

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: P452784

Luminaire Tested: **GALN-SA3D-730-U-SLL**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P452784
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-20)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA3D-730-U-SLL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR LEFT OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18129 lumens
Efficiency: N/A
Efficacy: 98.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G3

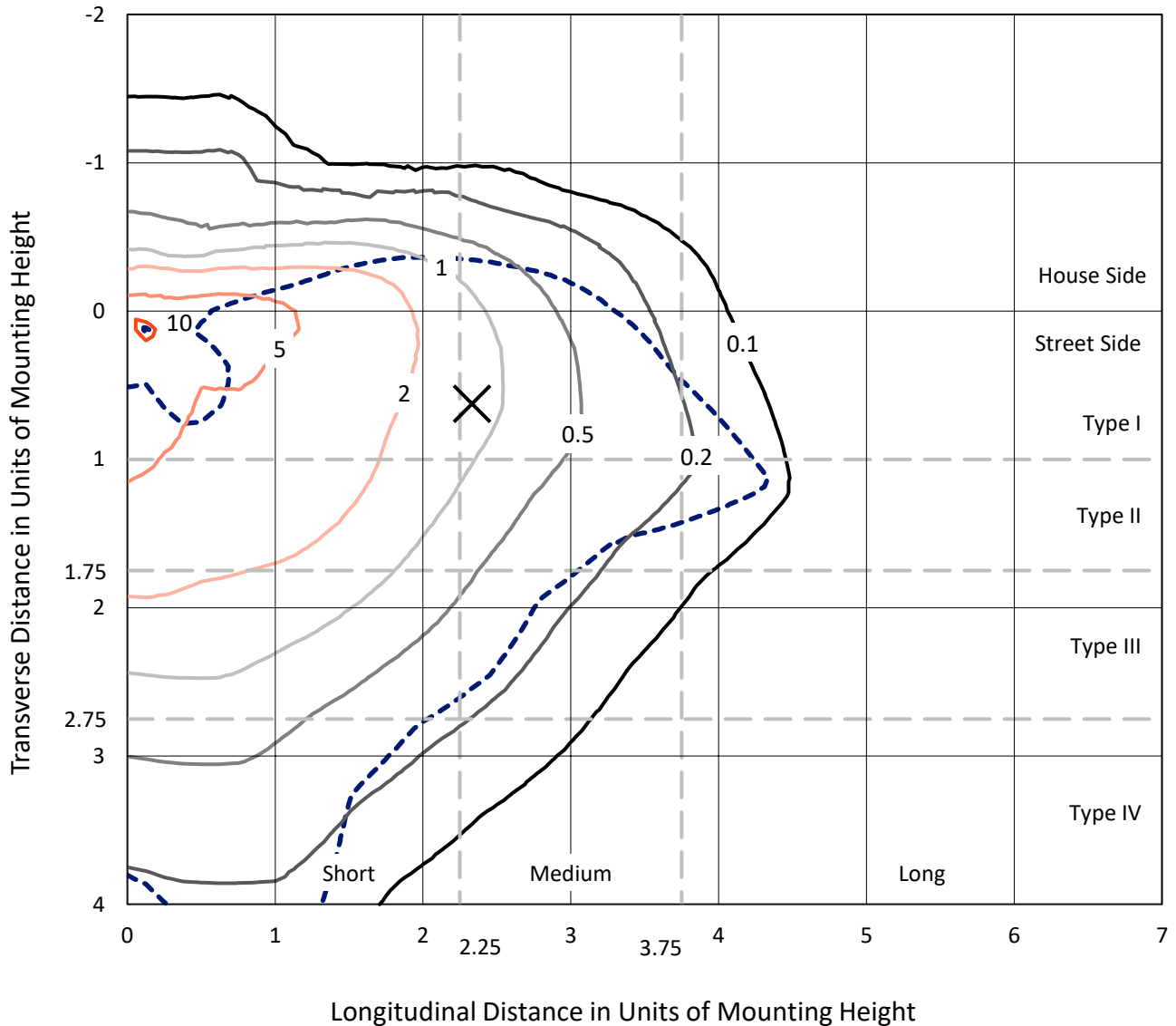
Input Watts (W): 184
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

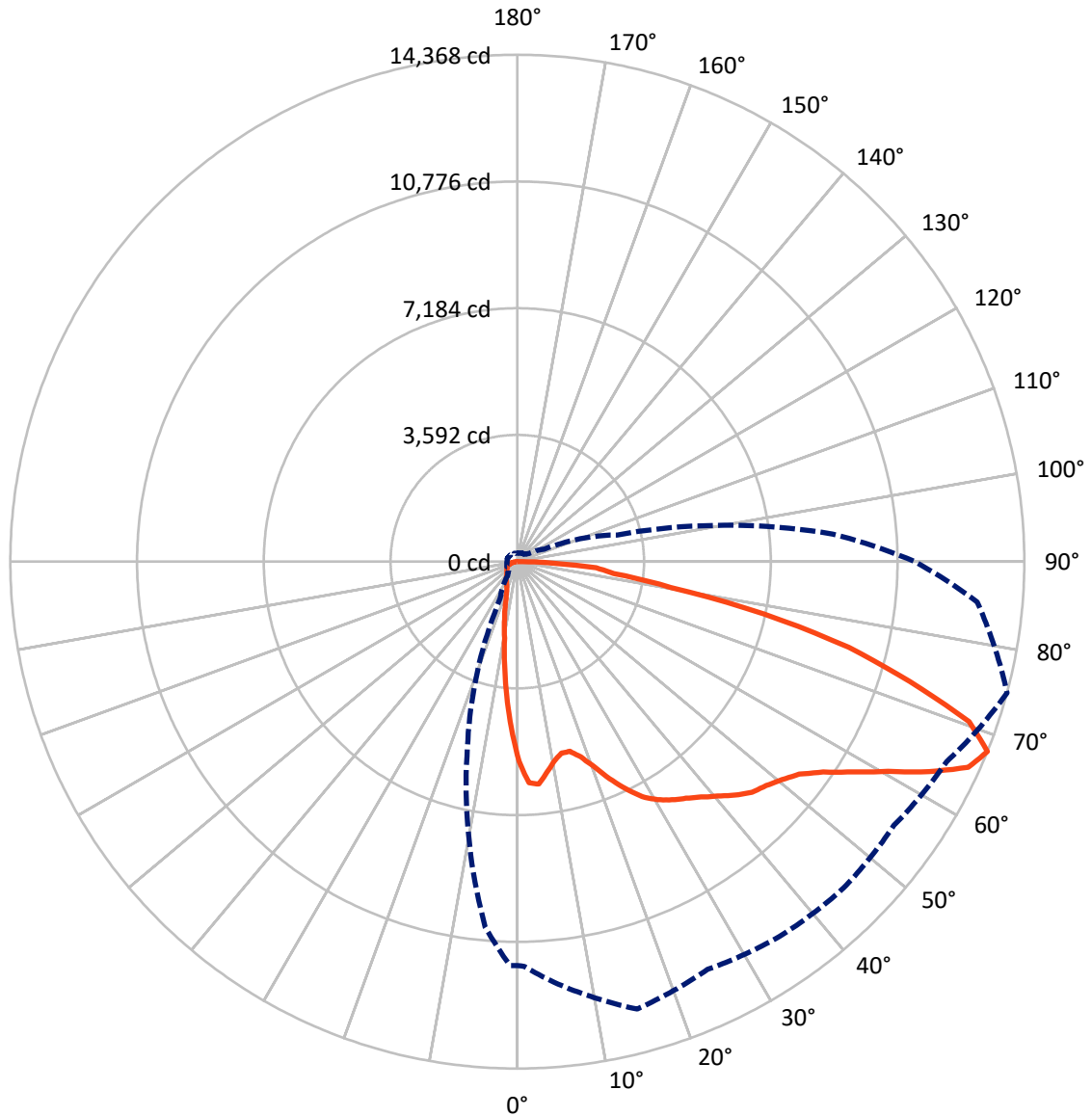
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.2 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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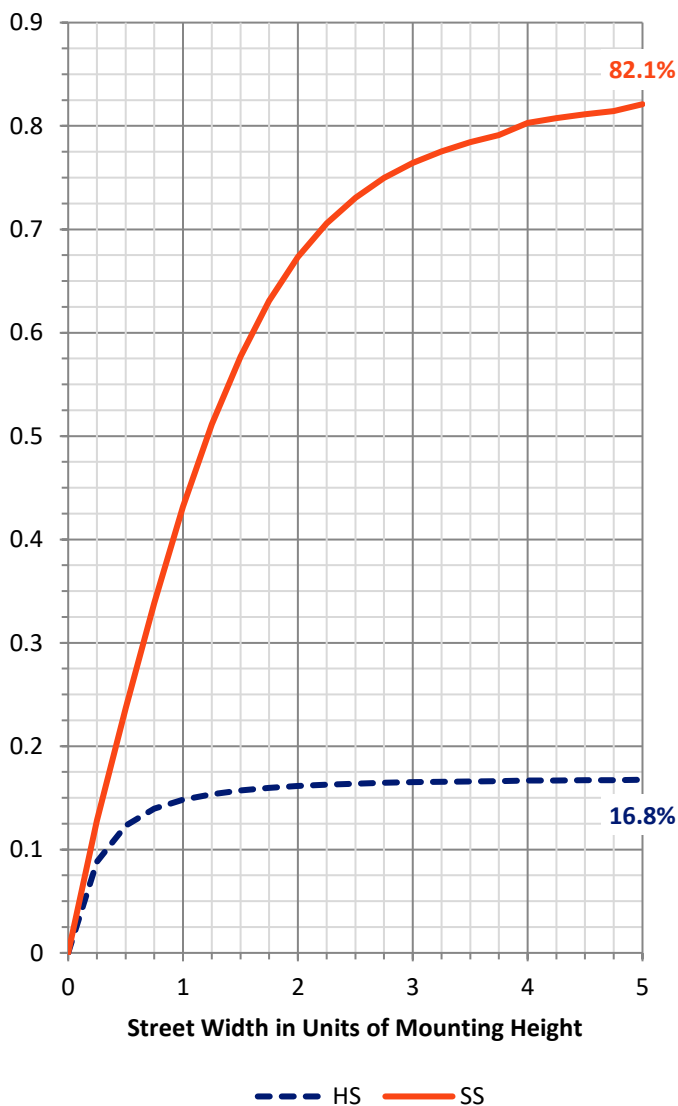
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3064.2	0.0	3064.2
	% Fixture	16.9	0.0	16.9
Street Side	Lumens	15064.8	0.0	15064.8
	% Fixture	83.1	0.0	83.1
Total	Lumens	18129.0	0.0	18129.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	429.6	2.4
10°-20°	895.9	4.9
20°-30°	1289.3	7.1
30°-40°	1856.9	10.2
40°-50°	2608.4	14.4
50°-60°	3637.8	20.1
60°-70°	4325.1	23.9
70°-80°	2547.3	14.1
80°-90°	538.7	3.0
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°	18129.0	100.0
0°-180°	18129.0	100.0

Coefficient of Utilization



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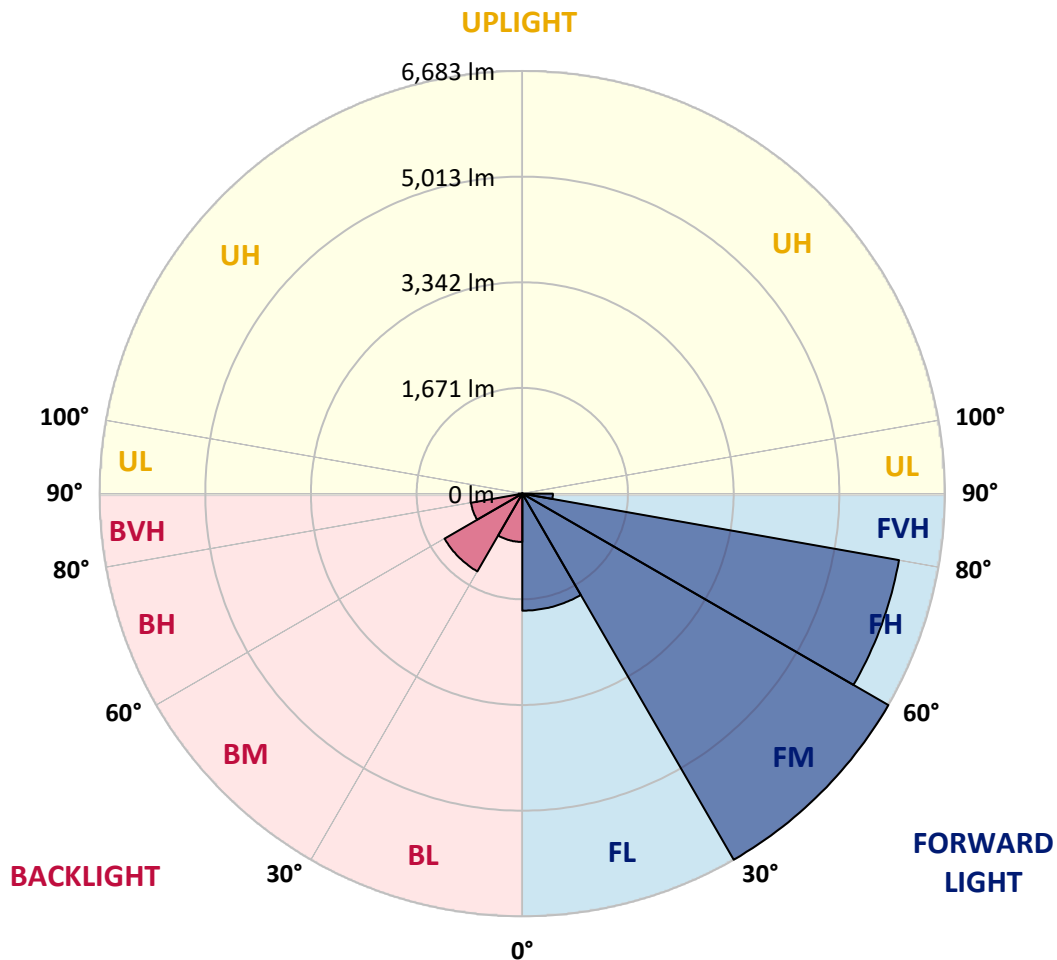
CATALOG NUMBER: GALN-SA3D-730-U-SLL

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1850.5	10.2			
FM	(30°-60°)	6683.5	36.9			
FH	(60°-80°)	6047.9	33.4			G3/7500
FVH	(80°-90°)	482.9	2.7			G3/500
BL	(0°-30°)	764.3	4.2	B2/1000		
BM	(30°-60°)	1419.7	7.8	B2/2500		
BH	(60°-80°)	824.5	4.5	B2/1000		G2/1000
BVH	(80°-90°)	55.7	0.3			G1/100
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 Medium





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	5663.9	5663.9	5663.9	5663.9	5663.9	5663.9	5663.9	5663.9	5663.9	5663.9	5663.9
2.5°	6106.9	6115.0	6167.3	6319.6	6424.2	6462.6	6489.3	6439.3	6390.5	6271.9	6092.9
5°	6088.3	6135.9	6271.9	6613.7	6883.4	6999.7	7034.6	6884.6	6637.0	6332.4	5966.2
7.5°	5732.5	5796.5	6005.7	6578.9	7054.3	7326.4	7290.3	7019.5	6573.0	6030.1	5518.6
10°	5310.5	5381.4	5633.7	6326.6	6939.2	7313.6	7313.6	6983.4	6390.5	5745.3	5155.9
12.5°	4975.7	5050.1	5338.4	6067.3	6699.8	7054.3	7113.6	6830.0	6259.2	5565.1	4917.6
15°	4865.3	4937.3	5247.7	5910.4	6446.3	6662.6	6682.3	6589.3	6195.2	5577.9	4907.1
17.5°	5002.4	5095.4	5409.3	5956.9	6213.8	6226.6	6241.7	6315.0	6202.2	5811.6	5118.7
20°	5398.9	5498.8	5826.7	6106.9	6010.4	5877.8	5886.0	6074.3	6284.7	6197.5	5624.4
22.5°	5970.8	6058.0	6394.0	6370.8	5924.3	5651.1	5594.2	5856.9	6406.8	6678.8	6162.7
25°	6588.2	6690.5	7076.4	6762.5	5948.8	5516.3	5480.2	5729.0	6533.5	7128.7	6784.6
27.5°	7295.0	7395.0	7699.5	7157.8	6076.6	5505.8	5462.8	5717.4	6647.4	7544.9	7378.7
30°	7820.5	7912.3	8119.2	7490.3	6233.6	5575.6	5522.1	5809.2	6745.1	7829.8	7957.6
32.5°	8233.2	8328.5	8441.3	7697.2	6440.5	5702.3	5603.5	5976.7	6873.0	8047.1	8386.6
35°	8663.3	8776.1	8767.9	7880.9	6633.5	5848.8	5752.3	6218.5	7074.1	8236.6	8930.7
37.5°	9208.5	9253.9	9195.7	8046.0	6864.8	6112.7	6059.2	6577.7	7360.1	8465.7	9566.6
40°	9761.9	9852.6	9553.8	8245.9	7146.2	6609.1	6603.3	7109.0	7699.5	8734.2	10182.7
42.5°	10236.2	10313.0	9888.6	8420.3	7486.8	7214.8	7258.9	7821.6	8144.8	9045.8	10678.0
45°	10593.1	10661.7	10197.9	8588.9	7935.5	7914.6	8175.0	8585.4	8706.3	9326.0	10968.6
47.5°	10896.6	10962.8	10412.9	8844.7	8490.1	8750.5	9203.9	9381.8	9186.4	9486.4	11294.1
50°	11152.3	11172.1	10560.6	9149.2	9178.3	9774.7	10214.1	10329.2	9660.8	9716.6	11576.6
52.5°	11418.5	11393.0	10815.2	9532.9	9922.3	10746.6	11066.3	11186.0	10115.3	10000.2	11988.2
55°	12014.9	12039.3	11386.0	10016.5	10674.5	11701.0	12121.9	12006.8	10618.7	10522.2	12511.3
57.5°	12735.7	12714.8	12189.3	10773.3	11440.6	12589.2	12903.1	12718.3	11290.7	11239.5	13041.5
60°	13015.9	13043.8	12861.3	11587.1	12196.3	13367.0	13687.8	13400.7	12096.3	12073.0	13441.4
62.5°	12734.5	12891.5	13014.7	12311.4	12840.3	13938.9	14257.5	13929.6	12936.8	13105.4	13721.5
65°	12174.2	12207.9	12627.6	12925.2	13150.7	14033.1	14199.3	14025.0	13639.0	14045.9	13708.8
67.5°	11446.4	11475.5	11967.3	13126.3	12750.8	12963.6	13079.8	13028.7	13421.6	14367.9	13077.5
70°	10753.6	10730.3	11250.0	12613.6	11100.0	10776.8	10873.3	10712.9	11581.3	13580.9	11839.4
72.5°	9405.0	9488.7	10046.7	11188.4	8788.9	8263.4	8473.8	8058.8	8907.4	11631.3	9609.6
75°	7367.1	7386.8	8318.0	9389.9	6630.0	5801.1	6085.9	5912.7	6823.0	9702.6	6635.8
77.5°	5101.3	5057.1	6058.0	7171.8	4728.1	4246.8	4251.4	4168.9	4764.1	7143.9	4508.4
80°	3240.0	3172.6	3792.2	4430.5	3249.3	3476.0	3362.1	3358.6	3101.7	4407.2	2726.2
82.5°	1750.8	1825.2	2396.0	2777.3	2330.9	2686.6	2462.3	2390.2	2128.6	2758.7	1743.8
85°	797.5	867.3	1277.6	1889.1	1770.6	1790.3	1196.3	1411.3	1761.3	2240.2	931.2
87.5°	77.9	100.0	263.9	891.7	604.5	476.6	177.9	343.0	442.9	796.3	74.4
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°	5663.9	5663.9	5663.9	5663.9	5663.9	5663.9	5663.9	5663.9	5663.9	5663.9	5663.9
2.5°	6019.7	5959.2	5753.4	5583.7	5403.5	5266.3	5087.3	4967.6	4885.0	4760.6	4745.5
5°	5743.0	5595.3	5237.3	4872.2	4557.2	4320.0	4079.4	3858.5	3728.3	3687.6	3635.3
7.5°	5276.8	5028.0	4567.6	4149.1	3787.6	3434.2	3162.1	2969.1	2840.1	2764.5	2673.9
10°	4893.2	4604.8	4044.5	3531.8	3234.2	3014.5	2775.0	2568.1	2408.8	2272.8	2198.4
12.5°	4635.1	4309.6	3679.5	3263.3	3033.1	2799.4	2519.2	2286.7	2051.9	1897.3	1831.0
15°	4557.2	4213.1	3566.7	3129.6	2799.4	2493.7	2179.8	1876.4	1643.8	1497.4	1448.5
17.5°	4747.8	4331.6	3565.5	2951.7	2525.1	2160.0	1757.8	1472.9	1234.6	1125.3	1090.5
20°	5103.6	4559.5	3576.0	2776.2	2227.4	1713.6	1278.8	1045.1	931.2	884.7	867.3
22.5°	5600.0	4907.1	3607.4	2602.9	1901.9	1316.0	957.9	839.4	798.7	790.5	787.0
25°	6211.5	5337.3	3713.2	2447.2	1627.6	1004.4	801.0	747.5	724.3	716.1	715.0
27.5°	6774.2	5893.0	3841.1	2313.5	1362.5	866.1	724.3	678.9	655.7	654.5	656.8
30°	7282.2	6358.0	3948.0	2163.5	1161.4	769.6	674.3	628.9	606.8	605.7	612.7
32.5°	7721.6	6740.4	4027.1	2015.9	1049.8	710.3	628.9	580.1	561.5	558.0	561.5
35°	8191.3	7121.8	3991.0	1900.8	985.8	661.5	595.2	547.6	525.5	515.0	515.0
37.5°	8727.2	7514.7	3929.4	1805.4	956.8	620.8	566.2	519.7	497.6	487.1	485.9
40°	9312.0	7907.6	3844.5	1720.6	927.7	596.4	546.4	497.6	470.8	460.4	458.0
42.5°	9828.2	8243.6	3774.8	1664.8	880.0	601.0	529.0	481.3	447.6	433.6	432.5
45°	10276.9	8581.9	3762.0	1632.2	840.5	594.1	524.3	468.5	429.0	413.9	411.5
47.5°	10628.0	8934.2	3835.2	1613.6	797.5	556.9	554.5	460.4	412.7	396.4	394.1
50°	11055.8	9434.1	4002.6	1575.3	758.0	522.0	585.9	459.2	399.9	379.0	373.2
52.5°	11625.5	10085.1	4229.3	1506.7	701.0	489.4	559.2	459.2	384.8	363.9	356.9
55°	12486.9	10915.2	4451.4	1410.2	620.8	446.4	504.5	445.3	362.7	344.1	339.5
57.5°	13057.7	11522.0	4593.2	1276.5	520.8	415.0	434.8	423.2	340.6	320.9	320.9
60°	13086.8	11684.8	4525.8	1107.9	458.0	386.0	377.8	426.7	320.9	299.9	297.6
62.5°	12752.0	11286.0	4174.7	956.8	424.3	354.6	341.8	374.3	301.1	280.2	276.7
65°	12228.8	10268.8	3565.5	884.7	405.7	326.7	308.1	306.9	280.2	260.4	255.8
67.5°	11267.4	8973.7	2929.6	842.8	396.4	295.3	277.8	272.0	255.8	239.5	237.2
70°	9850.3	7515.9	2349.5	825.4	391.8	262.7	248.8	241.8	227.9	215.1	213.9
72.5°	7663.5	6096.4	1939.1	813.8	389.5	232.5	217.4	208.1	200.0	188.3	188.3
75°	5504.7	4485.1	1479.9	733.6	360.4	200.0	183.7	177.9	166.2	156.9	159.3
77.5°	3470.2	3020.3	974.2	539.4	279.0	160.4	146.5	143.0	133.7	120.9	129.0
80°	2343.7	2124.0	568.5	339.5	175.5	117.4	112.8	111.6	101.1	87.2	88.4
82.5°	1595.0	1564.8	295.3	193.0	101.1	68.6	66.3	68.6	57.0	46.5	46.5
85°	623.1	851.0	139.5	75.6	32.6	10.5	15.1	16.3	9.3	4.7	5.8
87.5°	11.6	87.2	3.5	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°	5663.9	5663.9	5663.9	5663.9	5663.9	5663.9	5663.9	5663.9	5663.9	5663.9	5663.9
2.5°	4722.3	4711.8	4729.2	4654.8	4670.0	4697.9	4711.8	4719.9	4835.0	4808.3	4881.5
5°	3684.1	3673.6	3741.1	3750.4	3785.3	3778.3	3812.0	3820.1	3862.0	3877.1	3979.4
7.5°	2679.7	2725.0	2801.7	2841.3	2900.6	2919.2	2901.7	2944.7	2857.5	2920.3	2938.9
10°	2153.0	2098.4	2065.8	2156.5	2168.2	2254.2	2219.3	2191.4	2242.6	2244.9	2293.7
12.5°	1792.6	1675.2	1597.3	1622.9	1650.8	1688.0	1693.8	1749.6	1786.8	1821.7	1850.8
15°	1405.5	1364.8	1293.9	1259.0	1298.6	1313.7	1349.7	1396.2	1435.7	1446.2	1485.7
17.5°	1078.8	1085.8	1074.2	1053.3	1077.7	1089.3	1091.6	1092.8	1103.3	1096.3	1154.4
20°	868.4	892.8	921.9	926.5	934.7	940.5	930.0	890.5	891.7	916.1	934.7
22.5°	785.9	790.5	823.1	833.5	859.1	848.7	818.4	799.8	797.5	803.3	812.6
25°	720.8	727.8	751.0	767.3	787.0	768.4	746.4	728.9	726.6	732.4	741.7
27.5°	662.7	673.1	694.0	710.3	728.9	711.5	690.6	675.4	674.3	673.1	678.9
30°	616.1	627.8	642.9	661.5	674.3	659.2	639.4	631.3	630.1	627.8	630.1
32.5°	569.6	588.2	603.4	612.7	625.5	613.8	598.7	594.1	585.9	578.9	575.5
35°	517.3	537.1	560.3	572.0	584.8	573.1	562.7	542.9	529.0	527.8	530.1
37.5°	487.1	495.2	513.8	533.6	546.4	540.6	520.8	501.1	497.6	497.6	499.9
40°	460.4	463.9	472.0	497.6	520.8	503.4	479.0	473.2	473.2	472.0	473.2
42.5°	433.6	437.1	437.1	456.9	494.1	466.2	447.6	447.6	447.6	448.7	452.2
45°	409.2	410.4	409.2	423.2	458.0	434.8	422.0	425.5	427.8	430.1	432.5
47.5°	388.3	389.5	388.3	399.9	417.4	408.1	401.1	405.7	410.4	413.9	416.2
50°	369.7	368.5	370.9	377.8	386.0	388.3	383.6	390.6	392.9	397.6	403.4
52.5°	353.4	352.3	354.6	358.1	369.7	369.7	369.7	375.5	380.2	384.8	392.9
55°	334.8	336.0	339.5	344.1	359.2	356.9	358.1	362.7	367.4	374.3	379.0
57.5°	317.4	319.7	324.4	331.3	346.4	345.3	346.4	348.8	354.6	358.1	362.7
60°	297.6	302.3	308.1	312.7	327.8	326.7	332.5	337.1	340.6	340.6	343.0
62.5°	277.8	284.8	290.6	294.1	310.4	311.6	319.7	323.2	325.5	323.2	326.7
65°	258.1	268.5	270.9	275.5	291.8	293.0	302.3	310.4	308.1	305.7	311.6
67.5°	238.3	251.1	249.9	255.8	272.0	274.4	282.5	296.4	291.8	289.5	294.1
70°	216.2	225.5	226.7	230.2	252.3	248.8	261.6	274.4	270.9	272.0	272.0
72.5°	191.8	200.0	200.0	206.9	230.2	224.4	234.8	248.8	248.8	247.6	247.6
75°	162.8	167.4	172.1	182.5	206.9	200.0	206.9	219.7	222.0	219.7	219.7
77.5°	131.4	138.3	140.7	154.6	172.1	170.9	177.9	183.7	188.3	186.0	186.0
80°	93.0	100.0	109.3	124.4	134.9	138.3	141.8	146.5	148.8	148.8	151.1
82.5°	52.3	62.8	70.9	86.0	90.7	108.1	107.0	110.4	107.0	94.2	104.6
85°	11.6	22.1	31.4	39.5	45.3	62.8	66.3	74.4	61.6	57.0	57.0
87.5°	0.0	0.0	0.0	0.0	0.0	9.3	18.6	25.6	22.1	18.6	18.6
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°	5663.9	5663.9	5663.9	5663.9	5663.9	5663.9	5663.9	5663.9	5663.9	5663.9
2.5°	4943.1	5044.3	5166.4	5376.8	5524.4	5683.7	5844.1	6015.0	6060.4	6106.9
5°	4007.3	4206.1	4314.2	4596.7	4893.2	5269.8	5577.9	5915.0	6055.7	6088.3
7.5°	3035.4	3170.3	3453.9	3739.9	4107.3	4502.5	4974.5	5500.0	5663.9	5732.5
10°	2406.5	2590.2	2838.9	3145.9	3467.9	3893.4	4425.8	5039.6	5272.2	5310.5
12.5°	2048.4	2253.0	2523.9	2848.2	3152.8	3473.7	4010.8	4644.4	4893.2	4975.7
15°	1638.0	1885.7	2198.4	2540.2	2871.5	3222.6	3766.7	4481.6	4768.8	4865.3
17.5°	1286.9	1486.9	1825.2	2196.1	2589.0	3033.1	3715.5	4559.5	4912.9	5002.4
20°	984.7	1127.7	1412.5	1804.3	2264.6	2845.9	3728.3	4853.6	5276.8	5398.9
22.5°	851.0	924.2	1097.4	1470.6	1985.6	2683.2	3780.6	5257.0	5767.4	5970.8
25°	770.8	809.1	906.8	1150.9	1719.4	2525.1	3900.3	5799.9	6453.3	6588.2
27.5°	702.2	730.1	790.5	966.1	1477.6	2378.6	4039.9	6402.1	7093.9	7295.0
30°	637.1	674.3	731.2	858.0	1323.0	2244.9	4215.4	6890.4	7633.3	7820.5
32.5°	587.1	624.3	676.6	782.4	1191.6	2104.2	4320.0	7319.4	8073.9	8233.2
35°	546.4	577.8	632.4	721.9	1091.6	1997.3	4299.1	7660.0	8500.5	8663.3
37.5°	517.3	544.1	598.7	665.0	1016.1	1885.7	4288.6	8109.9	9020.2	9208.5
40°	490.6	518.5	568.5	627.8	940.5	1754.3	4294.4	8556.3	9573.6	9761.9
42.5°	469.7	501.1	541.7	617.3	862.6	1648.5	4294.4	8944.6	10054.9	10236.2
45°	452.2	485.9	525.5	616.1	801.0	1568.3	4265.4	9278.3	10438.5	10593.1
47.5°	437.1	474.3	531.3	595.2	785.9	1510.1	4239.8	9545.7	10751.2	10896.6
50°	426.7	470.8	565.0	570.8	790.5	1492.7	4363.0	9882.8	11026.8	11152.3
52.5°	418.5	472.0	563.8	534.8	782.4	1504.3	4620.0	10409.4	11409.2	11418.5
55°	402.2	470.8	534.8	494.1	748.7	1524.1	4950.1	11174.4	12007.9	12014.9
57.5°	386.0	458.0	496.4	459.2	680.1	1524.1	5347.7	11898.7	12729.9	12735.7
60°	369.7	476.6	436.0	429.0	590.6	1496.2	5767.4	12217.2	12956.6	13015.9
62.5°	353.4	480.1	389.5	402.2	525.5	1428.8	6080.1	11865.0	12649.7	12734.5
65°	334.8	387.1	359.2	374.3	491.8	1316.0	5981.3	11219.7	12073.0	12174.2
67.5°	312.7	327.8	326.7	345.3	480.1	1149.8	5460.5	10403.6	11452.2	11446.4
70°	286.0	294.1	297.6	317.4	458.0	1020.7	4550.2	9344.6	10623.4	10753.6
72.5°	258.1	265.1	268.5	286.0	436.0	947.5	3531.8	7885.6	9201.6	9405.0
75°	227.9	232.5	237.2	252.3	412.7	839.4	2515.8	6019.7	7047.4	7367.1
77.5°	196.5	196.5	202.3	217.4	347.6	692.9	1688.0	4222.4	4774.6	5101.3
80°	159.3	160.4	158.1	174.4	255.8	474.3	959.1	2820.3	3177.2	3240.0
82.5°	122.1	118.6	119.7	127.9	190.7	323.2	511.5	1752.0	1785.7	1750.8
85°	76.7	76.7	74.4	83.7	122.1	168.6	279.0	1073.0	838.2	797.5
87.5°	31.4	25.6	29.1	33.7	58.1	68.6	109.3	220.9	84.9	77.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)