

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: P456612

Luminaire Tested: **GALN-SA7D-827-U-SLL**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456612
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-SA7D-827-U-SLL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 2700K, 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: 34143 lumens
Efficiency: N/A
Efficacy: 78.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

Input Watts (W): 433
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

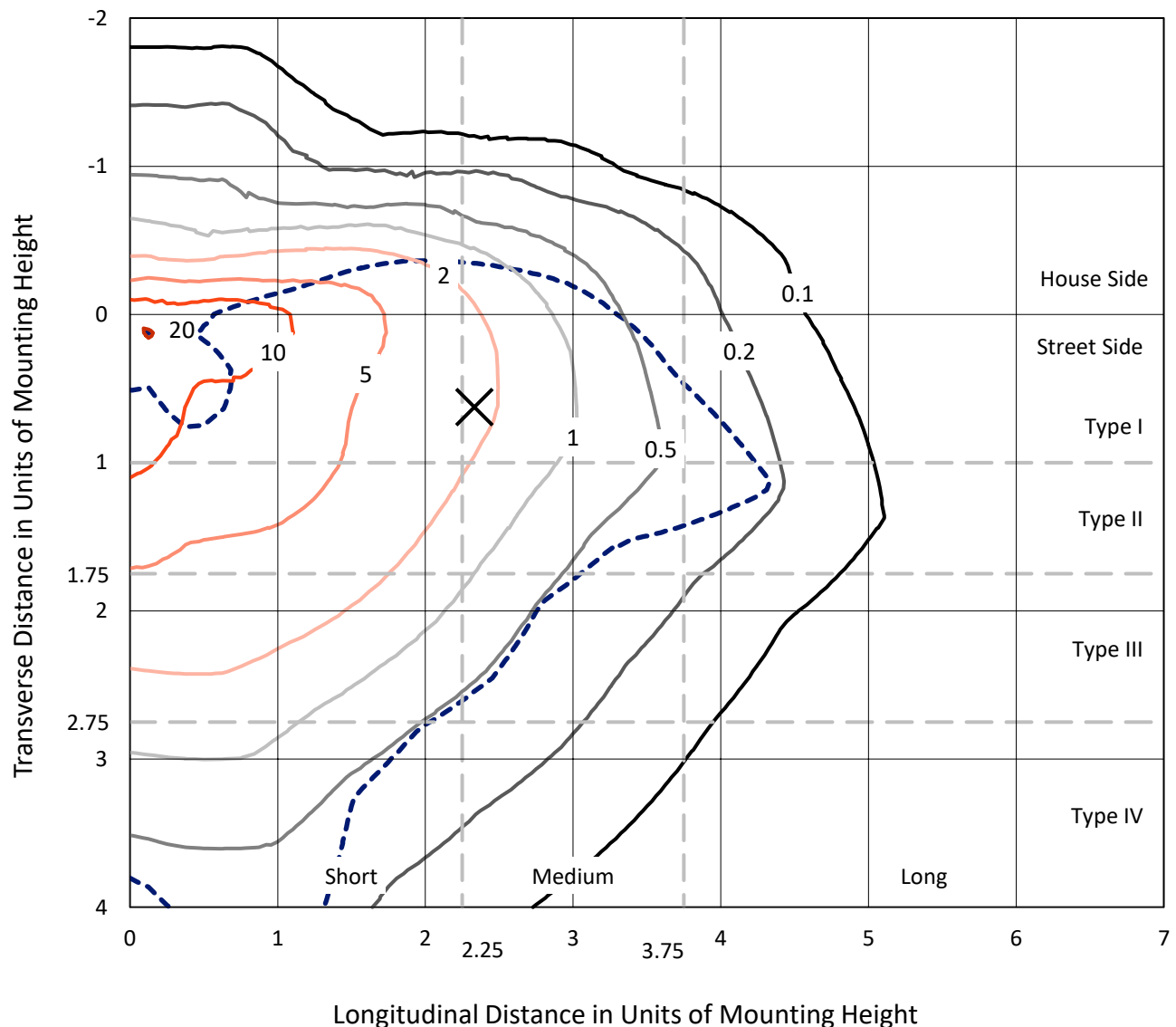


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Iso-Footcandle Lines of Horizontal Illumination

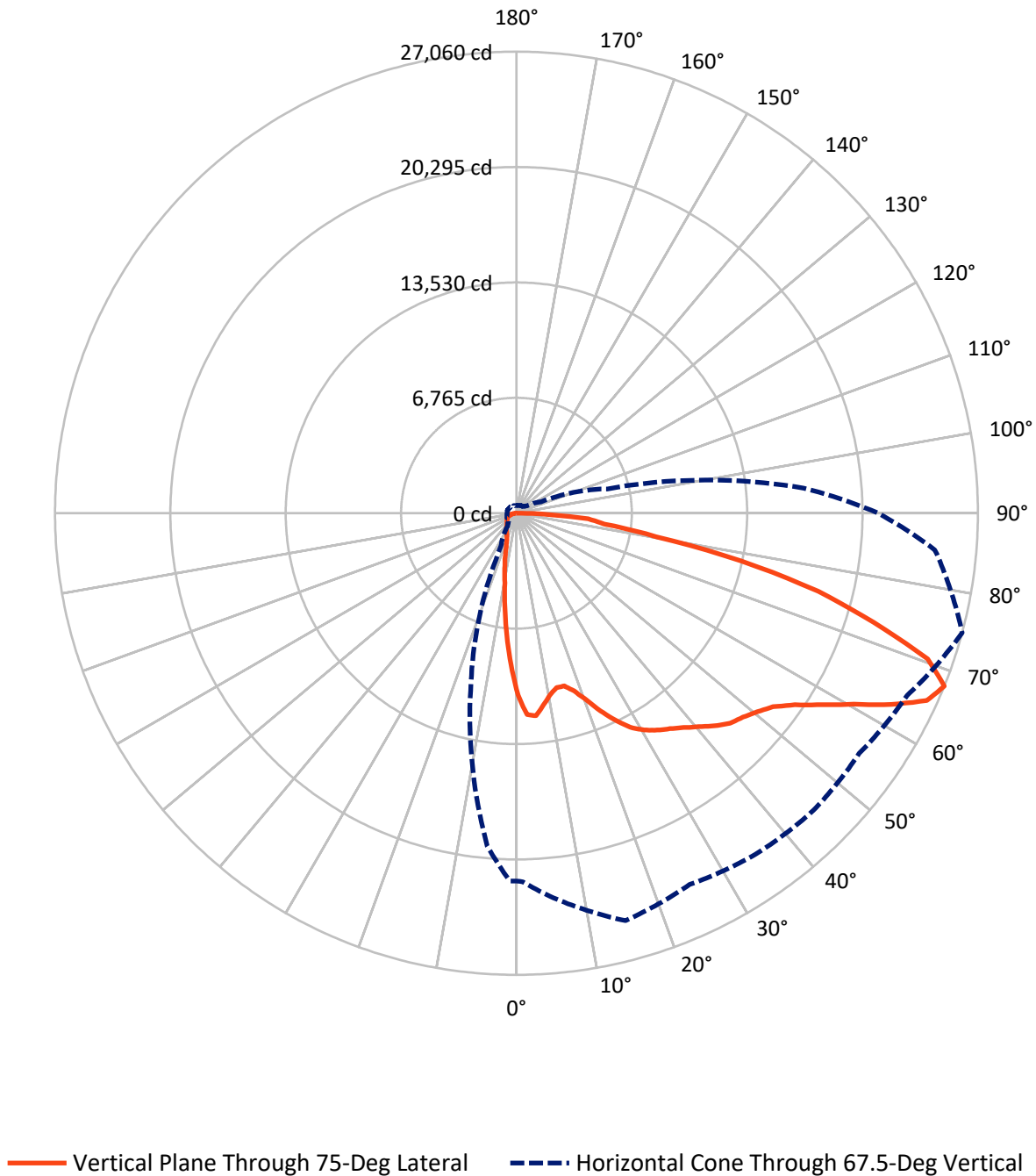
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 21 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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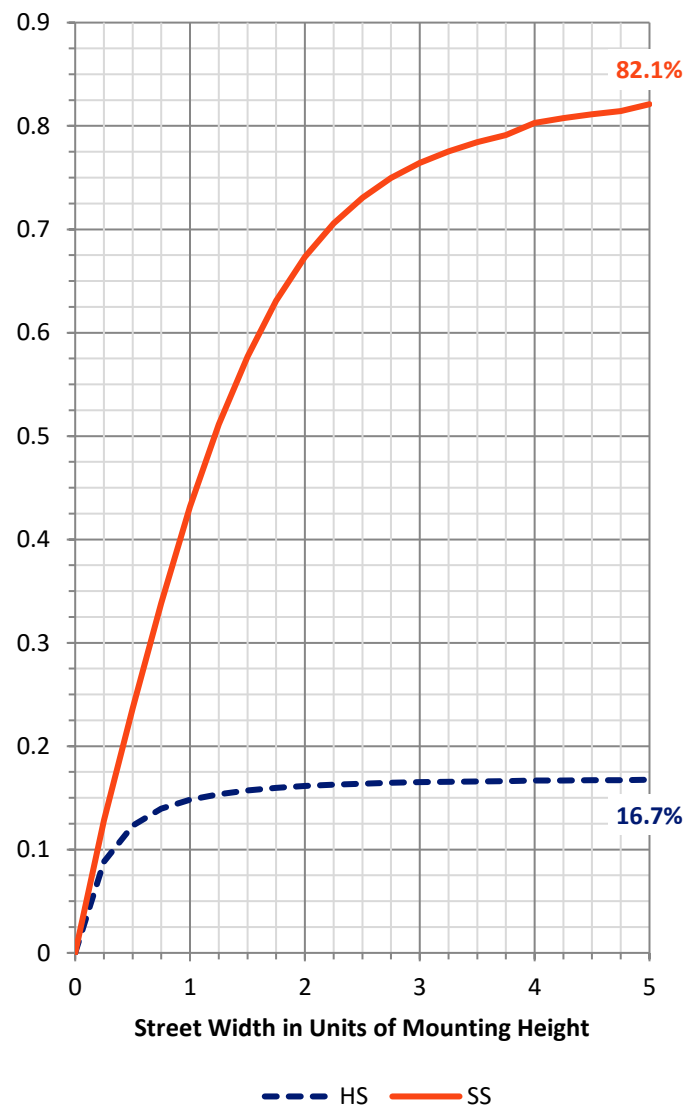
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5770.9	0.0	5770.9
	% Fixture	16.9	0.0	16.9
Street Side	Lumens	28372.1	0.0	28372.1
	% Fixture	83.1	0.0	83.1
Total	Lumens	34143.0	0.0	34143.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	809.1	2.4
10°-20°	1687.3	4.9
20°-30°	2428.1	7.1
30°-40°	3497.1	10.2
40°-50°	4912.5	14.4
50°-60°	6851.3	20.1
60°-70°	8145.7	23.9
70°-80°	4797.4	14.1
80°-90°	1014.5	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°	34143.0	100.0
0°-180°	34143.0	100.0

Coefficient of Utilization



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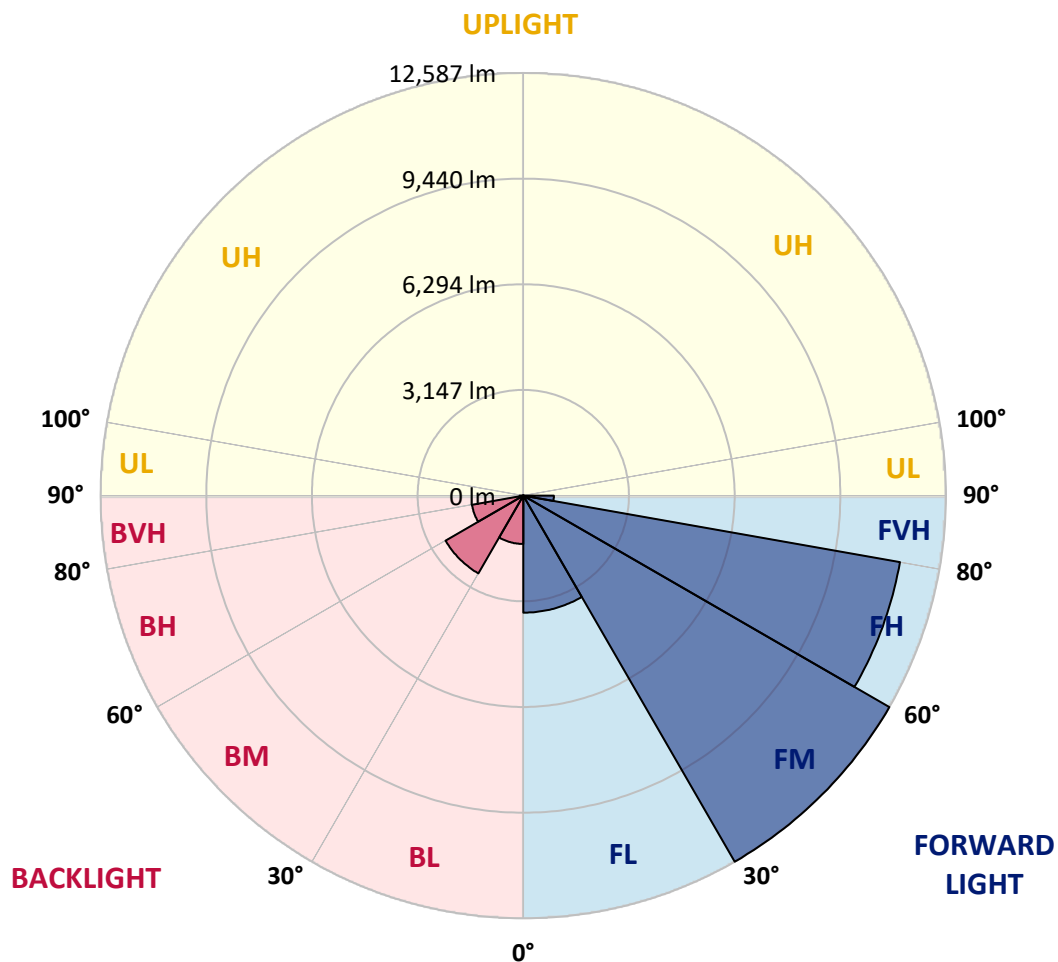
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3485.1	10.2			
FM	(30°-60°)	12587.3	36.9			
FH	(60°-80°)	11390.2	33.4			G4/12000
FVH	(80°-90°)	909.5	2.7			G5
BL	(0°-30°)	1439.4	4.2	B3/2500		
BM	(30°-60°)	2673.7	7.8	B3/5000		
BH	(60°-80°)	1552.8	4.5	B3/2500		G3/2500
BVH	(80°-90°)	104.9	0.3			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	10667.1	10667.1	10667.1	10667.1	10667.1	10667.1	10667.1	10667.1	10667.1	10667.1	10667.1
2.5°	11501.3	11516.6	11615.1	11901.9	12099.0	12171.2	12221.6	12127.5	12035.5	11812.2	11475.0
5°	11466.2	11556.0	11812.2	12455.9	12963.8	13182.8	13248.5	12966.0	12499.7	11926.0	11236.3
7.5°	10796.3	10916.7	11310.8	12390.2	13285.7	13798.0	13730.1	13220.0	12379.2	11356.8	10393.4
10°	10001.5	10135.0	10610.2	11915.1	13068.9	13773.9	13773.9	13152.1	12035.5	10820.3	9710.3
12.5°	9370.9	9511.0	10054.0	11426.8	12617.9	13285.7	13397.3	12863.1	11788.1	10481.0	9261.4
15°	9162.9	9298.7	9883.3	11131.2	12140.6	12547.8	12585.1	12409.9	11667.7	10505.1	9241.7
17.5°	9421.3	9596.4	10187.6	11218.8	11702.7	11726.8	11755.2	11893.2	11680.8	10945.1	9640.2
20°	10167.9	10356.2	10973.6	11501.3	11319.5	11069.9	11085.3	11440.0	11836.3	11672.0	10592.6
22.5°	11245.1	11409.3	12042.1	11998.3	11157.5	10643.0	10535.7	11030.5	12066.2	12578.5	11606.4
25°	12407.7	12600.4	13327.3	12736.1	11203.5	10389.0	10321.1	10789.7	12304.8	13425.8	12777.7
27.5°	13738.9	13927.2	14500.8	13480.5	11444.3	10369.3	10288.3	10767.8	12519.4	14209.6	13896.5
30°	14728.5	14901.5	15291.2	14106.7	11739.9	10500.7	10400.0	10940.8	12703.3	14746.1	14986.9
32.5°	15505.8	15685.3	15897.7	14496.5	12129.6	10739.3	10553.2	11256.0	12944.1	15155.5	15794.8
35°	16315.9	16528.3	16513.0	14842.4	12493.1	11015.2	10833.5	11711.5	13322.9	15512.4	16819.5
37.5°	17342.8	17428.2	17318.7	15153.3	12928.8	11512.2	11411.5	12388.0	13861.5	15943.7	18017.1
40°	18385.0	18555.7	17993.0	15529.9	13458.7	12447.1	12436.2	13388.6	14500.8	16449.5	19177.5
42.5°	19278.3	19422.8	18623.6	15858.3	14100.2	13587.8	13671.0	14730.7	15339.4	17036.2	20110.3
45°	19950.4	20079.6	19206.0	16175.8	14945.3	14905.9	15396.3	16169.2	16396.9	17563.9	20657.6
47.5°	20521.9	20646.7	19611.1	16657.5	15989.7	16480.1	17334.0	17669.0	17301.2	17866.0	21270.7
50°	21003.6	21040.8	19889.1	17231.1	17285.8	18409.0	19236.7	19453.4	18194.5	18299.6	21802.7
52.5°	21504.9	21456.8	20368.6	17953.6	18687.1	20239.4	20841.5	21067.0	19050.5	18833.8	22577.8
55°	22628.1	22674.1	21443.6	18864.4	20103.7	22037.0	22829.6	22612.8	19998.6	19816.9	23563.0
57.5°	23985.6	23946.2	22956.6	20289.8	21546.5	23709.7	24300.9	23952.8	21264.1	21167.8	24561.4
60°	24513.3	24565.8	24222.1	21822.4	22969.7	25174.5	25778.8	25238.0	22781.4	22737.6	25314.6
62.5°	23983.4	24279.0	24511.1	23186.5	24182.7	26251.7	26851.6	26234.2	24364.4	24681.9	25842.3
65°	22928.1	22991.6	23782.0	24342.5	24767.2	26429.1	26742.1	26413.7	25686.8	26453.1	25818.2
67.5°	21557.5	21612.2	22538.4	24721.3	24014.1	24414.7	24633.7	24537.4	25277.4	27059.6	24629.3
70°	20252.6	20208.8	21187.5	23755.7	20905.0	20296.4	20478.1	20175.9	21811.5	25577.3	22297.5
72.5°	17712.8	17870.4	18921.4	21071.4	16552.4	15562.7	15959.0	15177.4	16775.7	21905.6	18098.1
75°	13874.6	13911.9	15665.6	17684.3	12486.5	10925.4	11461.9	11135.6	12850.0	18273.3	12497.5
77.5°	9607.4	9524.2	11409.3	13506.8	8904.6	7998.1	8006.9	7851.4	8972.4	13454.3	8490.8
80°	6102.0	5975.1	7142.0	8344.1	6119.6	6546.5	6331.9	6325.4	5841.5	8300.3	5134.3
82.5°	3297.3	3437.5	4512.5	5230.6	4389.9	5059.9	4637.3	4501.5	4008.9	5195.6	3284.2
85°	1502.0	1633.3	2406.2	3557.9	3334.6	3371.8	2253.0	2658.0	3317.0	4219.1	1753.8
87.5°	146.7	188.3	497.0	1679.3	1138.5	897.7	335.0	645.9	834.2	1499.8	140.1
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°	10667.1	10667.1	10667.1	10667.1	10667.1	10667.1	10667.1	10667.1	10667.1	10667.1	10667.1
2.5°	11337.1	11223.2	10835.7	10516.0	10176.6	9918.3	9581.1	9355.6	9200.1	8965.9	8937.4
5°	10816.0	10537.9	9863.5	9176.1	8582.7	8136.1	7682.8	7266.8	7021.6	6945.0	6846.5
7.5°	9938.0	9469.4	8602.4	7814.2	7133.3	6467.7	5955.3	5591.9	5348.9	5206.6	5035.8
10°	9215.5	8672.5	7617.2	6651.6	6091.1	5677.3	5226.3	4836.5	4536.6	4280.4	4140.3
12.5°	8729.4	8116.4	6929.7	6145.8	5712.3	5272.2	4744.6	4306.7	3864.4	3573.2	3448.4
15°	8582.7	7934.6	6717.3	5894.0	5272.2	4696.4	4105.2	3533.8	3095.9	2820.0	2728.1
17.5°	8941.8	8158.0	6715.1	5559.1	4755.5	4068.0	3310.5	2774.1	2325.2	2119.4	2053.7
20°	9611.8	8587.1	6734.8	5228.4	4195.0	3227.3	2408.4	1968.3	1753.8	1666.2	1633.3
22.5°	10546.7	9241.7	6793.9	4902.2	3582.0	2478.5	1804.1	1580.8	1504.2	1488.8	1482.3
25°	11698.3	10051.8	6993.2	4608.8	3065.3	1891.7	1508.5	1407.8	1364.0	1348.7	1346.5
27.5°	12758.0	11098.4	7234.0	4357.0	2566.1	1631.2	1364.0	1278.6	1234.9	1232.7	1237.0
30°	13714.8	11974.2	7435.4	4074.6	2187.3	1449.4	1269.9	1184.5	1142.9	1140.7	1153.8
32.5°	14542.4	12694.5	7584.3	3796.5	1977.1	1337.8	1184.5	1092.5	1057.5	1050.9	1057.5
35°	15427.0	13412.7	7516.4	3579.8	1856.7	1245.8	1121.0	1031.2	989.6	969.9	969.9
37.5°	16436.3	14152.7	7400.4	3400.2	1801.9	1169.2	1066.3	978.7	937.1	917.4	915.2
40°	17537.6	14892.8	7240.6	3240.4	1747.2	1123.2	1029.0	937.1	886.7	867.0	862.6
42.5°	18509.8	15525.5	7109.2	3135.3	1657.4	1132.0	996.2	906.4	842.9	816.7	814.5
45°	19354.9	16162.6	7085.1	3074.0	1583.0	1118.8	987.4	882.4	807.9	779.5	775.1
47.5°	20016.1	16826.1	7223.1	3039.0	1502.0	1048.8	1044.4	867.0	777.3	746.6	742.2
50°	20821.8	17767.5	7538.3	2966.7	1427.5	983.1	1103.5	864.8	753.2	713.8	702.8
52.5°	21894.7	18993.6	7965.3	2837.5	1320.2	921.8	1053.1	864.8	724.7	685.3	672.2
55°	23517.1	20556.9	8383.5	2655.8	1169.2	840.8	950.2	838.6	683.1	648.1	639.3
57.5°	24592.1	21699.8	8650.6	2404.0	980.9	781.6	818.9	797.0	641.5	604.3	604.3
60°	24646.8	22006.3	8523.6	2086.6	862.6	726.9	711.6	803.5	604.3	564.9	560.5
62.5°	24016.3	21255.3	7862.4	1801.9	799.2	667.8	643.7	705.0	567.1	527.7	521.1
65°	23031.0	19339.6	6715.1	1666.2	764.1	615.2	580.2	578.0	527.7	490.4	481.7
67.5°	21220.3	16900.5	5517.5	1587.4	746.6	556.1	523.3	512.3	481.7	451.0	446.7
70°	18551.4	14154.9	4424.9	1554.5	737.9	494.8	468.5	455.4	429.1	405.1	402.9
72.5°	14433.0	11481.6	3652.0	1532.6	733.5	437.9	409.4	391.9	376.6	354.7	354.7
75°	10367.1	8447.0	2787.2	1381.6	678.7	376.6	345.9	335.0	313.1	295.6	300.0
77.5°	6535.6	5688.2	1834.8	1015.9	525.5	302.1	275.9	269.3	251.8	227.7	243.0
80°	4414.0	4000.2	1070.6	639.3	330.6	221.1	212.4	210.2	190.5	164.2	166.4
82.5°	3003.9	2947.0	556.1	363.5	190.5	129.2	124.8	129.2	107.3	87.6	87.6
85°	1173.6	1602.7	262.7	142.3	61.3	19.7	28.5	30.7	17.5	8.8	10.9
87.5°	21.9	164.2	6.6	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°	10667.1	10667.1	10667.1	10667.1	10667.1	10667.1	10667.1	10667.1	10667.1	10667.1	10667.1
2.5°	8893.6	8873.9	8906.8	8766.6	8795.1	8847.6	8873.9	8889.2	9106.0	9055.6	9193.6
5°	6938.4	6918.7	7045.7	7063.2	7128.9	7115.8	7179.3	7194.6	7273.4	7301.9	7494.5
7.5°	5046.7	5132.1	5276.6	5351.1	5462.7	5497.8	5464.9	5545.9	5381.7	5499.9	5535.0
10°	4054.9	3952.0	3890.7	4061.5	4083.4	4245.4	4179.7	4127.1	4223.5	4227.9	4319.8
12.5°	3376.2	3155.0	3008.3	3056.5	3109.0	3179.1	3190.1	3295.1	3365.2	3430.9	3485.6
15°	2647.1	2570.4	2436.9	2371.2	2445.6	2474.1	2542.0	2629.5	2704.0	2723.7	2798.1
17.5°	2031.8	2045.0	2023.1	1983.7	2029.6	2051.5	2055.9	2058.1	2077.8	2064.7	2174.1
20°	1635.5	1681.5	1736.2	1745.0	1760.3	1771.3	1751.6	1677.1	1679.3	1725.3	1760.3
22.5°	1480.1	1488.8	1550.1	1569.8	1618.0	1598.3	1541.4	1506.4	1502.0	1512.9	1530.4
25°	1357.5	1370.6	1414.4	1445.0	1482.3	1447.2	1405.6	1372.8	1368.4	1379.4	1396.9
27.5°	1248.0	1267.7	1307.1	1337.8	1372.8	1340.0	1300.5	1272.1	1269.9	1267.7	1278.6
30°	1160.4	1182.3	1210.8	1245.8	1269.9	1241.4	1204.2	1188.9	1186.7	1182.3	1186.7
32.5°	1072.8	1107.9	1136.3	1153.8	1177.9	1156.0	1127.6	1118.8	1103.5	1090.4	1083.8
35°	974.3	1011.5	1055.3	1077.2	1101.3	1079.4	1059.7	1022.5	996.2	994.0	998.4
37.5°	917.4	932.7	967.7	1005.0	1029.0	1018.1	980.9	943.7	937.1	937.1	941.5
40°	867.0	873.6	888.9	937.1	980.9	948.0	902.1	891.1	891.1	888.9	891.1
42.5°	816.7	823.2	823.2	860.5	930.5	878.0	842.9	842.9	842.9	845.1	851.7
45°	770.7	772.9	770.7	797.0	862.6	818.9	794.8	801.3	805.7	810.1	814.5
47.5°	731.3	733.5	731.3	753.2	786.0	768.5	755.4	764.1	772.9	779.5	783.8
50°	696.3	694.1	698.4	711.6	726.9	731.3	722.5	735.7	740.0	748.8	759.7
52.5°	665.6	663.4	667.8	674.4	696.3	696.3	696.3	707.2	716.0	724.7	740.0
55°	630.6	632.8	639.3	648.1	676.5	672.2	674.4	683.1	691.9	705.0	713.8
57.5°	597.7	602.1	610.9	624.0	652.5	650.3	652.5	656.8	667.8	674.4	683.1
60°	560.5	569.3	580.2	589.0	617.4	615.2	626.2	634.9	641.5	641.5	645.9
62.5°	523.3	536.4	547.4	553.9	584.6	586.8	602.1	608.7	613.1	608.7	615.2
65°	486.1	505.8	510.1	518.9	549.6	551.7	569.3	584.6	580.2	575.8	586.8
67.5°	448.8	472.9	470.7	481.7	512.3	516.7	532.0	558.3	549.6	545.2	553.9
70°	407.2	424.8	426.9	433.5	475.1	468.5	492.6	516.7	510.1	512.3	512.3
72.5°	361.3	376.6	376.6	389.7	433.5	422.6	442.3	468.5	468.5	466.4	466.4
75°	306.5	315.3	324.0	343.7	389.7	376.6	389.7	413.8	418.2	413.8	413.8
77.5°	247.4	260.5	264.9	291.2	324.0	321.9	335.0	345.9	354.7	350.3	350.3
80°	175.2	188.3	205.8	234.3	254.0	260.5	267.1	275.9	280.3	280.3	284.6
82.5°	98.5	118.2	133.6	162.0	170.8	203.6	201.4	208.0	201.4	177.3	197.1
85°	21.9	41.6	59.1	74.4	85.4	118.2	124.8	140.1	116.0	107.3	107.3
87.5°	0.0	0.0	0.0	0.0	0.0	17.5	35.0	48.2	41.6	35.0	35.0
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°	10667.1	10667.1	10667.1	10667.1	10667.1	10667.1	10667.1	10667.1	10667.1	10667.1
2.5°	9309.6	9500.1	9730.0	10126.3	10404.3	10704.3	11006.4	11328.3	11413.7	11501.3
5°	7547.1	7921.5	8125.1	8657.2	9215.5	9924.9	10505.1	11140.0	11404.9	11466.2
7.5°	5716.7	5970.7	6504.9	7043.5	7735.4	8479.8	9368.7	10358.4	10667.1	10796.3
10°	4532.2	4878.1	5346.7	5924.7	6531.2	7332.5	8335.3	9491.3	9929.2	10001.5
12.5°	3857.8	4243.2	4753.3	5364.2	5937.8	6542.1	7553.7	8746.9	9215.5	9370.9
15°	3085.0	3551.3	4140.3	4784.0	5408.0	6069.2	7093.9	8440.4	8981.2	9162.9
17.5°	2423.7	2800.3	3437.5	4135.9	4875.9	5712.3	6997.5	8587.1	9252.7	9421.3
20°	1854.5	2123.8	2660.2	3398.1	4265.1	5359.8	7021.6	9141.0	9938.0	10167.9
22.5°	1602.7	1740.6	2066.9	2769.7	3739.6	5053.3	7120.1	9900.8	10861.9	11245.1
25°	1451.6	1523.9	1707.8	2167.6	3238.2	4755.5	7345.7	10923.2	12153.7	12407.7
27.5°	1322.4	1375.0	1488.8	1819.4	2782.8	4479.6	7608.4	12057.4	13360.1	13738.9
30°	1199.8	1269.9	1377.2	1615.8	2491.6	4227.9	7939.0	12977.0	14376.0	14728.5
32.5°	1105.7	1175.7	1274.3	1473.5	2244.2	3962.9	8136.1	13784.9	15205.8	15505.8
35°	1029.0	1088.2	1191.1	1359.7	2055.9	3761.5	8096.6	14426.4	16009.4	16315.9
37.5°	974.3	1024.7	1127.6	1252.4	1913.6	3551.3	8076.9	15273.7	16988.1	17342.8
40°	924.0	976.5	1070.6	1182.3	1771.3	3303.9	8087.9	16114.5	18030.3	18385.0
42.5°	884.5	943.7	1020.3	1162.6	1624.6	3104.7	8087.9	16845.8	18936.7	19278.3
45°	851.7	915.2	989.6	1160.4	1508.5	2953.6	8033.2	17474.1	19659.2	19950.4
47.5°	823.2	893.3	1000.6	1121.0	1480.1	2844.1	7985.0	17977.7	20248.2	20521.9
50°	803.5	886.7	1064.1	1075.0	1488.8	2811.3	8217.1	18612.7	20767.1	21003.6
52.5°	788.2	888.9	1061.9	1007.2	1473.5	2833.2	8700.9	19604.5	21487.4	21504.9
55°	757.6	886.7	1007.2	930.5	1410.0	2870.4	9322.7	21045.2	22615.0	22628.1
57.5°	726.9	862.6	934.9	864.8	1280.8	2870.4	10071.5	22409.2	23974.7	23985.6
60°	696.3	897.7	821.0	807.9	1112.2	2817.8	10861.9	23009.1	24401.6	24513.3
62.5°	665.6	904.2	733.5	757.6	989.6	2690.9	11450.9	22345.7	23823.6	23983.4
65°	630.6	729.1	676.5	705.0	926.1	2478.5	11264.8	21130.5	22737.6	22928.1
67.5°	589.0	617.4	615.2	650.3	904.2	2165.4	10283.9	19593.5	21568.4	21557.5
70°	538.6	553.9	560.5	597.7	862.6	1922.4	8569.6	17598.9	20007.3	20252.6
72.5°	486.1	499.2	505.8	538.6	821.0	1784.4	6651.6	14851.2	17329.6	17712.8
75°	429.1	437.9	446.7	475.1	777.3	1580.8	4738.0	11337.1	13272.5	13874.6
77.5°	370.0	370.0	381.0	409.4	654.7	1304.9	3179.1	7952.1	8992.1	9607.4
80°	300.0	302.1	297.8	328.4	481.7	893.3	1806.3	5311.6	5983.8	6102.0
82.5°	229.9	223.3	225.5	240.8	359.1	608.7	963.4	3299.5	3363.0	3297.3
85°	144.5	144.5	140.1	157.6	229.9	317.5	525.5	2020.9	1578.6	1502.0
87.5°	59.1	48.2	54.7	63.5	109.5	129.2	205.8	416.0	159.8	146.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)