

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: P454611

Luminaire Tested: **GALN-SA5D-727-U-SLL**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P454611
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-SA5D-727-U-SLL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 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: 27928 lumens
Efficiency: N/A
Efficacy: 90.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

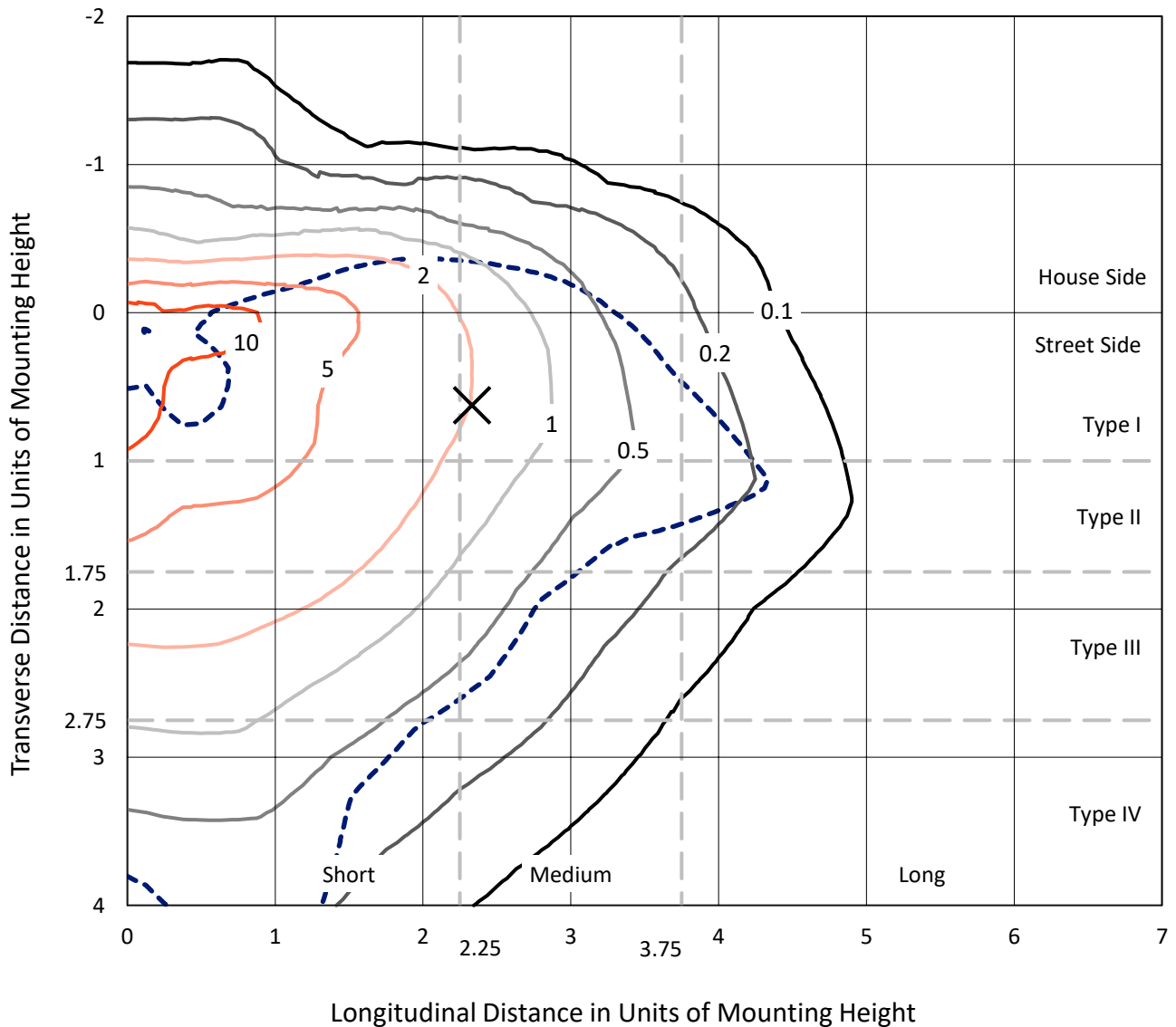
Input Watts (W): 309
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

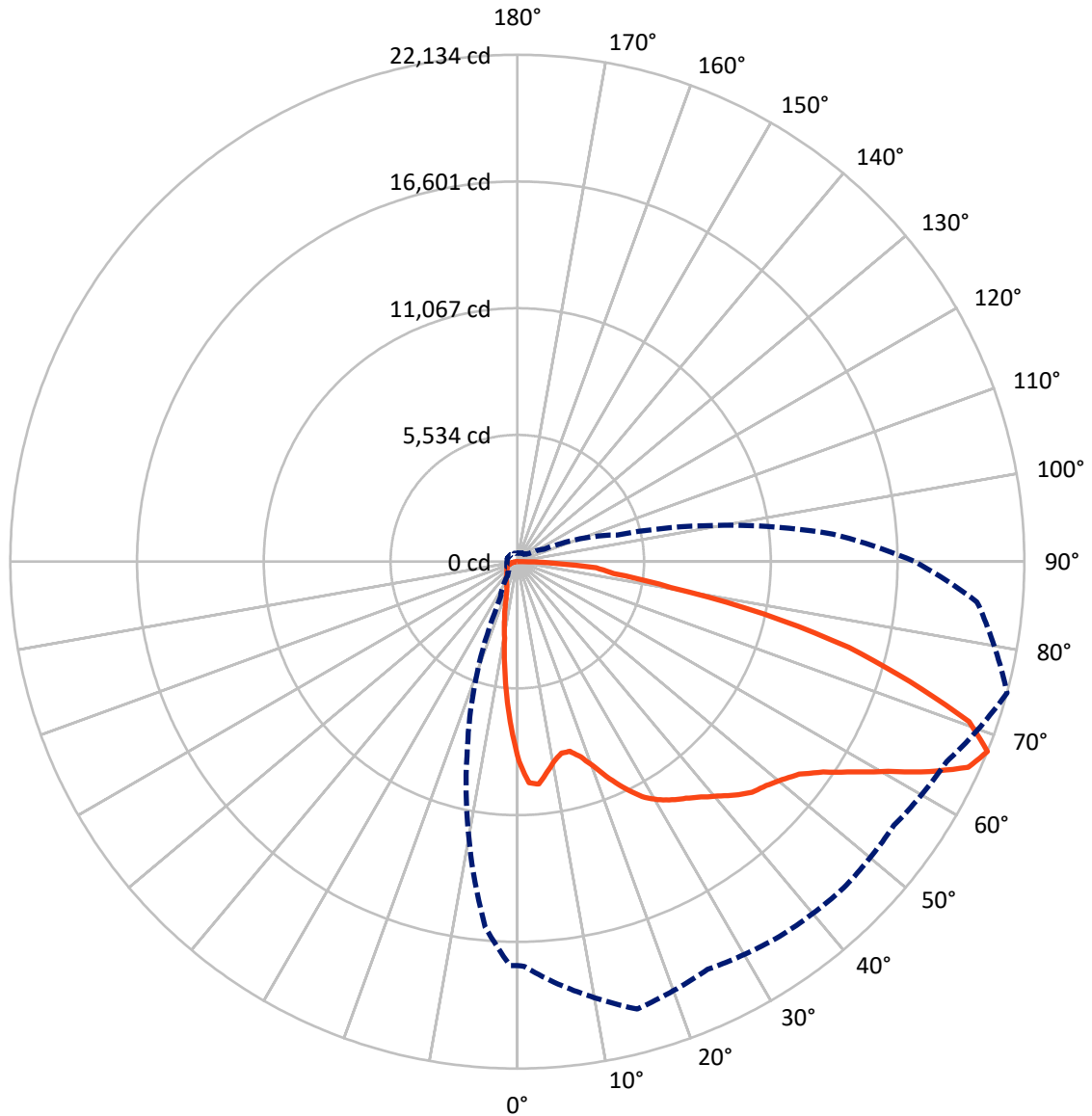
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.2 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	4720.4	0.0	4720.4
	% Fixture	16.9	0.0	16.9
Street Side	Lumens	23207.6	0.0	23207.6
	% Fixture	83.1	0.0	83.1
Total	Lumens	27928.0	0.0	27928.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	661.8	2.4
10°-20°	1380.2	4.9
20°-30°	1986.1	7.1
30°-40°	2860.6	10.2
40°-50°	4018.3	14.4
50°-60°	5604.1	20.1
60°-70°	6663.0	23.9
70°-80°	3924.1	14.1
80°-90°	829.8	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°	27928.0	100.0
0°-180°	27928.0	100.0

Coefficient of Utilization



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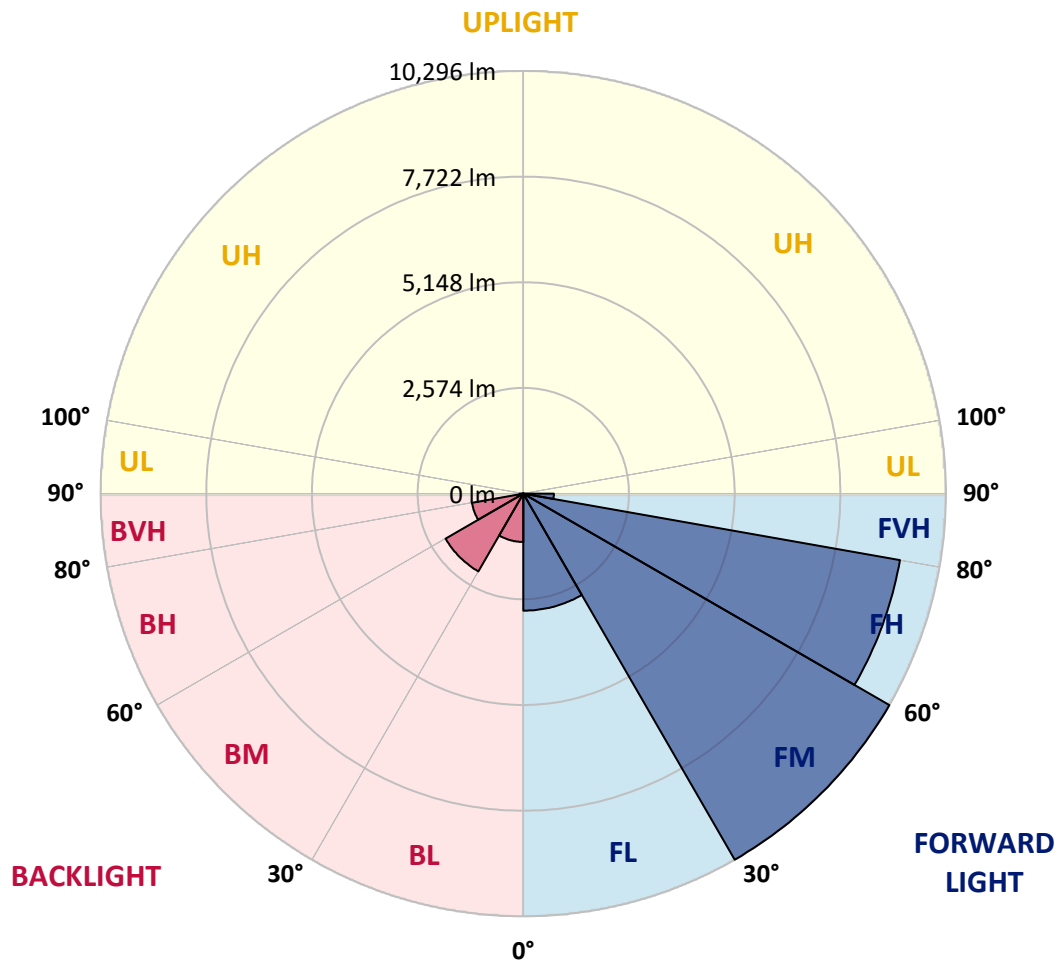
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2850.7	10.2			
FM	(30°-60°)	10296.0	36.9			
FH	(60°-80°)	9316.9	33.4			G4/12000
FVH	(80°-90°)	744.0	2.7			G4/750
BL	(0°-30°)	1177.4	4.2	B3/2500		
BM	(30°-60°)	2187.0	7.8	B2/2500		
BH	(60°-80°)	1270.2	4.5	B3/2500		G3/2500
BVH	(80°-90°)	85.8	0.3			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 Medium





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	8725.4	8725.4	8725.4	8725.4	8725.4	8725.4	8725.4	8725.4	8725.4	8725.4	8725.4
2.5°	9407.7	9420.2	9500.8	9735.4	9896.6	9955.7	9996.9	9919.9	9844.7	9662.0	9386.2
5°	9379.1	9452.5	9662.0	10188.6	10604.0	10783.1	10836.9	10605.8	10224.4	9755.1	9191.0
7.5°	8831.0	8929.5	9251.9	10134.8	10867.3	11286.4	11230.9	10813.6	10125.9	9289.5	8501.5
10°	8180.9	8290.2	8678.8	9746.2	10690.0	11266.7	11266.7	10758.1	9844.7	8850.7	7942.7
12.5°	7665.1	7779.8	8223.9	9346.8	10321.1	10867.3	10958.6	10521.7	9642.3	8573.1	7575.6
15°	7495.0	7606.0	8084.2	9105.0	9930.7	10263.8	10294.2	10150.9	9543.8	8592.8	7559.5
17.5°	7706.3	7849.6	8333.2	9176.7	9572.5	9592.2	9615.5	9728.3	9554.6	8952.8	7885.4
20°	8317.0	8471.1	8976.1	9407.7	9259.1	9054.9	9067.4	9357.6	9681.7	9547.4	8664.5
22.5°	9198.2	9332.5	9850.1	9814.2	9126.5	8705.7	8617.9	9022.7	9869.8	10288.8	9493.7
25°	10149.2	10306.8	10901.3	10417.8	9164.1	8497.9	8442.4	8825.7	10065.0	10981.9	10451.8
27.5°	11238.0	11392.0	11861.3	11026.7	9361.1	8481.8	8415.5	8807.8	10240.5	11623.1	11367.0
30°	12047.5	12189.0	12507.8	11538.9	9602.9	8589.3	8506.9	8949.2	10390.9	12061.9	12258.9
32.5°	12683.3	12830.2	13003.9	11857.7	9921.7	8784.5	8632.2	9207.1	10587.9	12396.8	12919.7
35°	13345.9	13519.7	13507.1	12140.7	10219.0	9010.1	8861.5	9579.6	10897.8	12688.7	13757.9
37.5°	14185.9	14255.7	14166.2	12395.0	10575.4	9416.7	9334.3	10133.0	11338.3	13041.5	14737.5
40°	15038.4	15178.1	14717.8	12703.0	11008.8	10181.4	10172.4	10951.5	11861.3	13455.2	15686.7
42.5°	15769.1	15887.3	15233.6	12971.6	11533.5	11114.5	11182.5	12049.3	12547.2	13935.2	16449.6
45°	16318.9	16424.5	15710.0	13231.3	12224.8	12192.6	12593.8	13226.0	13412.2	14366.8	16897.3
47.5°	16786.3	16888.4	16041.3	13625.3	13079.1	13480.3	14178.7	14452.7	14151.9	14613.9	17398.8
50°	17180.3	17210.8	16268.7	14094.5	14139.3	15058.1	15735.0	15912.3	14882.6	14968.5	17834.0
52.5°	17590.4	17551.0	16660.9	14685.6	15285.5	16555.3	17047.8	17232.2	15582.8	15405.5	18468.0
55°	18509.2	18546.8	17540.3	15430.6	16444.2	18025.6	18673.9	18496.6	16358.3	16209.6	19273.9
57.5°	19619.5	19587.3	18777.8	16596.5	17624.5	19393.9	19877.4	19592.7	17393.4	17314.6	20090.6
60°	20051.2	20094.1	19813.0	17850.1	18788.6	20592.0	21086.3	20643.9	18634.5	18598.7	20706.6
62.5°	19617.8	19859.5	20049.4	18965.9	19780.7	21473.1	21963.9	21458.8	19929.4	20189.1	21138.2
65°	18754.5	18806.5	19453.0	19911.5	20258.9	21618.2	21874.3	21605.7	21011.1	21637.9	21118.5
67.5°	17633.4	17678.2	18435.7	20221.3	19642.8	19970.6	20149.7	20070.9	20676.2	22134.0	20146.1
70°	16566.0	16530.2	17330.7	19431.5	17099.7	16601.8	16750.5	16503.3	17841.2	20921.5	18238.7
72.5°	14488.6	14617.5	15477.1	17235.8	13539.4	12729.9	13054.0	12414.7	13722.0	17918.2	14803.8
75°	11349.1	11379.5	12814.0	14465.3	10213.6	8936.7	9375.5	9108.6	10510.9	14947.0	10222.6
77.5°	7858.6	7790.5	9332.5	11048.2	7283.7	6542.2	6549.4	6422.2	7339.2	11005.2	6945.2
80°	4991.3	4887.4	5842.0	6825.2	5005.6	5354.9	5179.3	5174.0	4778.2	6789.4	4199.7
82.5°	2697.1	2811.7	3691.1	4278.5	3590.8	4138.8	3793.2	3682.1	3279.2	4249.9	2686.4
85°	1228.6	1336.0	1968.2	2910.2	2727.6	2758.0	1842.9	2174.2	2713.2	3451.1	1434.5
87.5°	120.0	154.0	406.5	1373.6	931.3	734.3	274.0	528.3	682.3	1226.8	114.6
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	8725.4	8725.4	8725.4	8725.4	8725.4	8725.4	8725.4	8725.4	8725.4	8725.4	8725.4
2.5°	9273.4	9180.3	8863.3	8601.8	8324.2	8112.9	7837.1	7652.6	7525.5	7333.8	7310.5
5°	8847.2	8619.7	8068.1	7505.8	7020.4	6655.1	6284.3	5944.1	5743.5	5680.8	5600.2
7.5°	8129.0	7745.7	7036.5	6391.8	5834.8	5290.4	4871.3	4574.0	4375.2	4258.8	4119.1
10°	7538.0	7093.8	6230.6	5440.8	4982.3	4643.9	4274.9	3956.1	3710.8	3501.3	3386.6
12.5°	7140.4	6638.9	5668.3	5027.1	4672.5	4312.5	3880.9	3522.7	3161.0	2922.8	2820.7
15°	7020.4	6490.3	5494.5	4821.2	4312.5	3841.5	3358.0	2890.5	2532.4	2306.7	2231.5
17.5°	7314.1	6673.0	5492.8	4547.1	3889.9	3327.5	2707.9	2269.1	1902.0	1733.6	1679.9
20°	7862.1	7024.0	5508.9	4276.7	3431.4	2639.8	1970.0	1610.0	1434.5	1362.9	1336.0
22.5°	8626.9	7559.5	5557.2	4009.9	2929.9	2027.3	1475.7	1293.0	1230.4	1217.8	1212.5
25°	9568.9	8222.1	5720.2	3769.9	2507.3	1547.4	1233.9	1151.6	1115.7	1103.2	1101.4
27.5°	10435.7	9078.2	5917.2	3563.9	2099.0	1334.2	1115.7	1045.9	1010.1	1008.3	1011.9
30°	11218.3	9794.5	6082.0	3332.9	1789.1	1185.6	1038.7	968.9	934.9	933.1	943.8
32.5°	11895.3	10383.8	6203.8	3105.5	1617.2	1094.3	968.9	893.7	865.0	859.6	865.0
35°	12618.8	10971.2	6148.2	2928.2	1518.7	1019.0	917.0	843.5	809.5	793.4	793.4
37.5°	13444.4	11576.5	6053.3	2781.3	1473.9	956.4	872.2	800.5	766.5	750.4	748.6
40°	14345.3	12181.8	5922.6	2650.6	1429.2	918.7	841.7	766.5	725.3	709.2	705.6
42.5°	15140.4	12699.4	5815.1	2564.6	1355.7	925.9	814.9	741.4	689.5	668.0	666.2
45°	15831.7	13220.6	5795.4	2514.5	1294.8	915.2	807.7	721.7	660.8	637.6	634.0
47.5°	16372.6	13763.2	5908.2	2485.8	1228.6	857.9	854.3	709.2	635.8	610.7	607.1
50°	17031.7	14533.3	6166.1	2426.7	1167.7	804.1	902.6	707.4	616.1	583.8	574.9
52.5°	17909.2	15536.2	6515.4	2321.0	1079.9	754.0	861.4	707.4	592.8	560.6	549.8
55°	19236.3	16815.0	6857.4	2172.4	956.4	687.7	777.3	685.9	558.8	530.1	522.9
57.5°	20115.6	17749.8	7075.9	1966.4	802.3	639.4	669.8	651.9	524.7	494.3	494.3
60°	20160.4	18000.5	6972.1	1706.7	705.6	594.6	582.0	657.3	494.3	462.1	458.5
62.5°	19644.6	17386.3	6431.2	1473.9	653.7	546.2	526.5	576.7	463.8	431.6	426.2
65°	18838.7	15819.2	5492.8	1362.9	625.0	503.2	474.6	472.8	431.6	401.2	394.0
67.5°	17357.6	13824.1	4513.1	1298.4	610.7	454.9	428.0	419.1	394.0	368.9	365.3
70°	15174.5	11578.3	3619.5	1271.6	603.5	404.7	383.3	372.5	351.0	331.3	329.5
72.5°	11805.8	9391.6	2987.3	1253.6	600.0	358.2	334.9	320.6	308.0	290.1	290.1
75°	8480.0	6909.4	2279.8	1130.1	555.2	308.0	283.0	274.0	256.1	241.8	245.4
77.5°	5345.9	4652.8	1500.8	831.0	429.8	247.1	225.7	220.3	206.0	186.3	198.8
80°	3610.5	3272.0	875.8	522.9	270.4	180.9	173.7	171.9	155.8	134.3	136.1
82.5°	2457.1	2410.6	454.9	297.3	155.8	105.7	102.1	105.7	87.8	71.6	71.6
85°	959.9	1311.0	214.9	116.4	50.1	16.1	23.3	25.1	14.3	7.2	9.0
87.5°	17.9	134.3	5.4	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°	8725.4	8725.4	8725.4	8725.4	8725.4	8725.4	8725.4	8725.4	8725.4	8725.4	8725.4
2.5°	7274.7	7258.6	7285.5	7170.8	7194.1	7237.1	7258.6	7271.1	7448.4	7407.3	7520.1
5°	5675.4	5659.3	5763.2	5777.5	5831.2	5820.5	5872.4	5885.0	5949.4	5972.7	6130.3
7.5°	4128.1	4197.9	4316.1	4377.0	4468.3	4497.0	4470.1	4536.4	4402.1	4498.8	4527.4
10°	3316.8	3232.6	3182.5	3322.2	3340.1	3472.6	3418.9	3375.9	3454.7	3458.3	3533.5
12.5°	2761.6	2580.7	2460.7	2500.1	2543.1	2600.4	2609.4	2695.3	2752.6	2806.4	2851.1
15°	2165.2	2102.5	1993.3	1939.6	2000.5	2023.7	2079.3	2150.9	2211.8	2227.9	2288.8
17.5°	1662.0	1672.7	1654.8	1622.6	1660.2	1678.1	1681.7	1683.5	1699.6	1688.8	1778.4
20°	1337.8	1375.4	1420.2	1427.4	1439.9	1448.9	1432.7	1371.8	1373.6	1411.2	1439.9
22.5°	1210.7	1217.8	1268.0	1284.1	1323.5	1307.4	1260.8	1232.2	1228.6	1237.5	1251.9
25°	1110.4	1121.1	1156.9	1182.0	1212.5	1183.8	1149.8	1122.9	1119.3	1128.3	1142.6
27.5°	1020.8	1036.9	1069.2	1094.3	1122.9	1096.0	1063.8	1040.5	1038.7	1036.9	1045.9
30°	949.2	967.1	990.4	1019.0	1038.7	1015.5	985.0	972.5	970.7	967.1	970.7
32.5°	877.6	906.2	929.5	943.8	963.5	945.6	922.3	915.2	902.6	891.9	886.5
35°	797.0	827.4	863.2	881.1	900.8	882.9	866.8	836.4	814.9	813.1	816.7
37.5°	750.4	762.9	791.6	822.0	841.7	832.8	802.3	771.9	766.5	766.5	770.1
40°	709.2	714.6	727.1	766.5	802.3	775.5	737.9	728.9	728.9	727.1	728.9
42.5°	668.0	673.4	673.4	703.8	761.1	718.2	689.5	689.5	689.5	691.3	696.7
45°	630.4	632.2	630.4	651.9	705.6	669.8	650.1	655.5	659.1	662.6	666.2
47.5°	598.2	600.0	598.2	616.1	642.9	628.6	617.9	625.0	632.2	637.6	641.1
50°	569.5	567.7	571.3	582.0	594.6	598.2	591.0	601.7	605.3	612.5	621.4
52.5°	544.4	542.6	546.2	551.6	569.5	569.5	569.5	578.5	585.6	592.8	605.3
55°	515.8	517.6	522.9	530.1	553.4	549.8	551.6	558.8	565.9	576.7	583.8
57.5°	488.9	492.5	499.7	510.4	533.7	531.9	533.7	537.3	546.2	551.6	558.8
60°	458.5	465.6	474.6	481.8	505.0	503.2	512.2	519.4	524.7	524.7	528.3
62.5°	428.0	438.8	447.7	453.1	478.2	480.0	492.5	497.9	501.5	497.9	503.2
65°	397.6	413.7	417.3	424.4	449.5	451.3	465.6	478.2	474.6	471.0	480.0
67.5°	367.1	386.8	385.0	394.0	419.1	422.7	435.2	456.7	449.5	445.9	453.1
70°	333.1	347.4	349.2	354.6	388.6	383.3	403.0	422.7	417.3	419.1	419.1
72.5°	295.5	308.0	308.0	318.8	354.6	345.6	361.8	383.3	383.3	381.5	381.5
75°	250.7	257.9	265.1	281.2	318.8	308.0	318.8	338.5	342.1	338.5	338.5
77.5°	202.4	213.1	216.7	238.2	265.1	263.3	274.0	283.0	290.1	286.5	286.5
80°	143.3	154.0	168.3	191.6	207.7	213.1	218.5	225.7	229.2	229.2	232.8
82.5°	80.6	96.7	109.2	132.5	139.7	166.6	164.8	170.1	164.8	145.1	161.2
85°	17.9	34.0	48.4	60.9	69.8	96.7	102.1	114.6	94.9	87.8	87.8
87.5°	0.0	0.0	0.0	0.0	0.0	14.3	28.7	39.4	34.0	28.7	28.7
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°	8725.4	8725.4	8725.4	8725.4	8725.4	8725.4	8725.4	8725.4	8725.4	8725.4
2.5°	7615.0	7770.8	7958.9	8283.0	8510.5	8755.8	9003.0	9266.2	9336.1	9407.7
5°	6173.3	6479.6	6646.1	7081.3	7538.0	8118.2	8592.8	9112.2	9328.9	9379.1
7.5°	4676.1	4883.8	5320.8	5761.4	6327.3	6936.2	7663.4	8472.8	8725.4	8831.0
10°	3707.2	3990.2	4373.4	4846.2	5342.3	5997.8	6818.0	7763.6	8121.8	8180.9
12.5°	3155.6	3470.8	3888.1	4387.8	4857.0	5351.3	6178.7	7154.7	7538.0	7665.1
15°	2523.4	2904.9	3386.6	3913.2	4423.6	4964.4	5802.6	6904.0	7346.4	7495.0
17.5°	1982.5	2290.6	2811.7	3383.1	3988.4	4672.5	5723.8	7024.0	7568.4	7706.3
20°	1516.9	1737.2	2176.0	2779.5	3488.7	4384.2	5743.5	7477.1	8129.0	8317.0
22.5°	1311.0	1423.8	1690.6	2265.5	3058.9	4133.4	5824.1	8098.5	8884.8	9198.2
25°	1187.4	1246.5	1396.9	1773.0	2648.8	3889.9	6008.5	8934.9	9941.4	10149.2
27.5°	1081.7	1124.7	1217.8	1488.3	2276.3	3664.2	6223.5	9862.6	10928.2	11238.0
30°	981.4	1038.7	1126.5	1321.7	2038.1	3458.3	6493.9	10614.8	11759.2	12047.5
32.5°	904.4	961.7	1042.3	1205.3	1835.7	3241.6	6655.1	11275.6	12437.9	12683.3
35°	841.7	890.1	974.3	1112.2	1681.7	3076.8	6622.8	11800.4	13095.2	13345.9
37.5°	797.0	838.2	922.3	1024.4	1565.3	2904.9	6606.7	12493.5	13895.8	14185.9
40°	755.8	798.8	875.8	967.1	1448.9	2702.5	6615.7	13181.2	14748.2	15038.4
42.5°	723.5	771.9	834.6	951.0	1328.9	2539.5	6615.7	13779.3	15489.7	15769.1
45°	696.7	748.6	809.5	949.2	1233.9	2416.0	6570.9	14293.3	16080.7	16318.9
47.5°	673.4	730.7	818.5	917.0	1210.7	2326.4	6531.5	14705.3	16562.4	16786.3
50°	657.3	725.3	870.4	879.3	1217.8	2299.5	6721.3	15224.6	16986.9	17180.3
52.5°	644.7	727.1	868.6	823.8	1205.3	2317.5	7117.1	16035.9	17576.1	17590.4
55°	619.7	725.3	823.8	761.1	1153.4	2347.9	7625.7	17214.3	18498.4	18509.2
57.5°	594.6	705.6	764.7	707.4	1047.7	2347.9	8238.2	18330.1	19610.6	19619.5
60°	569.5	734.3	671.6	660.8	909.8	2304.9	8884.8	18820.8	19959.8	20051.2
62.5°	544.4	739.7	600.0	619.7	809.5	2201.0	9366.5	18278.1	19487.0	19617.8
65°	515.8	596.4	553.4	576.7	757.6	2027.3	9214.3	17284.2	18598.7	18754.5
67.5°	481.8	505.0	503.2	531.9	739.7	1771.2	8412.0	16027.0	17642.4	17633.4
70°	440.6	453.1	458.5	488.9	705.6	1572.4	7009.7	14395.4	16365.4	16566.0
72.5°	397.6	408.3	413.7	440.6	671.6	1459.6	5440.8	12147.8	14175.1	14488.6
75°	351.0	358.2	365.3	388.6	635.8	1293.0	3875.6	9273.4	10856.6	11349.1
77.5°	302.7	302.7	311.6	334.9	535.5	1067.4	2600.4	6504.6	7355.3	7858.6
80°	245.4	247.1	243.6	268.6	394.0	730.7	1477.5	4344.8	4894.6	4991.3
82.5°	188.0	182.7	184.5	197.0	293.7	497.9	788.0	2698.9	2750.9	2697.1
85°	118.2	118.2	114.6	128.9	188.0	259.7	429.8	1653.0	1291.3	1228.6
87.5°	48.4	39.4	44.8	51.9	89.5	105.7	168.3	340.3	130.7	120.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)