

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: P459540

Luminaire Tested: **GALN-SA9D-735-U-SLL-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P459540
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-SA9D-735-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3500K, 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: 46917 lumens
Efficiency: N/A
Efficacy: 85.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

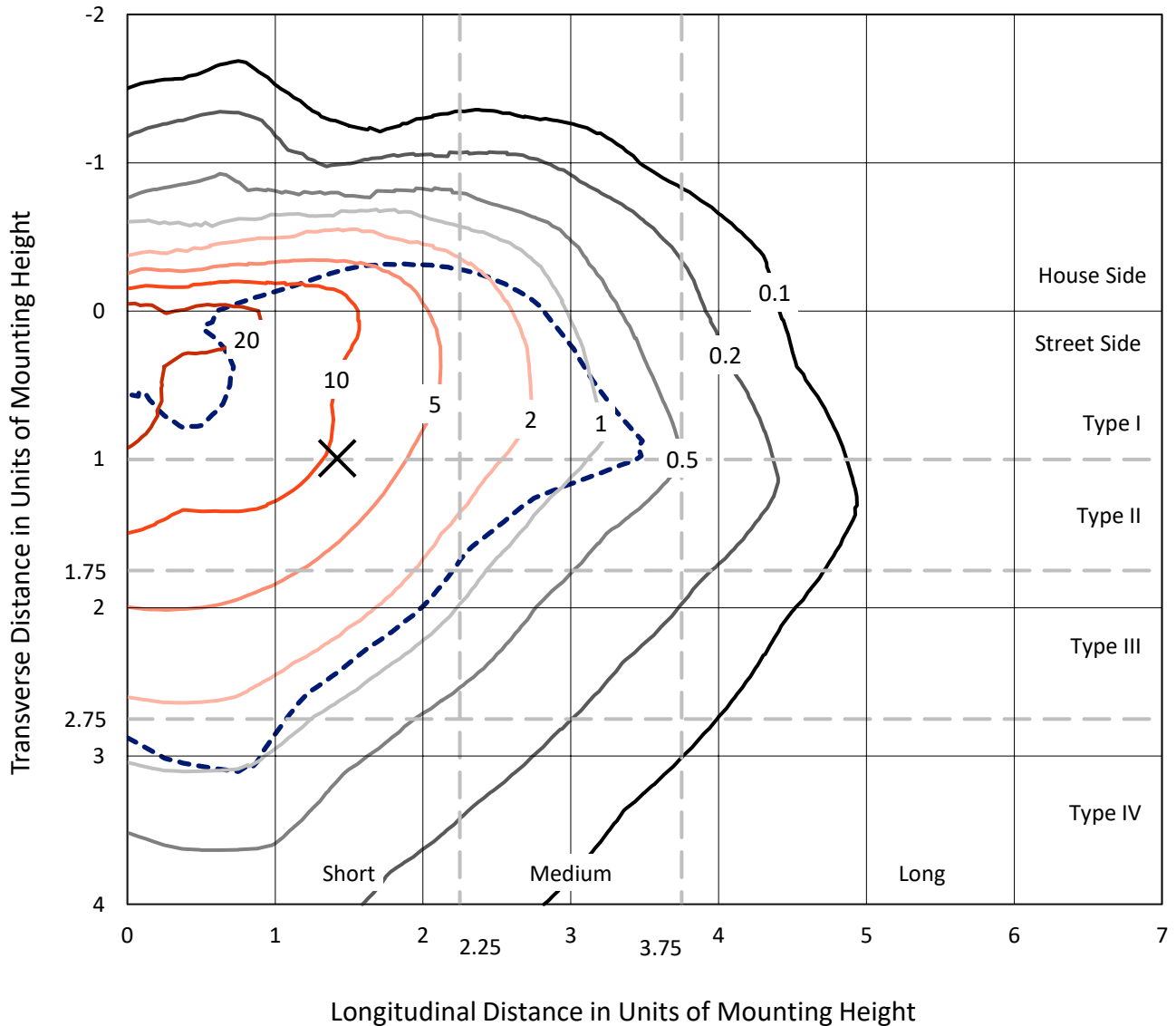
Input Watts (W): 552
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

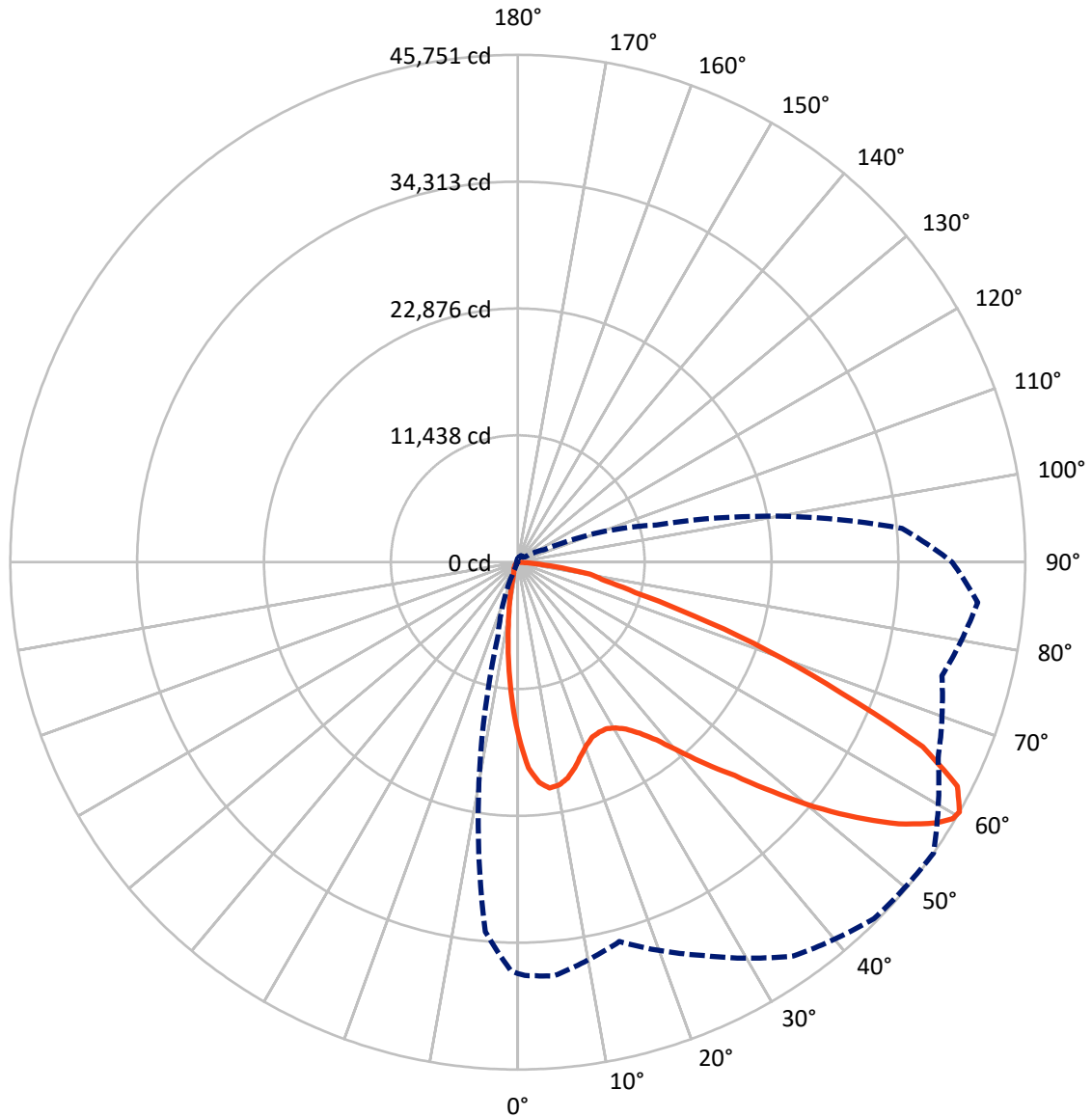
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 32.8 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	6962.9	0.0	6962.9
	% Fixture	14.8	0.0	14.8
Street Side	Lumens	39954.1	0.0	39954.1
	% Fixture	85.2	0.0	85.2
Total	Lumens	46917.0	0.0	46917.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1176.4	2.5
10°-20°	2316.6	4.9
20°-30°	3428.9	7.3
30°-40°	5111.2	10.9
40°-50°	7485.4	16.0
50°-60°	10806.5	23.0
60°-70°	11367.9	24.2
70°-80°	4676.4	10.0
80°-90°	547.7	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°	46917.0	100.0
0°-180°	46917.0	100.0



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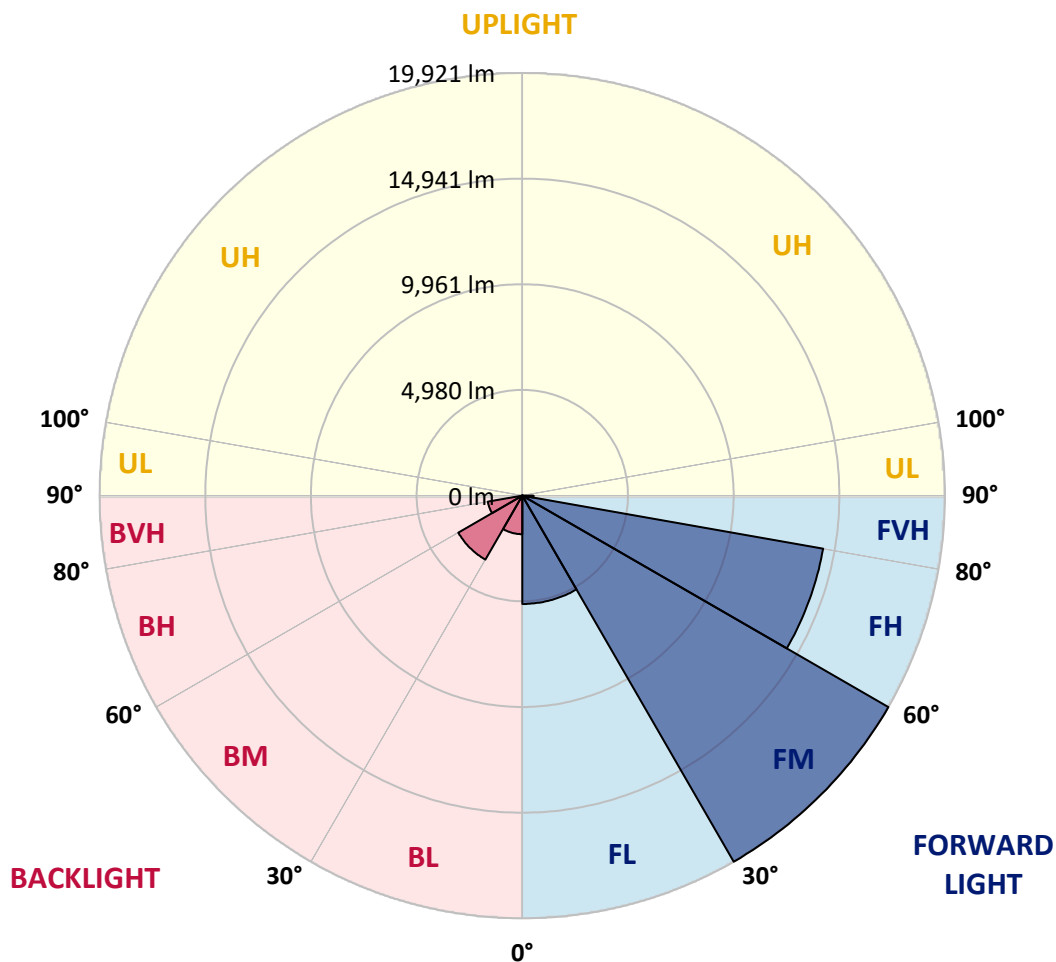
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	5105.2	10.9			
FM	(30°-60°)	19921.0	42.5			
FH	(60°-80°)	14396.3	30.7			G5
FVH	(80°-90°)	531.6	1.1			G4/750
BL	(0°-30°)	1816.6	3.9	B3/2500		
BM	(30°-60°)	3482.1	7.4	B3/5000		
BH	(60°-80°)	1648.1	3.5	B3/2500		G3/2500
BVH	(80°-90°)	16.1	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-G5

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	15886.0	15886.0	15886.0	15886.0	15886.0	15886.0	15886.0	15886.0	15886.0	15886.0	15886.0
2.5°	17355.8	17326.9	17583.3	18002.2	18424.7	18645.0	18601.6	18583.6	18233.3	17976.9	17438.8
5°	17319.6	17467.7	17926.3	19060.3	19919.8	20335.0	20457.8	19941.4	19258.9	18269.4	17048.8
7.5°	16283.2	16467.4	17214.9	18988.0	20515.6	21418.4	21385.9	20558.9	19150.6	17619.4	15878.7
10°	14997.6	15214.3	16091.8	18244.1	20226.7	21418.4	21483.4	20436.2	18684.7	16720.2	14889.3
12.5°	14091.2	14347.6	15319.0	17550.8	19482.8	20656.5	20732.3	19973.9	18334.4	16373.5	14351.2
15°	13784.2	14026.2	15012.0	17200.5	18691.9	19323.9	19305.8	19226.4	18197.2	16456.5	14380.1
17.5°	14311.5	14510.1	15622.3	17359.4	17951.6	17886.6	17980.5	18363.3	18226.1	17153.5	15290.1
20°	15672.9	15875.1	17070.5	17846.9	17384.6	16973.0	17016.3	17655.5	18493.3	18464.4	16712.9
22.5°	17547.1	17890.2	18973.6	18793.0	17308.8	16406.0	16315.7	17146.3	18948.3	19973.9	18634.1
25°	19919.8	20266.4	21111.5	20302.5	17680.8	16272.4	16189.3	16991.0	19500.8	21447.3	20797.3
27.5°	21913.2	22176.8	23018.2	21772.3	18229.7	16330.2	16192.9	17012.7	19948.6	22700.4	22621.0
30°	23509.4	23704.4	24199.1	22458.5	18702.8	16582.9	16424.0	17330.5	20147.3	23310.7	24098.0
32.5°	24795.0	25123.6	25278.9	23191.6	19381.7	17059.6	16788.8	17940.8	20631.2	24065.5	25647.2
35°	26264.7	26643.9	26445.3	23892.1	20277.3	17803.5	17471.3	18930.3	21364.3	24762.5	27445.6
37.5°	28128.2	28565.1	27788.7	24628.8	21223.4	18923.0	18767.8	20320.6	22476.5	25759.2	29374.1
40°	30056.6	30309.4	29092.4	25524.4	22386.2	20551.7	20699.8	22386.2	23931.9	26954.5	31425.3
42.5°	31562.5	31800.8	30432.2	26275.6	23574.4	22483.8	23101.3	24878.0	25600.3	28178.7	32956.4
45°	32714.5	32916.7	31360.2	27095.3	25177.8	25282.5	26448.9	27445.6	27272.3	28926.3	34137.3
47.5°	33610.1	33783.4	32075.3	27976.5	27579.3	28706.0	30489.9	30912.5	29005.7	29735.2	35206.2
50°	33978.4	34029.0	32299.2	29099.6	30305.8	33068.4	34928.2	34671.8	30991.9	30634.4	36343.8
52.5°	34458.7	34447.9	32938.4	30168.5	32869.8	36968.5	38824.7	38243.3	33238.1	31981.4	37622.2
55°	35719.0	35733.5	34307.0	31685.3	35054.6	40117.6	42103.8	41681.3	35607.1	34256.5	39113.6
57.5°	37250.2	37304.4	36253.5	33458.4	37141.9	42399.9	44552.2	44389.7	38810.3	36788.0	40522.0
59°	37448.8	37557.2	37174.4	34707.9	38380.6	43100.5	45390.0	45548.9	40525.6	38456.4	41284.0
60°	37087.7	37268.3	37441.6	35415.7	39106.4	43353.3	45440.6	45751.1	41814.9	39590.3	41630.7
62.5°	35513.2	35798.5	36668.8	37593.3	40012.8	42566.0	43826.3	44476.4	43411.0	42569.6	41663.2
65°	33451.2	33599.2	34856.0	37979.7	38254.2	38889.7	39279.8	40114.0	41493.5	43718.0	40171.7
67.5°	30071.0	30508.0	32046.4	35737.1	33064.8	32313.6	32216.1	31385.5	34967.9	40980.7	36495.5
70°	24841.9	25036.9	26932.8	29298.2	24953.9	23798.3	24260.5	23949.9	27106.2	35278.5	29374.1
72.5°	18785.8	19226.4	21079.0	23354.1	16980.2	15481.5	16756.3	16640.7	20360.3	28352.1	20179.8
75°	13365.3	13650.6	16012.4	18276.6	11891.9	10075.4	10534.1	10963.8	14213.9	22386.2	11924.4
77.5°	9183.5	9429.0	11202.2	12086.9	8674.3	8309.5	7601.7	8017.0	9313.5	13282.2	6489.4
80°	5539.7	5528.9	6695.3	6912.0	6041.7	7016.7	5886.4	6608.6	5630.0	5684.1	2513.4
82.5°	3596.8	3560.7	4095.2	4463.5	3362.1	3535.4	2372.6	3419.9	3669.0	1585.3	794.5
85°	1610.6	1679.2	1968.1	2596.5	1473.4	783.6	483.9	1050.9	1563.7	798.1	0.0
87.5°	166.1	130.0	346.7	632.0	202.2	21.7	72.2	36.1	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°	15886.0	15886.0	15886.0	15886.0	15886.0	15886.0	15886.0	15886.0	15886.0	15886.0	15886.0
2.5°	17189.6	16980.2	16355.4	15770.4	15268.4	14654.5	14257.3	13632.5	13253.4	13137.8	13155.8
5°	16499.9	15896.8	14708.7	13758.9	12700.8	12097.7	11180.5	10299.3	9822.6	9645.7	9566.2
7.5°	15055.4	14409.0	12975.3	11483.8	10349.9	9291.8	8609.3	7832.8	7302.0	6865.0	6789.2
10°	13982.8	13134.2	11357.4	9754.0	8858.4	8064.0	7381.4	6605.0	5980.3	5481.9	5344.7
12.5°	13340.0	12390.3	10407.7	9064.3	8215.6	7399.5	6511.1	5611.9	4972.7	4434.6	4185.5
15°	13224.5	12123.0	10140.4	8569.5	7522.3	6536.4	5355.5	4384.1	3726.8	3217.6	3062.4
17.5°	13921.4	12603.3	10100.7	8053.1	6615.8	5218.3	3990.5	3185.1	2444.8	2159.5	2047.6
20°	15163.7	13452.0	10097.1	7453.7	5684.1	4019.3	2802.3	2076.5	1776.7	1639.5	1574.5
22.5°	16857.4	14607.6	10288.5	6937.2	4716.3	2964.9	2000.6	1654.0	1480.6	1368.7	1343.4
25°	18926.7	16319.3	10758.0	6587.0	3976.0	2325.7	1650.3	1415.6	1271.2	1220.6	1198.9
27.5°	20764.8	17958.8	11274.4	6225.8	3445.1	2058.4	1531.2	1296.4	1180.9	1141.2	1108.7
30°	22350.1	19446.7	11523.6	5749.1	3019.0	1885.1	1552.8	1386.7	1235.1	1115.9	1061.7
32.5°	23671.9	20587.8	11686.1	5315.8	2657.9	1542.0	1227.8	1072.5	1003.9	960.6	924.5
35°	25325.8	21822.9	11588.6	5070.2	2473.7	1404.8	1119.5	924.5	808.9	722.3	686.1
37.5°	27059.2	23057.9	11418.8	4868.0	2390.7	1303.7	1065.3	877.5	751.1	660.9	613.9
40°	28854.0	24202.7	11220.2	4680.2	2314.8	1238.7	1032.8	837.8	711.4	613.9	563.4
42.5°	30497.2	25318.6	11140.8	4557.4	2192.0	1249.5	1007.5	819.8	671.7	570.6	527.2
45°	31826.1	26376.7	11249.1	4492.4	2058.4	1231.4	1014.8	798.1	639.2	541.7	498.4
47.5°	33245.3	27871.8	11599.4	4427.4	1928.4	1144.8	1068.9	794.5	624.7	523.6	476.7
50°	34895.7	29785.7	12401.1	4268.5	1769.5	1050.9	1137.5	790.9	606.7	502.0	455.0
52.5°	37094.9	31959.7	13228.1	3990.5	1538.4	960.6	1087.0	780.0	570.6	476.7	429.7
55°	39070.3	34249.3	13928.7	3661.8	1245.9	830.6	978.7	733.1	509.2	433.4	390.0
57.5°	39886.5	35542.1	13907.0	3206.8	996.7	729.5	805.3	671.7	444.2	382.8	346.7
59°	39586.7	35379.6	13441.1	2871.0	910.0	675.3	668.1	664.5	415.3	346.7	317.8
60°	39164.2	34787.3	12939.2	2704.8	855.9	639.2	613.9	657.3	390.0	325.0	296.1
62.5°	37546.3	32331.7	11274.4	2423.2	783.6	541.7	491.1	556.1	346.7	281.7	256.4
65°	35202.6	28557.9	9544.6	2343.7	762.0	447.8	408.1	397.2	296.1	238.3	216.7
67.5°	30630.8	24166.6	7731.7	2289.5	769.2	375.6	357.5	299.7	245.6	198.6	184.2
70°	24524.1	18843.6	6330.6	2228.2	776.4	307.0	299.7	238.3	198.6	166.1	151.7
72.5°	14900.1	11169.7	4983.5	1935.6	754.8	245.6	267.2	180.6	144.5	119.2	111.9
75°	9212.3	7645.1	3091.2	1505.9	498.4	180.6	187.8	111.9	97.5	75.8	75.8
77.5°	5337.5	4828.3	1105.0	541.7	220.3	108.3	83.1	57.8	54.2	32.5	32.5
80°	2213.7	1773.1	382.8	184.2	119.2	50.6	18.1	3.6	0.0	0.0	0.0
82.5°	646.4	574.2	104.7	83.1	36.1	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°	15886.0	15886.0	15886.0	15886.0	15886.0	15886.0	15886.0	15886.0	15886.0	15886.0	15886.0
2.5°	12848.9	12729.7	12675.5	12859.7	12690.0	12906.7	12740.6	12812.8	13025.8	13119.7	13361.7
5°	9616.8	9494.0	9436.2	9714.3	9699.9	9837.1	9822.6	9949.0	10057.4	9815.4	10064.6
7.5°	6698.9	6615.8	6753.1	6969.7	7200.9	7125.0	7125.0	6955.3	7013.1	6977.0	6966.1
10°	5095.5	4810.2	4738.0	4730.8	4817.4	4835.5	4738.0	4503.3	4589.9	4615.2	4766.9
12.5°	4008.5	3788.2	3452.4	3300.7	3261.0	3293.5	2972.1	2766.2	2863.7	2806.0	2954.0
15°	2874.6	2694.0	2495.4	2325.7	2278.7	2213.7	1863.4	1617.8	1589.0	1599.8	1625.1
17.5°	2051.2	1928.4	1928.4	1747.9	1650.3	1455.3	1278.4	1170.1	1159.2	1170.1	1188.1
20°	1513.1	1448.1	1440.9	1393.9	1285.6	1155.6	1032.8	1011.2	1003.9	1022.0	1029.2
22.5°	1303.7	1235.1	1177.3	1173.7	1072.5	964.2	906.4	877.5	881.1	888.4	906.4
25°	1166.4	1094.2	1032.8	996.7	924.5	848.6	794.5	780.0	780.0	790.9	794.5
27.5°	1068.9	978.7	924.5	873.9	808.9	743.9	697.0	686.1	678.9	686.1	704.2
30°	1000.3	910.0	841.4	765.6	715.0	653.6	613.9	599.5	595.9	599.5	613.9
32.5°	855.9	801.7	747.5	678.9	617.5	577.8	534.5	509.2	509.2	516.4	530.9
35°	646.4	617.5	613.9	595.9	545.3	502.0	451.4	426.1	426.1	440.6	447.8
37.5°	570.6	516.4	509.2	502.0	480.3	422.5	375.6	353.9	350.3	361.1	375.6
40°	520.0	458.6	426.1	418.9	422.5	357.5	307.0	285.3	285.3	288.9	303.3
42.5°	480.3	408.1	350.3	343.1	357.5	299.7	249.2	227.5	227.5	227.5	245.6
45°	447.8	364.7	296.1	260.0	281.7	245.6	202.2	180.6	173.3	180.6	187.8
47.5°	426.1	332.2	260.0	209.5	209.5	195.0	162.5	137.2	130.0	133.6	144.5
50°	408.1	303.3	220.3	169.7	151.7	155.3	122.8	104.7	97.5	97.5	108.3
52.5°	379.2	274.5	191.4	144.5	115.6	104.7	90.3	75.8	72.2	75.8	83.1
55°	343.1	249.2	166.1	119.2	90.3	72.2	65.0	54.2	50.6	54.2	65.0
57.5°	303.3	209.5	133.6	93.9	61.4	46.9	43.3	36.1	28.9	32.5	39.7
59°	278.1	187.8	115.6	75.8	46.9	32.5	32.5	25.3	18.1	21.7	32.5
60°	267.2	173.3	97.5	65.0	39.7	25.3	25.3	18.1	10.8	14.4	25.3
62.5°	227.5	144.5	75.8	39.7	18.1	3.6	10.8	3.6	0.0	3.6	10.8
65°	191.4	115.6	50.6	18.1	0.0	0.0	0.0	0.0	0.0	0.0	3.6
67.5°	158.9	86.7	25.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	126.4	57.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	86.7	32.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	54.2	10.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	21.7	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°	15886.0	15886.0	15886.0	15886.0	15886.0	15886.0	15886.0	15886.0	15886.0	15886.0
2.5°	13376.1	13892.5	14210.3	14809.8	15423.7	15896.8	16489.0	17019.9	17240.2	17355.8
5°	10317.4	11036.0	11646.3	12560.0	13408.6	14441.5	15488.7	16723.8	17196.9	17319.6
7.5°	7240.6	7973.7	8612.9	9671.0	10880.7	12263.9	13831.2	15398.4	16088.2	16283.2
10°	5229.1	6012.8	6792.8	7850.9	8981.2	10479.9	12112.2	14051.4	14845.9	14997.6
12.5°	3300.7	4142.1	5409.7	6717.0	7912.3	9118.5	10826.6	12935.6	13813.1	14091.2
15°	1914.0	2542.3	3499.3	5203.8	6724.2	8320.4	10183.8	12516.7	13498.9	13784.2
17.5°	1282.0	1498.7	2155.9	3459.6	5467.5	7583.7	10021.3	12859.7	13946.7	14311.5
20°	1079.8	1177.3	1408.4	2109.0	4210.7	6926.4	10064.6	13791.4	15217.9	15672.9
22.5°	949.8	1040.0	1188.1	1516.7	2939.6	6110.3	10270.4	15124.0	16965.7	17547.1
25°	837.8	928.1	1058.1	1256.7	1975.4	5167.7	10721.9	17074.1	19280.6	19919.8
27.5°	743.9	827.0	938.9	1108.7	1520.3	4116.8	11122.7	18973.6	21393.1	21913.2
30°	657.3	725.9	834.2	964.2	1263.9	3174.3	11324.9	20634.8	22931.5	23509.4
32.5°	570.6	635.6	740.3	845.0	1040.0	2419.5	11184.1	21855.4	24426.6	24795.0
35°	487.5	556.1	642.8	740.3	899.2	1953.7	10479.9	23227.7	25975.8	26264.7
37.5°	418.9	476.7	567.0	642.8	812.5	1563.7	9627.6	24462.7	27712.9	28128.2
40°	353.9	411.7	502.0	570.6	747.5	1231.4	8858.4	25835.0	29543.8	30056.6
42.5°	288.9	357.5	437.0	548.9	642.8	938.9	7926.7	26947.3	30919.7	31562.5
45°	231.1	307.0	393.6	545.3	559.7	715.0	7027.5	27814.0	32136.7	32714.5
47.5°	184.2	260.0	379.2	509.2	458.6	567.0	6514.7	28720.4	33147.8	33610.1
50°	148.1	216.7	397.2	447.8	382.8	480.3	6500.3	29731.6	33671.5	33978.4
52.5°	119.2	177.0	335.8	343.1	325.0	422.5	6890.3	30869.1	34205.9	34458.7
55°	101.1	148.1	220.3	252.8	292.5	382.8	7182.8	32620.6	35480.7	35719.0
57.5°	79.4	126.4	169.7	202.2	260.0	350.3	7222.5	33971.2	37094.9	37250.2
59°	68.6	108.3	151.7	180.6	238.3	328.6	7060.0	34054.3	37199.7	37448.8
60°	57.8	97.5	133.6	169.7	220.3	310.6	6883.1	33451.2	36809.7	37087.7
62.5°	43.3	75.8	97.5	137.2	180.6	267.2	6045.3	31345.8	35318.2	35513.2
65°	28.9	54.2	72.2	101.1	140.8	231.1	4925.8	28615.7	33014.2	33451.2
67.5°	18.1	39.7	57.8	75.8	115.6	195.0	3510.2	24538.6	29789.3	30071.0
70°	10.8	25.3	43.3	61.4	90.3	155.3	2083.7	19396.1	24784.1	24841.9
72.5°	7.2	18.1	28.9	43.3	72.2	140.8	1011.2	12643.0	18096.1	18785.8
75°	3.6	10.8	18.1	32.5	57.8	115.6	483.9	8446.8	13166.7	13365.3
77.5°	0.0	3.6	10.8	21.7	43.3	90.3	281.7	5546.9	8977.6	9183.5
80°	0.0	0.0	7.2	18.1	32.5	57.8	169.7	3271.8	5438.6	5539.7
82.5°	0.0	0.0	3.6	14.4	21.7	43.3	86.7	1437.3	3560.7	3596.8
85°	0.0	0.0	3.6	14.4	18.1	28.9	32.5	195.0	1581.7	1610.6
87.5°	0.0	0.0	3.6	18.1	18.1	18.1	18.1	10.8	133.6	166.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)