

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: P457916

Luminaire Tested: **GALN-SA9B-740-U-SLL-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457916
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-SA9B-740-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 4000K, 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: 37046 lumens
Efficiency: N/A
Efficacy: 101.8 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

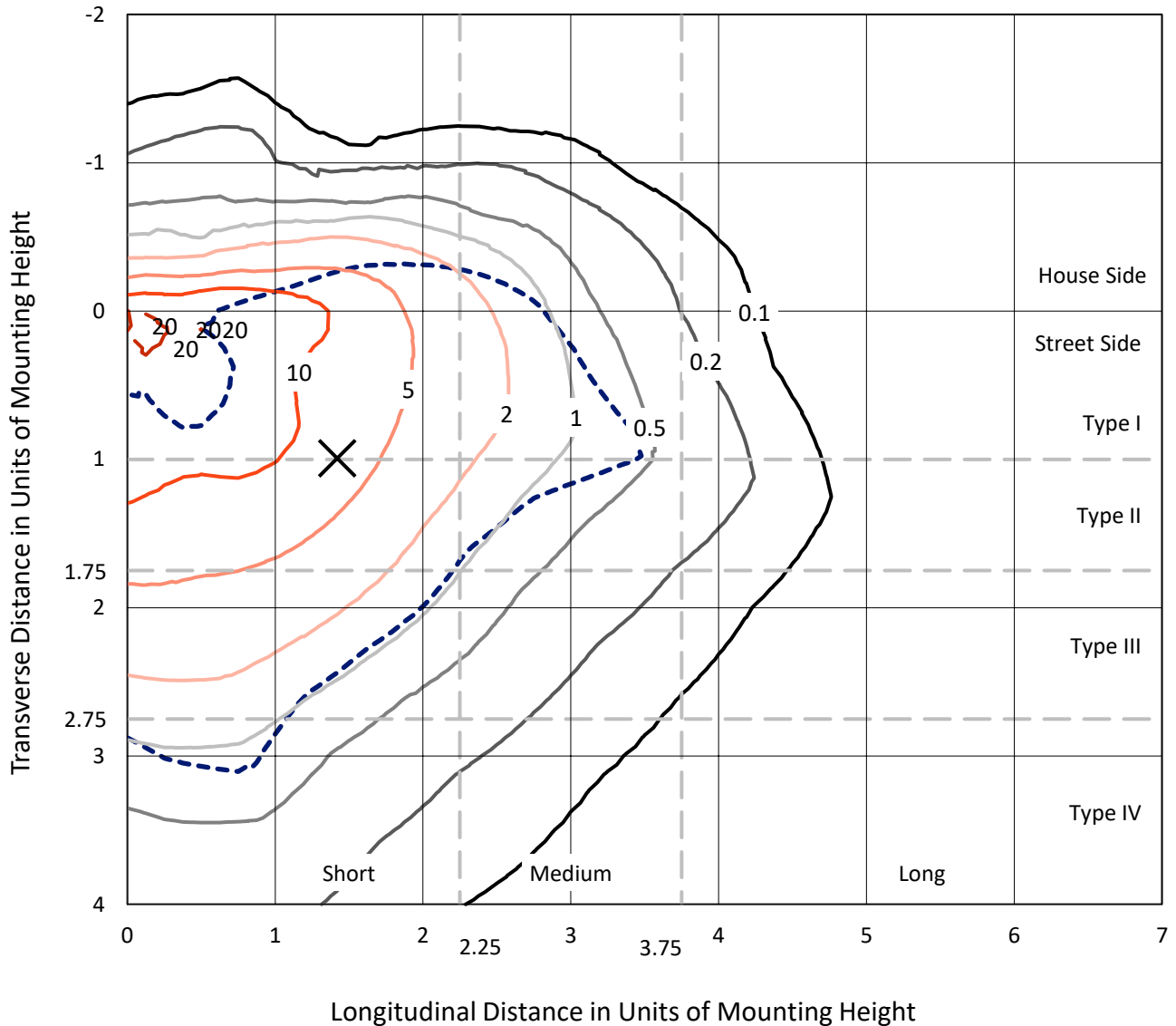
Input Watts (W): 364
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

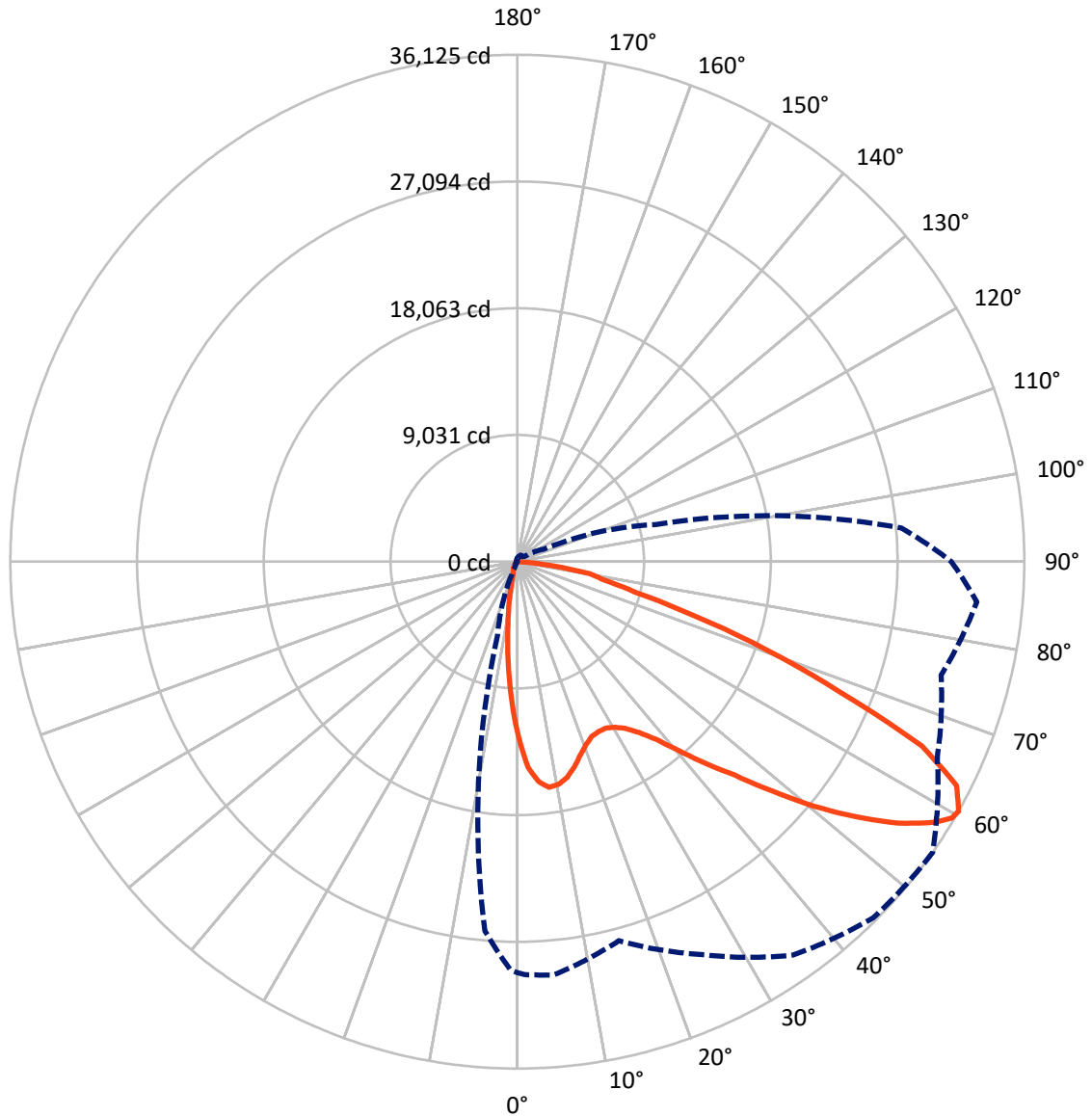
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 25.9 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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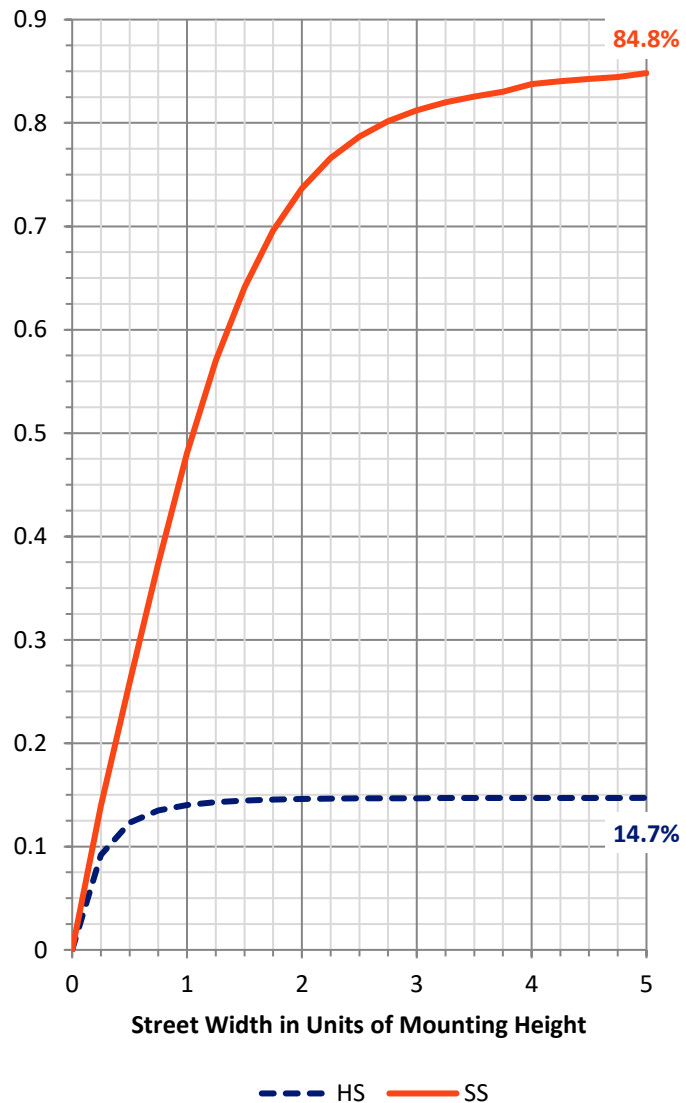
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5498.0	0.0	5498.0
	% Fixture	14.8	0.0	14.8
Street Side	Lumens	31548.1	0.0	31548.1
	% Fixture	85.2	0.0	85.2
Total	Lumens	37046.0	0.0	37046.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	928.9	2.5
10°-20°	1829.2	4.9
20°-30°	2707.5	7.3
30°-40°	4035.8	10.9
40°-50°	5910.5	16.0
50°-60°	8532.9	23.0
60°-70°	8976.2	24.2
70°-80°	3692.5	10.0
80°-90°	432.5	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°	37046.0	100.0
0°-180°	37046.0	100.0

Coefficient of Utilization



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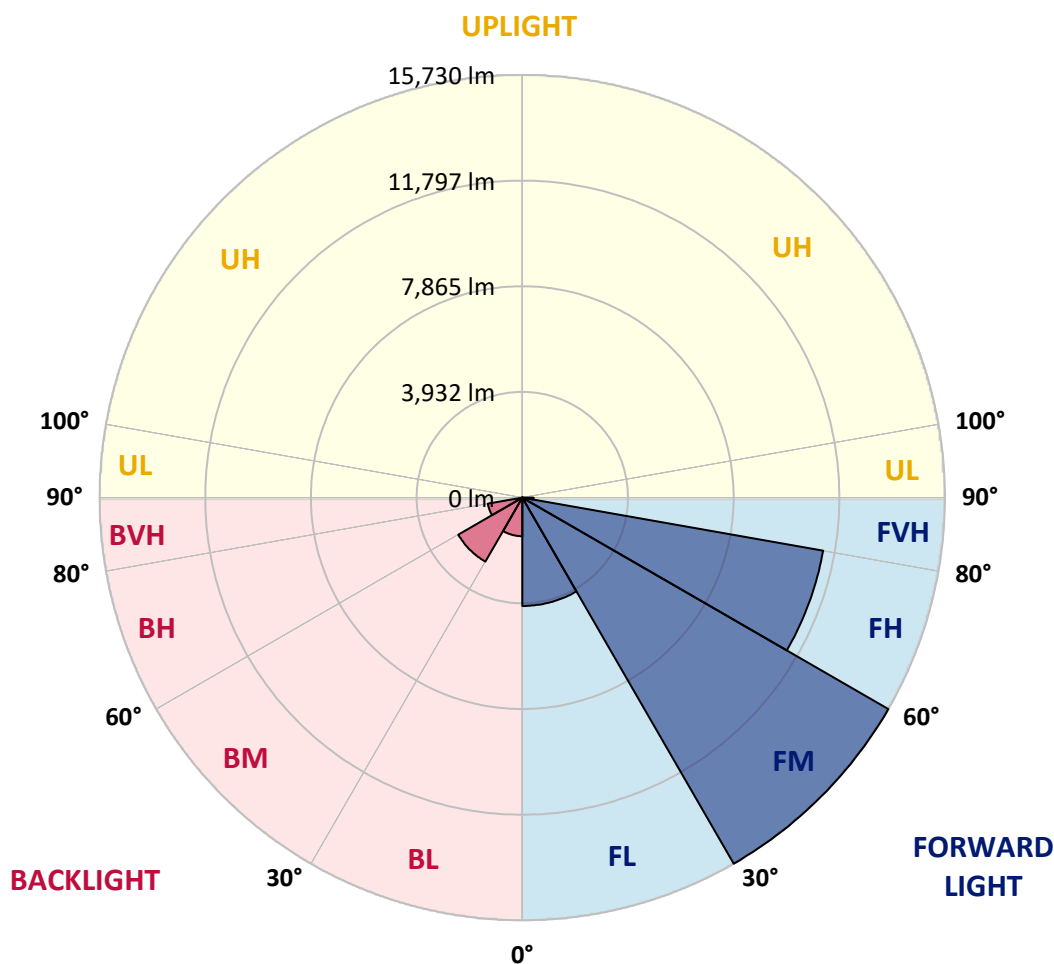
CATALOG NUMBER: GALN-SA9B-740-U-SLL-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4031.1	10.9			
FM	(30°-60°)	15729.8	42.5			
FH	(60°-80°)	11367.4	30.7			G4/12000
FVH	(80°-90°)	419.8	1.1			G3/500
BL	(0°-30°)	1434.4	3.9	B3/2500		
BM	(30°-60°)	2749.5	7.4	B3/5000		
BH	(60°-80°)	1301.3	3.5	B3/2500		G3/2500
BVH	(80°-90°)	12.7	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°	12543.7	12543.7	12543.7	12543.7	12543.7	12543.7	12543.7	12543.7	12543.7	12543.7	12543.7
2.5°	13704.2	13681.4	13883.9	14214.6	14548.3	14722.2	14688.0	14673.7	14397.1	14194.7	13769.8
5°	13675.7	13792.6	14154.8	15050.1	15728.8	16056.7	16153.7	15745.9	15207.0	14425.7	13461.9
7.5°	12857.3	13002.8	13593.0	14993.1	16199.3	16912.1	16886.5	16233.5	15121.4	13912.4	12538.0
10°	11842.2	12013.3	12706.2	14405.7	15971.2	16912.1	16963.5	16136.5	14753.6	13202.4	11756.7
12.5°	11126.5	11328.9	12096.0	13858.2	15383.8	16310.5	16370.4	15771.6	14477.0	12928.6	11331.8
15°	10884.1	11075.2	11853.6	13581.6	14759.3	15258.3	15244.0	15181.3	14368.6	12994.2	11354.6
17.5°	11300.4	11457.3	12335.5	13707.1	14174.7	14123.4	14197.5	14499.8	14391.4	13544.5	12073.2
20°	12375.4	12535.1	13479.0	14092.0	13727.0	13402.0	13436.2	13940.9	14602.4	14579.6	13196.7
22.5°	13855.4	14126.2	14981.7	14839.1	13667.2	12954.3	12883.0	13538.8	14961.7	15771.6	14713.7
25°	15728.8	16002.5	16669.8	16031.0	13960.9	12848.8	12783.2	13416.2	15398.0	16935.0	16421.7
27.5°	17302.8	17511.0	18175.4	17191.6	14394.3	12894.4	12786.0	13433.3	15751.6	17924.4	17861.7
30°	18563.2	18717.1	19107.8	17733.4	14767.8	13094.0	12968.5	13684.3	15908.4	18406.3	19027.9
32.5°	19578.3	19837.8	19960.4	18312.2	15303.9	13470.4	13256.5	14166.2	16290.5	19002.3	20251.2
35°	20738.8	21038.2	20881.4	18865.4	16011.1	14057.8	13795.5	14947.5	16869.4	19552.6	21671.3
37.5°	22210.2	22555.2	21942.2	19447.1	16758.2	14941.8	14819.2	16045.3	17747.6	20339.6	23194.0
40°	23732.9	23932.5	22971.5	20154.3	17676.3	16227.8	16344.7	17676.3	18896.8	21283.5	24813.6
42.5°	24922.0	25110.2	24029.4	20747.4	18614.5	17753.3	18240.9	19643.9	20214.2	22250.1	26022.6
45°	25831.6	25991.3	24762.3	21394.7	19880.5	19963.2	20884.3	21671.3	21534.4	22840.4	26955.1
47.5°	26538.8	26675.6	25326.9	22090.4	21776.8	22666.4	24075.1	24408.7	22903.1	23479.1	27799.1
50°	26829.6	26869.5	25503.7	22977.2	23929.6	26111.0	27579.5	27377.1	24471.4	24189.1	28697.3
52.5°	27208.8	27200.3	26008.4	23821.3	25954.2	29190.6	30656.3	30197.2	26245.0	25252.7	29706.7
55°	28204.0	28215.4	27089.1	25018.9	27679.3	31677.1	33245.4	32911.8	28115.6	27049.2	30884.4
57.5°	29413.0	29455.8	28626.0	26419.0	29327.5	33479.3	35178.7	35050.4	30644.9	29048.1	31996.5
59°	29569.9	29655.4	29353.2	27405.6	30305.6	34032.4	35840.3	35965.8	31999.3	30365.4	32598.2
60°	29284.7	29427.3	29564.2	27964.5	30878.7	34232.1	35880.2	36125.4	33017.3	31260.8	32871.9
62.5°	28041.5	28266.7	28954.0	29683.9	31594.4	33610.4	34605.6	35118.9	34277.7	33613.3	32897.6
65°	26413.3	26530.2	27522.5	29989.0	30205.8	30707.6	31015.6	31674.3	32763.5	34520.1	31719.9
67.5°	23744.3	24089.3	25304.1	28218.3	26108.2	25515.1	25438.1	24782.2	27610.9	32358.6	28817.1
70°	19615.4	19769.3	21266.4	23134.1	19703.7	18791.3	19156.3	18911.0	21403.2	27856.1	23194.0
72.5°	14833.4	15181.3	16644.1	18440.5	13407.7	12224.3	13230.9	13139.6	16076.7	22387.0	15934.1
75°	10553.3	10778.6	12643.5	14431.4	9389.9	7955.6	8317.8	8657.1	11223.4	17676.3	9415.6
77.5°	7251.3	7445.2	8845.3	9543.9	6849.3	6561.3	6002.4	6330.3	7354.0	10487.8	5124.1
80°	4374.2	4365.6	5286.6	5457.7	4770.5	5540.4	4647.9	5218.2	4445.5	4488.2	1984.6
82.5°	2840.1	2811.6	3233.6	3524.4	2654.7	2791.6	1873.4	2700.4	2897.1	1251.8	627.3
85°	1271.8	1325.9	1554.1	2050.2	1163.4	618.8	382.1	829.8	1234.7	630.2	0.0
87.5°	131.2	102.7	273.7	499.0	159.7	17.1	57.0	28.5	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°	12543.7	12543.7	12543.7	12543.7	12543.7	12543.7	12543.7	12543.7	12543.7	12543.7	12543.7
2.5°	13573.1	13407.7	12914.4	12452.4	12056.1	11571.3	11257.7	10764.3	10464.9	10373.7	10388.0
5°	13028.4	12552.2	11614.1	10864.1	10028.7	9552.5	8828.2	8132.4	7756.0	7616.3	7553.6
7.5°	11887.8	11377.4	10245.4	9067.7	8172.3	7336.9	6797.9	6184.9	5765.7	5420.7	5360.8
10°	11040.9	10370.8	8967.9	7701.9	6994.7	6367.4	5828.4	5215.4	4722.1	4328.6	4220.2
12.5°	10533.4	9783.4	8218.0	7157.2	6487.1	5842.7	5141.2	4431.2	3926.5	3501.6	3304.9
15°	10442.1	9572.4	8007.0	6766.6	5939.6	5161.2	4228.7	3461.7	2942.7	2540.7	2418.1
17.5°	10992.5	9951.7	7975.6	6358.8	5223.9	4120.4	3150.9	2515.0	1930.5	1705.2	1616.8
20°	11973.4	10621.8	7972.7	5885.5	4488.2	3173.7	2212.8	1639.6	1402.9	1294.6	1243.2
22.5°	13310.7	11534.2	8123.9	5477.7	3724.0	2341.1	1579.7	1306.0	1169.1	1080.7	1060.8
25°	14944.6	12885.9	8494.6	5201.1	3139.5	1836.4	1303.1	1117.8	1003.7	963.8	946.7
27.5°	16396.0	14180.4	8902.3	4916.0	2720.3	1625.3	1209.0	1023.7	932.4	901.1	875.4
30°	17647.8	15355.2	9099.1	4539.6	2383.8	1488.5	1226.1	1095.0	975.2	881.1	838.3
32.5°	18691.5	16256.3	9227.4	4197.4	2098.7	1217.6	969.5	846.9	792.7	758.5	730.0
35°	19997.4	17231.5	9150.4	4003.5	1953.3	1109.2	884.0	730.0	638.7	570.3	541.8
37.5°	21366.2	18206.7	9016.4	3843.8	1887.7	1029.4	841.2	692.9	593.1	521.8	484.8
40°	22783.3	19110.6	8859.6	3695.5	1827.8	978.1	815.5	661.5	561.7	484.8	444.8
42.5°	24080.8	19991.7	8796.8	3598.6	1730.9	986.6	795.6	647.3	530.4	450.5	416.3
45°	25130.1	20827.2	8882.4	3547.2	1625.3	972.4	801.3	630.2	504.7	427.7	393.5
47.5°	26250.8	22007.7	9159.0	3495.9	1522.7	903.9	844.0	627.3	493.3	413.5	376.4
50°	27553.9	23519.0	9792.0	3370.5	1397.2	829.8	898.2	624.5	479.0	396.4	359.3
52.5°	29290.4	25235.6	10445.0	3150.9	1214.7	758.5	858.3	615.9	450.5	376.4	339.3
55°	30850.2	27043.5	10998.2	2891.4	983.8	655.8	772.8	578.9	402.1	342.2	308.0
57.5°	31494.6	28064.3	10981.1	2532.1	787.0	576.0	635.9	530.4	350.7	302.3	273.7
59°	31258.0	27936.0	10613.2	2266.9	718.6	533.2	527.5	524.7	327.9	273.7	250.9
60°	30924.3	27468.3	10216.9	2135.8	675.8	504.7	484.8	519.0	308.0	256.6	233.8
62.5°	29646.9	25529.3	8902.3	1913.3	618.8	427.7	387.8	439.1	273.7	222.4	202.5
65°	27796.3	22549.5	7536.5	1850.6	601.7	353.6	322.2	313.7	233.8	188.2	171.1
67.5°	24186.3	19082.1	6105.0	1807.8	607.4	296.6	282.3	236.7	193.9	156.8	145.4
70°	19364.4	14879.0	4998.6	1759.4	613.1	242.4	236.7	188.2	156.8	131.2	119.8
72.5°	11765.2	8819.6	3935.0	1528.4	596.0	193.9	211.0	142.6	114.1	94.1	88.4
75°	7274.1	6036.6	2440.9	1189.1	393.5	142.6	148.3	88.4	77.0	59.9	59.9
77.5°	4214.5	3812.4	872.6	427.7	173.9	85.5	65.6	45.6	42.8	25.7	25.7
80°	1748.0	1400.1	302.3	145.4	94.1	39.9	14.3	2.9	0.0	0.0	0.0
82.5°	510.4	453.4	82.7	65.6	28.5	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°	12543.7	12543.7	12543.7	12543.7	12543.7	12543.7	12543.7	12543.7	12543.7	12543.7	12543.7
2.5°	10145.6	10051.5	10008.7	10154.1	10020.1	10191.2	10060.0	10117.1	10285.3	10359.4	10550.5
5°	7593.5	7496.5	7450.9	7670.5	7659.1	7767.4	7756.0	7855.8	7941.4	7750.3	7947.1
7.5°	5289.5	5223.9	5332.3	5503.4	5685.9	5626.0	5626.0	5492.0	5537.6	5509.1	5500.5
10°	4023.4	3798.2	3741.1	3735.4	3803.9	3818.1	3741.1	3555.8	3624.2	3644.2	3764.0
12.5°	3165.1	2991.2	2726.0	2606.3	2574.9	2600.6	2346.8	2184.2	2261.2	2215.6	2332.5
15°	2269.8	2127.2	1970.4	1836.4	1799.3	1748.0	1471.4	1277.5	1254.7	1263.2	1283.2
17.5°	1619.6	1522.7	1522.7	1380.1	1303.1	1149.1	1009.4	923.9	915.3	923.9	938.1
20°	1194.8	1143.4	1137.7	1100.7	1015.1	912.5	815.5	798.4	792.7	807.0	812.7
22.5°	1029.4	975.2	929.6	926.7	846.9	761.3	715.7	692.9	695.8	701.5	715.7
25°	921.0	864.0	815.5	787.0	730.0	670.1	627.3	615.9	615.9	624.5	627.3
27.5°	844.0	772.8	730.0	690.1	638.7	587.4	550.3	541.8	536.1	541.8	556.0
30°	789.9	718.6	664.4	604.5	564.6	516.1	484.8	473.3	470.5	473.3	484.8
32.5°	675.8	633.0	590.3	536.1	487.6	456.2	422.0	402.1	402.1	407.8	419.2
35°	510.4	487.6	484.8	470.5	430.6	396.4	356.4	336.5	336.5	347.9	353.6
37.5°	450.5	407.8	402.1	396.4	379.2	333.6	296.6	279.4	276.6	285.1	296.6
40°	410.6	362.1	336.5	330.8	333.6	282.3	242.4	225.3	225.3	228.1	239.5
42.5°	379.2	322.2	276.6	270.9	282.3	236.7	196.8	179.6	179.6	179.6	193.9
45°	353.6	288.0	233.8	205.3	222.4	193.9	159.7	142.6	136.9	142.6	148.3
47.5°	336.5	262.3	205.3	165.4	165.4	154.0	128.3	108.4	102.7	105.5	114.1
50°	322.2	239.5	173.9	134.0	119.8	122.6	97.0	82.7	77.0	77.0	85.5
52.5°	299.4	216.7	151.1	114.1	91.2	82.7	71.3	59.9	57.0	59.9	65.6
55°	270.9	196.8	131.2	94.1	71.3	57.0	51.3	42.8	39.9	42.8	51.3
57.5°	239.5	165.4	105.5	74.1	48.5	37.1	34.2	28.5	22.8	25.7	31.4
59°	219.6	148.3	91.2	59.9	37.1	25.7	25.7	20.0	14.3	17.1	25.7
60°	211.0	136.9	77.0	51.3	31.4	20.0	20.0	14.3	8.6	11.4	20.0
62.5°	179.6	114.1	59.9	31.4	14.3	2.9	8.6	2.9	0.0	2.9	8.6
65°	151.1	91.2	39.9	14.3	0.0	0.0	0.0	0.0	0.0	0.0	2.9
67.5°	125.5	68.4	20.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	99.8	45.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	68.4	25.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	42.8	8.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	17.1	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°	12543.7	12543.7	12543.7	12543.7	12543.7	12543.7	12543.7	12543.7	12543.7	12543.7
2.5°	10561.9	10969.7	11220.6	11693.9	12178.7	12552.2	13019.9	13439.0	13613.0	13704.2
5°	8146.7	8714.1	9196.0	9917.5	10587.6	11403.1	12230.0	13205.2	13578.8	13675.7
7.5°	5717.2	6296.1	6800.8	7636.3	8591.5	9683.6	10921.2	12158.7	12703.4	12857.3
10°	4128.9	4747.7	5363.6	6199.1	7091.6	8275.0	9563.9	11095.1	11722.4	11842.2
12.5°	2606.3	3270.7	4271.5	5303.8	6247.6	7200.0	8548.7	10214.0	10906.9	11126.5
15°	1511.3	2007.4	2763.1	4109.0	5309.5	6569.8	8041.2	9883.2	10658.8	10884.1
17.5°	1012.3	1183.4	1702.3	2731.7	4317.1	5988.1	7912.9	10154.1	11012.4	11300.4
20°	852.6	929.6	1112.1	1665.3	3324.8	5469.1	7947.1	10889.8	12016.1	12375.4
22.5°	749.9	821.2	938.1	1197.6	2321.1	4824.7	8109.6	11942.0	13396.3	13855.4
25°	661.5	732.8	835.5	992.3	1559.8	4080.5	8466.1	13481.8	15224.1	15728.8
27.5°	587.4	653.0	741.4	875.4	1200.5	3250.7	8782.6	14981.7	16892.2	17302.8
30°	519.0	573.1	658.7	761.3	998.0	2506.5	8942.3	16293.4	18106.9	18563.2
32.5°	450.5	501.9	584.6	667.2	821.2	1910.5	8831.0	17257.2	19287.4	19578.3
35°	385.0	439.1	507.6	584.6	710.0	1542.7	8275.0	18340.7	20510.7	20738.8
37.5°	330.8	376.4	447.7	507.6	641.6	1234.7	7602.1	19315.9	21882.3	22210.2
40°	279.4	325.1	396.4	450.5	590.3	972.4	6994.7	20399.5	23328.0	23732.9
42.5°	228.1	282.3	345.0	433.4	507.6	741.4	6259.0	21277.8	24414.4	24922.0
45°	182.5	242.4	310.8	430.6	442.0	564.6	5549.0	21962.1	25375.3	25831.6
47.5°	145.4	205.3	299.4	402.1	362.1	447.7	5144.1	22677.8	26173.8	26538.8
50°	116.9	171.1	313.7	353.6	302.3	379.2	5132.7	23476.3	26587.2	26829.6
52.5°	94.1	139.7	265.2	270.9	256.6	333.6	5440.6	24374.5	27009.2	27208.8
55°	79.8	116.9	173.9	199.6	231.0	302.3	5671.6	25757.4	28015.8	28204.0
57.5°	62.7	99.8	134.0	159.7	205.3	276.6	5703.0	26823.9	29290.4	29413.0
59°	54.2	85.5	119.8	142.6	188.2	259.5	5574.6	26889.5	29373.1	29569.9
60°	45.6	77.0	105.5	134.0	173.9	245.2	5434.9	26413.3	29065.2	29284.7
62.5°	34.2	59.9	77.0	108.4	142.6	211.0	4773.4	24750.9	27887.5	28041.5
65°	22.8	42.8	57.0	79.8	111.2	182.5	3889.4	22595.2	26068.3	26413.3
67.5°	14.3	31.4	45.6	59.9	91.2	154.0	2771.6	19375.8	23521.9	23744.3
70°	8.6	20.0	34.2	48.5	71.3	122.6	1645.3	15315.3	19569.7	19615.4
72.5°	5.7	14.3	22.8	34.2	57.0	111.2	798.4	9983.0	14288.8	14833.4
75°	2.9	8.6	14.3	25.7	45.6	91.2	382.1	6669.6	10396.5	10553.3
77.5°	0.0	2.9	8.6	17.1	34.2	71.3	222.4	4379.9	7088.8	7251.3
80°	0.0	0.0	5.7	14.3	25.7	45.6	134.0	2583.4	4294.3	4374.2
82.5°	0.0	0.0	2.9	11.4	17.1	34.2	68.4	1134.9	2811.6	2840.1
85°	0.0	0.0	2.9	11.4	14.3	22.8	25.7	154.0	1248.9	1271.8
87.5°	0.0	0.0	2.9	14.3	14.3	14.3	14.3	8.6	105.5	131.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)