

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: P456959

Luminaire Tested: **GALN-SA8B-730-U-SLL-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456959
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-SA8B-730-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3000K, 800mA 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: 30052 lumens
Efficiency: N/A
Efficacy: 92.5 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

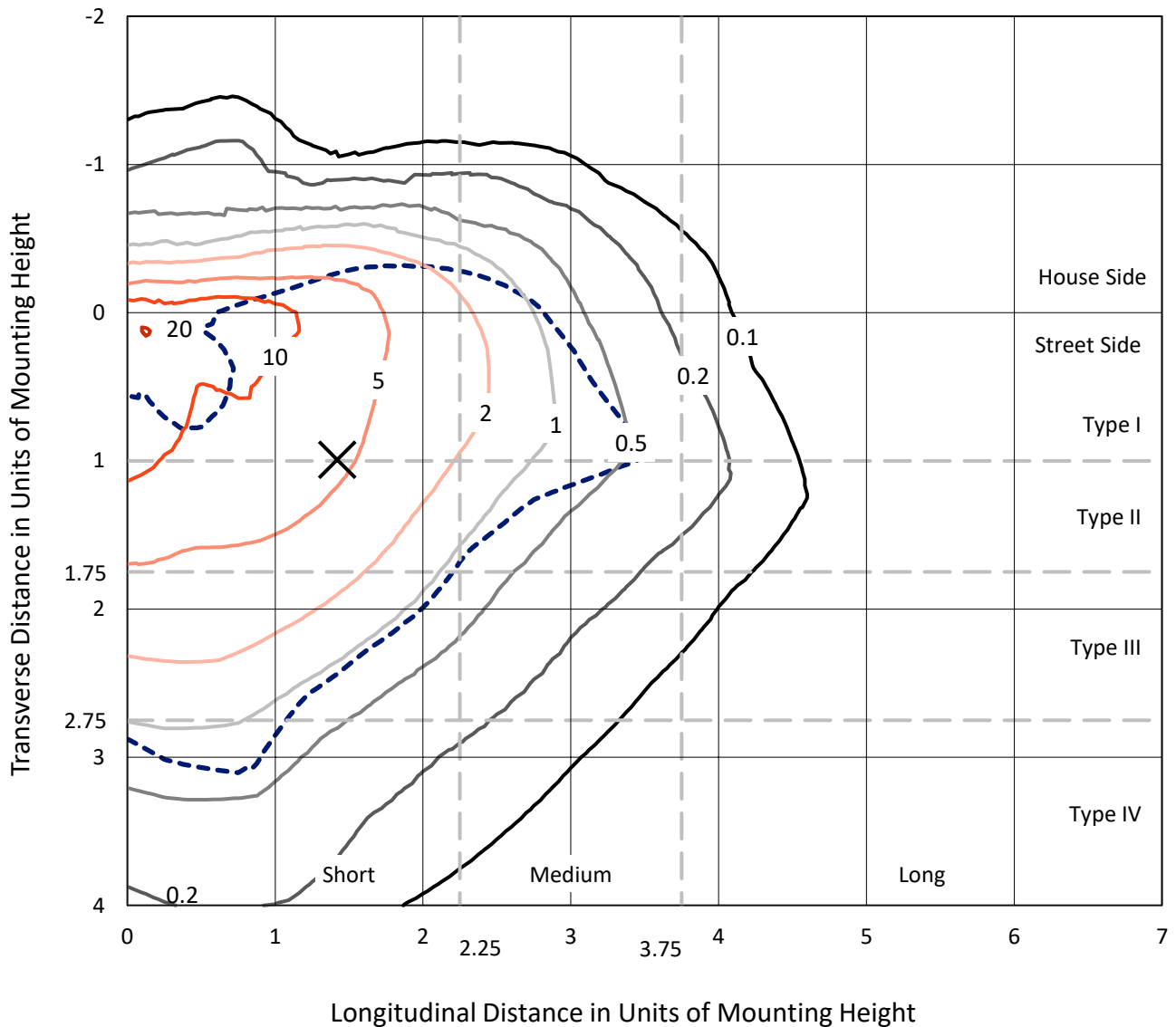
Input Watts (W): 325
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

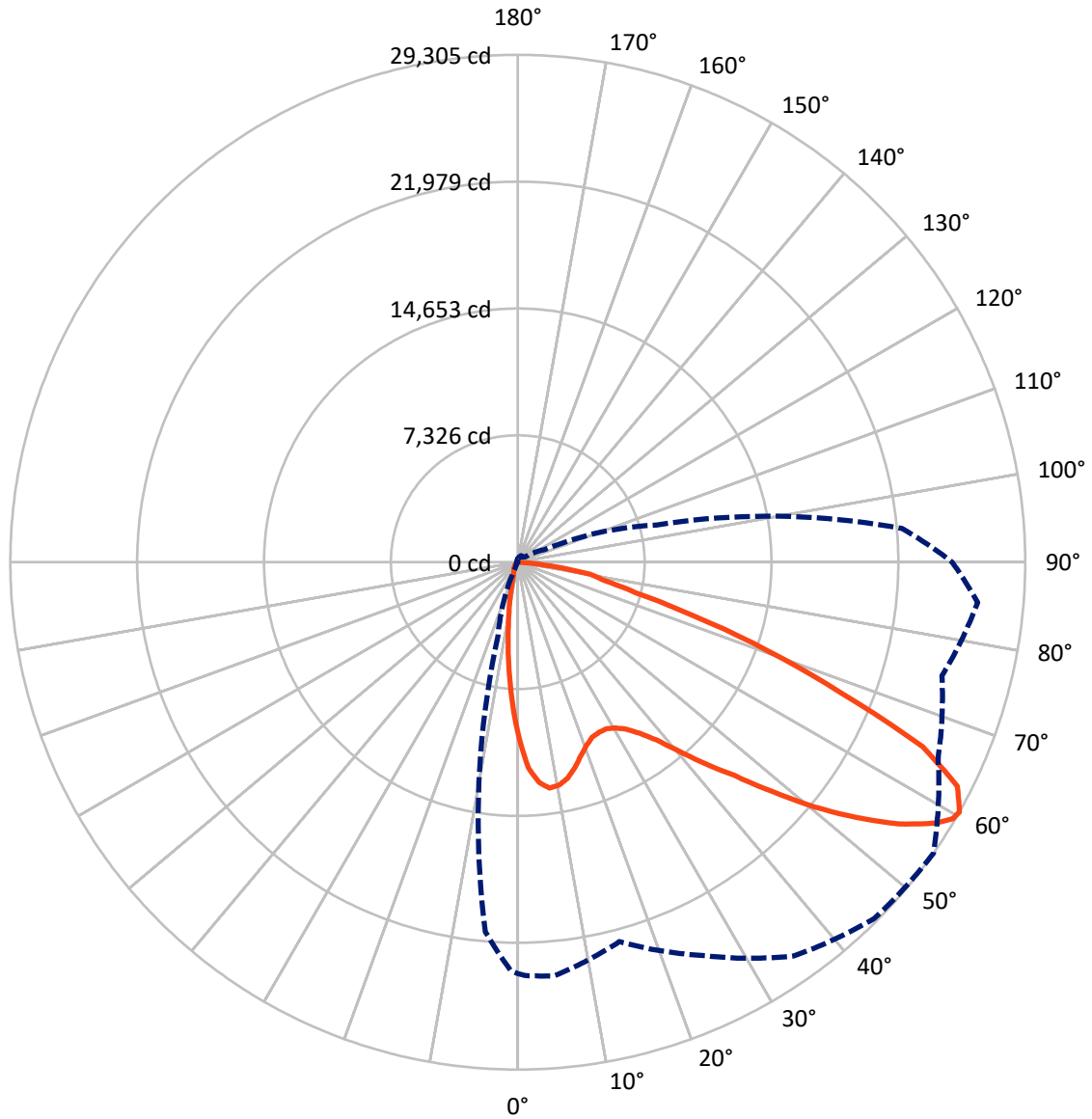
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 21 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	4460.0	0.0	4460.0
	% Fixture	14.8	0.0	14.8
Street Side	Lumens	25592.0	0.0	25592.0
	% Fixture	85.2	0.0	85.2
Total	Lumens	30052.0	0.0	30052.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	753.5	2.5
10°-20°	1483.8	4.9
20°-30°	2196.4	7.3
30°-40°	3273.9	10.9
40°-50°	4794.6	16.0
50°-60°	6922.0	23.0
60°-70°	7281.6	24.2
70°-80°	2995.4	10.0
80°-90°	350.8	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°	30052.0	100.0
0°-180°	30052.0	100.0

Coefficient of Utilization



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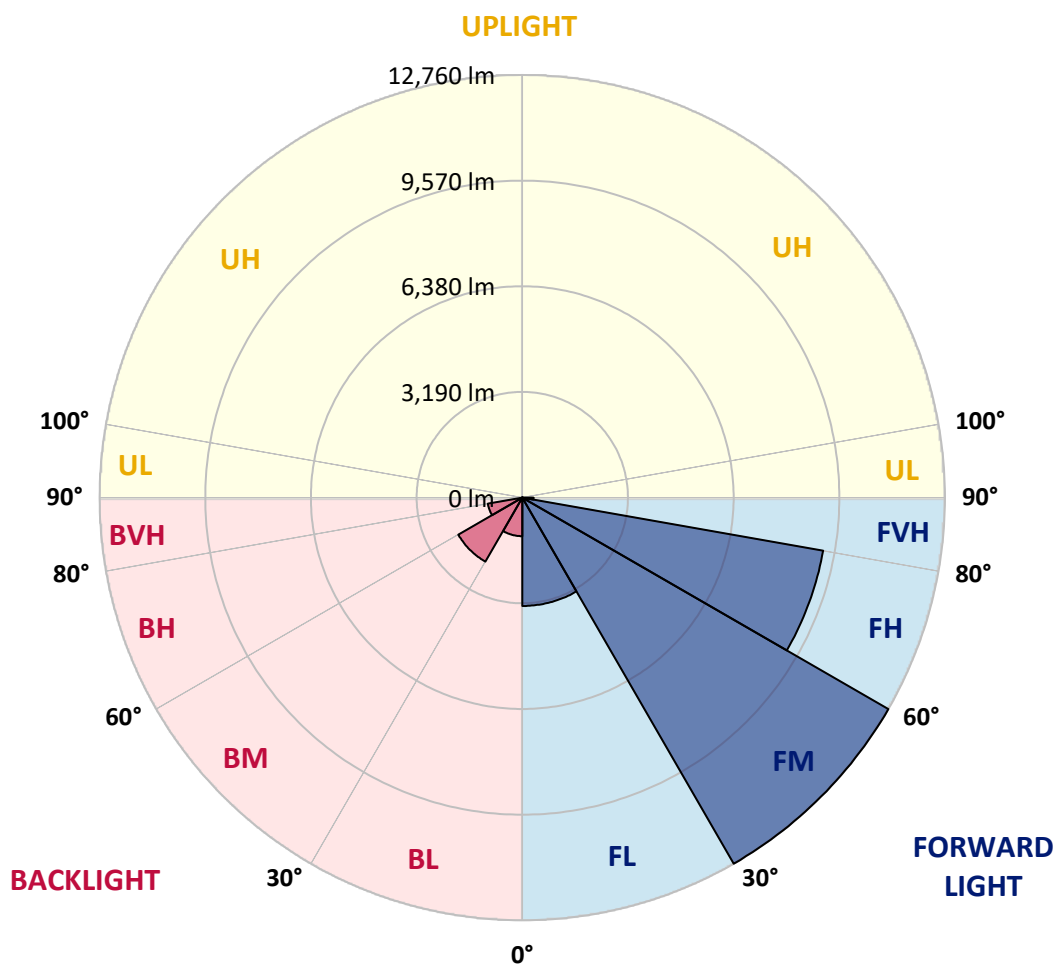
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3270.1	10.9			
FM	(30°-60°)	12760.1	42.5			
FH	(60°-80°)	9221.3	30.7			G4/12000
FVH	(80°-90°)	340.5	1.1			G3/500
BL	(0°-30°)	1163.6	3.9	B3/2500		
BM	(30°-60°)	2230.4	7.4	B2/2500		
BH	(60°-80°)	1055.6	3.5	B3/2500		G3/2500
BVH	(80°-90°)	10.3	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°	10175.5	10175.5	10175.5	10175.5	10175.5	10175.5	10175.5	10175.5	10175.5	10175.5	10175.5
2.5°	11117.0	11098.5	11262.7	11531.0	11801.7	11942.8	11915.0	11903.4	11679.1	11514.8	11170.2
5°	11093.8	11188.7	11482.5	12208.8	12759.3	13025.3	13104.0	12773.2	12336.0	11702.2	10920.4
7.5°	10430.0	10547.9	11026.8	12162.5	13141.0	13719.3	13698.4	13168.7	12266.6	11285.8	10170.9
10°	9606.5	9745.3	10307.4	11686.0	12955.9	13719.3	13760.9	13090.1	11968.2	10709.9	9537.1
12.5°	9025.9	9190.1	9812.4	11241.9	12479.4	13231.2	13279.8	12794.0	11743.8	10487.8	9192.4
15°	8829.3	8984.3	9615.7	11017.5	11972.8	12377.6	12366.1	12315.2	11655.9	10541.0	9210.9
17.5°	9167.0	9294.2	10006.7	11119.3	11498.6	11457.0	11517.1	11762.3	11674.4	10987.4	9793.9
20°	10039.0	10168.6	10934.2	11431.6	11135.5	10871.8	10899.5	11309.0	11845.6	11827.1	10705.2
22.5°	11239.6	11459.3	12153.3	12037.6	11086.9	10508.6	10450.8	10982.8	12137.1	12794.0	11935.8
25°	12759.3	12981.4	13522.6	13004.5	11325.2	10423.0	10369.8	10883.3	12491.0	13737.8	13321.4
27.5°	14036.2	14205.0	14744.0	13946.0	11676.8	10460.0	10372.1	10897.2	12777.8	14540.4	14489.5
30°	15058.6	15183.5	15500.4	14385.4	11979.8	10622.0	10520.2	11100.8	12905.0	14931.3	15435.6
32.5°	15882.1	16092.5	16192.0	14855.0	12414.6	10927.3	10753.8	11491.7	13215.0	15414.8	16428.0
35°	16823.5	17066.4	16939.2	15303.8	12988.3	11403.8	11191.0	12125.5	13684.6	15861.2	17579.9
37.5°	18017.1	18297.0	17799.6	15775.6	13594.4	12120.9	12021.4	13016.1	14397.0	16499.7	18815.1
40°	19252.3	19414.2	18634.7	16349.3	14339.2	13164.1	13258.9	14339.2	15329.2	17265.3	20129.0
42.5°	20216.9	20369.6	19492.9	16830.4	15100.2	14401.6	14797.2	15935.3	16397.9	18049.5	21109.8
45°	20954.8	21084.3	20087.3	17355.5	16127.2	16194.3	16941.5	17579.9	17468.9	18528.3	21866.2
47.5°	21528.4	21639.5	20545.4	17919.9	17665.5	18387.2	19529.9	19800.5	18579.2	19046.4	22550.8
50°	21764.4	21796.8	20688.8	18639.3	19411.9	21181.5	22372.7	22208.5	19851.4	19622.4	23279.5
52.5°	22072.0	22065.1	21098.2	19324.0	21054.2	23679.7	24868.6	24496.2	21290.2	20485.2	24098.3
55°	22879.3	22888.6	21974.9	20295.5	22453.7	25696.7	26969.0	26698.3	22807.6	21942.5	25053.7
57.5°	23860.1	23894.8	23221.7	21431.3	23790.7	27158.6	28537.3	28433.2	24859.4	23564.0	25955.8
59°	23987.3	24056.7	23811.5	22231.6	24584.1	27607.4	29073.9	29175.7	25958.1	24632.7	26443.9
60°	23756.0	23871.7	23982.7	22685.0	25049.0	27769.3	29106.3	29305.2	26783.9	25359.0	26665.9
62.5°	22747.5	22930.2	23487.7	24079.8	25629.6	27265.0	28072.3	28488.7	27806.3	27267.4	26686.8
65°	21426.7	21521.5	22326.5	24327.3	24503.1	24910.3	25160.1	25694.4	26578.0	28002.9	25731.4
67.5°	19261.6	19541.4	20526.8	22890.9	21179.2	20698.0	20635.6	20103.5	22398.2	26249.6	23376.6
70°	15912.1	16037.0	17251.4	18766.5	15983.8	15243.6	15539.7	15340.8	17362.5	22597.1	18815.1
72.5°	12033.0	12315.2	13501.8	14959.1	10876.4	9916.5	10733.0	10659.0	13041.5	18160.5	12925.9
75°	8560.9	8743.7	10256.5	11706.8	7617.2	6453.7	6747.4	7022.7	9104.5	14339.2	7638.0
77.5°	5882.3	6039.6	7175.4	7742.1	5556.2	5322.5	4869.2	5135.2	5965.6	8507.7	4156.7
80°	3548.4	3541.4	4288.6	4427.4	3869.9	4494.4	3770.4	4233.1	3606.2	3640.9	1609.9
82.5°	2303.9	2280.8	2623.1	2859.0	2153.5	2264.6	1519.7	2190.5	2350.2	1015.5	508.9
85°	1031.7	1075.6	1260.7	1663.2	943.8	502.0	310.0	673.1	1001.6	511.2	0.0
87.5°	106.4	83.3	222.1	404.8	129.5	13.9	46.3	23.1	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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	10175.5	10175.5	10175.5	10175.5	10175.5	10175.5	10175.5	10175.5	10175.5	10175.5	10175.5
2.5°	11010.6	10876.4	10476.2	10101.5	9780.0	9386.7	9132.3	8732.1	8489.2	8415.2	8426.8
5°	10568.8	10182.5	9421.4	8813.1	8135.3	7749.0	7161.5	6597.1	6291.8	6178.4	6127.5
7.5°	9643.5	9229.4	8311.1	7355.8	6629.5	5951.7	5514.5	5017.2	4677.2	4397.3	4348.7
10°	8956.5	8412.9	7274.8	6247.8	5674.1	5165.3	4728.1	4230.7	3830.6	3511.4	3423.5
12.5°	8544.8	7936.4	6666.5	5806.0	5262.4	4739.6	4170.6	3594.6	3185.2	2840.5	2680.9
15°	8470.7	7765.2	6495.3	5489.1	4818.3	4186.8	3430.4	2808.2	2387.2	2061.0	1961.5
17.5°	8917.2	8072.9	6469.9	5158.3	4237.7	3342.5	2556.0	2040.2	1566.0	1383.3	1311.6
20°	9712.9	8616.5	6467.6	4774.3	3640.9	2574.5	1795.0	1330.1	1138.1	1050.2	1008.5
22.5°	10797.8	9356.7	6590.1	4443.6	3021.0	1899.1	1281.5	1059.4	948.4	876.7	860.5
25°	12123.2	10453.1	6890.9	4219.2	2546.8	1489.7	1057.1	906.8	814.2	781.8	768.0
27.5°	13300.6	11503.3	7221.6	3987.9	2206.7	1318.5	980.8	830.4	756.4	731.0	710.1
30°	14316.1	12456.3	7381.2	3682.5	1933.8	1207.5	994.7	888.2	791.1	714.8	680.1
32.5°	15162.7	13187.2	7485.3	3404.9	1702.5	987.7	786.5	687.0	643.1	615.3	592.2
35°	16222.1	13978.3	7422.9	3247.7	1584.5	899.8	717.1	592.2	518.1	462.6	439.5
37.5°	17332.4	14769.4	7314.2	3118.1	1531.3	835.0	682.4	562.1	481.1	423.3	393.2
40°	18482.0	15502.7	7186.9	2997.8	1482.7	793.4	661.6	536.6	455.7	393.2	360.9
42.5°	19534.5	16217.5	7136.1	2919.2	1404.1	800.3	645.4	525.1	430.2	365.5	337.7
45°	20385.7	16895.2	7205.4	2877.6	1318.5	788.8	650.0	511.2	409.4	347.0	319.2
47.5°	21294.8	17852.9	7429.8	2835.9	1235.2	733.3	684.7	508.9	400.2	335.4	305.3
50°	22351.9	19078.8	7943.3	2734.1	1133.4	673.1	728.6	506.6	388.6	321.5	291.5
52.5°	23760.6	20471.3	8473.0	2556.0	985.4	615.3	696.3	499.6	365.5	305.3	275.3
55°	25025.9	21937.9	8921.8	2345.5	798.0	532.0	626.9	469.6	326.2	277.6	249.8
57.5°	25548.7	22766.0	8907.9	2054.1	638.4	467.3	515.8	430.2	284.5	245.2	222.1
59°	25356.7	22661.9	8609.5	1839.0	582.9	432.6	427.9	425.6	266.0	222.1	203.6
60°	25086.1	22282.5	8288.0	1732.5	548.2	409.4	393.2	421.0	249.8	208.2	189.7
62.5°	24049.8	20709.6	7221.6	1552.1	502.0	347.0	314.6	356.2	222.1	180.4	164.2
65°	22548.5	18292.3	6113.6	1501.2	488.1	286.8	261.4	254.4	189.7	152.7	138.8
67.5°	19620.1	15479.6	4952.4	1466.5	492.7	240.6	229.0	192.0	157.3	127.2	118.0
70°	15708.6	12070.0	4054.9	1427.2	497.3	196.6	192.0	152.7	127.2	106.4	97.2
72.5°	9544.0	7154.6	3192.1	1239.8	483.4	157.3	171.2	115.7	92.5	76.3	71.7
75°	5900.8	4896.9	1980.1	964.6	319.2	115.7	120.3	71.7	62.5	48.6	48.6
77.5°	3418.8	3092.7	707.8	347.0	141.1	69.4	53.2	37.0	34.7	20.8	20.8
80°	1418.0	1135.8	245.2	118.0	76.3	32.4	11.6	2.3	0.0	0.0	0.0
82.5°	414.1	367.8	67.1	53.2	23.1	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°	10175.5	10175.5	10175.5	10175.5	10175.5	10175.5	10175.5	10175.5	10175.5	10175.5	10175.5
2.5°	8230.2	8153.8	8119.1	8237.1	8128.4	8267.2	8160.8	8207.0	8343.5	8403.7	8558.6
5°	6159.9	6081.3	6044.2	6222.4	6213.1	6301.0	6291.8	6372.7	6442.1	6287.1	6446.7
7.5°	4290.9	4237.7	4325.6	4464.4	4612.4	4563.8	4563.8	4455.1	4492.1	4469.0	4462.1
10°	3263.8	3081.1	3034.8	3030.2	3085.7	3097.3	3034.8	2884.5	2940.0	2956.2	3053.4
12.5°	2567.6	2426.5	2211.4	2114.2	2088.8	2109.6	1903.7	1771.9	1834.3	1797.3	1892.2
15°	1841.3	1725.6	1598.4	1489.7	1459.6	1418.0	1193.6	1036.3	1017.8	1024.7	1040.9
17.5°	1313.9	1235.2	1235.2	1119.6	1057.1	932.2	818.9	749.5	742.5	749.5	761.0
20°	969.2	927.6	922.9	892.9	823.5	740.2	661.6	647.7	643.1	654.6	659.2
22.5°	835.0	791.1	754.1	751.8	687.0	617.6	580.6	562.1	564.4	569.0	580.6
25°	747.1	700.9	661.6	638.4	592.2	543.6	508.9	499.6	499.6	506.6	508.9
27.5°	684.7	626.9	592.2	559.8	518.1	476.5	446.4	439.5	434.9	439.5	451.1
30°	640.7	582.9	539.0	490.4	458.0	418.7	393.2	384.0	381.7	384.0	393.2
32.5°	548.2	513.5	478.8	434.9	395.5	370.1	342.3	326.2	326.2	330.8	340.0
35°	414.1	395.5	393.2	381.7	349.3	321.5	289.1	273.0	273.0	282.2	286.8
37.5°	365.5	330.8	326.2	321.5	307.6	270.6	240.6	226.7	224.4	231.3	240.6
40°	333.1	293.8	273.0	268.3	270.6	229.0	196.6	182.7	182.7	185.1	194.3
42.5°	307.6	261.4	224.4	219.7	229.0	192.0	159.6	145.7	145.7	145.7	157.3
45°	286.8	233.6	189.7	166.5	180.4	157.3	129.5	115.7	111.0	115.7	120.3
47.5°	273.0	212.8	166.5	134.2	134.2	124.9	104.1	87.9	83.3	85.6	92.5
50°	261.4	194.3	141.1	108.7	97.2	99.5	78.6	67.1	62.5	62.5	69.4
52.5°	242.9	175.8	122.6	92.5	74.0	67.1	57.8	48.6	46.3	48.6	53.2
55°	219.7	159.6	106.4	76.3	57.8	46.3	41.6	34.7	32.4	34.7	41.6
57.5°	194.3	134.2	85.6	60.1	39.3	30.1	27.8	23.1	18.5	20.8	25.4
59°	178.1	120.3	74.0	48.6	30.1	20.8	20.8	16.2	11.6	13.9	20.8
60°	171.2	111.0	62.5	41.6	25.4	16.2	16.2	11.6	6.9	9.3	16.2
62.5°	145.7	92.5	48.6	25.4	11.6	2.3	6.9	2.3	0.0	2.3	6.9
65°	122.6	74.0	32.4	11.6	0.0	0.0	0.0	0.0	0.0	0.0	2.3
67.5°	101.8	55.5	16.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	81.0	37.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	55.5	20.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	34.7	6.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	13.9	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°	10175.5	10175.5	10175.5	10175.5	10175.5	10175.5	10175.5	10175.5	10175.5	10175.5
2.5°	8567.9	8898.7	9102.2	9486.2	9879.4	10182.5	10561.8	10901.9	11043.0	11117.0
5°	6608.7	7069.0	7459.9	8045.1	8588.7	9250.3	9921.1	10712.2	11015.2	11093.8
7.5°	4637.9	5107.4	5516.9	6194.6	6969.5	7855.4	8859.3	9863.2	10305.1	10430.0
10°	3349.4	3851.4	4351.0	5028.8	5752.8	6712.7	7758.3	9000.4	9509.3	9606.5
12.5°	2114.2	2653.2	3465.1	4302.4	5068.1	5840.7	6934.8	8285.7	8847.8	9025.9
15°	1226.0	1628.5	2241.4	3333.2	4307.1	5329.5	6523.1	8017.4	8646.5	8829.3
17.5°	821.2	960.0	1380.9	2216.0	3502.1	4857.6	6419.0	8237.1	8933.4	9167.0
20°	691.6	754.1	902.1	1350.9	2697.1	4436.6	6446.7	8833.9	9747.6	10039.0
22.5°	608.4	666.2	761.0	971.5	1882.9	3913.8	6578.6	9687.5	10867.2	11239.6
25°	536.6	594.5	677.8	805.0	1265.3	3310.1	6867.7	10936.5	12349.9	12759.3
27.5°	476.5	529.7	601.4	710.1	973.8	2637.0	7124.5	12153.3	13703.1	14036.2
30°	421.0	464.9	534.3	617.6	809.6	2033.3	7254.0	13217.3	14688.5	15058.6
32.5°	365.5	407.1	474.2	541.3	666.2	1549.8	7163.8	13999.2	15646.1	15882.1
35°	312.3	356.2	411.7	474.2	576.0	1251.4	6712.7	14878.1	16638.5	16823.5
37.5°	268.3	305.3	363.2	411.7	520.5	1001.6	6166.8	15669.2	17751.1	18017.1
40°	226.7	263.7	321.5	365.5	478.8	788.8	5674.1	16548.2	18923.8	19252.3
42.5°	185.1	229.0	279.9	351.6	411.7	601.4	5077.4	17260.7	19805.1	20216.9
45°	148.0	196.6	252.1	349.3	358.5	458.0	4501.4	17815.8	20584.7	20954.8
47.5°	118.0	166.5	242.9	326.2	293.8	363.2	4172.9	18396.4	21232.4	21528.4
50°	94.8	138.8	254.4	286.8	245.2	307.6	4163.7	19044.1	21567.8	21764.4
52.5°	76.3	113.3	215.1	219.7	208.2	270.6	4413.5	19772.8	21910.1	22072.0
55°	64.8	94.8	141.1	161.9	187.4	245.2	4600.8	20894.6	22726.6	22879.3
57.5°	50.9	81.0	108.7	129.5	166.5	224.4	4626.3	21759.8	23760.6	23860.1
59°	43.9	69.4	97.2	115.7	152.7	210.5	4522.2	21813.0	23827.7	23987.3
60°	37.0	62.5	85.6	108.7	141.1	198.9	4408.9	21426.7	23577.9	23756.0
62.5°	27.8	48.6	62.5	87.9	115.7	171.2	3872.2	20078.1	22622.6	22747.5
65°	18.5	34.7	46.3	64.8	90.2	148.0	3155.1	18329.4	21146.8	21426.7
67.5°	11.6	25.4	37.0	48.6	74.0	124.9	2248.4	15717.8	19081.1	19261.6
70°	6.9	16.2	27.8	39.3	57.8	99.5	1334.7	12423.9	15875.1	15912.1
72.5°	4.6	11.6	18.5	27.8	46.3	90.2	647.7	8098.3	11591.2	12033.0
75°	2.3	6.9	11.6	20.8	37.0	74.0	310.0	5410.4	8433.7	8560.9
77.5°	0.0	2.3	6.9	13.9	27.8	57.8	180.4	3553.0	5750.5	5882.3
80°	0.0	0.0	4.6	11.6	20.8	37.0	108.7	2095.7	3483.6	3548.4
82.5°	0.0	0.0	2.3	9.3	13.9	27.8	55.5	920.6	2280.8	2303.9
85°	0.0	0.0	2.3	9.3	11.6	18.5	20.8	124.9	1013.2	1031.7
87.5°	0.0	0.0	2.3	11.6	11.6	11.6	11.6	6.9	85.6	106.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)