1	9694.9	9659.8	9710.6	9917.3	9843.2	9263.9	8257.6
20°	8464.3	8573.5	9219.1	9638.4	9388.8	9166.4	9189.8	9535.0	9987.5	9971.9	9026.0
22.5°	9476.5	9661.8	10246.9	10149.4	9347.8	8860.2	8811.5	9260.0	10233.2	10787.1	10063.6
25°	10757.9	10945.1	11401.5	10964.6	9548.7	8788.1	8743.2	9176.2	10531.6	11582.8	11231.8
27.5°	11834.4	11976.8	12431.2	11758.4	9845.1	8819.3	8745.2	9187.9	10773.5	12259.6	12216.7
30°	12696.5	12801.8	13069.0	12128.9	10100.6	8955.8	8870.0	9359.5	10880.7	12589.2	13014.4
32.5°	13390.8	13568.2	13652.1	12524.8	10467.3	9213.2	9067.0	9689.1	11142.1	12996.8	13851.0
35°	14184.5	14389.3	14282.1	12903.2	10950.9	9615.0	9435.6	10223.5	11538.0	13373.2	14822.3
37.5°	15190.9	15426.9	15007.6	13301.1	11461.9	10219.6	10135.7	10974.3	12138.7	13911.5	15863.8
40°	16232.4	16368.9	15711.6	13784.7	12089.9	11099.2	11179.1	12089.9	12924.6	14557.1	16971.5
42.5°	17045.6	17174.4	16435.2	14190.4	12731.6	12142.6	12476.1	13435.6	13825.7	15218.2	17798.5
45°	17667.8	17777.0	16936.4	14633.1	13597.5	13654.1	14284.0	14822.3	14728.7	15621.9	18436.2
47.5°	18151.5	18245.1	17322.6	15109.0	14894.5	15502.9	16466.4	16694.6	15664.8	16058.8	19013.5
50°	18350.4	18377.7	17443.5	15715.5	16366.9	17858.9	18863.3	18724.8	16737.5	16544.4	19627.8
52.5°	18609.8	18603.9	17788.7	16292.8	17751.6	19965.2	20967.7	20653.7	17950.6	17271.9	20318.2
55°	19290.4	19298.2	18527.9	17111.9	18931.6	21665.9	22738.6	22510.4	19230.0	18500.6	21123.7
57.5°	20117.4	20146.6	19579.1	18069.5	20058.9	22898.5	24060.9	23973.1	20959.9	19867.7	21884.3
59°	20224.6	20283.1	20076.4	18744.3	20727.8	23276.8	24513.3	24599.2	21886.3	20768.8	22295.8
60°	20029.6	20127.1	20220.7	19126.6	21119.8	23413.4	24540.6	24708.4	22582.5	21381.2	22483.1
62.5°	19179.3	19333.3	19803.4	20302.6	21609.3	22988.2	23668.9	24019.9	23444.6	22990.2	22500.6
65°	18065.6	18145.6	18824.3	20511.3	20659.5	21002.8	21213.4	21664.0	22409.0	23610.4	21695.2
67.5°	16240.2	16476.1	17307.0	19300.2	17857.0	17451.3	17398.6	16950.1	18884.8	22132.0	19709.7
70°	13416.1	13521.4	14545.3	15822.8	13476.6	12852.5	13102.1	12934.4	14639.0	19052.5	15863.8
72.5°	10145.5	10383.4	11383.9	12612.6	9170.3	8360.9	9049.4	8987.0	10995.8	15311.8	10898.3
75°	7218.1	7372.1	8647.6	9870.5	6422.3	5441.3	5689.0	5921.1	7676.4	12089.9	6439.9
77.5°	4959.6	5092.2	6049.8	6527.7	4684.6	4487.6	4105.4	4329.7	5029.8	7173.2	3504.7
80°	2991.8	2985.9	3615.9	3732.9	3262.9	3789.4	3179.0	3569.1	3040.5	3069.8	1357.4
82.5°	1942.5	1923.0	2211.6	2410.6	1815.7	1909.3	1281.3	1846.9	1981.5	856.2	429.1
85°	869.8	906.9	1062.9	1402.3	795.7	423.2	261.3	567.5	844.5	431.0	0.0
87.5°	89.7	70.2	187.2	341.3	109.2	11.7	39.0	19.5	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°	8579.4	8579.4	8579.4	8579.4	8579.4	8579.4	8579.4	8579.4	8579.4	8579.4	8579.4
2.5°	9283.4	9170.3	8832.9	8517.0	8245.9	7914.3	7699.8	7362.4	7157.6	7095.2	7104.9
5°	8910.9	8585.2	7943.6	7430.6	6859.2	6533.5	6038.1	5562.3	5304.8	5209.3	5166.3
7.5°	8130.8	7781.7	7007.4	6202.0	5589.6	5018.1	4649.5	4230.2	3943.5	3707.5	3666.6
10°	7551.6	7093.2	6133.7	5267.8	4784.1	4355.0	3986.4	3567.1	3229.7	2960.6	2886.4
12.5°	7204.4	6691.5	5620.8	4895.3	4436.9	3996.2	3516.4	3030.8	2685.6	2395.0	2260.4
15°	7142.0	6547.2	5476.4	4628.1	4062.5	3530.0	2892.3	2367.7	2012.7	1737.7	1653.9
17.5°	7518.4	6806.6	5455.0	4349.2	3573.0	2818.2	2155.1	1720.2	1320.4	1166.3	1105.8
20°	8189.3	7264.9	5453.0	4025.4	3069.8	2170.7	1513.4	1121.4	959.5	885.4	850.3
22.5°	9104.0	7889.0	5556.4	3746.5	2547.1	1601.2	1080.5	893.2	799.6	739.2	725.5
25°	10221.5	8813.4	5809.9	3557.4	2147.3	1256.0	891.3	764.5	686.5	659.2	647.5
27.5°	11214.2	9698.8	6088.8	3362.3	1860.6	1111.7	826.9	700.2	637.7	616.3	598.7
30°	12070.4	10502.4	6223.4	3104.9	1630.5	1018.1	838.6	748.9	667.0	602.6	573.4
32.5°	12784.2	11118.7	6311.2	2870.8	1435.4	832.8	663.1	579.2	542.2	518.8	499.3
35°	13677.5	11785.7	6258.5	2738.2	1336.0	758.7	604.6	499.3	436.9	390.1	370.6
37.5°	14613.6	12452.7	6166.9	2629.0	1291.1	704.1	575.3	473.9	405.7	356.9	331.6
40°	15582.9	13070.9	6059.6	2527.6	1250.1	669.0	557.8	452.5	384.2	331.6	304.2
42.5°	16470.3	13673.6	6016.7	2461.3	1183.8	674.8	544.1	442.7	362.8	308.1	284.7
45°	17188.0	14245.0	6075.2	2426.2	1111.7	665.1	548.0	431.0	345.2	292.5	269.1
47.5°	17954.5	15052.4	6264.4	2391.1	1041.5	618.2	577.3	429.1	337.4	282.8	257.4
50°	18845.8	16086.1	6697.3	2305.3	955.6	567.5	614.3	427.1	327.7	271.1	245.7
52.5°	20033.5	17260.2	7144.0	2155.1	830.8	518.8	587.0	421.3	308.1	257.4	232.1
55°	21100.3	18496.7	7522.3	1977.6	672.9	448.6	528.5	395.9	275.0	234.0	210.6
57.5°	21541.1	19194.9	7510.6	1731.9	538.3	394.0	434.9	362.8	239.9	206.7	187.2
59°	21379.2	19107.1	7259.0	1550.5	491.5	364.7	360.8	358.9	224.3	187.2	171.6
60°	21151.0	18787.3	6987.9	1460.8	462.2	345.2	331.6	355.0	210.6	175.5	159.9
62.5°	20277.3	17461.1	6088.8	1308.7	423.2	292.5	265.2	300.3	187.2	152.1	138.5
65°	19011.5	15423.0	5154.6	1265.7	411.5	241.8	220.4	214.5	159.9	128.7	117.0
67.5°	16542.5	13051.4	4175.6	1236.5	415.4	202.8	193.1	161.9	132.6	107.3	99.5
70°	13244.5	10176.7	3418.9	1203.3	419.3	165.8	161.9	128.7	107.3	89.7	81.9
72.5°	8046.9	6032.3	2691.4	1045.4	407.6	132.6	144.3	97.5	78.0	64.4	60.5
75°	4975.2	4128.8	1669.5	813.3	269.1	97.5	101.4	60.5	52.7	41.0	41.0
77.5°	2882.5	2607.6	596.8	292.5	119.0	58.5	44.9	31.2	29.3	17.6	17.6
80°	1195.5	957.6	206.7	99.5	64.4	27.3	9.8	2.0	0.0	0.0	0.0
82.5°	349.1	310.1	56.6	44.9	19.5	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°	8579.4	8579.4	8579.4	8579.4	8579.4	8579.4	8579.4	8579.4	8579.4	8579.4	8579.4
2.5°	6939.2	6874.8	6845.6	6945.0	6853.4	6970.4	6880.7	6919.7	7034.7	7085.4	7216.1
5°	5193.7	5127.3	5096.1	5246.3	5238.5	5312.6	5304.8	5373.1	5431.6	5300.9	5435.5
7.5°	3617.8	3573.0	3647.1	3764.1	3888.9	3847.9	3847.9	3756.3	3787.5	3768.0	3762.1
10°	2751.9	2597.8	2558.8	2554.9	2601.7	2611.5	2558.8	2432.0	2478.8	2492.5	2574.4
12.5°	2164.8	2045.9	1864.5	1782.6	1761.1	1778.7	1605.1	1493.9	1546.6	1515.4	1595.3
15°	1552.4	1454.9	1347.7	1256.0	1230.6	1195.5	1006.4	873.7	858.1	864.0	877.6
17.5°	1107.8	1041.5	1041.5	943.9	891.3	786.0	690.4	631.9	626.0	631.9	641.6
20°	817.2	782.1	778.2	752.8	694.3	624.1	557.8	546.1	542.2	551.9	555.8
22.5°	704.1	667.0	635.8	633.8	579.2	520.7	489.5	473.9	475.9	479.8	489.5
25°	629.9	590.9	557.8	538.3	499.3	458.3	429.1	421.3	421.3	427.1	429.1
27.5°	577.3	528.5	499.3	472.0	436.9	401.8	376.4	370.6	366.7	370.6	380.3
30°	540.2	491.5	454.4	413.5	386.2	353.0	331.6	323.8	321.8	323.8	331.6
32.5°	462.2	433.0	403.7	366.7	333.5	312.0	288.6	275.0	275.0	278.9	286.7
35°	349.1	333.5	331.6	321.8	294.5	271.1	243.8	230.1	230.1	237.9	241.8
37.5°	308.1	278.9	275.0	271.1	259.4	228.2	202.8	191.1	189.2	195.0	202.8
40°	280.8	247.7	230.1	226.2	228.2	193.1	165.8	154.1	154.1	156.0	163.8
42.5°	259.4	220.4	189.2	185.3	193.1	161.9	134.6	122.9	122.9	122.9	132.6
45°	241.8	197.0	159.9	140.4	152.1	132.6	109.2	97.5	93.6	97.5	101.4
47.5°	230.1	179.4	140.4	113.1	113.1	105.3	87.8	74.1	70.2	72.2	78.0
50°	220.4	163.8	119.0	91.7	81.9	83.9	66.3	56.6	52.7	52.7	58.5
52.5°	204.8	148.2	103.4	78.0	62.4	56.6	48.8	41.0	39.0	41.0	44.9
55°	185.3	134.6	89.7	64.4	48.8	39.0	35.1	29.3	27.3	29.3	35.1
57.5°	163.8	113.1	72.2	50.7	33.2	25.4	23.4	19.5	15.6	17.6	21.5
59°	150.2	101.4	62.4	41.0	25.4	17.6	17.6	13.7	9.8	11.7	17.6
60°	144.3	93.6	52.7	35.1	21.5	13.7	13.7	9.8	5.9	7.8	13.7
62.5°	122.9	78.0	41.0	21.5	9.8	2.0	5.9	2.0	0.0	2.0	5.9
65°	103.4	62.4	27.3	9.8	0.0	0.0	0.0	0.0	0.0	0.0	2.0
67.5°	85.8	46.8	13.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	68.3	31.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	46.8	17.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	29.3	5.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	11.7	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°	8579.4	8579.4	8579.4	8579.4	8579.4	8579.4	8579.4	8579.4	8579.4	8579.4
2.5°	7223.9	7502.8	7674.4	7998.2	8329.7	8585.2	8905.1	9191.8	9310.7	9373.1
5°	5572.0	5960.1	6289.7	6783.1	7241.5	7799.3	8364.8	9031.8	9287.3	9353.6
7.5°	3910.4	4306.3	4651.5	5222.9	5876.3	6623.2	7469.7	8316.1	8688.6	8793.9
10°	2824.0	3247.3	3668.5	4240.0	4850.4	5659.8	6541.3	7588.6	8017.7	8099.6
12.5°	1782.6	2237.0	2921.6	3627.6	4273.1	4924.5	5847.0	6986.0	7459.9	7610.1
15°	1033.7	1373.0	1889.8	2810.4	3631.5	4493.5	5499.9	6759.7	7290.2	7444.3
17.5°	692.4	809.4	1164.3	1868.4	2952.8	4095.6	5412.1	6945.0	7532.1	7729.0
20°	583.1	635.8	760.6	1139.0	2274.1	3740.7	5435.5	7448.2	8218.6	8464.3
22.5°	512.9	561.7	641.6	819.1	1587.5	3299.9	5546.7	8167.9	9162.5	9476.5
25°	452.5	501.2	571.4	678.7	1066.8	2790.9	5790.4	9221.0	10412.7	10757.9
27.5°	401.8	446.6	507.1	598.7	821.1	2223.3	6006.9	10246.9	11553.6	11834.4
30°	355.0	392.0	450.5	520.7	682.6	1714.3	6116.1	11144.0	12384.4	12696.5
32.5°	308.1	343.3	399.8	456.4	561.7	1306.7	6040.1	11803.2	13191.8	13390.8
35°	263.3	300.3	347.2	399.8	485.6	1055.1	5659.8	12544.3	14028.5	14184.5
37.5°	226.2	257.4	306.2	347.2	438.8	844.5	5199.5	13211.3	14966.6	15190.9
40°	191.1	222.3	271.1	308.1	403.7	665.1	4784.1	13952.5	15955.4	16232.4
42.5°	156.0	193.1	236.0	296.4	347.2	507.1	4280.9	14553.2	16698.5	17045.6
45°	124.8	165.8	212.6	294.5	302.3	386.2	3795.3	15021.2	17355.7	17667.8
47.5°	99.5	140.4	204.8	275.0	247.7	306.2	3518.3	15510.7	17901.8	18151.5
50°	80.0	117.0	214.5	241.8	206.7	259.4	3510.5	16056.8	18184.6	18350.4
52.5°	64.4	95.6	181.4	185.3	175.5	228.2	3721.2	16671.2	18473.3	18609.8
55°	54.6	80.0	119.0	136.5	158.0	206.7	3879.1	17617.1	19161.7	19290.4
57.5°	42.9	68.3	91.7	109.2	140.4	189.2	3900.6	18346.5	20033.5	20117.4
59°	37.1	58.5	81.9	97.5	128.7	177.5	3812.8	18391.3	20090.1	20224.6
60°	31.2	52.7	72.2	91.7	119.0	167.7	3717.3	18065.6	19879.4	20029.6
62.5°	23.4	41.0	52.7	74.1	97.5	144.3	3264.8	16928.6	19073.9	19179.3
65°	15.6	29.3	39.0	54.6	76.1	124.8	2660.2	15454.2	17829.7	18065.6
67.5°	9.8	21.5	31.2	41.0	62.4	105.3	1895.7	13252.3	16088.0	16240.2
70°	5.9	13.7	23.4	33.2	48.8	83.9	1125.3	10475.1	13384.9	13416.1
72.5°	3.9	9.8	15.6	23.4	39.0	76.1	546.1	6828.0	9773.0	10145.5
75°	2.0	5.9	9.8	17.6	31.2	62.4	261.3	4561.8	7110.8	7218.1
77.5°	0.0	2.0	5.9	11.7	23.4	48.8	152.1	2995.7	4848.4	4959.6
80°	0.0	0.0	3.9	9.8	17.6	31.2	91.7	1767.0	2937.2	2991.8
82.5°	0.0	0.0	2.0	7.8	11.7	23.4	46.8	776.2	1923.0	1942.5
85°	0.0	0.0	2.0	7.8	9.8	15.6	17.6	105.3	854.2	869.8
87.5°	0.0	0.0	2.0	9.8	9.8	9.8	9.8	5.9	72.2	89.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)