

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: P456495

Luminaire Tested: **GALN-SA7D-730-U-SLL-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456495
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-SA7D-730-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 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: 35241 lumens
Efficiency: N/A
Efficacy: 81.4 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

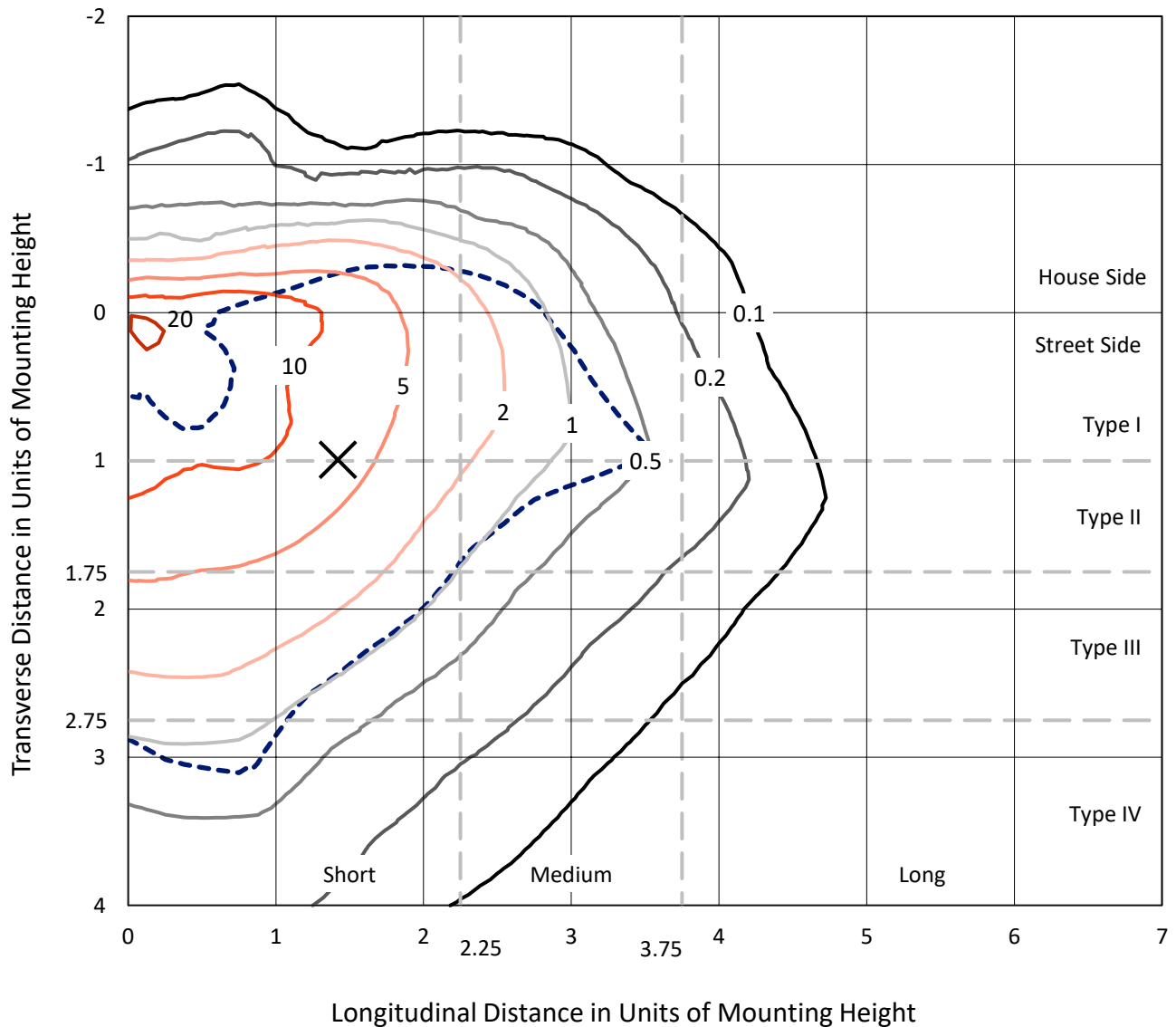
Input Watts (W): 433
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

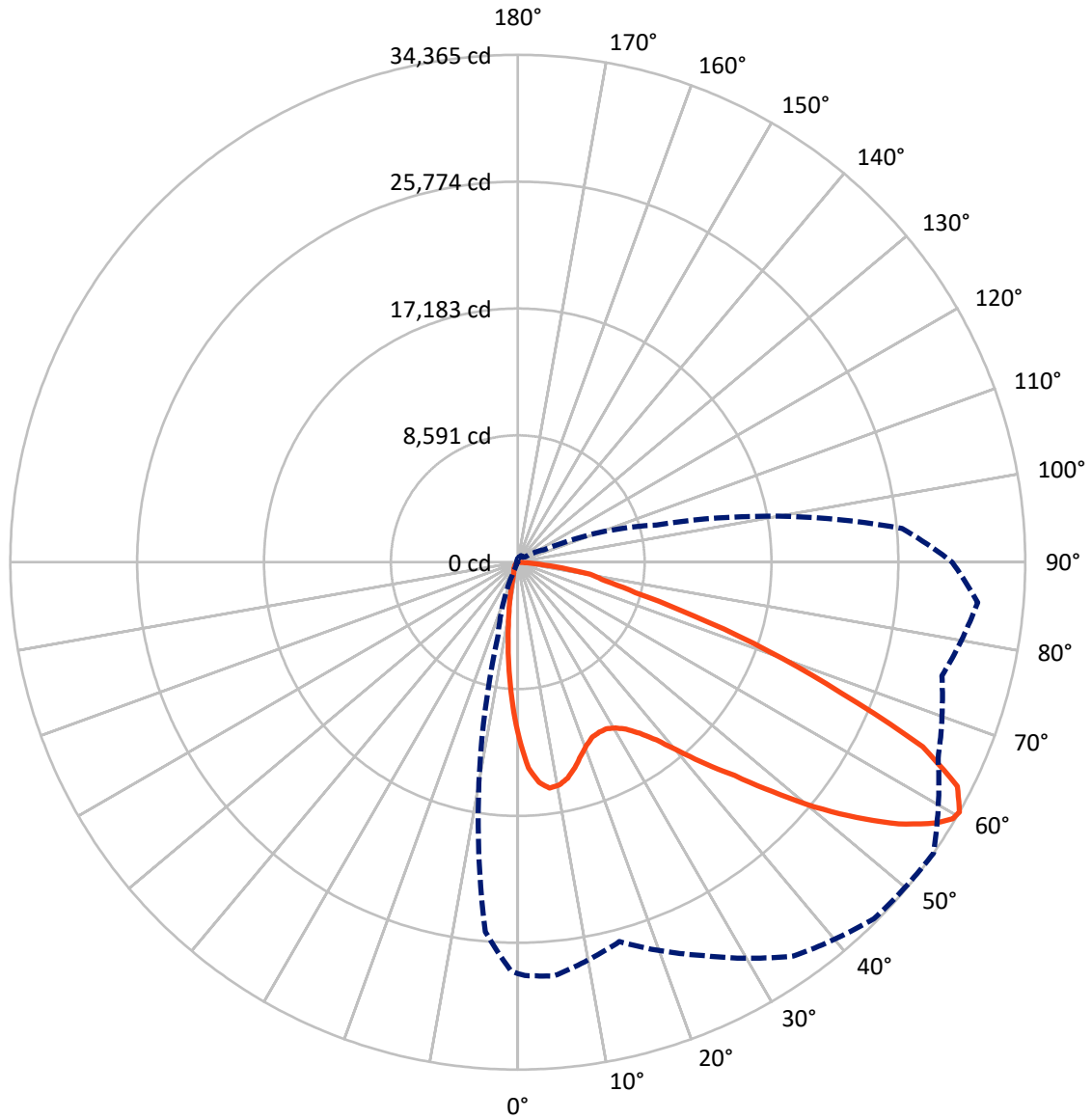
✕ Max cd
 - - - 1/2 Max cd



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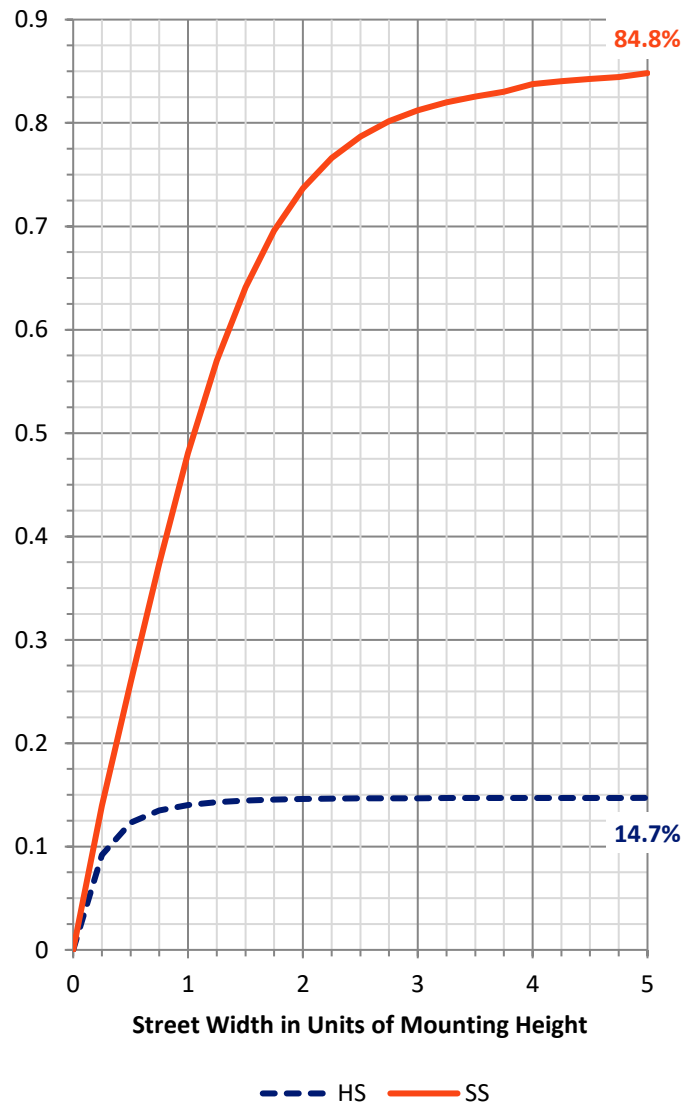
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5230.1	0.0	5230.1
	% Fixture	14.8	0.0	14.8
Street Side	Lumens	30010.9	0.0	30010.9
	% Fixture	85.2	0.0	85.2
Total	Lumens	35241.0	0.0	35241.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	883.6	2.5
10°-20°	1740.1	4.9
20°-30°	2575.6	7.3
30°-40°	3839.2	10.9
40°-50°	5622.5	16.0
50°-60°	8117.2	23.0
60°-70°	8538.9	24.2
70°-80°	3512.6	10.0
80°-90°	411.4	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°	35241.0	100.0
0°-180°	35241.0	100.0



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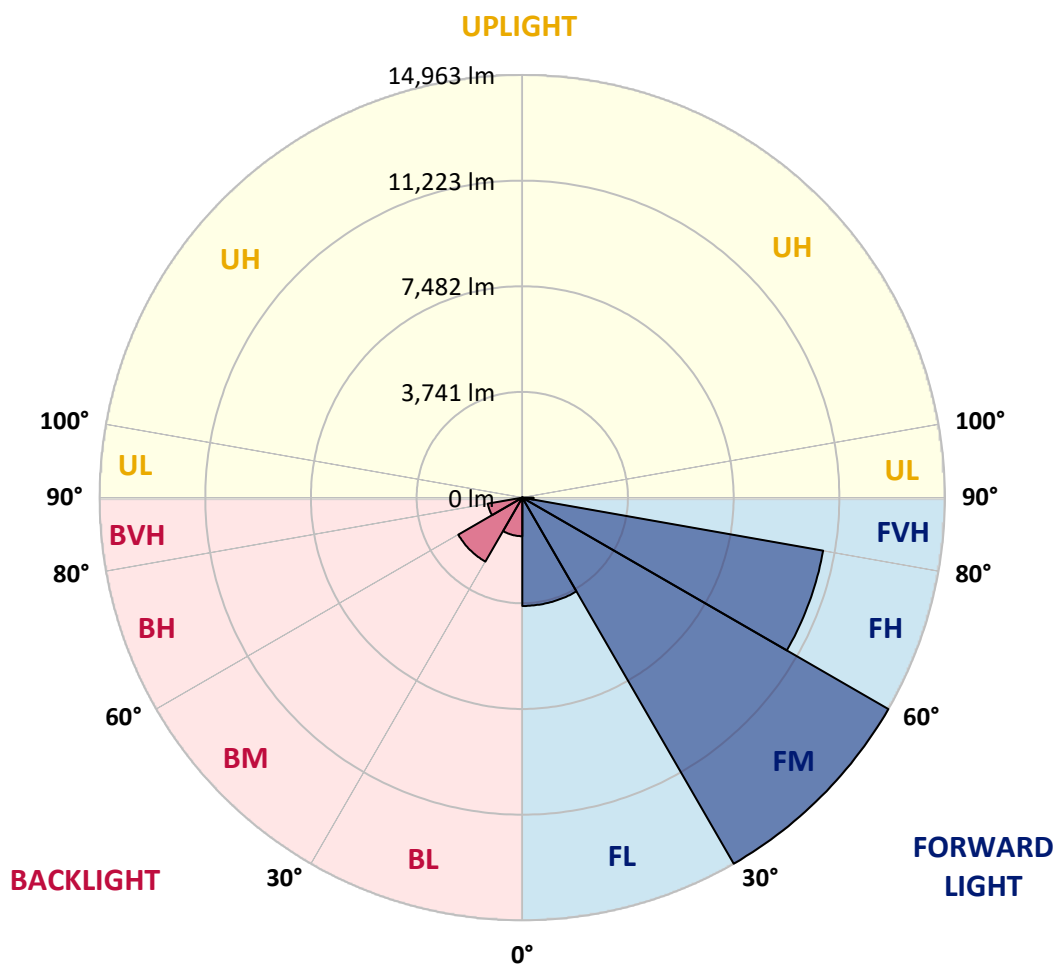
CATALOG NUMBER: GALN-SA7D-730-U-SLL-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3834.7	10.9			
FM	(30°-60°)	14963.4	42.5			
FH	(60°-80°)	10813.5	30.7			G4/12000
FVH	(80°-90°)	399.3	1.1			G3/500
BL	(0°-30°)	1364.6	3.9	B3/2500		
BM	(30°-60°)	2615.5	7.4	B3/5000		
BH	(60°-80°)	1237.9	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°	11932.5	11932.5	11932.5	11932.5	11932.5	11932.5	11932.5	11932.5	11932.5	11932.5	11932.5
2.5°	13036.5	13014.8	13207.4	13522.1	13839.4	14004.9	13972.3	13958.8	13695.7	13503.1	13098.9
5°	13009.4	13120.6	13465.1	14316.8	14962.4	15274.4	15366.6	14978.7	14466.0	13722.8	12805.9
7.5°	12230.9	12369.2	12930.7	14262.6	15410.0	16088.1	16063.7	15442.5	14384.6	13234.5	11927.1
10°	11265.2	11428.0	12087.1	13703.8	15193.0	16088.1	16137.0	15350.3	14034.7	12559.1	11183.8
12.5°	10584.4	10777.0	11506.6	13183.0	14634.2	15515.8	15572.7	15003.1	13771.6	12298.7	10779.7
15°	10353.8	10535.5	11276.1	12919.9	14040.2	14514.9	14501.3	14441.6	13668.5	12361.1	10801.4
17.5°	10749.8	10899.0	11734.5	13039.2	13484.1	13435.3	13505.8	13793.3	13690.2	12884.6	11484.9
20°	11772.5	11924.4	12822.2	13405.4	13058.2	12749.0	12781.5	13261.7	13891.0	13869.3	12553.7
22.5°	13180.3	13438.0	14251.7	14116.1	13001.2	12323.1	12255.3	12879.2	14232.7	15003.1	13996.8
25°	14962.4	15222.8	15857.6	15250.0	13280.6	12222.7	12160.4	12762.5	14647.8	16109.8	15621.6
27.5°	16459.8	16657.8	17289.8	16354.0	13692.9	12266.1	12163.1	12778.8	14984.1	17051.1	16991.4
30°	17658.7	17805.2	18176.8	16869.3	14048.3	12456.0	12336.7	13017.5	15133.3	17509.5	18100.8
32.5°	18624.4	18871.2	18987.8	17420.0	14558.3	12814.1	12610.6	13475.9	15496.8	18076.4	19264.5
35°	19728.4	20013.2	19864.0	17946.2	15231.0	13372.9	13123.3	14219.2	16047.4	18600.0	20615.4
37.5°	21128.0	21456.3	20873.1	18499.6	15941.7	14213.8	14097.1	15263.5	16882.9	19348.6	22063.9
40°	22576.5	22766.4	21852.3	19172.3	16815.1	15437.1	15548.3	16815.1	17976.1	20246.5	23604.6
42.5°	23707.7	23886.7	22858.7	19736.5	17707.5	16888.3	17352.2	18686.8	19229.3	21166.0	24754.7
45°	24573.0	24724.9	23555.8	20352.3	18911.9	18990.6	19866.7	20615.4	20485.2	21727.5	25641.7
47.5°	25245.7	25375.9	24092.9	21014.1	20715.7	21562.1	22902.1	23219.4	21787.2	22335.1	26444.6
50°	25522.4	25560.4	24261.0	21857.7	22763.7	24838.8	26235.8	26043.2	23279.1	23010.6	27299.1
52.5°	25883.1	25875.0	24741.2	22660.6	24689.6	27768.4	29162.6	28725.9	24966.3	24022.3	28259.3
55°	26829.8	26840.7	25769.2	23799.9	26330.7	30133.7	31625.6	31308.2	26745.7	25731.2	29379.6
57.5°	27979.9	28020.6	27231.3	25131.8	27898.6	31848.0	33464.7	33342.7	29151.8	27632.7	30437.5
59°	28129.1	28210.5	27923.0	26070.3	28829.0	32374.3	34094.0	34213.4	30440.2	28885.9	31009.9
60°	27857.9	27993.5	28123.7	26602.0	29374.2	32564.2	34132.0	34365.3	31408.6	29737.7	31270.3
62.5°	26675.2	26889.5	27543.2	28237.6	30055.0	31972.8	32919.5	33407.8	32607.6	31975.5	31294.7
65°	25126.3	25237.6	26181.5	28527.9	28734.0	29211.4	29504.4	30131.0	31167.2	32838.1	30174.4
67.5°	22587.4	22915.6	24071.2	26843.4	24836.1	24271.9	24198.7	23574.8	26265.6	30782.0	27413.0
70°	18659.6	18806.1	20230.2	22006.9	18743.7	17875.7	18222.9	17989.6	20360.4	26498.9	22063.9
72.5°	14110.7	14441.6	15833.2	17542.1	12754.4	11628.7	12586.2	12499.4	15293.4	21296.2	15157.7
75°	10039.1	10253.4	12027.4	13728.2	8932.4	7568.0	7912.5	8235.3	10676.6	16815.1	8956.8
77.5°	6898.0	7082.5	8414.3	9078.9	6515.5	6241.6	5709.9	6021.9	6995.7	9976.8	4874.5
80°	4161.1	4152.9	5029.1	5191.8	4538.1	5270.5	4421.5	4964.0	4228.9	4269.6	1887.9
82.5°	2701.7	2674.6	3076.0	3352.7	2525.4	2655.6	1782.1	2568.8	2756.0	1190.8	596.8
85°	1209.8	1261.3	1478.3	1950.3	1106.7	588.6	363.5	789.4	1174.5	599.5	0.0
87.5°	124.8	97.7	260.4	474.7	151.9	16.3	54.3	27.1	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°	11932.5	11932.5	11932.5	11932.5	11932.5	11932.5	11932.5	11932.5	11932.5	11932.5	11932.5
2.5°	12911.7	12754.4	12285.1	11845.7	11468.7	11007.5	10709.1	10239.9	9955.1	9868.3	9881.8
5°	12393.6	11940.6	11048.2	10334.8	9540.0	9087.0	8398.1	7736.2	7378.1	7245.2	7185.5
7.5°	11308.6	10823.1	9746.2	8625.9	7774.2	6979.4	6466.7	5883.5	5484.8	5156.6	5099.6
10°	10503.0	9865.5	8531.0	7326.6	6653.9	6057.1	5544.5	4961.3	4492.0	4117.7	4014.6
12.5°	10020.2	9306.8	7817.6	6808.5	6171.1	5558.0	4890.7	4215.3	3735.2	3331.0	3143.8
15°	9933.4	9106.0	7616.8	6436.9	5650.2	4909.7	4022.7	3293.0	2799.4	2416.9	2300.2
17.5°	10456.9	9466.8	7587.0	6049.0	4969.4	3919.6	2997.4	2392.5	1836.4	1622.1	1538.0
20°	11390.0	10104.2	7584.3	5598.7	4269.6	3019.1	2104.9	1559.7	1334.6	1231.5	1182.7
22.5°	12662.2	10972.3	7728.1	5210.8	3542.6	2227.0	1502.8	1242.3	1112.1	1028.1	1009.1
25°	14216.5	12258.0	8080.7	4947.7	2986.5	1746.9	1239.6	1063.3	954.8	916.8	900.6
27.5°	15597.2	13489.5	8468.6	4676.4	2587.8	1546.2	1150.1	973.8	887.0	857.2	832.8
30°	16788.0	14607.1	8655.7	4318.4	2267.7	1416.0	1166.4	1041.6	927.7	838.2	797.5
32.5°	17780.8	15464.2	8777.8	3992.9	1996.4	1158.3	922.3	805.6	754.1	721.5	694.4
35°	19023.1	16391.9	8704.6	3808.4	1858.1	1055.2	840.9	694.4	607.6	542.5	515.4
37.5°	20325.1	17319.6	8577.1	3656.5	1795.7	979.2	800.2	659.1	564.2	496.4	461.1
40°	21673.3	18179.5	8427.9	3515.5	1738.7	930.4	775.8	629.3	534.4	461.1	423.2
42.5°	22907.5	19017.7	8368.2	3423.2	1646.5	938.5	756.8	615.7	504.5	428.6	396.0
45°	23905.7	19812.5	8449.6	3374.4	1546.2	925.0	762.2	599.5	480.1	406.9	374.3
47.5°	24971.7	20935.5	8712.7	3325.6	1448.5	859.9	802.9	596.8	469.3	393.3	358.1
50°	26211.4	22373.1	9314.9	3206.2	1329.1	789.4	854.5	594.0	455.7	377.0	341.8
52.5°	27863.3	24006.1	9936.1	2997.4	1155.5	721.5	816.5	585.9	428.6	358.1	322.8
55°	29347.1	25725.8	10462.3	2750.5	935.8	623.9	735.1	550.6	382.5	325.5	293.0
57.5°	29960.1	26696.9	10446.0	2408.7	748.7	547.9	604.9	504.5	333.6	287.5	260.4
59°	29735.0	26574.8	10096.1	2156.5	683.6	507.2	501.8	499.1	311.9	260.4	238.7
60°	29417.6	26130.0	9719.1	2031.7	642.9	480.1	461.1	493.7	293.0	244.1	222.4
62.5°	28202.4	24285.5	8468.6	1820.1	588.6	406.9	368.9	417.7	260.4	211.6	192.6
65°	26441.9	21450.8	7169.3	1760.4	572.3	336.4	306.5	298.4	222.4	179.0	162.8
67.5°	23007.8	18152.4	5807.6	1719.8	577.8	282.1	268.5	225.1	184.5	149.2	138.3
70°	18420.9	14154.1	4755.1	1673.6	583.2	230.6	225.1	179.0	149.2	124.8	113.9
72.5°	11192.0	8389.9	3743.3	1453.9	566.9	184.5	200.7	135.6	108.5	89.5	84.1
75°	6919.7	5742.5	2321.9	1131.1	374.3	135.6	141.1	84.1	73.2	57.0	57.0
77.5°	4009.1	3626.7	830.0	406.9	165.5	81.4	62.4	43.4	40.7	24.4	24.4
80°	1662.8	1331.9	287.5	138.3	89.5	38.0	13.6	2.7	0.0	0.0	0.0
82.5°	485.5	431.3	78.7	62.4	27.1	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°	11932.5	11932.5	11932.5	11932.5	11932.5	11932.5	11932.5	11932.5	11932.5	11932.5	11932.5
2.5°	9651.3	9561.7	9521.0	9659.4	9531.9	9694.7	9569.9	9624.1	9784.2	9854.7	10036.4
5°	7223.5	7131.3	7087.9	7296.8	7285.9	7389.0	7378.1	7473.1	7554.5	7372.7	7559.9
7.5°	5031.8	4969.4	5072.5	5235.2	5408.8	5351.9	5351.9	5224.4	5267.8	5240.6	5232.5
10°	3827.4	3613.1	3558.9	3553.4	3618.5	3632.1	3558.9	3382.5	3447.7	3466.6	3580.6
12.5°	3010.9	2845.5	2593.2	2479.3	2449.4	2473.8	2232.4	2077.8	2151.1	2107.7	2218.9
15°	2159.2	2023.6	1874.4	1746.9	1711.6	1662.8	1399.7	1215.2	1193.5	1201.7	1220.6
17.5°	1540.7	1448.5	1448.5	1312.9	1239.6	1093.2	960.2	878.9	870.7	878.9	892.4
20°	1136.6	1087.7	1082.3	1047.0	965.7	868.0	775.8	759.5	754.1	767.7	773.1
22.5°	979.2	927.7	884.3	881.6	805.6	724.3	680.8	659.1	661.9	667.3	680.8
25°	876.2	821.9	775.8	748.7	694.4	637.4	596.8	585.9	585.9	594.0	596.8
27.5°	802.9	735.1	694.4	656.4	607.6	558.8	523.5	515.4	510.0	515.4	528.9
30°	751.4	683.6	632.0	575.1	537.1	491.0	461.1	450.3	447.6	450.3	461.1
32.5°	642.9	602.2	561.5	510.0	463.8	434.0	401.5	382.5	382.5	387.9	398.7
35°	485.5	463.8	461.1	447.6	409.6	377.0	339.1	320.1	320.1	330.9	336.4
37.5°	428.6	387.9	382.5	377.0	360.8	317.4	282.1	265.8	263.1	271.3	282.1
40°	390.6	344.5	320.1	314.7	317.4	268.5	230.6	214.3	214.3	217.0	227.9
42.5°	360.8	306.5	263.1	257.7	268.5	225.1	187.2	170.9	170.9	170.9	184.5
45°	336.4	274.0	222.4	195.3	211.6	184.5	151.9	135.6	130.2	135.6	141.1
47.5°	320.1	249.6	195.3	157.3	157.3	146.5	122.1	103.1	97.7	100.4	108.5
50°	306.5	227.9	165.5	127.5	113.9	116.6	92.2	78.7	73.2	73.2	81.4
52.5°	284.8	206.2	143.8	108.5	86.8	78.7	67.8	57.0	54.3	57.0	62.4
55°	257.7	187.2	124.8	89.5	67.8	54.3	48.8	40.7	38.0	40.7	48.8
57.5°	227.9	157.3	100.4	70.5	46.1	35.3	32.6	27.1	21.7	24.4	29.8
59°	208.9	141.1	86.8	57.0	35.3	24.4	24.4	19.0	13.6	16.3	24.4
60°	200.7	130.2	73.2	48.8	29.8	19.0	19.0	13.6	8.1	10.9	19.0
62.5°	170.9	108.5	57.0	29.8	13.6	2.7	8.1	2.7	0.0	2.7	8.1
65°	143.8	86.8	38.0	13.6	0.0	0.0	0.0	0.0	0.0	0.0	2.7
67.5°	119.4	65.1	19.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	94.9	43.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	65.1	24.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	40.7	8.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	16.3	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°	11932.5	11932.5	11932.5	11932.5	11932.5	11932.5	11932.5	11932.5	11932.5	11932.5
2.5°	10047.3	10435.2	10673.9	11124.2	11585.3	11940.6	12385.5	12784.2	12949.7	13036.5
5°	7749.8	8289.6	8748.0	9434.2	10071.7	10847.5	11634.1	12561.8	12917.2	13009.4
7.5°	5438.7	5989.3	6469.4	7264.2	8172.9	9211.8	10389.1	11566.3	12084.4	12230.9
10°	3927.8	4516.4	5102.3	5897.1	6746.1	7871.8	9097.9	10554.5	11151.3	11265.2
12.5°	2479.3	3111.3	4063.4	5045.3	5943.2	6849.2	8132.2	9716.4	10375.5	10584.4
15°	1437.7	1909.6	2628.5	3908.8	5050.8	6249.7	7649.4	9401.7	10139.5	10353.8
17.5°	963.0	1125.7	1619.4	2598.6	4106.8	5696.4	7527.3	9659.4	10475.9	10749.8
20°	811.1	884.3	1057.9	1584.1	3162.8	5202.7	7559.9	10359.2	11430.7	11772.5
22.5°	713.4	781.2	892.4	1139.3	2208.0	4589.6	7714.5	11360.2	12743.6	13180.3
25°	629.3	697.1	794.8	944.0	1483.8	3881.7	8053.6	12824.9	14482.3	14962.4
27.5°	558.8	621.2	705.3	832.8	1142.0	3092.3	8354.7	14251.7	16069.1	16459.8
30°	493.7	545.2	626.6	724.3	949.4	2384.3	8506.6	15499.5	17224.7	17658.7
32.5°	428.6	477.4	556.1	634.7	781.2	1817.4	8400.8	16416.3	18347.7	18624.4
35°	366.2	417.7	482.8	556.1	675.4	1467.5	7871.8	17447.1	19511.4	19728.4
37.5°	314.7	358.1	425.9	482.8	610.3	1174.5	7231.7	18374.8	20816.1	21128.0
40°	265.8	309.2	377.0	428.6	561.5	925.0	6653.9	19405.6	22191.4	22576.5
42.5°	217.0	268.5	328.2	412.3	482.8	705.3	5954.0	20241.0	23224.8	23707.7
45°	173.6	230.6	295.7	409.6	420.4	537.1	5278.6	20892.1	24139.0	24573.0
47.5°	138.3	195.3	284.8	382.5	344.5	425.9	4893.4	21572.9	24898.5	25245.7
50°	111.2	162.8	298.4	336.4	287.5	360.8	4882.6	22332.4	25291.8	25522.4
52.5°	89.5	132.9	252.3	257.7	244.1	317.4	5175.5	23186.9	25693.3	25883.1
55°	76.0	111.2	165.5	189.9	219.7	287.5	5395.3	24502.5	26650.8	26829.8
57.5°	59.7	94.9	127.5	151.9	195.3	263.1	5425.1	25517.0	27863.3	27979.9
59°	51.5	81.4	113.9	135.6	179.0	246.8	5303.0	25579.3	27942.0	28129.1
60°	43.4	73.2	100.4	127.5	165.5	233.3	5170.1	25126.3	27649.0	27857.9
62.5°	32.6	57.0	73.2	103.1	135.6	200.7	4540.8	23544.9	26528.7	26675.2
65°	21.7	40.7	54.3	76.0	105.8	173.6	3699.9	21494.2	24798.1	25126.3
67.5°	13.6	29.8	43.4	57.0	86.8	146.5	2636.6	18431.8	22375.8	22587.4
70°	8.1	19.0	32.6	46.1	67.8	116.6	1565.1	14569.1	18616.2	18659.6
72.5°	5.4	13.6	21.7	32.6	54.3	105.8	759.5	9496.6	13592.6	14110.7
75°	2.7	8.1	13.6	24.4	43.4	86.8	363.5	6344.7	9890.0	10039.1
77.5°	0.0	2.7	8.1	16.3	32.6	67.8	211.6	4166.5	6743.4	6898.0
80°	0.0	0.0	5.4	13.6	24.4	43.4	127.5	2457.6	4085.1	4161.1
82.5°	0.0	0.0	2.7	10.9	16.3	32.6	65.1	1079.6	2674.6	2701.7
85°	0.0	0.0	2.7	10.9	13.6	21.7	24.4	146.5	1188.1	1209.8
87.5°	0.0	0.0	2.7	13.6	13.6	13.6	13.6	8.1	100.4	124.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)