

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: P459192

Luminaire Tested: **GALN-SA6D-735-U-SLL-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P459192
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-SA6D-735-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 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: 30689 lumens
Efficiency: N/A
Efficacy: 83.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

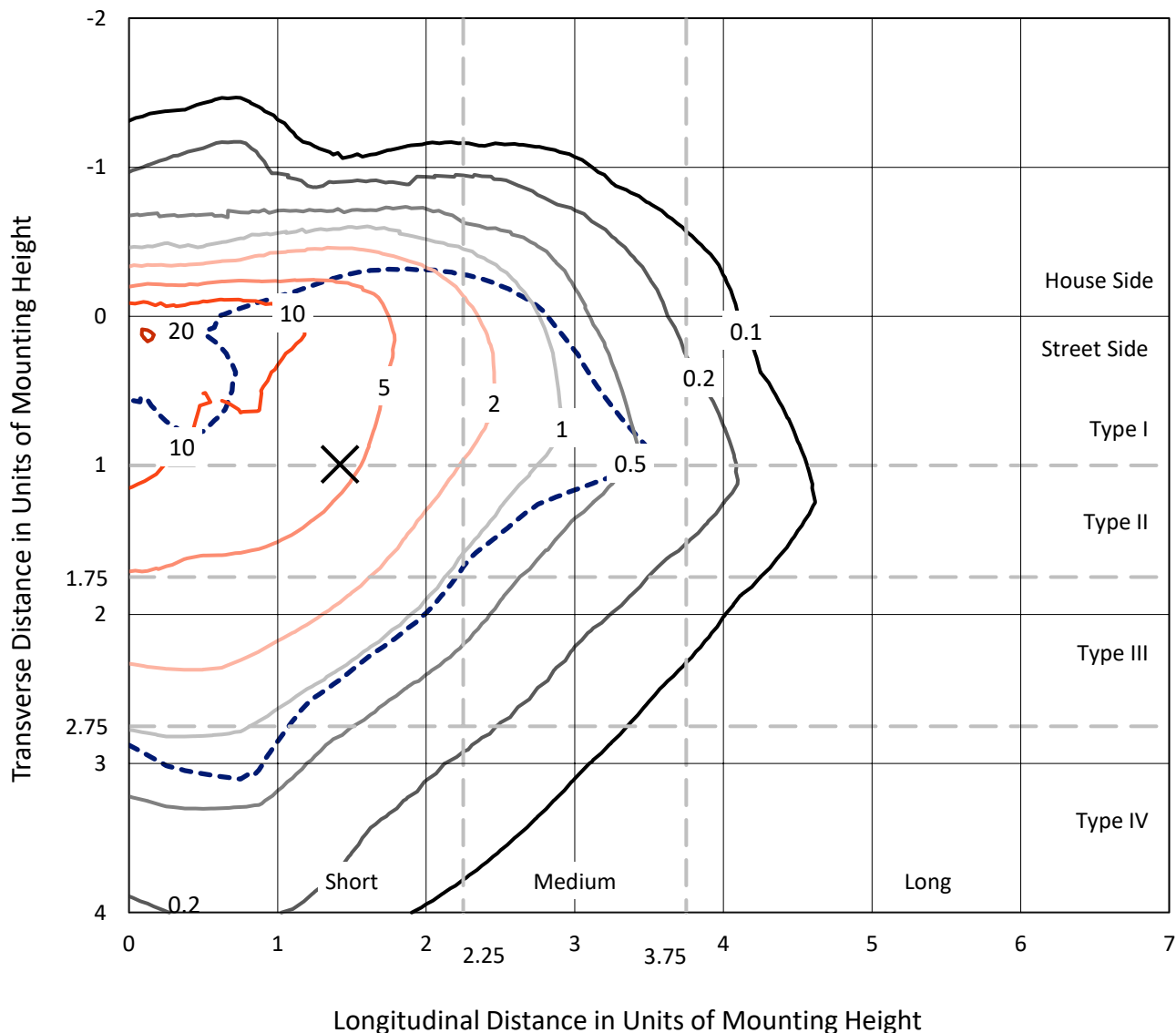
Input Watts (W): 368
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

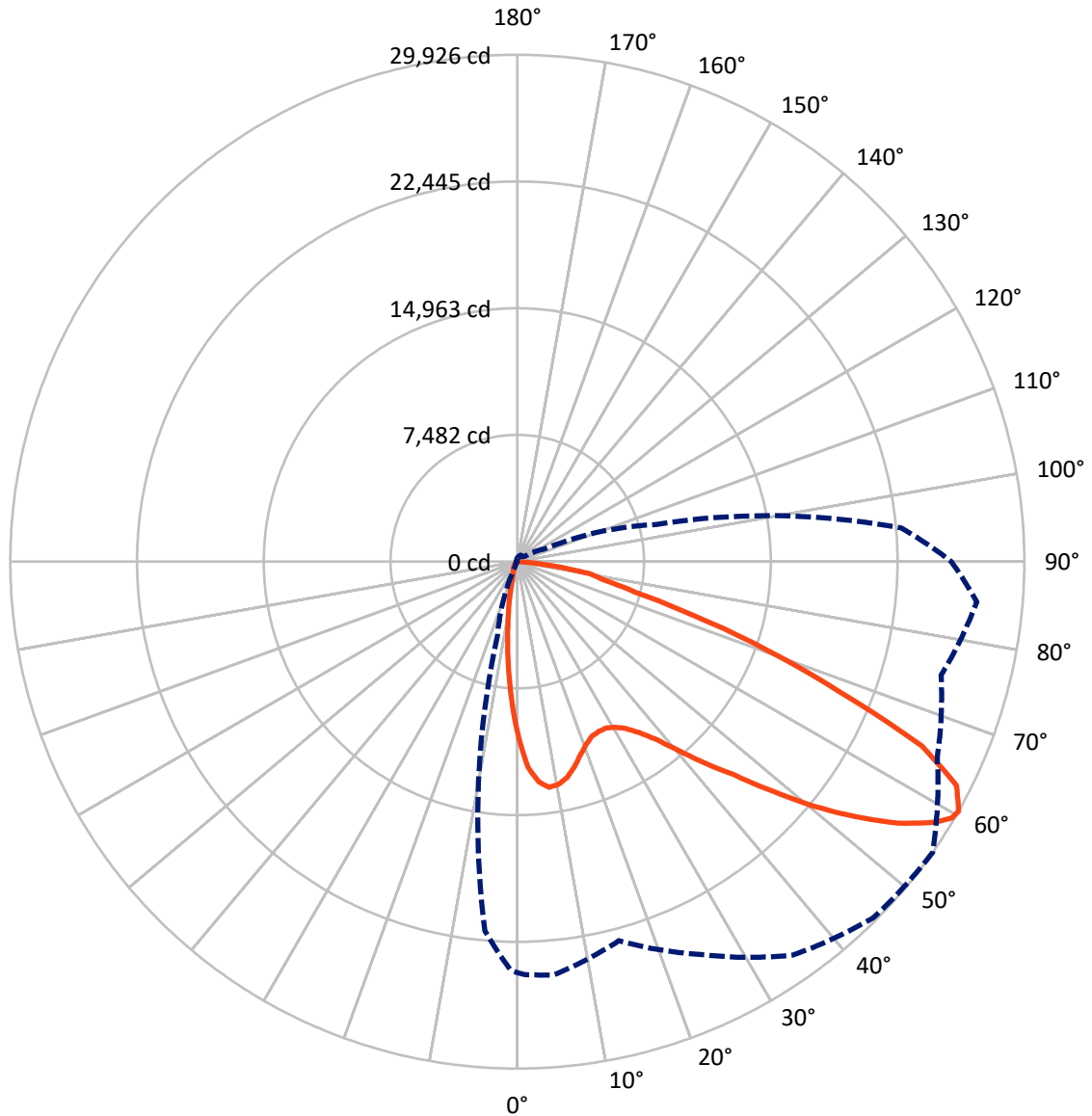
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 21.5 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	4554.5	0.0	4554.5
	% Fixture	14.8	0.0	14.8
Street Side	Lumens	26134.5	0.0	26134.5
	% Fixture	85.2	0.0	85.2
Total	Lumens	30689.0	0.0	30689.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	769.5	2.5
10°-20°	1515.3	4.9
20°-30°	2242.9	7.3
30°-40°	3343.3	10.9
40°-50°	4896.3	16.0
50°-60°	7068.7	23.0
60°-70°	7435.9	24.2
70°-80°	3058.9	10.0
80°-90°	358.3	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°	30689.0	100.0
0°-180°	30689.0	100.0

Coefficient of Utilization



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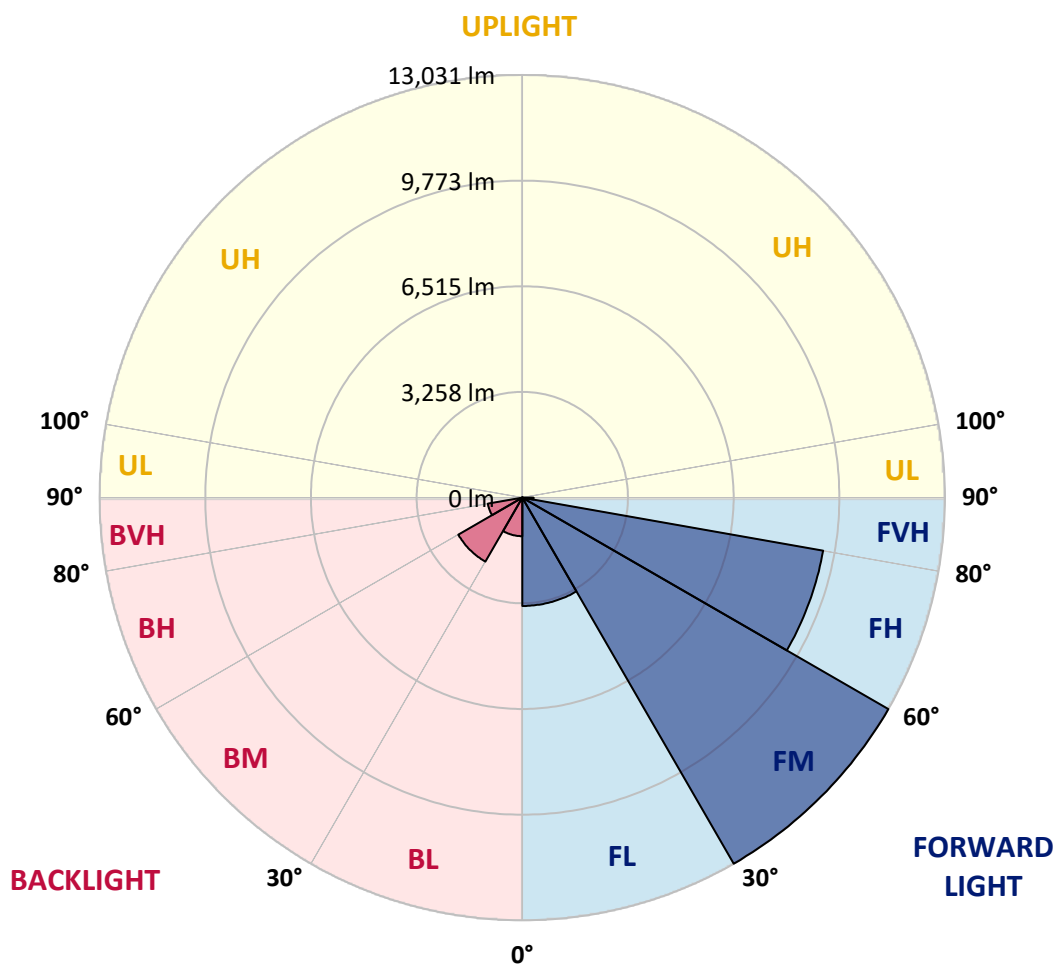
CATALOG NUMBER: GALN-SA6D-735-U-SLL-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3339.4	10.9			
FM	(30°-60°)	13030.6	42.5			
FH	(60°-80°)	9416.8	30.7			G4/12000
FVH	(80°-90°)	347.7	1.1			G3/500
BL	(0°-30°)	1188.3	3.9	B3/2500		
BM	(30°-60°)	2277.7	7.4	B2/2500		
BH	(60°-80°)	1078.0	3.5	B3/2500		G3/2500
BVH	(80°-90°)	10.5	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°	10391.2	10391.2	10391.2	10391.2	10391.2	10391.2	10391.2	10391.2	10391.2	10391.2	10391.2
2.5°	11352.6	11333.7	11501.4	11775.4	12051.8	12195.9	12167.6	12155.8	11926.6	11758.9	11406.9
5°	11329.0	11425.8	11725.8	12467.6	13029.8	13301.4	13381.7	13043.9	12597.5	11950.2	11151.8
7.5°	10651.0	10771.5	11260.5	12420.3	13419.5	14010.1	13988.8	13447.9	12526.6	11525.1	10386.5
10°	9810.1	9951.8	10525.9	11933.7	13230.5	14010.1	14052.6	13367.6	12221.9	10936.9	9739.3
12.5°	9217.2	9384.9	10020.3	11480.2	12743.9	13511.6	13561.3	13065.2	11992.8	10710.1	9387.3
15°	9016.4	9174.7	9819.6	11251.0	12226.6	12640.0	12628.2	12576.2	11903.0	10764.4	9406.2
17.5°	9361.3	9491.2	10218.8	11355.0	11742.4	11699.9	11761.3	12011.7	11921.9	11220.3	10001.5
20°	10251.8	10384.1	11166.0	11673.9	11371.5	11102.2	11130.6	11548.7	12096.7	12077.8	10932.1
22.5°	11477.8	11702.2	12410.9	12292.8	11321.9	10731.4	10672.3	11215.6	12394.3	13065.2	12188.8
25°	13029.8	13256.5	13809.3	13280.2	11565.2	10644.0	10589.6	11114.0	12755.7	14029.0	13603.8
27.5°	14333.7	14506.1	15056.5	14241.6	11924.3	10681.8	10592.0	11128.2	13048.7	14848.6	14796.7
30°	15377.8	15505.3	15828.9	14690.4	12233.7	10847.1	10743.2	11336.1	13178.6	15247.8	15762.8
32.5°	16218.7	16433.7	16535.2	15169.9	12677.8	11158.9	10981.8	11735.3	13495.1	15741.5	16776.2
35°	17180.1	17428.1	17298.2	15628.2	13263.6	11645.5	11428.2	12382.5	13974.6	16197.4	17952.5
37.5°	18399.0	18684.8	18176.9	16110.0	13882.5	12377.8	12276.2	13292.0	14702.2	16849.4	19213.9
40°	19660.4	19825.7	19029.7	16695.9	14643.1	13443.1	13540.0	14643.1	15654.1	17631.3	20555.7
42.5°	20645.4	20801.3	19906.1	17187.2	15420.3	14706.9	15110.8	16273.0	16745.5	18432.1	21557.2
45°	21398.9	21531.2	20513.1	17723.4	16469.1	16537.6	17300.6	17952.5	17839.2	18921.0	22329.6
47.5°	21984.8	22098.2	20980.8	18299.8	18039.9	18776.9	19943.8	20220.2	18973.0	19450.2	23028.9
50°	22225.7	22258.8	21127.3	19034.4	19823.4	21630.4	22847.0	22679.2	20272.2	20038.3	23772.9
52.5°	22539.9	22532.8	21545.4	19733.6	21500.5	24181.6	25395.7	25015.4	21741.5	20919.4	24609.1
55°	23364.3	23373.7	22440.7	20725.7	22929.6	26241.4	27540.6	27264.2	23291.1	22407.6	25584.7
57.5°	24365.8	24401.3	23713.9	21885.6	24295.0	27734.3	29142.2	29035.9	25386.3	24063.5	26506.0
59°	24495.8	24566.6	24316.2	22702.9	25105.2	28192.6	29690.2	29794.1	26508.3	25154.8	27004.4
60°	24259.5	24377.7	24491.0	23165.9	25580.0	28357.9	29723.3	29926.4	27351.6	25896.5	27231.2
62.5°	23229.6	23416.2	23985.5	24590.2	26172.9	27843.0	28667.4	29092.6	28395.7	27845.3	27252.4
65°	21880.8	21977.7	22799.7	24843.0	25022.5	25438.3	25693.4	26239.0	27141.4	28596.5	26276.8
67.5°	19669.8	19955.7	20961.9	23376.1	21628.1	21136.7	21073.0	20529.7	22872.9	26806.0	23872.1
70°	16249.4	16377.0	17617.1	19164.3	16322.6	15566.7	15869.1	15665.9	17730.5	23076.1	19213.9
72.5°	12288.0	12576.2	13788.0	15276.2	11106.9	10126.6	10960.5	10884.9	13317.9	18545.4	13199.8
75°	8742.4	8929.0	10473.9	11955.0	7778.6	6590.5	6890.5	7171.6	9297.5	14643.1	7799.9
77.5°	6007.0	6167.6	7327.5	7906.2	5673.9	5435.4	4972.4	5244.0	6092.1	8688.1	4244.8
80°	3623.6	3616.5	4379.5	4521.2	3951.9	4589.7	3850.3	4322.8	3682.6	3718.1	1644.1
82.5°	2352.7	2329.1	2678.7	2919.6	2199.2	2312.6	1551.9	2237.0	2400.0	1037.0	519.7
85°	1053.5	1098.4	1287.4	1698.4	963.8	512.6	316.5	687.4	1022.8	522.0	0.0
87.5°	108.7	85.0	226.8	413.4	132.3	14.2	47.2	23.6	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°	10391.2	10391.2	10391.2	10391.2	10391.2	10391.2	10391.2	10391.2	10391.2	10391.2	10391.2
2.5°	11244.0	11106.9	10698.3	10315.6	9987.3	9585.7	9325.9	8917.2	8669.2	8593.6	8605.4
5°	10792.8	10398.3	9621.1	8999.9	8307.8	7913.3	7313.3	6736.9	6425.1	6309.4	6257.4
7.5°	9847.9	9425.1	8487.3	7511.7	6770.0	6077.9	5631.4	5123.6	4776.3	4490.5	4440.9
10°	9146.3	8591.2	7429.0	6380.2	5794.4	5274.7	4828.3	4320.4	3911.8	3585.8	3496.0
12.5°	8725.9	8104.6	6807.8	5929.1	5373.9	4840.1	4259.0	3670.8	3252.7	2900.8	2737.8
15°	8650.3	7929.8	6633.0	5605.4	4920.4	4275.5	3503.1	2867.7	2437.8	2104.7	2003.1
17.5°	9106.2	8244.0	6607.0	5267.7	4327.5	3413.3	2610.2	2083.4	1599.2	1412.6	1339.4
20°	9918.8	8799.1	6604.6	4875.5	3718.1	2629.1	1833.0	1358.3	1162.2	1072.4	1029.9
22.5°	11026.6	9555.0	6729.8	4537.7	3085.0	1939.3	1308.6	1081.9	968.5	895.3	878.7
25°	12380.2	10674.7	7036.9	4308.6	2600.8	1521.2	1079.5	926.0	831.5	798.4	784.2
27.5°	13582.5	11747.1	7374.7	4072.4	2253.5	1346.4	1001.6	848.0	772.4	746.4	725.2
30°	14619.5	12720.3	7537.7	3760.6	1974.8	1233.1	1015.7	907.1	807.9	729.9	694.5
32.5°	15484.1	13466.8	7644.0	3477.1	1738.6	1008.6	803.1	701.6	656.7	628.3	604.7
35°	16565.9	14274.6	7580.2	3316.5	1618.1	918.9	732.3	604.7	529.1	472.4	448.8
37.5°	17699.8	15082.5	7469.2	3184.2	1563.8	852.7	696.8	574.0	491.3	432.3	401.6
40°	18873.8	15831.3	7339.3	3061.4	1514.2	810.2	675.6	548.0	465.3	401.6	368.5
42.5°	19948.6	16561.2	7287.3	2981.1	1433.8	817.3	659.0	536.2	439.4	373.2	344.9
45°	20817.9	17253.3	7358.2	2938.5	1346.4	805.5	663.8	522.0	418.1	354.3	326.0
47.5°	21746.2	18231.3	7587.3	2896.0	1261.4	748.8	699.2	519.7	408.7	342.5	311.8
50°	22825.7	19483.2	8111.7	2792.1	1157.5	687.4	744.1	517.3	396.8	328.3	297.6
52.5°	24264.3	20905.3	8652.6	2610.2	1006.3	628.3	711.0	510.2	373.2	311.8	281.1
55°	25556.4	22402.9	9110.9	2395.2	815.0	543.3	640.1	479.5	333.1	283.5	255.1
57.5°	26090.2	23248.5	9096.7	2097.6	652.0	477.2	526.8	439.4	290.5	250.4	226.8
59°	25894.2	23142.2	8792.0	1877.9	595.3	441.7	437.0	434.6	271.7	226.8	207.9
60°	25617.8	22754.8	8463.7	1769.3	559.8	418.1	401.6	429.9	255.1	212.6	193.7
62.5°	24559.5	21148.6	7374.7	1585.0	512.6	354.3	321.3	363.8	226.8	184.2	167.7
65°	23026.5	18680.1	6243.2	1533.1	498.4	292.9	266.9	259.8	193.7	155.9	141.7
67.5°	20036.0	15807.7	5057.4	1497.6	503.1	245.7	233.9	196.1	160.6	129.9	120.5
70°	16041.5	12325.8	4140.9	1457.5	507.9	200.8	196.1	155.9	129.9	108.7	99.2
72.5°	9746.3	7306.2	3259.8	1266.1	493.7	160.6	174.8	118.1	94.5	78.0	73.2
75°	6025.9	5000.7	2022.0	985.0	326.0	118.1	122.8	73.2	63.8	49.6	49.6
77.5°	3491.3	3158.2	722.8	354.3	144.1	70.9	54.3	37.8	35.4	21.3	21.3
80°	1448.0	1159.8	250.4	120.5	78.0	33.1	11.8	2.4	0.0	0.0	0.0
82.5°	422.8	375.6	68.5	54.3	23.6	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°	10391.2	10391.2	10391.2	10391.2	10391.2	10391.2	10391.2	10391.2	10391.2	10391.2	10391.2
2.5°	8404.6	8326.7	8291.2	8411.7	8300.7	8442.4	8333.8	8381.0	8520.4	8581.8	8740.0
5°	6290.5	6210.2	6172.4	6354.3	6344.8	6434.6	6425.1	6507.8	6578.7	6420.4	6583.4
7.5°	4381.8	4327.5	4417.3	4559.0	4710.2	4660.6	4660.6	4549.6	4587.3	4563.7	4556.6
10°	3333.0	3146.4	3099.2	3094.5	3151.1	3163.0	3099.2	2945.6	3002.3	3018.9	3118.1
12.5°	2622.0	2477.9	2258.2	2159.0	2133.0	2154.3	1944.1	1809.4	1873.2	1835.4	1932.3
15°	1880.3	1762.2	1632.3	1521.2	1490.5	1448.0	1218.9	1058.3	1039.4	1046.4	1063.0
17.5°	1341.7	1261.4	1261.4	1143.3	1079.5	952.0	836.2	765.3	758.3	765.3	777.2
20°	989.8	947.2	942.5	911.8	840.9	755.9	675.6	661.4	656.7	668.5	673.2
22.5°	852.7	807.9	770.1	767.7	701.6	630.7	592.9	574.0	576.4	581.1	592.9
25°	763.0	715.7	675.6	652.0	604.7	555.1	519.7	510.2	510.2	517.3	519.7
27.5°	699.2	640.1	604.7	571.6	529.1	486.6	455.9	448.8	444.1	448.8	460.6
30°	654.3	595.3	550.4	500.8	467.7	427.6	401.6	392.1	389.8	392.1	401.6
32.5°	559.8	524.4	489.0	444.1	403.9	377.9	349.6	333.1	333.1	337.8	347.2
35°	422.8	403.9	401.6	389.8	356.7	328.3	295.3	278.7	278.7	288.2	292.9
37.5°	373.2	337.8	333.1	328.3	314.2	276.4	245.7	231.5	229.1	236.2	245.7
40°	340.2	300.0	278.7	274.0	276.4	233.9	200.8	186.6	186.6	189.0	198.4
42.5°	314.2	266.9	229.1	224.4	233.9	196.1	163.0	148.8	148.8	148.8	160.6
45°	292.9	238.6	193.7	170.1	184.2	160.6	132.3	118.1	113.4	118.1	122.8
47.5°	278.7	217.3	170.1	137.0	137.0	127.6	106.3	89.8	85.0	87.4	94.5
50°	266.9	198.4	144.1	111.0	99.2	101.6	80.3	68.5	63.8	63.8	70.9
52.5°	248.0	179.5	125.2	94.5	75.6	68.5	59.1	49.6	47.2	49.6	54.3
55°	224.4	163.0	108.7	78.0	59.1	47.2	42.5	35.4	33.1	35.4	42.5
57.5°	198.4	137.0	87.4	61.4	40.2	30.7	28.3	23.6	18.9	21.3	26.0
59°	181.9	122.8	75.6	49.6	30.7	21.3	21.3	16.5	11.8	14.2	21.3
60°	174.8	113.4	63.8	42.5	26.0	16.5	16.5	11.8	7.1	9.4	16.5
62.5°	148.8	94.5	49.6	26.0	11.8	2.4	7.1	2.4	0.0	2.4	7.1
65°	125.2	75.6	33.1	11.8	0.0	0.0	0.0	0.0	0.0	0.0	2.4
67.5°	103.9	56.7	16.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	82.7	37.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	56.7	21.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	35.4	7.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	14.2	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°	10391.2	10391.2	10391.2	10391.2	10391.2	10391.2	10391.2	10391.2	10391.2	10391.2
2.5°	8749.5	9087.3	9295.2	9687.3	10088.9	10398.3	10785.7	11132.9	11277.0	11352.6
5°	6748.7	7218.8	7618.0	8215.6	8770.8	9446.3	10131.4	10939.2	11248.7	11329.0
7.5°	4736.2	5215.7	5633.8	6325.9	7117.2	8021.9	9047.1	10072.3	10523.5	10651.0
10°	3420.4	3933.0	4443.3	5135.4	5874.7	6855.0	7922.7	9191.2	9710.9	9810.1
12.5°	2159.0	2709.4	3538.5	4393.6	5175.5	5964.5	7081.8	8461.3	9035.3	9217.2
15°	1252.0	1663.0	2288.9	3403.9	4398.4	5442.5	6661.3	8187.3	8829.8	9016.4
17.5°	838.6	980.3	1410.2	2263.0	3576.3	4960.6	6555.0	8411.7	9122.7	9361.3
20°	706.3	770.1	921.2	1379.5	2754.3	4530.7	6583.4	9021.1	9954.2	10251.8
22.5°	621.3	680.3	777.2	992.1	1922.8	3996.8	6718.0	9892.8	11097.5	11477.8
25°	548.0	607.1	692.1	822.0	1292.1	3380.3	7013.3	11168.4	12611.7	13029.8
27.5°	486.6	540.9	614.2	725.2	994.5	2692.9	7275.5	12410.9	13993.5	14333.7
30°	429.9	474.8	545.7	630.7	826.8	2076.4	7407.8	13497.5	14999.8	15377.8
32.5°	373.2	415.7	484.2	552.7	680.3	1582.7	7315.7	14295.9	15977.8	16218.7
35°	318.9	363.8	420.5	484.2	588.2	1277.9	6855.0	15193.5	16991.1	17180.1
37.5°	274.0	311.8	370.9	420.5	531.5	1022.8	6297.6	16001.4	18127.3	18399.0
40°	231.5	269.3	328.3	373.2	489.0	805.5	5794.4	16899.0	19325.0	19660.4
42.5°	189.0	233.9	285.8	359.1	420.5	614.2	5185.0	17626.6	20224.9	20645.4
45°	151.2	200.8	257.5	356.7	366.1	467.7	4596.8	18193.5	21021.0	21398.9
47.5°	120.5	170.1	248.0	333.1	300.0	370.9	4261.4	18786.4	21682.4	21984.8
50°	96.8	141.7	259.8	292.9	250.4	314.2	4251.9	19447.8	22024.9	22225.7
52.5°	78.0	115.7	219.7	224.4	212.6	276.4	4507.0	20191.9	22374.5	22539.9
55°	66.1	96.8	144.1	165.4	191.3	250.4	4698.4	21337.5	23208.4	23364.3
57.5°	52.0	82.7	111.0	132.3	170.1	229.1	4724.4	22221.0	24264.3	24365.8
59°	44.9	70.9	99.2	118.1	155.9	215.0	4618.1	22275.3	24332.8	24495.8
60°	37.8	63.8	87.4	111.0	144.1	203.1	4502.3	21880.8	24077.7	24259.5
62.5°	28.3	49.6	63.8	89.8	118.1	174.8	3954.3	20503.7	23102.1	23229.6
65°	18.9	35.4	47.2	66.1	92.1	151.2	3222.0	18717.9	21595.0	21880.8
67.5°	11.8	26.0	37.8	49.6	75.6	127.6	2296.0	16051.0	19485.6	19669.8
70°	7.1	16.5	28.3	40.2	59.1	101.6	1363.0	12687.2	16211.6	16249.4
72.5°	4.7	11.8	18.9	28.3	47.2	92.1	661.4	8270.0	11836.9	12288.0
75°	2.4	7.1	11.8	21.3	37.8	75.6	316.5	5525.1	8612.5	8742.4
77.5°	0.0	2.4	7.1	14.2	28.3	59.1	184.2	3628.3	5872.4	6007.0
80°	0.0	0.0	4.7	11.8	21.3	37.8	111.0	2140.1	3557.4	3623.6
82.5°	0.0	0.0	2.4	9.4	14.2	28.3	56.7	940.1	2329.1	2352.7
85°	0.0	0.0	2.4	9.4	11.8	18.9	21.3	127.6	1034.6	1053.5
87.5°	0.0	0.0	2.4	11.8	11.8	11.8	11.8	7.1	87.4	108.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)